

SE 2050
EMBODIED
CARBON ACTION
PLAN

2024



WHO WE ARE

"We support the vision that all structural engineers shall understand, reduce, and ultimately eliminate embodied carbon in their projects by 2050."

- Ruben Martinez, P.E., S.E.

MARTINEZ MOORE ENGINEERS, LLC is a Texas-based multi-discipline engineering firm with offices in Austin, Houston, Dallas, and Fort Worth, and is certified by the State of Texas as a Historically Underutilized Business (HUB). We are an affiliate firm of Martinez Engineering, LLC and Walter P Moore and Associates, Inc.

Through our partnership with Walter P Moore, we bring together an unparalleled team of experienced structural and civil engineers as well as parking and building enclosure consultants. We engineer cost- and resource-efficient, forward-thinking solutions, which help support and shape our communities.



President

Ruben Martinez, P.E., S.E.

EMBODIED CARBON CHAMPIONS



Priscilla Nguyen, P.E., S.E.



Xhoja Joseph, E.I.T.



Lessons Learned: A valuable lesson we've gained is the significance of initiating embodied carbon tracking right from the project's inception. This proactive approach enables us to monitor and, ideally, reduce the project's embodied carbon footprint as the project advances.

CONTINUING EDUCATION

1) Provide a narrative of how the embodied carbon champion will engage embodied carbon reduction at each office.

We are making sure our engineers have plenty of opportunities to attend the various trainings and seminars happening throughout the year, which include demos of available material quantity tracking tools.

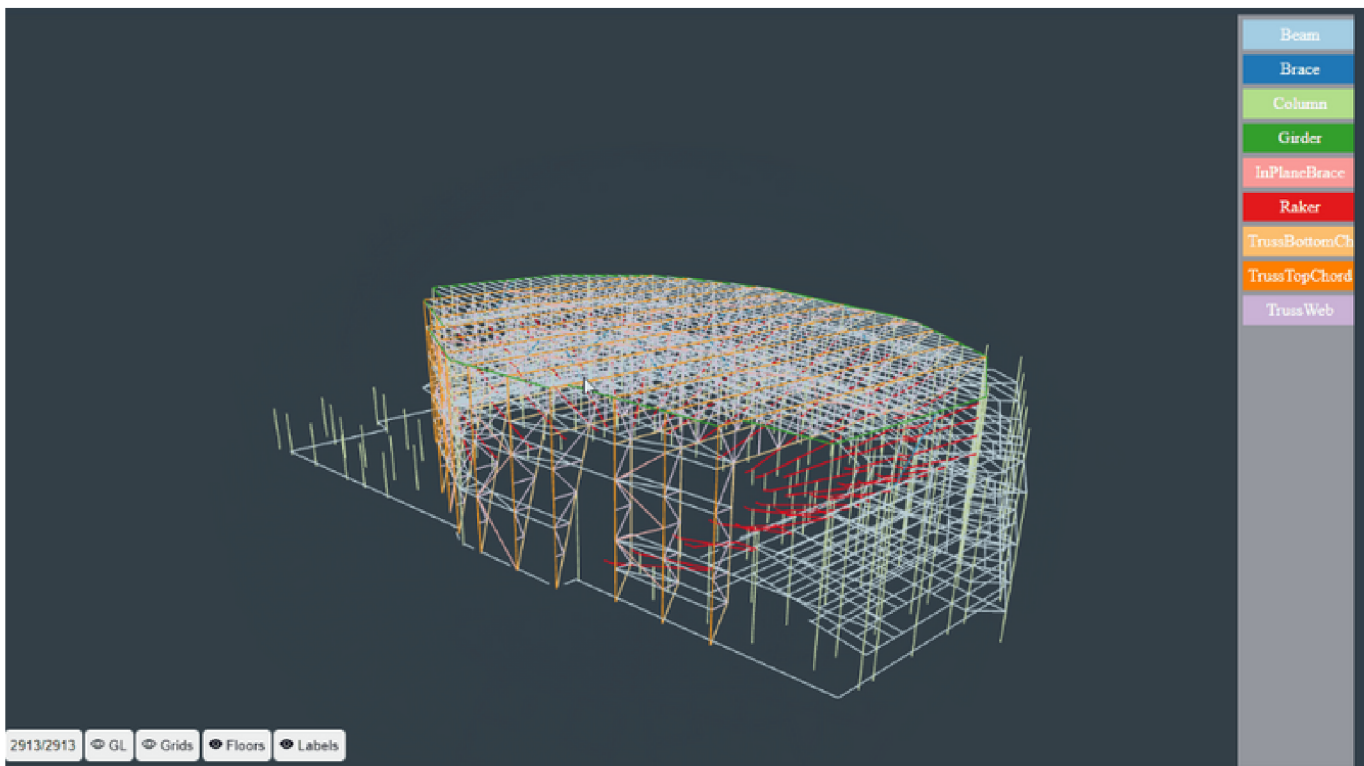
2) Present at least (1) webinar focused on embodied carbon and make a recording available to employees:

Not only are we keeping ourselves updated, but we are also sharing knowledge. Our newest embodied carbon champion, Priscilla Nguyen, recently presented "Sustainable Design & Embodied Carbon: What Structural Engineers Need to Know" to SEAOT in Houston. Priscilla also spearheaded efforts for our offices to watch NCSEA's webinar series entitled "Embodied Carbon and Sustainability Series: Creating and Implementing Change". This webinar series focused on different building materials with guidance from practicing engineers, material suppliers, and industry representatives on how to reduce embodied of each material type.

HOW WE MEASURE

3) Submit a minimum of 2 projects per US office (maximum of 5 total across firm):

Last year, we submitted five projects to the SE2050 database. In line with our ongoing commitment, we are maintaining this momentum by submitting another five projects this March.



4) Develop & implement a workflow that makes it easier to make early design decisions.



We are always on the lookout for ways to streamline our processes, and this year, we've introduced a new tool to help our engineers visualize embodied carbon results and compare them with previous projects. Plus, we are tackling the challenge of gathering rebar quantities head-on by developing a workflow that utilizes past projects and calculations to estimate the rebar quantity more efficiently.



MME & SE2050

At MME, our commitment remains steadfast in fostering ongoing communication with both project owners and contractors. Our long-term goals include working closer with contractors and material suppliers on how we can further reduce embodied carbon in the construction stage. This may be by requiring Environmental Product Declarations or taking a closer look at concrete mix designs. We have consistently showcased our dedication to sustainable design on our website, and we are actively seeking additional avenues to effectively promote our pledge.

Looking forward, our strategy entails hosting an expanded series of seminars, developing a wider range of tools, and striving for an overall enhanced proficiency in managing embodied carbon within our projects.



Martinez Moore Engineers has joined the SE2050 Commitment. Learn more [here](#).

