

Decarbonising Infrastructure

Roadmap

The NSW Government is working to uplift the capability and capacity of agencies and infrastructure industry partners to transition to a Net Zero future.

Transport for NSW's (Transport) Infrastructure & Place Division, through its Sustainable Infrastructure Program, and Infrastructure NSW (INSW) more broadly, will continue to engage with industry partners using this roadmap to co-design, trial and implement best practice across NSW Government projects.

Set policy direction and guidance Initial targets, processes and data structures established in Transport's project portfolio Sustainable procurement framework including minimum emissions reduction targets implemented across Transport's major projects portfolio *INSW 4.1, 4.2, 5.1, 5.2 Notice of Intention to develop a Protection of Environment Policy (PEP) published in the **Government Gazette INSW 3.4** Transport develop Net Zero and Climate Change Policy including cluster-wide targets for infrastructure development and delivery Report and guidance on prescriptive materials and design specifications in NSW Government infrastructure **INSW 2.4** Investigate inclusion of carbon in project costing as part of Transport Digital Engineering Framework **INSW 1.1** NSW Government Investor Assurance process to consider embodied emissions in options analysis for all infrastructure, encouraging non-build and augmentation solutions Pilot PEP requirements for embodied carbon reporting **INSW 2.1** and recycled materials use on selected Transport projects **INSW 3.4** PEP public exhibition period for a minimum of three months **INSW 3.4** Stakeholder engagement on draft carbon measurement approach and policy **INSW 1.1** Transport to develop 'decarbonising infrastructure' guidance for incorporation into early market engagement process INSW 1.1, 2.2, 2.3, 3.2 Carbon measurement guidance released for all NSW Government infrastructure **INSW 1.1** 2024 Initial policy implementation and refinements Research and innovation targeting key barriers and opportunities **NSW Government Decarbonising Infrastructure** Delivery policy released for infrastructure agencies **INSW 1.1** Commencement of PEP for NSW Government infrastructure **INSW 3.4** Transport to commence Zero Carbon Materials Innovation Program, accelerating R&D, updates to standards and specifications, and broaden uptake in procurement **INSW 2.4** Introduce whole life carbon estimates into Transport strategic decision making and optioneering phases INSW 1.1, 2.2, 2.3, 3.2 Apply carbon externality values in Transport business cases to drive rapid decarbonisation and align to NSW Net Zero Plan INSW 1.1, 2.2, 2.3, 3.2 Transport develop consistent carbon footprint models by asset type that utilise historical data to inform early decision making INSW 1.1, 2.2, 2.3, 3.2 Carbon estimates for base case comparison to be included in Transport project tender submissions INSW 4.1, 4.2, 5.1, 5.2 Transport to develop framework to assure carbon data reporting INSW 4.1, 4.2, 5.1, 5.2 Launch Transport's Modern Methods of Construction project pilots INSW 4.1, 4.2, 5.1, 5.2 Use data and policy feedback to refine targets Implement and improve systems to make processes BAU Transport to implement certified Carbon Management System **INSW 1.1** Apply upper carbon thresholds for standards, specifications and technical requirements on key Transport projects **INSW 1.1** Issue guidance based on lessons learnt to consistently balance user needs, cost, program and carbon during Transport's options analysis process INSW 1.1, 2.2, 2.3, 3.2 Incentivise lower carbon and circularity outcomes on Transport's projects INSW 4.1, 4.2, 5.1, 5.2 Systems established to integrate as-built carbon data into Transport's carbon footprint models INSW 4.1, 4.2, 5.1, 5.2 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

Transport's Top Tier delivery partners and their core supply chain to implement a certified Carbon

INSW 4.1, 4.2, 5.1, 5.2

Management System

* INSW numbers refer to actions in the <u>Decarbonising Infrastructure</u> <u>Delivery Discussion Policy</u>