



KPMG Embodied Carbon Management System





As our focus on decarbonising operational assets increases, embodied carbon represents an untapped area for carbon optimisation. The coming three decades will witness the global construction industry surpassing USD30 trillion annually from the current spending of around USD11 trillion, with every billion dollar spent resulting in the generation of 1 million tons of embodied carbon.¹

KPMG Embodied Carbon Management System aims to aid stakeholders in making carbon-conscious decisions across the lifecycle of capex projects. It is a Building Information Modeling (BIM) based tool enabling multiple features as listed:

BIM-based emission assessment

- Visual 3D assessment
- Carbon & environmental product declarations database
- Carbon heatmap and traceability
- Multi-scenario analysis
- Element tagging with meta data

Supply-chain and timeline-integrated assessment

- Logistics & transport integration
- 4D / timeline integration
- Real-time dashboards: baseline and carbon updates
- Carbon hotspots with interactive 3D views

Please scan the below QR code to access the Thought Leadership released by KPMG in India on 'Embodied carbon management for global infrastructure' highlighting the rising importance of increasing carbon emissions from capital projects on a global scale



1. Future of Construction- A global forecast for construction to 2030 by Marsh & Guy Carpenter, September 2021

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