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Provide a brief narrative describing how your firm is promoting a firm-wide education program for embodied carbon reduction and the firm's commitment to SE 2050. *

The Silman Green Initiative is actively promoting education and action for embodied carbon reduction within Silman by engaging our staff with presentations and internally developed resources for active engagement with our clients and projects to improve/reduce the embodied carbon of our projects and track those efforts and results.

Name of Embodied Carbon Champion (Point Person) *
Ian Schmellick
Email of Embodied Carbon Champion *
schmellick@silman.com
Phone number of Embodied Carbon Champion *
6176956700 x111
LinkedIn URL
silman.com
Set a date within the first year to present the "Embodied Carbon 101" Webinar to your firm.
Incorporate this information into your orientation/on-boarding programs. *

Committed / Completed

Not Committed / Not Completed

Minimum (1) additional elective to educate your firm about embodied carbon and a narrative of its significance. *
Committed / Completed
Not Committed / Not Completed
ELECTIVES (Min. (1) required, recommended to achieve (4) per year): *
Have one representative of your firm (any employee) attend quarterly external education programs (e.g. webinar, workshop) provided by SE 2050, Carbon Leadership Forum (CLF), or other embodied carbon resources.
Share the SE 2050 library of resources with technical staff.
Share embodied carbon reduction strategies with your firm as outlined in Top 10 Carbon Reducing Actions for Structural Engineers document produced by SE 2050.
Nominate a minimum of (1) employee per office to participate in a CLF Community Hub.
Provide narrative outlining plans for minimum (2) firm-wide presentations per year on the topic of embodied carbon
Present the document, "How to measure and report embodied carbon" to all technical staff.
Attend a presentation or demo of an LCA-based tool used to calculate embodied carbon.
Initiate an embodied carbon interest group within your firm and provide a narrative of their goals.
Provide a narrative of how the Embodied Carbon Reduction Champion will engage embodied carbon reduction at each office. (intended for multi-office firms)
Other actions you feel appropriate and a narrative for why.
Elective Narrative (Optional):

Quality data is essential to making informed decisions and setting important benchmarks and the development of appropriate embodied carbon reduction targets. The SE 2050 database is a central component to building a successful Commitment Program and reaching our collective embodied carbon reduction goals by 2050.

Submit an annual minimum of (2) projects per U.S structural office or (5) total projects for the firm to the SE 2050 Database. *
Completed
Committed and on track
Need help reaching this target
Not Completed
Number of Projects Reported Last Year (zero in first year) 0
Number of Offices Reporting Last Year (zero in first year) 0
Provide a narrative on how your firm plans to measure, track, and report embodied carbon

Currently we have an excel based tool we manually enter project takeoffs using industry standard EPDs. We are also looking at EC3 and other tools for reporting. We are developing our own internal tool plugin for

Revit to simplify tracking and reporting for our projects.

bescribe the internal training for embodied carbon measurement you provided or will provide. *
We are planning internal presentations using both provided resources as well as internally developed resources to share with and educate our staff on a bi-monthly basis.
resources to share with and educate our starr on a bi monthly basis.
ELECTIVES (Not required, recommended to achieve (1) per year):
Submit all projects to the SE 2050 Database
Meet your target average embodied carbon reduction from the previous year.
Report a greater percentage of projects than the preceding year.
For a project submitted to the database, ask the Architect or Owner if the project has a carbon budget or if there are established project sustainability goals at the project kickoff meeting.
Other actions you feel appropriate and a narrative for why.
Elective Narrative (Optional):
Embodied Carbon Reduction Strategies

Embodied carbon reduction of structural materials is the ultimate goal of the SE 2050 program. As a starting point, you will have access to the SE 2050 project database and Program resources to identify and set strategies. This section also serves to share lessons learned and incite innovation. Demonstrate leadership by not only applying, but developing best practices and actively collaborating with the design community. This is our profession's opportunity to take action and make an impact.

Set an EC reduction goal for the coming year and an implementation narrative (Qualitative goals focused on education are appropriate for the first year) *

For the first year, we are actively taking steps to engage with our clients on our projects with these goals and tracking projects to see where we currently are as a base line. From there we will develop our goals for targeted further reductions.

For second year's ECAP and beyond, provide a narrative about what you have learned about embodied carbon reduction in the past year. Describe successes and misses to help the program improve.

NA

Minimum (1) additional elective to educate your firm about embodied carbon and a narrative of its significance. *

- Committed / Completed
- Not Committed / Not Completed

ELECTIVES (Min. (1) required, recommended to achieve (4) per year): *
Incorporate data visualization into your ECAP. How are you looking at data to make informed design decisions and communicate design options to your clients?
Provide a project case study in your ECAP that captures a reduction of embodied carbon or some lessons learned.
Create a project-specific embodied carbon reduction plan.
Complete a system embodied carbon design comparison study during the project concept phase.
Participate in a project LEED design charrette and speak to potential design considerations impacting embodied carbon.
Calculate your firm average benchmark for embodied carbon.
Update your specifications and incorporate embodied carbon performance. Include embodied carbon in your submittal review requirements.
Collaborate with your concrete supplier to reduce embodied carbon in a mix design.
Work with a contractor during material procurement to meet an embodied carbon performance criteria on at least (1) project.
Have an Environmental Product Declaration (EPD) created as a result of a project.
Incorporate biogenic materials on at least one project annually.
Provide a narrative of how circular economy has been used on your projects. Incorporate re-use or design for deconstruction into at least one project.
Quantify construction waste reduction on a project and the impact to embodied carbon.
Integrate embodied carbon mitigation strategies in your General Notes.
Other actions you feel appropriate and a narrative for why.
Elective Narrative (Optional):

True change can only come with industry-wide adoption. This section recognizes that our impact reaches beyond any one firm. Plan opportunities to share your experience and knowledge within your firm, with your design community, and beyond. Host a webinar or lunch 'n learn, attend a conference, connect with the SEI Sustainability Committee, or reach out to manufacturers and policy-makers.

Provide a narrative about how you plan to share knowledge and data to accelerate adoption of embodied carbon reduction. *

We have developed an internal EC tracking/estimating tool that we are incorporating into all our concept and SD level narratives/discussions to promote structural options with the best EC results to our clients and owners. We are also looking to actively participate in conferences this coming year.

Describe the value of SE 2050 to clients. How can we collaborate to drive adoption? At your option, attach any associated marketing materials. *

As engineers, we are constantly striving to be efficient in our use of time, energy, and most importantly, materials. What better way to provide the best engineering we can than to select those structural systems and material components that are the most efficient with their embodied carbon. Educating our owners/clients on the direct links between global warming potential and embodied carbon in our buildings and the long-term costs of these decisions they are making now, is critical to expanded implementation of our goals as wholistic owner-driven project goals.

Optional: Upload any documents you would like to exhibit.

Declare your firm as a member of the SE 2050 commitment on boilerplate proposal language.

Committed / Completed

Not Committed / Not Completed

ELECTIVES (Not required, recommended to achieve (2) per year):
Share your commitment to SE 2050 on your company website
Give an external presentation on embodied carbon that demonstrates a project success or lessons learned (Tip: Get connected at a CLF local hub near you!)
Discuss with the Owner / Client the option of requiring that some of the structural materials come with facility-specific or product-specific EPDs
Share education opportunities with clients
Provide a narrative of how you have encouraged industry and policy change incentivizing availability of low-carbon and carbon sequestration materials
Start an embodied carbon community of practice or mentorship program in your office
Mentor a firm new to the embodied carbon space
Other action you feel appropriate and a narrative for why.
Elective Narrative (Optional):
Program Feedback
Please add any comments that you wish to share publicly. The Program Leadership Group is committed to transparently improving SE 2050.
Comments: We're looking forward to completing our first year of actively tracking embodied carbon on our projects while working to implement improvements. It will be great to have physical data on a baseline and setting actual targets for improvement versus idealized goal statements

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