EMBODIED CARBON ACTION PLAN
OUR JOURNEY

WHY WE JOINED SE2050 MOVEMENT?

Construction industry is undeniably one of the major contributions to global warming crisis. As a major player in this industry, we are actively seeking a path to employ our expertise towards a solution through structural engineering. We joined the movement to learn from peers in the industry, and in the same time, to channel our strengths towards solving the global warming crisis.

HOW HAS SE2050 CHANGED US?

We are (still) fairly new to structural sustainability. Prior to joining SE2050, we have no resource nor team member focusing on the topic. Going from “zero-to-one” has been challenging for us, but we have been learning so much in the process. We are aiming to slowly integrate the EC reduction strategies into our current practices by one step at a time.
LESSONS LEARNED

2021 STAT

2021 ECAP STATUS

☑ EDUCATION: 100% COMPLETE.
☑ REPORTING: 83% COMPLETE. (NEED TO COMPLETE 1 MORE LCA PROJECT)
☑ STRATEGY: 67% COMPLETE. (NEED TO INTEGRATE EC MITIGATION INTO GENERAL NOTES)
☑ ADVOCACY: 50% COMPLETE. (NEED TO DECLARE SE2050 COMMITMENT ON PROPOSAL & WEBSITE)

STAT

ECAP COMPLETED: 2 (INCLUDING THIS REPORT)
LCA COMPLETED: +1 (COMPLETED OUR VERY FIRST LCA)
SUSTAINABILITY RESOURCES: +1 (STARTED FIRM-WIDE SUSTAINABILITY DIGITAL LIBRARY)
SPECIFICATION CHANGES: NONE (IN DEVELOPMENT)
SUSTAINABILITY-RELATED PROJECTS: NONE (EXPECT TO START FIRST PROJECT BY EARLY 2023)
EDUCATION

- Distribute ECAP firmwide
- Provide (1) EC webinar
- Plan for team member to attend quarterly external education programs
- Initiate an embodied carbon interest group
REPORT

CONTRIBUTE 2-4 PROJECTS TO SE2050 DATABASE

2 PROJECTS PER OFFICE
4 PROJECTS TOTAL

TARGET MORE PROJECTS THAN PREVIOUS YEAR

1 PROJECT SUBMITTED IN 2021
Create a project-specific ec reduction plan

Targeted new project locating in Marin County, CA

Collaborate w/ concrete supplier to reduce embodied carbon in a mix design

Integrate embodied carbon mitigation strategies into general notes
ADVOCACY

- Describe the value of SE 2050 to clients thru marketing materials
- Declare SE 2050 commitment w/ boilerplate proposal language
- Declare SE 2050 commitment on your company website
GRIMM + CHEN
STRUCTURAL ENGINEERING

EMBODIED CARBON CHAMPION
SITANAN TANYASULKIT, S.E.

SE2050 COMMITMENT
SINCE APR 2021