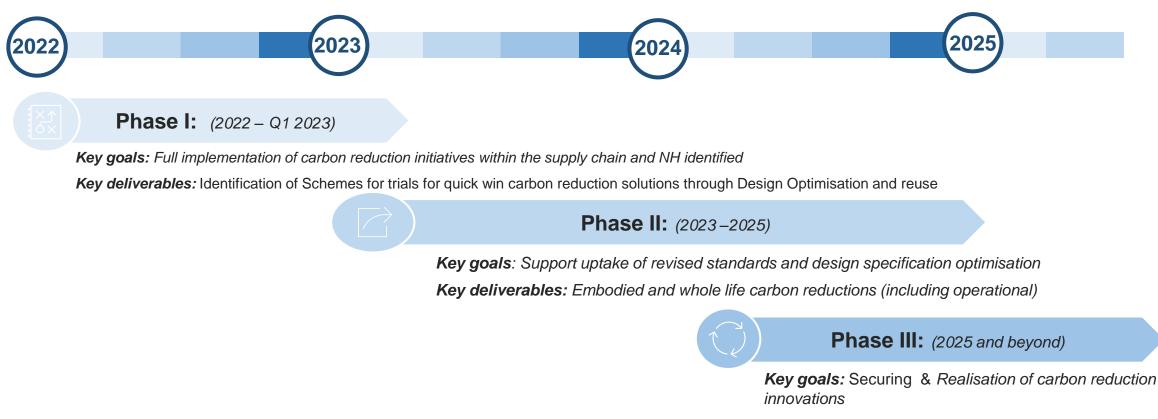
Structural Steel & Gantries Carbon Net Zero Plan



Category: Structural Steel & Gantries

Carbon NetZero goals and key deliverables



Key deliverables: Standardised Monitoring and capture of lower carbon reduction performance

National Highways is committed to achieve decarbonisation in line with the Governments decarbonation ambitions. We are developing the Structural Steel & Gantries road map as set out within our 2030/2040/2050 plan, which will identify carbon reduction initiatives. This will be supplemented by a focus on integrated carbon thinking within the DMRB by 2025 and a renewed focus design & optimisation



Category: Structural Steel & Gantries

Carbon Reduction INITATIVES within the Structural Steel & Gantries Roadmap

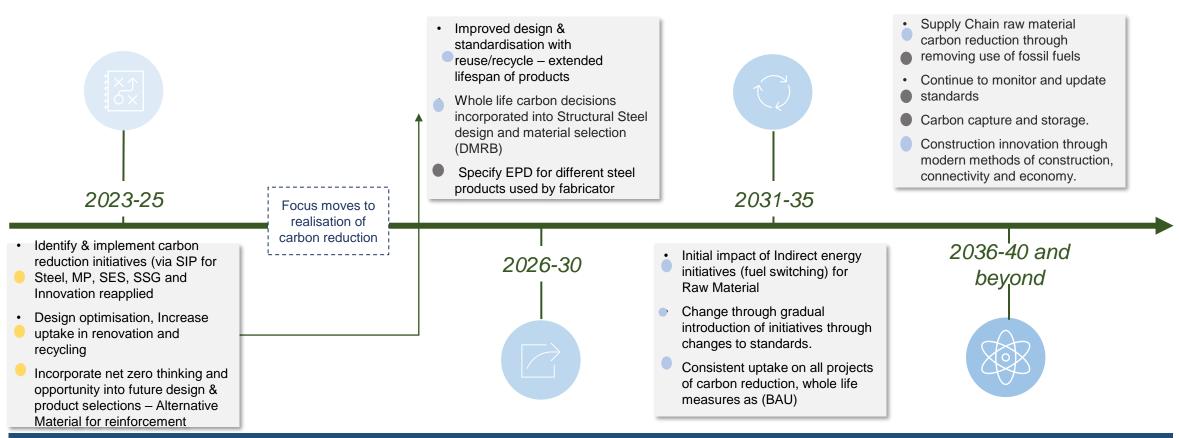
	Carbon Reduction initiatives	Main Actions and next steps
Phase I: (2022 – 2023)	 Encourage Reuse and Design optimisation Innovation initiatives launch with SIP and Supplier communities Knowledge sharing routes formulated, providing education, best practise 	 Encourage uptake of lower carbon products by introducing a carbon tool structures at design stage Review current standards for renovation, reuse & recycling options Publication of updates for recycled content and improved durability for current products
Phase II: (2023 – 2025)	 Investigate & deploy design optimisation, standardisation, and circular economy Promote the efficient use of materials. Including reuse and recycling. Reducing embodied and whole life carbon Case Study trial(s) of standardisation design change Changes to SCORBS Ratings /Standards 	 Publish case studies including carbon reduction opportunities such as optimised cold recycling . Whole life carbon considered and demonstrated within Structural Steel & Gantries design and delivery. Continue trials & industry engagement for opportunities in carbon reduction.
Phase III: 2025 and beyond	 Update National Highways standards based on available information from phase II. Continue industry engagement and collaboration with Industry and Public Sector working groups including BEIS & DFT to encourage industry to fast track their emission reduction processes Actively capture and monitor carbon reduction vs our Net Zero Plan targets. Ensuring delivery consistently utilises Carbon Capture reporting tool 	 National Highways to continually monitor and update standards including opportunities for carbon reduction. Hold regular updated working sessions with our Supply chain and industry groups like BCSA and Climate Group Steel Zero, and continue work with other public Sector Bodies such as HS2 and Network rail through DFT and BEIS

Category: Structural Steel & Gantries

	2022			2023			2024				2025					
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Phase I:																
Section and profile optimisation – optimise functionality																
Action b Review current standards; including renovation & recycling options						.										
Action c Publication of prioritised updates							 1									
Phase II:																
Action a Publish case studies; including further carbon opportunities – Continuous innovation																
 Action b Whole life carbon considered and demonstrated within Structural Steel & Gantries design and delivery Action c Continue trials & industry engagement for opportunities to action low carbon via Structural Steel & Gantries Supplier Community & Innovation Reapplied and SIP 																
								7								
Phase III:												_	>			
Action a National Highways to continually monitor and update standards including opportunities for carbon reduction.												_	>			
Action b Hold regular touch point sessions with our supply chain and industry groups like DFT BEIS, BSCA CLIMATE STEEL ZERO Group																
Action c Ensure National Highways carbon capture tools are adopted through delivery.																V



Category: Structural Steel & Gantries Carbon NetZero Initiatives plan



It is key for National Highways to work closely with the supply chain and wider industry bodies to be able to achieve net zero by 2040. Trialling net zero barrier maintenance and construction schemes on the SRN between 2023-2025. New technologies, fuel changes, a whole life carbon approach to design, delivery and materials will be key to meeting our ambitions.

Legend:

