



EMBODIED CARBON ACTION PLAN (ECAP)

STRUCTURAL ENGINEERING INSTITUTE
SE2050 COMMITMENT





STANLEY D. LINDSEY AND ASSOCIATES, LTD.

Stanley D. Lindsey and Associates, Ltd. (SDL) is an industry leader in structural engineering. Founded in 1966 in Nashville, with additional offices in Atlanta, Charlotte, and Bangalore, our firm has built a legacy of excellence, delivering innovative structural design and consulting services across the United States and internationally. Our experienced team collaborates with architects, owners, and design-build contractors to create solutions that stand the test of time, combining scientific knowledge with practical application. In addition, our Erection Engineering division is an industry leader in working with steel erectors, fabricators, and contractors to provide creative, safe, and efficient construction solutions.

SUSTAINABLE DESIGN COMMITTEE

Stanley D. Lindsey and Associates (SDL) has made a strong commitment to sustainability by forming a dedicated Sustainable Design Committee with the goal of reducing embodied carbon in the construction industry. This committee plays a pivotal role in ensuring that SDL aligns with the long-term goals of the SE2050 initiative.



Jason Perry, P.E., S.E.
Vice President



Catherine Reichard, P.E., S.E.
Senior Structural Engineer



Carter Wertz, P.E., S.E.
Structural Engineer



Kyle Fleming, E.I.T.
Design Engineer



Paul Burns, E.I.T.
Design Engineer



EDUCATION



SDL is strengthening its commitment to sustainability through education. We are equipping employees with knowledge of embodied carbon and demonstrating how it intersects with sustainable design, using modern tools such as life cycle assessments powered by building information models. This empowers us to provide clients with environmentally responsible engineering services.

A Sustainable Design Committee has been formed to lead sustainability initiatives and promote the SE 2050 goals of reducing embodied carbon and integrating sustainability knowledge into everyday practice. They will encourage engineers to familiarize themselves with sustainable design literature.

SDL has recorded an internal presentation focused on embodied carbon. The topics covered included the environmental impact of concrete, the SE 2050 commitment, and sustainability provisions in building codes. This presentation will be made available during new employee onboarding.

Our Embodied Carbon Reduction Champion will prepare an annual update to the Board of Directors on the work of the Sustainable Design Committee regarding embodied carbon environmental impacts and action plans for reduction. This information will be disseminated to each office.

SDL is creating a sustainable design digital library accessible to all employees. This resource will include articles, research, and external presentations to help employees make informed decisions about sustainable design practices.



REPORTING

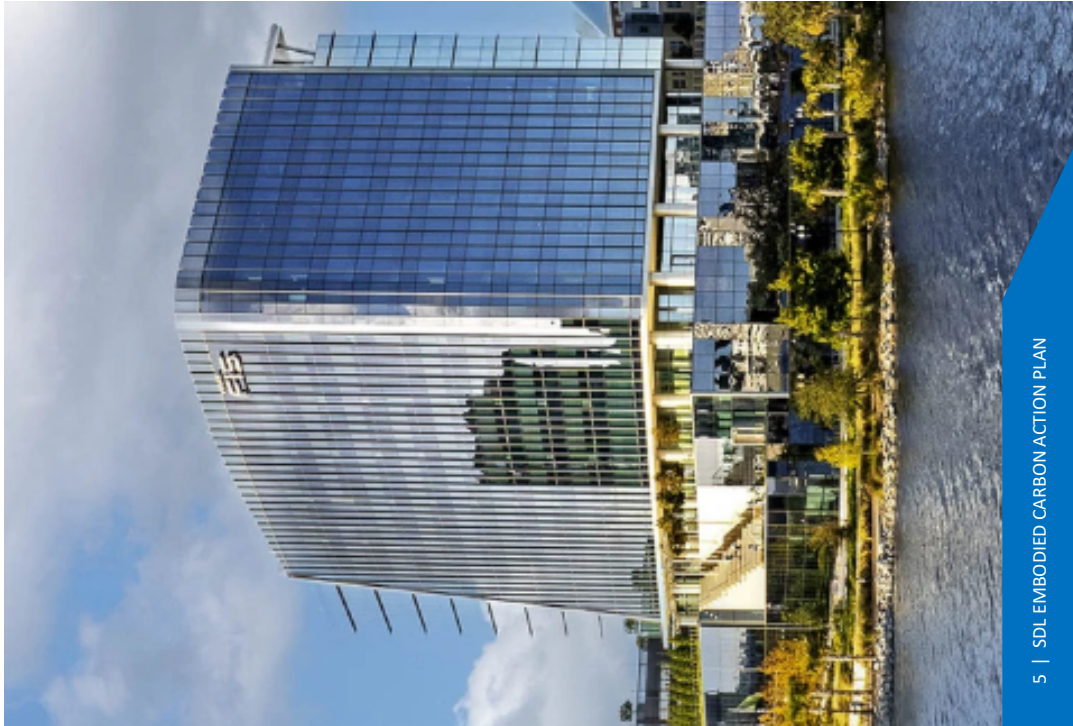


At SDL, we believe reporting provides transparency and accountability for our efforts to reduce embodied carbon in our designs. By tracking and reporting our project data, we are able to compare our progress against industry standards and other firms to reach carbon neutrality. To achieve these goals, SDL has made the following commitments.

SDL is committed to reporting 5 projects to the SE2050 database to ensure a consistent effort toward reducing embodied carbons.

The SDL Sustainable Design Committee will conduct a comparison of different Life Cycle Analysis (LCA) tools for analyzing projects from cradle to gate. SDL will then acquire a license of the preferred LCA tool for employees to use company wide.

SDL will request EPD data from contractors to guarantee we are provided with the most accurate and recent data.



REDUCTION



SDL is committed to driving both internal and external changes to our embodied carbon reduction approach: refining our general notes and specifications internally, while working closely with the design and construction teams on every project.

SDL's Sustainable Design Committee has updated our general notes and specifications to incorporate embodied carbon limits in concrete mix designs. This includes specifying the use of alternative cements and recycled aggregates, as outlined in ACI 318-19 26.4.1.1.1 and 26.4.1.2.1(c) 1 and 2, and allowing for curing times longer than 28 days to achieve design strength.

Where practical, SDL will evaluate alternative materials to further reduce embodied carbon.

SDL commits to collaborate with the general contractor and concrete supplier on each project to achieve SDL's embodied carbon goals.

SDL will collaborate with concrete suppliers on select projects to reduce embodied carbon in mix designs below an acceptable baseline, such as NRMCA regional baseline values.



ADVOCACY



At SDL, we believe it is the adoption of sustainability principles industry-wide that will lead to the most positive change when it comes to achieving net zero carbon emissions.

To promote this endeavor, SDL has committed to the following

SDL has publicly declared its membership in the SE 2050 Commitment and will share its ECAP (Embodied Carbon Action Plan) on its website and LinkedIn account.

SDL Project managers will communicate SDL's sustainability goals early in project timelines by including the SE 2050 ECAP as an attachment to the RFP

SDL will discuss and promote its goals for limited embodied carbon concrete mix designs with the general contractors.

SDL will continue to demonstrate its internal commitment to sustainability by encouraging additional employees to obtain LEED certifications