

# SE 2050 ECAP Submission Form

Email \*

jr@onehermitage.com

Firm Name \*

One Hermitage

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

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. \*

At 1—H, we are committed to promoting a firm-wide education program for embodied carbon reduction and our commitment to SE 2050. Our approach is to provide ongoing education and training to all our staff on the latest technologies, methodologies, and tools for reducing embodied carbon in our projects.

We have established a sustainability position that works closely with project teams to develop and implement embodied carbon reduction strategies. This point person provides ongoing education and training to staff, ensuring that they are up-to-date with the latest developments in the field.

We also prioritize collaboration with other industry professionals and organizations to exchange knowledge and best practices for embodied carbon reduction. This includes participating in industry conferences, seminars, and workshops, as well as engaging with industry organizations such as the Structural Engineers 2050 Commitment Program.

Our firm-wide education program for embodied carbon reduction and commitment to SE 2050 is an integral part of our culture at 1—H. We recognize that reducing embodied carbon is critical for mitigating the impact of the built environment on the climate, and we are committed to playing our part in achieving the goals of SE 2050.

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Name of Embodied Carbon Champion (Point Person) \*

Jais Kwon

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Email of Embodied Carbon Champion \*

jaiskwon@gmail.com

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Phone number of Embodied Carbon Champion \*

2154800999

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LinkedIn URL

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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):**

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**Reporting**

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 data. \*

At 1–H, we have established a process for measuring, tracking, and reporting embodied carbon data for our projects. This process begins with an initial assessment of a project's embodied carbon footprint using tools such as the EC3 tool. We then identify strategies to reduce embodied carbon, such as specifying low-carbon materials, optimizing the structural design, and minimizing construction waste. Throughout the project's life cycle, we use Building Information Modeling (BIM) software to track and monitor embodied carbon data, including materials used, transportation, and construction processes. We also engage with our suppliers and contractors to ensure that they provide accurate information on the carbon footprint of their products and services. Once the project is complete, we provide our clients with a comprehensive report that includes embodied carbon data and recommendations for further reducing carbon emissions.

By measuring, tracking, and reporting embodied carbon data for all our projects, we are committed to playing our part in achieving the goals of SE 2050 and creating a more sustainable future for all. Our process enables us to identify strategies to reduce embodied carbon, track progress, and provide our clients with transparent and accountable reporting. We recognize that reducing embodied carbon is critical for mitigating the impact of the built environment on the climate, and we are committed to using our expertise to achieve this goal. At 1–H, we believe that sustainability is an integral part of our culture, and we are dedicated to promoting sustainable practices throughout the industry.

Describe the internal training for embodied carbon measurement you provided or will provide. \*

At 1–H, we believe that ongoing education and training are critical for ensuring that all our staff have the knowledge and skills required to effectively measure and reduce embodied carbon in our projects. To this end, we are developing an internal training program for embodied carbon measurement that will be available to all our staff.

Our training program will include a combination of online courses, workshops, and seminars, covering topics such as the carbon footprint of materials, carbon calculation methodologies, and best practices for reducing embodied carbon. We also intend to provide hands-on training on the use of tools such as the EC3 tool and BIM software to measure and track embodied carbon data.

Our sustainability point person will lead the training program, and work closely with project teams to ensure that all staff members have the opportunity to participate. We also encourage our staff to attend external training and education programs related to embodied carbon measurement and reduction.

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):

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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) \*

Our goal for the coming year is to ensure that all our staff understands the impact of embodied carbon on the environment and how to identify opportunities for reducing embodied carbon in our projects. We will achieve this goal by providing regular training and education sessions on embodied carbon reduction and sustainability, including seminars and workshops, online training modules, and presentations by experts in the field. We will also engage with our staff through internal communications and encourage them to share their own ideas and best practices for reducing embodied carbon in their work.

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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.

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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):

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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 will participate in industry events and conferences related to sustainability and embodied carbon reduction, where we will share our experiences and best practices with peers and stakeholders.

In addition, we will collaborate with other firms and organizations to share our knowledge and data and promote a more sustainable built environment. We will participate in collaborative initiatives such as the SE 2050 Commitment Program and engage with our suppliers and contractors to encourage them to adopt sustainable practices.

Internally, we will establish knowledge-sharing channels where our staff can share their experiences and best practices related to embodied carbon reduction. We will also engage with our clients to share our findings and educate them on the importance of embodied carbon reduction.

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

The SE 2050 Commitment is a valuable tool for clients who are committed to sustainable practices in the built environment. By partnering with 1—H, clients can be assured that we are committed to reducing embodied carbon in our projects and supporting the SE 2050 principles.

Clients who work with 1—H can expect to receive the following benefits:

1. Reduced carbon footprint: Our commitment to SE 2050 ensures that we take a holistic approach to reducing embodied carbon in our projects, resulting in a reduced carbon footprint for the built environment.
2. Innovative and sustainable solutions: We leverage our expertise in optimal structural design, computation, fabrication, mathematics, and new manufacturing approaches to provide innovative and sustainable solutions that meet our clients' needs while reducing embodied carbon.

To drive adoption of SE 2050 and embodied carbon reduction, we collaborate with our clients through regular communication, education, and collaboration. We engage with our clients to understand their sustainability goals and help them achieve these goals by providing sustainable design solutions and embodied carbon reduction strategies.

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):

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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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