

The NSW Government is working towards a net zero infrastructure sector, and is focused on uplifting capability and capacity of agencies and industry partners.

Transport for NSW (Transport), through its Sustainable Infrastructure Program, and Infrastructure NSW (INSW) will continue to engage with industry partners using this roadmap to co-design, trial and implement best practice across NSW Government projects to decarbonise the infrastructure sector.

**Legend**

- Sustainable Infrastructure Program
- Decarbonising Infrastructure Delivery Policy and Measurement Guidance
- NSW government outputs at national level
- Capability uplift
- Protection of the Environment Policy (PEP)

2023

**Set policy direction and guidance**  
Initial targets, processes and data structures established in Transport's project portfolio

<ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #FFC000; border: 1px solid black;"></span> Sustainable procurement framework including minimum emission reduction targets implemented across Transport's major projects portfolio <b>COMPLETED</b></li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #FFC000; border: 1px solid black;"></span> Transport develop Net Zero and Climate Change Policy including cluster-wide targets for infrastructure development and delivery <b>COMPLETED</b></li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #FFC000; border: 1px solid black;"></span> Investigate inclusion of carbon in project costing as part of Transport Digital Engineering Framework <b>COMPLETED</b></li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #9370DB; border: 1px solid black;"></span> Pilot PEP requirements for embodied carbon reporting and recycled materials use on selected Transport projects <b>ONGOING</b></li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #FFB6C1; border: 1px solid black;"></span> Stakeholder engagement on draft carbon measurement approach and policy <b>COMPLETED</b></li> </ul>	<ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #9370DB; border: 1px solid black;"></span> Notice of Intention to develop a PEP published in the Government Gazette <b>COMPLETED</b></li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #FFB6C1; border: 1px solid black;"></span> Report and guidance on prescriptive materials and design specifications in NSW Government infrastructure <b>COMPLETED</b></li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #FFB6C1; border: 1px solid black;"></span> NSW Government Investor Assurance process to consider embodied emissions in options analysis for all infrastructure, encouraging non-build and augmentation solutions <b>COMPLETED</b></li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #FFC000; border: 1px solid black;"></span> Transport to develop 'decarbonising infrastructure' guidance for incorporation into early market engagement process <b>COMPLETED</b></li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #FFB6C1; border: 1px solid black;"></span> Carbon measurement guidance developed for all NSW Government infrastructure <b>COMPLETED</b></li> </ul>
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2024

**Initial policy implementation and refinements**  
Research and innovation targeting key barriers and opportunities

<ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #FFB6C1; border: 1px solid black;"></span> Decarbonising Infrastructure Delivery Policy and Measurement Guidance released for infrastructure agencies <b>COMPLETED</b></li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #90EE90; border: 1px solid black;"></span> Undertake surveys and focus groups across NSW Government delivery agencies and industry to understand current carbon management capability and maturity</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #A9A9A9; border: 1px solid black;"></span> National carbon measurement guidance, and national carbon in procurement and contracts guideline tabled at the Infrastructure and Transport Ministers Meeting for endorsement</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #90EE90; border: 1px solid black;"></span> Develop and deliver training program to uplift carbon management capability across NSW Government delivery agencies and industry</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #9370DB; border: 1px solid black;"></span> Investigate reporting platforms and opportunities to align reporting requirements across NSW Government policy initiatives <b>ONGOING</b></li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #FFC000; border: 1px solid black;"></span> Transport issues direction on modelling baseline and decarbonised options in Cost Benefit Analysis based on historical back analysis</li> </ul>	<ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #FFC000; border: 1px solid black;"></span> Introduce whole life carbon estimates into Transport strategic decision making and optioneering phases on major projects</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #FFC000; border: 1px solid black;"></span> Release version one of the Transport Engineering Cost and Carbon Library</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #9370DB; border: 1px solid black;"></span> PEP public exhibition period for a minimum of three months</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #FFC000; border: 1px solid black;"></span> Carbon estimates for base case comparison to be included in Transport major project tender submissions</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #9370DB; border: 1px solid black;"></span> Release PEP for NSW Government infrastructure</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #90EE90; border: 1px solid black;"></span> Develop policy compliance toolkit, including templates and case studies</li> </ul>
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2025

**Use data and policy feedback to refine targets**  
Implement and improve systems to make processes BAU

<ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #9370DB; border: 1px solid black;"></span> Establish and test monitoring framework and reporting platform</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #FFC000; border: 1px solid black;"></span> Complete the Phase 1 Net Zero and Circular Economy Guidelines for transport operations</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #FFB6C1; border: 1px solid black;"></span> Decarbonising Infrastructure Delivery Policy and Measurement Guidance becomes operational</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #FFC000; border: 1px solid black;"></span> Transport Digital Engineering Framework includes carbon dimension</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #FFB6C1; border: 1px solid black;"></span> Investigate expanding Decarbonising Infrastructure Delivery Policy to include other carbon lifecycle stages</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #FFC000; border: 1px solid black;"></span> Transport's carbon and cost management approach is multimodal and includes setting Project Carbon Budgets (PCBs)</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #FFC000; border: 1px solid black;"></span> Transport to implement certified Carbon Management System</li> </ul>	<ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #FFC000; border: 1px solid black;"></span> Transport establish carbon intensity thresholds for standards, specifications and technical requirements</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #9370DB; border: 1px solid black;"></span> Commencement of PEP for NSW Government infrastructure</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #FFC000; border: 1px solid black;"></span> Transport major projects move to the most advantageous tender (MAT) for bid evaluation</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #FFC000; border: 1px solid black;"></span> Issue guidance based on lessons learnt to consistently balance user needs, cost, program and carbon during Transport's options analysis process</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #FFC000; border: 1px solid black;"></span> Consistent incentives for lower carbon and circularity outcomes are applied on Transport's projects</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #FFC000; border: 1px solid black;"></span> Evaluation of effectiveness of use of carbon values in business cases to drive lower carbon outcomes</li> </ul>
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2026

**Ongoing implementation and monitoring of Government decision-making and outcomes**  
Increased expectations on Transport's key projects and industry partners to adopt complementary systems and approaches

<ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #FFC000; border: 1px solid black;"></span> Transport investigates deploying an infrastructure related value toolkit which considers natural, human, social and produced capital</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #FFC000; border: 1px solid black;"></span> Complete the Phase 2 Net Zero and Circular Economy Guidelines for transport infrastructure</li> </ul>	<ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #FFB6C1; border: 1px solid black;"></span> Review the Decarbonising Infrastructure Delivery Policy</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #FFC000; border: 1px solid black;"></span> Transport's Top Tier delivery partners and their core supply chain to implement a certified Carbon Management System</li> </ul>
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