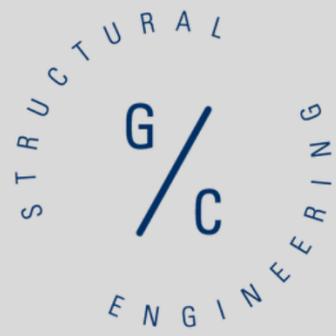


ADAPTIVE REUSE: SWINERTON OC OFFICE  
SANTA ANA, CA



# 2022 EMBODIED CARBON ACTION PLAN



**GRIMM+CHEN**  
STRUCTURAL ENGINEERING



IRVINE | SAN DIEGO



# OUR JOURNEY

## WHY WE JOINED SE2050 MOVEMENT?

- ★ Construction industry is undeniably one of the major contribution 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.

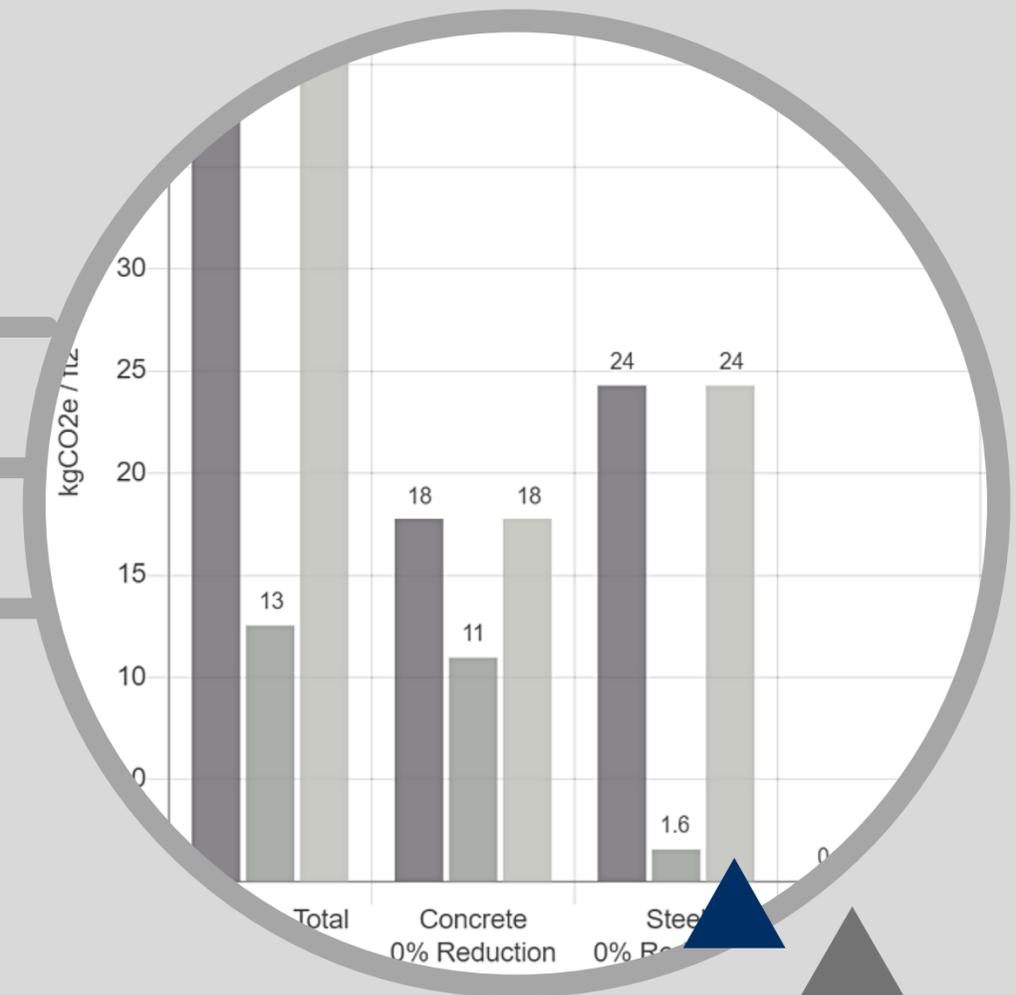


# LESSONS LEARNED

## 2021 STAT

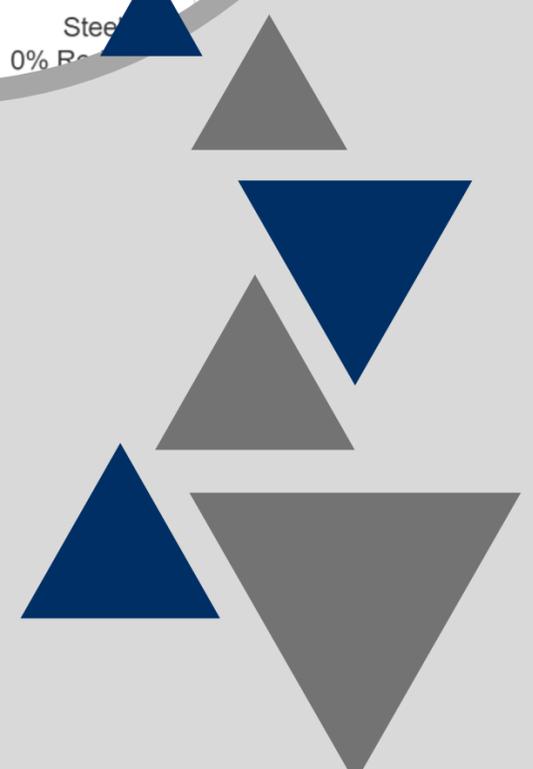
### 2021 ECAP STATUS

- ✍ 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



BAKER CREATIVE OFFICE  
COSTA MESA, CA



DISTRIBUTE ECAP FIRMWIDE



PROVIDE (1) EC WEBINAR



PLAN FOR TEAM MEMBER TO ATTEND QUARTERLY  
EXTERNAL EDUCATION PROGRAMS



INITIATE AN EMBODIED CARBON INTEREST GROUP

# REPORT



ASTON MARTIN DEALERSHIP  
PALM SPRINGS, CA



**CONTRIBUTE 2-4 PROJECTS TO SE2050 DATABASE**

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2 PROJECTS PER OFFICE

4 PROJECTS TOTAL



**TARGET MORE PROJECTS THAN PREVIOUS YEAR**

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1 PROJECT SUBMITTED IN 2021

# REDUCTION STRATEGY



CINÉPOLIS GLADEPARK  
EULESS, TX



## 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



AMAZON FRESH  
HUNTINGTON BEACH, CA



**DESCRIBE THE VALUE OF SE 2050 TO CLIENTS**  
THRU MARKETING MATERIALS

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**DECLARE SE 2050 COMMITMENT**  
W/ BOILERPLATE PROPOSAL LANGUAGE

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**DECLARE SE 2050 COMMITMENT**  
ON YOUR COMPANY WEBSITE

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CENTERPOINT CHURCH  
MURRIETA, CA

**GRIMM+CHEN**  
STRUCTURAL ENGINEERING

**EMBODIED CARBON CHAMPION**  
SITANAN TANYASAKULKIT, S.E.

**SE2050 COMMITMENT**  
SINCE APR 2021

