

Road Restraints Systems (RRS) Carbon Net Zero Plan

Category: Road Restraints

Carbon NetZero goals and key deliverables



Phase I: (2022 – Q1 2023)

Key goals: Full implementation/ switch to as specified barriers and other carbon reduction initiatives

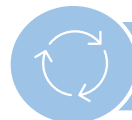
Key deliverables: Adapting/changing standards, utilise NH platform to promote the use of right size carbon decisions across the wider highway industry



Phase II: (2023–2025)

Key goals: Support uptake of revised standards and “Right Sizing Specifications (DMRB)

Key deliverables: Embodied and whole life carbon reductions (including operational)



Phase III: (2025 and beyond)

Key goals: Realisation of carbon reduction innovations

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 Road Restraint Systems plan 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 on quality.

Category: Road Restraints

Carbon Reduction INITIATIVES within the RRS plan

Carbon Reduction initiatives

Main Actions and next steps



Phase I:

(2022 – 2023)

- Encourage uptake of lower carbon products
- Increase use of renovated products, recycled content and reuse where appropriate
- Review performance of current materials, reduction of any maintenance issues

- Encourage uptake of lower carbon products by introducing a carbon tool for barrier 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 new materials and low carbon concretes
- Promote the efficient use of materials. Including recycling.
- Reducing embodied and whole life carbon

- Publish case studies including carbon reduction opportunities.
- Whole life carbon considered and demonstrated within Road Restraints design and delivery.
- Continue trials & industry engagement for opportunities in carbon reduction.



Phase III:

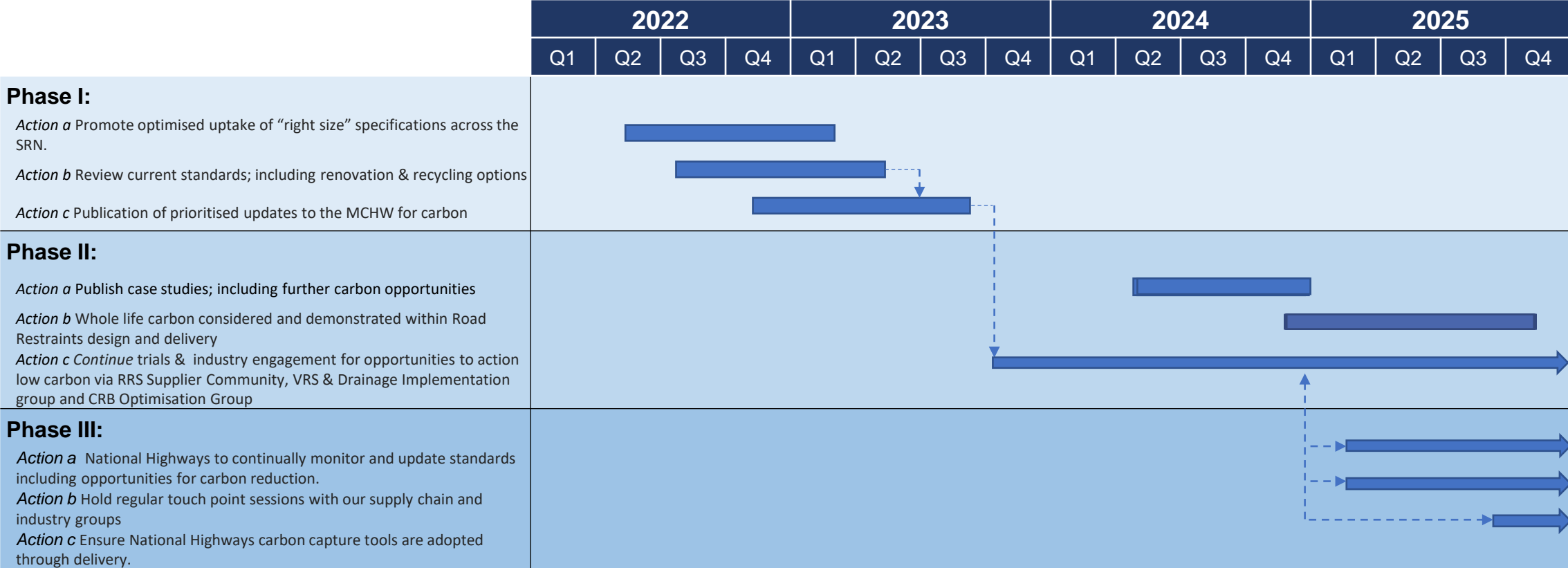
2025 and beyond

- Update National Highways standards based on available information from phase II.
- Continue industry engagement and working groups to encourage uptake and realise carbon reductions.
- Actively capture and monitor carbon reduction vs our Net Zero Plan targets.

- National Highways to continually monitor and update standards including opportunities for carbon reduction.
- Hold regular touch point sessions with our supply chain and industry groups.
- Ensure National Highways carbon capture tools are adopted through delivery.

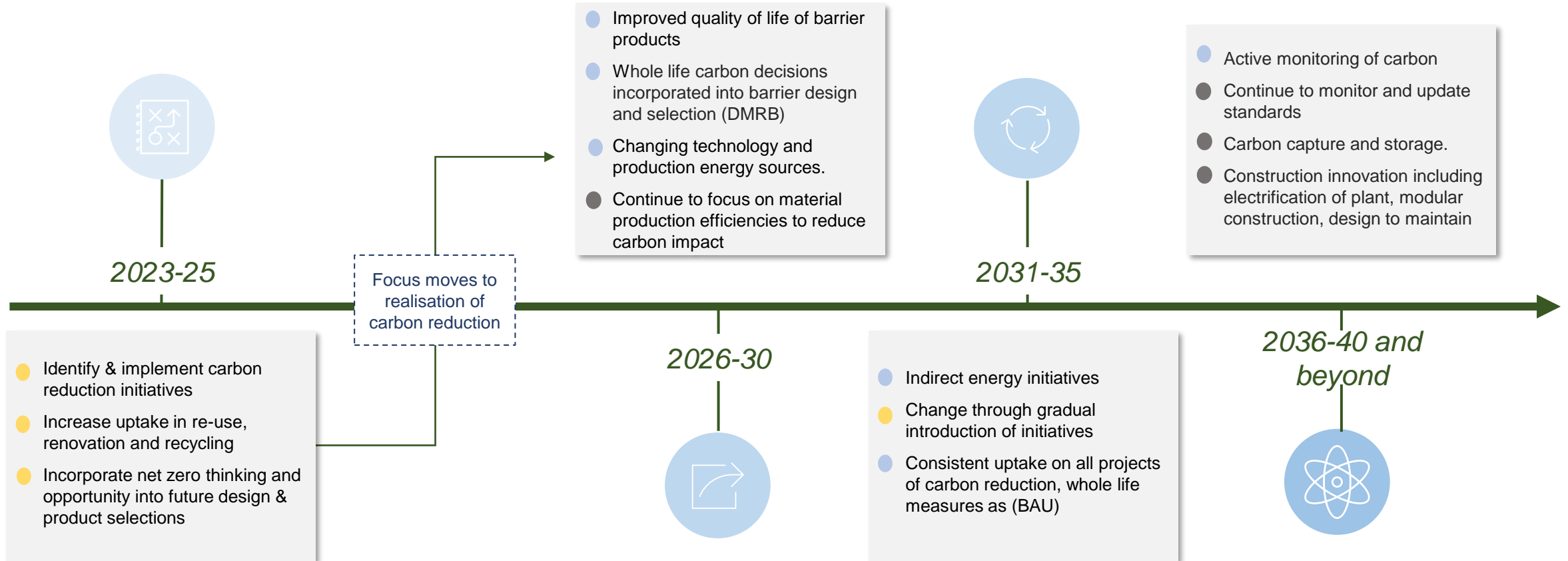
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Detailed timing plan



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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, a whole life carbon approach to design, delivery and carbon reduced materials will be key to meeting our ambitions.

Legend:

- Higher Impact
- Lower Impact
- Unknown Impact