

## 2021 EMBODIED CARBON ACTION PLAN

Adaptive Use Project: Urth Caffe  
Old Towne Orange, CA

Grimm + Chen Structural Engineering  
17500 Redhill Ave., Suite 240  
Irvine, CA 92614





Adaptive Use Project: Porsche Wunderground Museum  
Santa Clarita, CA

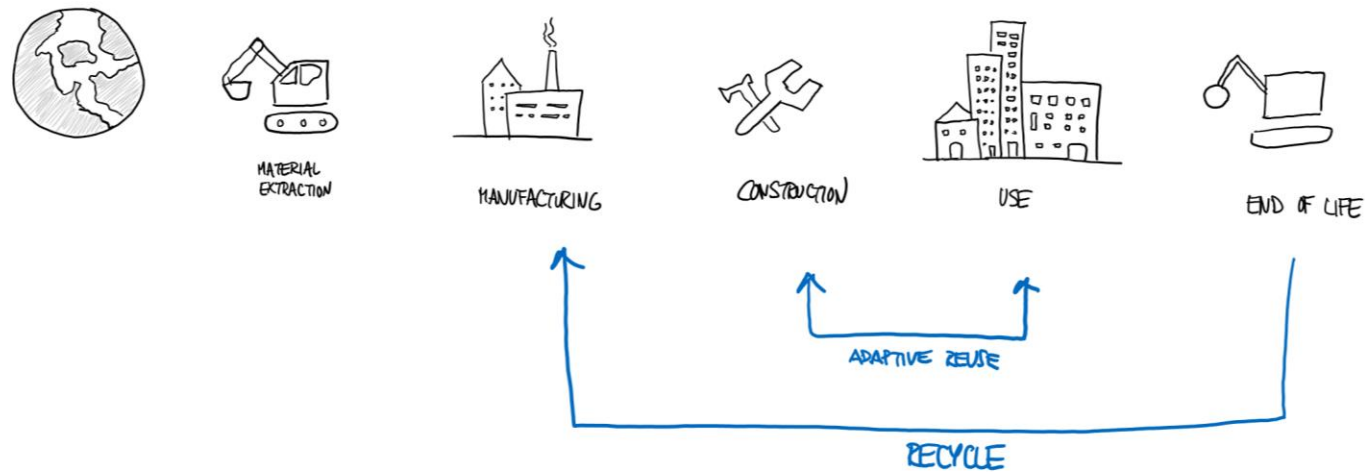
## TOC

Highlights	3
Education	4
Reporting	5
Strategy	6
Advocacy	7

# HIGHLIGHTS

With the latest IPCC report indicating the potential catastrophic consequences if average temperature warms up more than 1.5°C (2.7°F), the world is looking at this problem with heightened urgency. As citizen of Earth, Grimm + Chen is actively seeking a path to employ our expertise towards a solution through structural engineering. As a major player in the construction industry, our SE2050 commitment serves to provide resources and a community which can channel our strengths towards solving the global warming crisis.

Grimm + Chen 's internal sustainability task force engages the SE2050 community to better understand our role and responsibilities as a structural engineering firm, with the 2021 Embodied Carbon Action Plan (ECAP) serving as the first initiative towards addressing this issue.



# EDUCATION



REQUISITE

## Firm-wide Announcement of SE2050 Commitment

Our team is excited to be part of the solution! We have announced our SE2050 commitment firm-wide.



REQUISITE

## Firm-wide Education Program

We are setting up a firm-wide education program providing resources and open-door access to discussion on sustainability and potential carbon reduction in our projects.



REQUISITE

## Embodied Carbon Reduction Champion: Sitanan Tanyasakulkit, S.E.

Sitanan is leading our sustainability task force and as the Embodied Carbon Reduction Champion.



ELECTIVE

## Embodied Carbon 101 Presentation

Embodied Carbon 101 webinar will be available to all team members, with the aim to raise awareness and start serious conversation about structural sustainability. The webinar will also include available and future potential construction materials based paths of reducing our carbon footprint.



ELECTIVE

Share with team: SE2050 Library of Resources  
Share with team: Embodied Carbon Reduction Strategies  
Share with team: “How to Calculate Embodied Carbon”

Our team will have access to all available SE2050 resources shared in our presentation, including a cheat-sheet for easy navigation of each topic.

# REPORTING



## Track + Report Embodied Carbon Data

Year 1 goal: Understand all available tools and focus on learning how to integrate the tools into our current practice.



## Internal Training for Embodied Carbon Measurement

Year 1 goal: Train at least one team member to be an expert in LCA



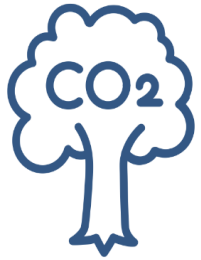
## Contribute 2-5 Projects data (per office) to SE2050 Database

Year 1 goal: Add at least 2 projects to the central repository for SE2050 committed firms.



Adaptive Use Project: Hauser & Wirth Art Gallery  
Los Angeles, CA

# EMBODIED CARBON REDUCTION STRATEGY



REQUISITE  
2021  
EC Reduction  
Goal

Year 1:

- Focus on learning about LCA and available tools
- Develop at least one team member into LCA expert
- Grow internal sustainability task force.



ELECTIVE  
Integrate  
EC mitigation strategies  
into General Notes

Year 1:

- Develop EC mitigation strategies
- Implement EC mitigation strategies into suitable projects
- Integrate draft notes into general notes for the future



ELECTIVE  
Provide project case study  
in ECAP sharing  
EC lesson learned

Year 1:

- Implement internal database
- Create project case studies
- Make database accessible firmwide



Adaptive Use Project: Blue Bottle Coffee  
Fairfax, Los Angeles, CA

# ADVOCACY

Encourage clients towards more adaptive reuse of existing buildings and away from demolition and new construction. We continue to provide our clients with EC-first solutions, and share our increasing LCA expertise through marketing and social channels.



Share  
Knowledge  
& Data



SE2050  
Value  
To Client

Create a virtuous cycle, by promoting our SE2050 commitment to clients, we can grow our internal database, which in turn allows us to provide better measurable information on the value of our commitment to future clients.

Integrate SE2050 commitment focused language onto all proposals after increased LCA expertise through internal data collection and development of EC strategies.



Declare  
SE2050  
Commitment  
on Proposal

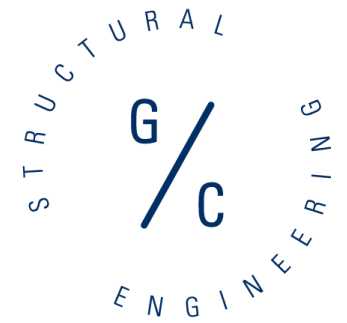


Publish on  
gc-se.com

Grimm + Chen is integrating our SE2050 commitment, monthly, and quarterly posts on progress toward our SE2050 goals, as a cornerstone value on our public facing website.



Adaptive Use Project: Christie Auction House  
Los Angeles, CA



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