

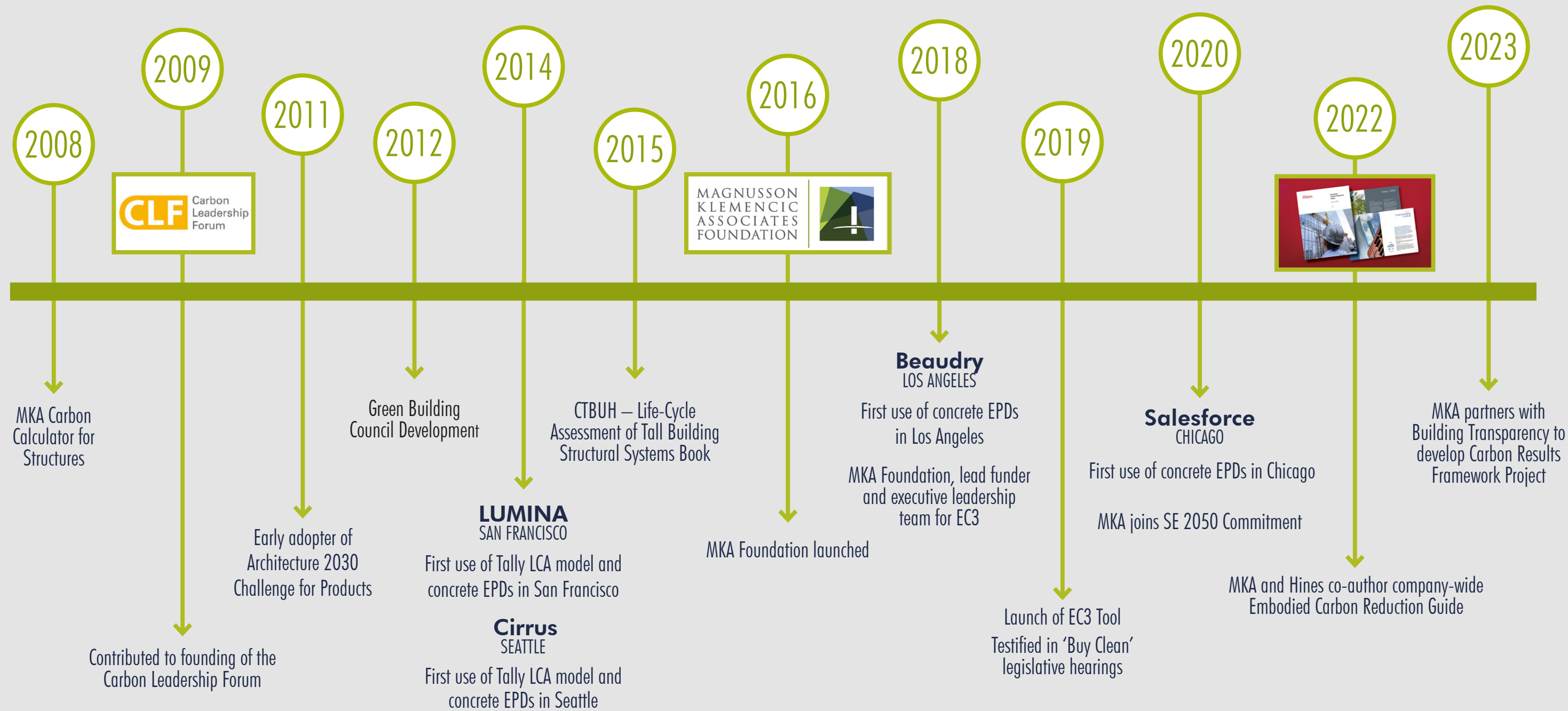
EMBODIED CARBON ACTION PLAN 2025

MAGNUSSON
KLEMENCIC
ASSOCIATES
Structural + Civil Engineers
Seattle Chicago

CONSISTENT COMMITMENT

MKA has demonstrated leadership in embodied carbon reduction and sustainability dating back to some of the first carbon calculations for structures in 2008. We remain actively engaged by guiding the industry and making investments to accelerate the evolution of this topic and create the most significant carbon reduction on our projects.

MKA'S EMBODIED CARBON LEADERSHIP





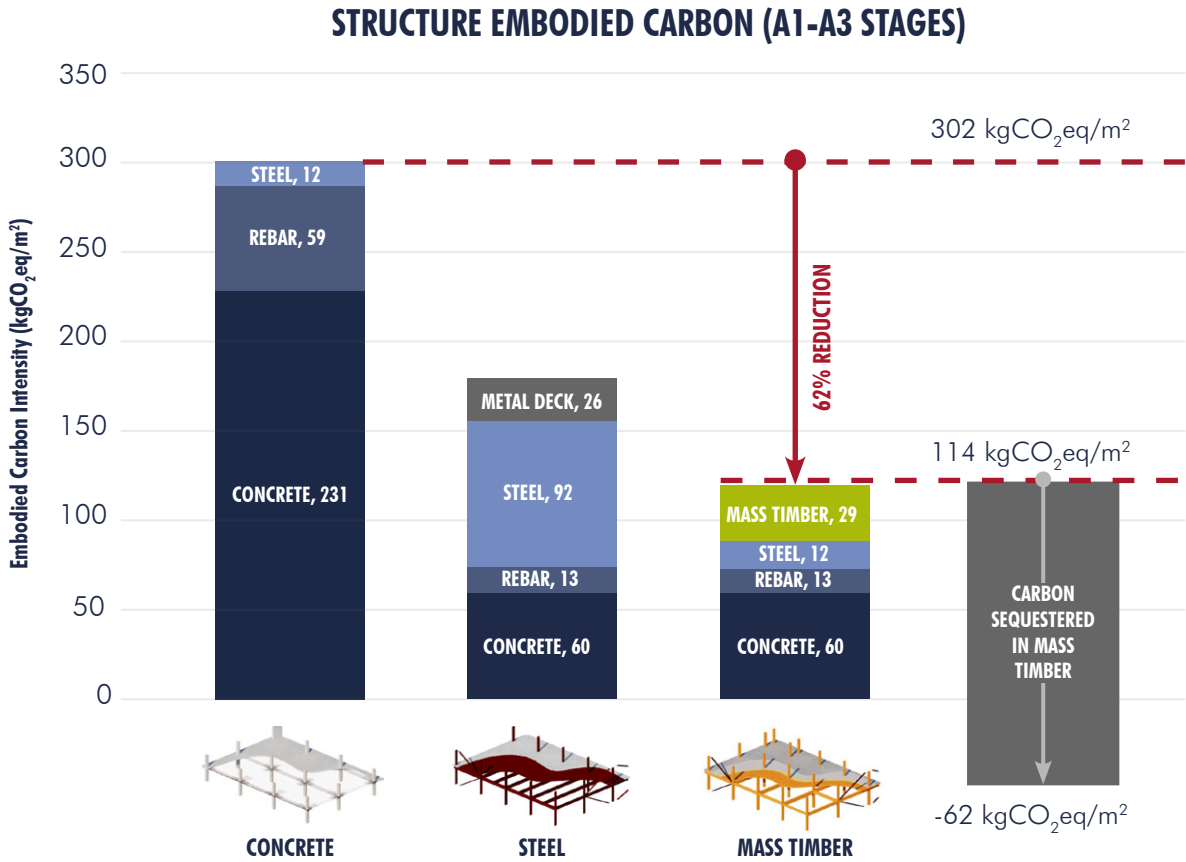
University of Washington Foster School of Business Founders Hall

Upon opening, the project was named the University's "greenest building," designed to achieve a cumulative carbon reduction of **76% for operational and embodied carbon**, use **70% less energy**, and **53% less water** compared to typical facilities built with conventional methods.

GLULAM BEAMS AND CONCRETE CORE USED IN THE CONSTRUCTION OF UNIVERSITY OF WASHINGTON FOSTER SCHOOL OF BUSINESS FOUNDERS HALL BUILDING

EXPERT GUIDANCE

MKA's Sustainability Technical Specialist Team regularly performs structural life cycle analyses (LCA) to evaluate the embodied carbon impacts of structural system selection. This specialization and high-level understanding of LCA are key components of the early guidance we can provide our clients in order to discern the impact of embodied carbon in system selection. For example, the comparison below highlights the embodied carbon reduction achieved for the University of Washington Foster School of Business Founders Hall project compared to traditional concrete buildings. For this project, the savings were particularly impactful due to the lightweight mass timber superstructure, which allows further reductions of concrete and reinforcement in foundations and shear walls.



Using the latest advancements in LCA will continue to be a mainstay in our mission to provide clients with the most informed early guidance on design decisions impacting embodied carbon.



MANAGING POLICY SHIFTS

Changes surrounding embodied carbon are also occurring at the policy level. Local, state, and national policy developments are sure to impact many future developments. Because of MKA’s recognized leadership and expertise in the industry, we are often asked to provide input on these policies.

MKA has been working with the City of Seattle on establishing appropriate embodied carbon limits for construction materials. At the state level, MKA is involved in California’s new CALGreen requirements, the first mandatory state-level embodied carbon limits. At the national level, MKA participates in the National Science Foundation’s Concrete Product Category Rule Committee, which sets the new standards for developing concrete EPDs.

Participating in these larger conversations means we are aware of upcoming changes and have the expertise to help our clients navigate carbon policies to create the most beneficial projects.



MKA COLLABORATES ON EMBODIED CARBON IN POLICY AND BUILDING CODE



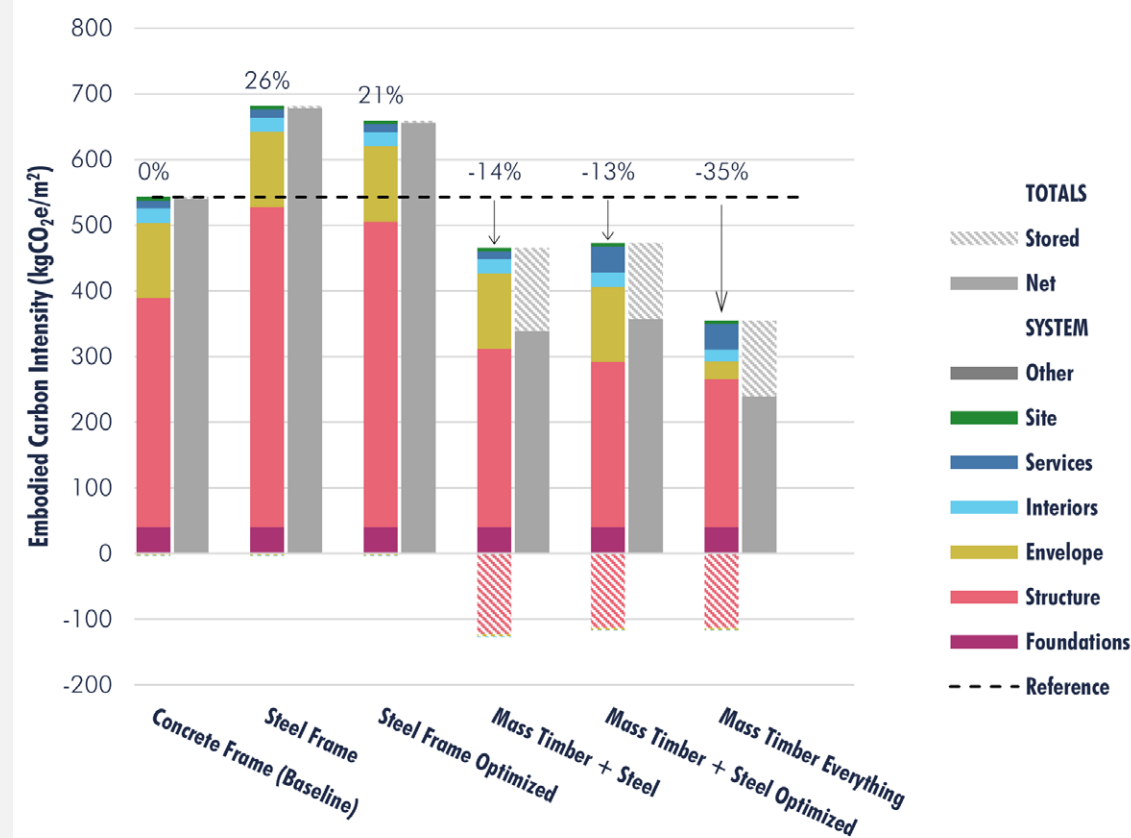
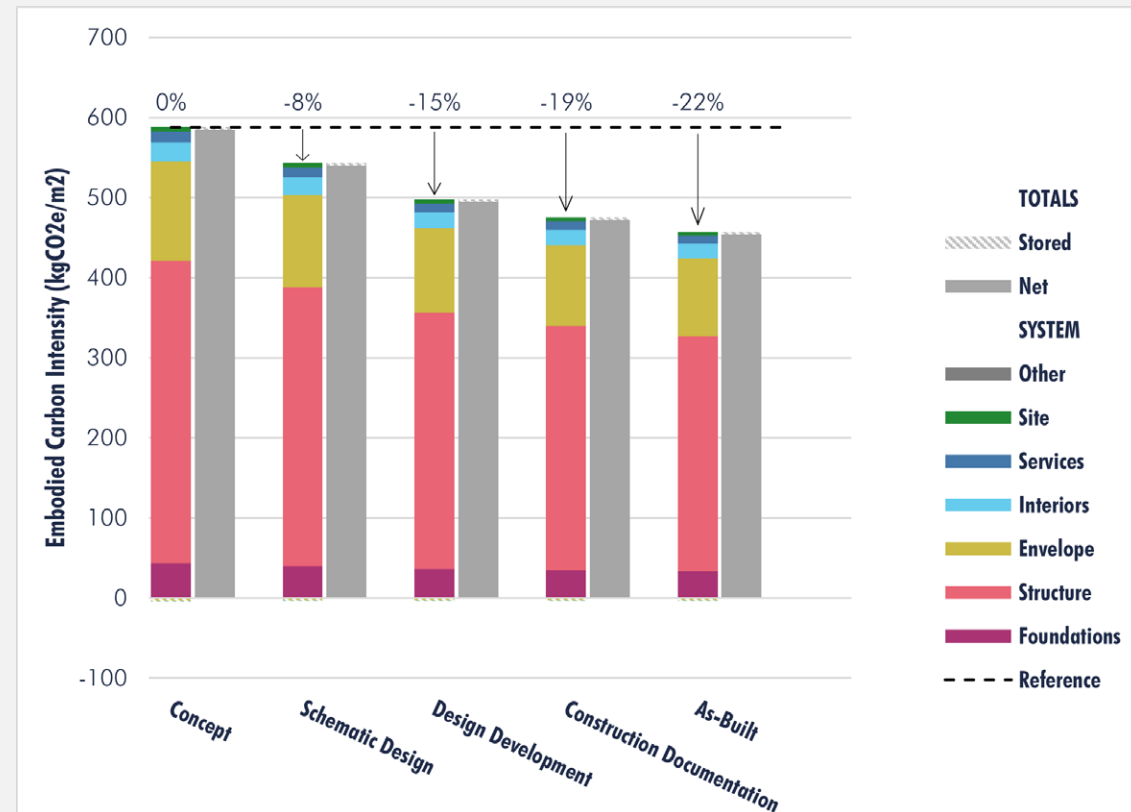
MKA’s IAN MCFARLANE, PE, SE, PARTICIPATING IN A PANEL DISCUSSION ON LOW-CARBON CONCRETE



MKA’s JULIETTE PEYROUX, PE, SE, PRESENTS “RAISING THE BAR BY LOWERING THE CARBON” DURING THE AIRPORT CONSULTANTS COUNCIL, PLANNING DESIGN & CONSTRUCTION SYMPOSIUM IN ANAHEIM, CA



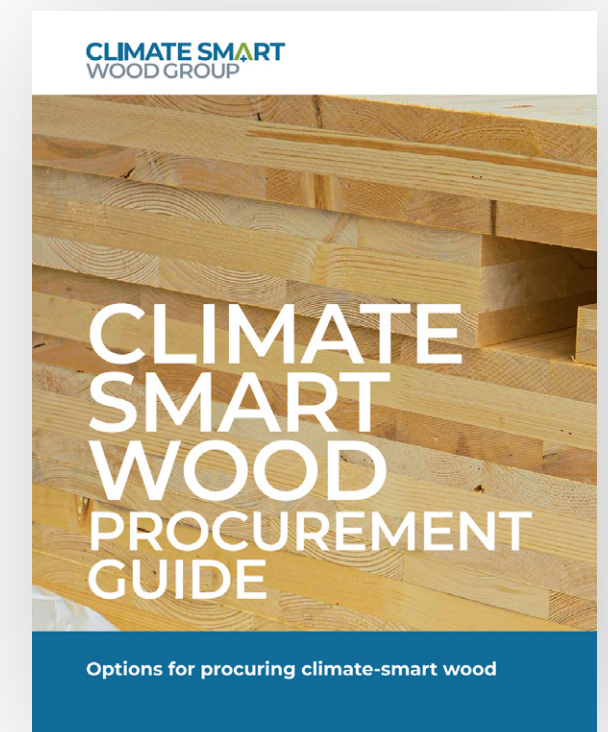
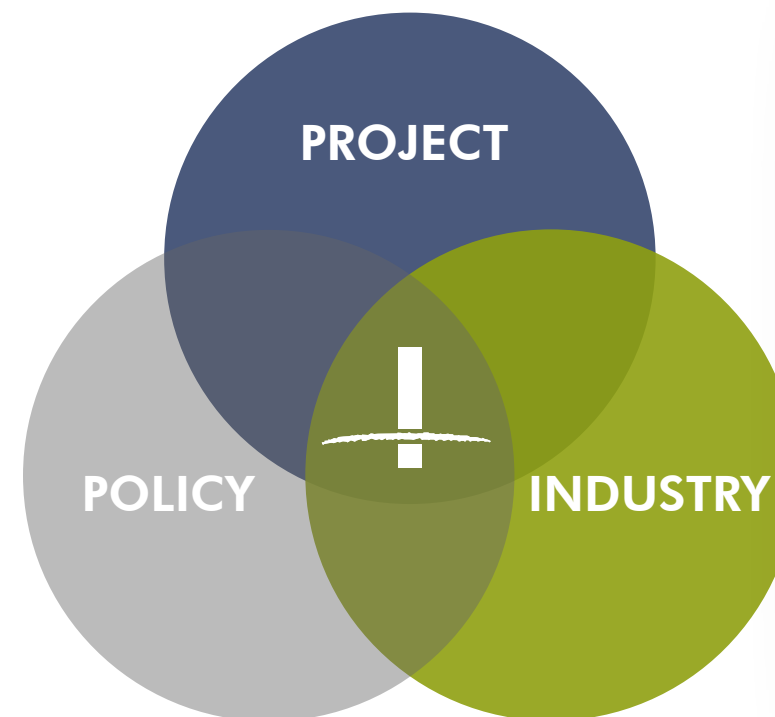
MKA AND BUILDING TRANSPARENCY CARBON RESULTS FRAMEWORK EXAMPLE

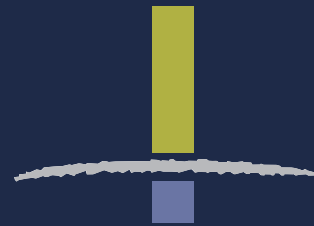


INDUSTRY IMPACT

Our dedication to reducing embodied carbon extends beyond project work as we seek to create impact and change at the industry level. An example is MKA's project with Building Transparency, where we are creating a guiding document on industry best practices for communicating project emissions and reduction strategies. MKA also contributed to the Climate Smart Wood Group's guide to wood procurement, setting the industry standards for sustainable timber construction. By standardizing carbon accounting, we can better understand industry metrics and analyze data for future carbon savings opportunities.

MKA will continue our mission to reduce embodied carbon in the built environment. Our approach involves creating reduction opportunities in our projects, providing guidance for evolving policies, and striving for meaningful industry-wide changes.





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