

Carbon Reduction Commitment



We are dedicated to creating a sustainable future for our communities and the environment. As a leading civil engineering company specialising in highways, we recognise the significant impact our industry can have on carbon emissions.

We are committed to taking meaningful steps to reduce our carbon footprint and contribute to a greener, more sustainable world. We understand the particular importance of this given the critical risk of slope failure in many townships. We collaborate with our clients to deliver a plan that is specific to communities needs and in line with Climate Change Strategies and Delivery Plans, helping to protect the planet for our people and places.

Current Initiatives

Within our operational control, we are continually implementing various measures to minimise our environmental impact with achievable target dates. These include:

Current Initiatives	Summer 2026 Target	End 2026 Target	End 2027 Target
Local Resourcing	Switching all office and Yard Lighting to low energy LED or PIR Lighting	Use of electric plant	Switching waggons to Biofuels, providing a carbon reduction of around 90%
Establish de-carbonisation committee	Replacement programme of diesel vans with electric vehicles	Decommission of all non-Euro 6 Engines vehicles and use of AdBlue additive	Use of Solar Powered welfare facilities to harness renewable energy
Using low carbon alternatives (5% of materials)	Using low carbon alternatives (10% of materials)	Using low carbon alternatives (15% of materials)	Using low carbon alternatives (25% of materials)
Cycle to work scheme and vehicle sharing	10% of commuting journeys reduced	15% of commuting journeys reduced	20% of commuting journeys reduced

Comprehensive Carbon Costing System

In line with our commitment to transparency and accountability, we are actively working towards implementing a comprehensive carbon costing system. This system will enable us to measure our baseline usage accurately, distinguishing between different scopes of emissions.

Scope 1 (Direct Emissions): This includes emissions from our office operations and vehicles, among other direct sources. We will measure this by:

Vehicle Emissions

- Track fuel consumption for each vehicle
- Assess the type and amount of fuel used
- Consider emissions factors for different types of fuels

Construction Equipment

- Monitor fuel consumption of construction machinery
- Evaluate the efficiency of equipment to identify opportunities for improvement

Scope 2 (Indirect Emissions): Encompassing the energy consumed in site operations. We aim to gain a thorough understanding of our indirect emissions. We will measure this by:

Material Usage

- Consider transportation emissions associated with the delivery of materials.
- Explore alternatives with lower carbon intensity.

Office Operations

- Collect utility bills (gas and electricity consumption)
- Consider the energy efficiency of office appliances

Scope 3: Encompassing operational aspects, such as the materials used in our projects.

Material Usage

Assess the embedded carbon footprint of materials used in construction projects. We will prioritise suppliers that provide details of embedded carbon in their products and are taking steps to reduce it.

Accurately measuring our carbon footprint will allow us to determine our greatest sources of carbon emissions, and highlight how we can achieve realistic reductions, using a SMART targets approach such as:

1. **Specific:** Reduce Scope 1 carbon emissions by 20% compared to the previous year.
Measurable: Measure Scope 1 emissions annually using carbon accounting software.
Achievable: Implement energy-efficient technologies and practices to achieve the reduction target.
Relevant: Aligns with company sustainability goals and environmental commitments.
Time-bound: Achieve the reduction within the next three years.
2. **Specific:** Decrease Scope 2 carbon emissions intensity by 15% per unit of production.
Measurable: Calculate Scope 2 emissions quarterly using production data.
Achievable: Invest in renewable energy sources to power operations and reduce emissions.
Relevant: Supports the company's commitment to renewable energy and sustainability.
Time-bound: Achieve the intensity reduction within the next two years.
3. **Specific:** Retrofit office buildings with energy-efficient lighting and HVAC systems to achieve a 30% reduction in building-related emissions.
Measurable: Monitor building energy consumption and emissions monthly post-retrofit.
Achievable: Partner with energy service companies to identify and implement cost-effective retrofits.

Relevant: Targets emissions from building operations, a major source of carbon emissions.

Time-bound: Complete retrofits and achieve emission reduction within the next 6 months.

Client-Led Challenges

While we actively promote and advise our clients on sustainable practices, it is important to note that some carbon reduction initiatives are inherently client-led. Our commitment to environmentally friendly practices extends to offering guidance on the selection of better-sourced materials, such as eco-friendly concrete (e.g. Vertua Lower Carbon Concrete or CEVO) and tarmacadam (e.g. Utilow by Tarmac). We understand that, at times, the cost implications of these choices may present challenges for our clients in terms of cost-effectiveness. Therefore, we provide all the information to our clients so that they can make an informed decision on their available budgets and current priorities using our Carbon Management Plan.

Our bespoke Carbon Management Plan is a comprehensive tool which focuses on the initial design, improvement, and delivery of schemes, ensuring carbon reduction is embedded at every stage. The plan is instrumental in supporting clients by providing robust case studies and business cases for funding applications, while also being actively used on live schemes to monitor and manage carbon throughout delivery. During tendering, the Bill of Quantities is converted into a carbon cost with the support of our supply chain, enabling the identification of key opportunities for improvement, particularly in high-impact areas such as asphalt and concrete. These improvements are tracked by our commercial team to ensure alignment with sustainability goals. To monitor progress, we track emissions in real time using standardised frameworks like PAS 2080, with regular reporting provided. Upon project completion, detailed carbon reports are shared to support clients' broader sustainability objectives.

Initial Design										Delivery												
Description	Qty	Unit	Consumption	Fuel Type	Base Value CO2e	Total	Description	Qty	Unit	Consumption	Fuel Type	Base Value	Total	Description	Qty	Unit	Consumption	Fuel Type	Base Value	Total		
Resources						Improvement						Resources										
Site Staff Cars						Site Staff Cars						Site Staff Cars										
Site Manager	85%	Total Days	Liter/Day			85%	63.75	12.0	765	85%	63.75	12.0	765.0	0.1675	128.15							
Site Engineer	25%	18.75	12.0			25%	18.75	12.0	225	25%	18.75	12.0	225.0	0.1675	37.69							
Site QS	15%	11.25	12.0			15%	11.25	12.0	135	15%	11.25	12.0	135.0	0.1668	22.49							
TSD	85%	63.75	12.0			85%	63.75	12.0	765	85%	63.75	12.0	765.0	0.1675	128.15							
Labour						Labour						Labour										
Van/Pick Up		200.00	days	16.5										200.00	days	16.5	3,300.0	0.1675	552.78			
Tipper / Hiab /Vaggon		65.00	days	100.0										65.00	days	100.0	6,500.0	0.1675	1,088.82			
Plant						Plant						Plant										
Small Exc		100	days	25.0										100	days	25.0	2,500.0	0.1675	418.78			
Dumper		65	days	15.0										65	days	15.0	975.0	0.1675	163.32			
Paver/Planner Machine		45	days	50.0										45	days	50.0	2,250.0	2,520.0	5,670.00			
Site Accom (Hr diesel/day)		75	days	15.0										75	days	15.0	1,125.0	2,520.0	2,935.00			
Materials						Materials						Materials										
Concrete Gully & Cover slab	8	no				8	no							8	no						0.0209	0.17
Ductile Iron Grating 75 mm	8	no				8	no							8	no						0.00195	0.82
100mm plastic pipe	150	lm				150	lm							150	lm						0.3780	56.70
48mm metal pipe	70	lm				70	lm							70	lm						0.020	1.40
125x255 PCC Bullnosed Kerb	255	lm				255	lm							255	lm						7.65000	1,950.75
50 x 200 PCC Flat Top Edging	110	lm				110	lm							110	lm						2.35000	258.50
60mm PCC paving	102	m2				102	m2							102	m2						15.75000	1,606.50
ST2 Concrete Drainage [Mix (CIB-M S-L)]	35	m3				35	m3							35	m3						0.4748	16.62
ST2 Concrete kerbs [Mix (CIB-M S-L)]	30	m3				30	m3							30	m3						0.4748	14.24
ST2 Concrete Paving [Mix (CIB-M S-L)]	6	m3				6	m3							6	m3						0.4748	2.85
ST2 Concrete to Chvay [Mix (CEM/CEMIIA)]	12	m3				12	m3							12	m3						0.4748	5.70
Standard MDT	110	T				110	T							110	T						0.00200	1.10
Clean Stone	5	T				5	T							5	T						0.00200	0.01
AC 32 dense base (Hot mix)	30	T				30	T							30	T						30.53355	916.01
AC20 dense binder Course	64	T				64	T							64	T						17.00000	1,088.00
HRA 30/HF Hot (A&T)	240	T				240	T							240	T						42.00000	10,080.00
10mm Dense surface (ULTIPAVE M 10mm Surf (PMB))	20	T				20	T							20	T						33.55988	671.20
6mm open texture (SMA 6 Peg Hot)	45	T				45	T							45	T						32.56805	1,465.47
Tac Coat	1200	litres				1200	litres							1200	litres						0.43260	519.12
													Misc Materials Allow		5%	1,484.98						
													Base Line Carbon Target (tonnes)		34,019.49							
													Misc Materials Allow		5%	1,484.98						
													Base Line Carbon Target (tonnes)		23,036.43							

Balancing Sustainability and Cost-Effectiveness

We acknowledge the delicate balance between sustainability and cost-effectiveness. In instances where the use of more environmentally friendly materials may incur higher costs, we work closely with our clients to explore viable alternatives that align with their budget constraints. Our goal is to find innovative solutions that meet both environmental and financial objectives.

Continuous Improvement

We view our carbon reduction efforts as an ongoing journey. As technology advances and sustainable practices evolve, we remain committed to staying at the forefront of innovation. This commitment extends to developing and implementing new, cost-effective solutions and a comprehensive carbon costing system to accurately measure our carbon usage.

Transparency and Collaboration

Open communication and collaboration are integral to achieving our sustainability goals. We are transparent with our clients, stakeholders, and team members about our initiatives, challenges, and progress in reducing carbon emissions. Together, we can work towards a future where infrastructure development and environmental stewardship go hand in hand.

Carbon offsetting

While the most impactful change in carbon reduction occurs at the source, the construction industry still has a considerable journey ahead to curtail its carbon outputs. In response, we have pledged to offset a percentage of our emissions through various avenues, with tree planting being our main initiative.

In recent years, we have encouraged and supported tree planting initiatives within local authorities in the Northwest. Notably, our most successful project took place in Penny Lane, where, in collaboration with Stockport Council and City of Trees, we transformed a previously derelict piece of land in Stockport by planting 7,500 trees.

