SE 2050 ECAP Submission Form

Email * jgrymek@fbra.com
Firm Name *
Foley Buhl Roberts & Associates
Education
The first step to increased engagement within your firm is through education. We all should strive to understand the impacts of our design decisions and their effects on our environment.
Distribute firm-wide announcement of your firm's pledge to join the SE 2050 Commitment. *
Completed
O Not Completed
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.
FBRA encourages all engineers to learn about embodied carbon reduction. We have modified our concrete specifications to encourage low-carbon mixes on projects. We have also started doing a weekly Wednesday lunch talk

where we discuss technical matters, details, and lessons learned from projects. We plan to start incorporating more carbon reduction strategies in these talks so that all engineers and BIM modelers are knowledgeable on the topic and

the SE2050 mission.

Name of Embodied Carbon Champion (Point Person) *	
Jennifer Grymek	
Email of Embodied Carbon Champion *	
jgrymek@fbra.com	
Phone number of Embodied Carbon Champion *	
207-200-2502	
LinkedIn URL	
https://www.linkedin.com/company/foley-buhl-roberts-&-associates/	
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	

ELE	ECTIVES (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):			
Rep	porting		

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)		
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 data. * The first LCA-based tool that our firm tried for a project was Tally. We used Tally in Schematic Design of a project per the client's request, in order to compare various framing schemes using different materials. More recently we have used the SE2050 ECOM tool for estimating the carbon impact of some of our projects. We plan to teach all engineers in our office how to use the ECOM program, so they can understand which structural components contribute most to the overall embodied carbon, and then they can make better informed decisions when working on a project.		
Describe the internal training for embodied carbon measurement you provided or will provide. * We plan to educate all of our engineers and BIM modelers on using the ECOM program in conjunction with the initial Revit model (or calculated) quantities (and then with Cost Estimate quantities), in order to run an embodied carbon analysis. One idea is to create a document that outlines the steps required / quantities needed to run ECOM.		

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 coming year, our goal is for engineers to learn how to use the ECOM tool, using a few current projects. In the future, we plan to have each engineer run an embodied carbon analysis on current projects, at least once during each major project phase (SD, DD, CD). Then we can review strategies for lowering the embodied carbon for each project.
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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.

	imum (1) additional elective to educate your firm about embodied carbon and a narrative of its * ificance.
•	Committed / Completed
0	Not Committed / Not Completed
ELE	ECTIVES (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):	
Advocacy	
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 plan to share what we have learned on recent projects in terms of carbon reduction with other clients moving forward. We will also educate clients on our new performance based concrete spec.	
Describe the value of SE 2050 to clients. How can we collaborate to drive adoption? At your option, attach * any associated marketing materials.	
Most of our clients are already thinking about ways to reduce carbon in their buildings, so we think they will see the value of SE2050.	
For our clients that are not focusing on carbon reduction, we plan to discuss the impacts and benefits with them.	
Optional: Upload any documents you would like to exhibit. Add file	

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:

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