



REAVELEY
Engineers

Embodied Carbon Action Plan

08.31.22

Introduction

Reaveley Engineers is submitting an ECAP representing our initial 1st-year efforts to meet the goals of SE 2050. As such, our goals will be focused on education and preparation for more specific action in future years. As part of the 1st-year ECAP the following are the **commitment letter** and **internal announcement** that were formed when we joined SE 2050.

Reaveley Engineers is excited for the prospect of improving projects and meeting the needs of our clients and world through embodied carbon reduction.



Introduction – Commitment Letter

Reaveley Engineers submitted our letter of commitment to the SE 2050 program on 2/15/2022.



LETTER OF COMMITMENT TO THE SE 2050 PROGRAM

DATE: 2/16/2022

TO: Laura Champion, Director, Structural Engineering Institute

FROM: Reaveley Engineers + Associates

SUBJECT: Letter of Commitment to the SE 2050 Program

Dear Laura:

Reaveley Engineers + Associates, a 50-person firm located in Salt Lake City, UT, is hereby signing on to the SE 2050 Commitment Program. We support the vision that all structural engineers shall understand, reduce, and ultimately eliminate embodied carbon in their projects by 2050.

Reaveley is committed to being the strength behind our clients' vision. We see a focus on reducing Embodied Carbon as an additional way to fulfill that role in the future. As proven leaders of structural engineering in Utah, we are uniquely situated to drive forward this important initiative in the region for years to come.

We therefore commit Reaveley Engineers + Associates to take the following steps which are part of the SE 2050 Commitment Program:

- Within six months and annually henceforth, we commit to reporting an Embodied Carbon Action Plan (ECAP) and permit the ECAP document or form be made public on the SE 2050 website.
- Within one year and annually henceforth, we commit to submit data to the SE 2050 project database in a collaborative effort to understand embodied carbon in structural engineering projects and to set attainable targets for future projects.

We look forward to joining this coalition and industry effort to achieve the goals of the SE 2050 Program.

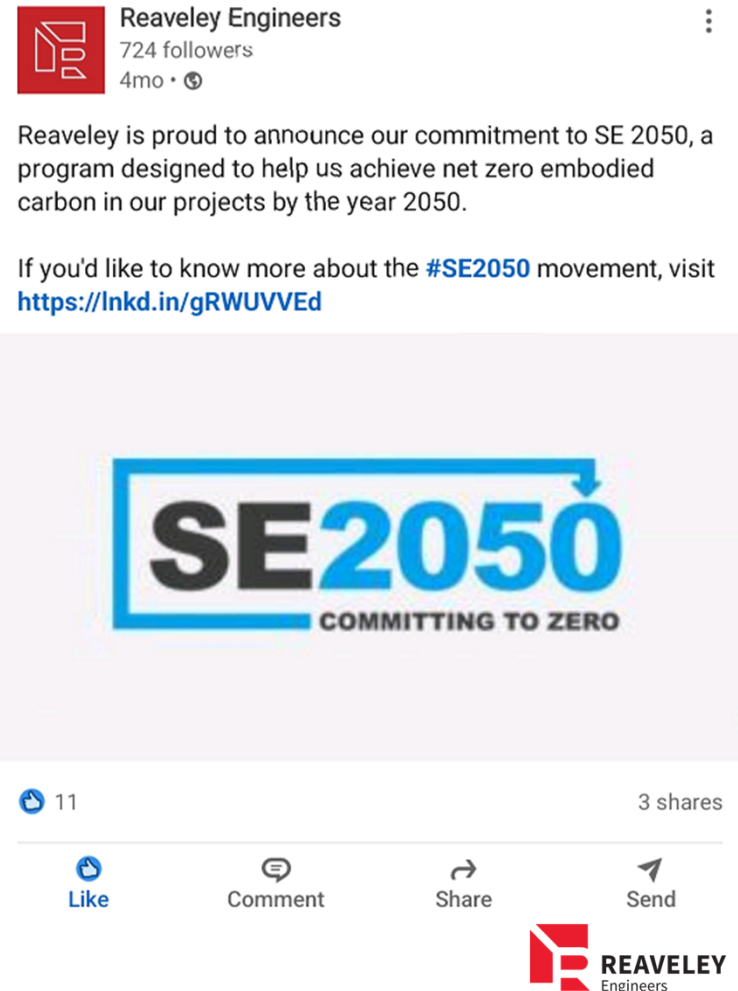
Sincerely,

A handwritten signature in black ink, appearing to read 'Dorian Adams', written over a horizontal line.

Dorian Adams, SE, LEED AP
President

Introduction – Internal Announcement

Reaveley Engineers posted our commitment to SE 2050 on our social media platforms on 2/17/2022.



Education Plan

Embodied Carbon 101 Presentation –

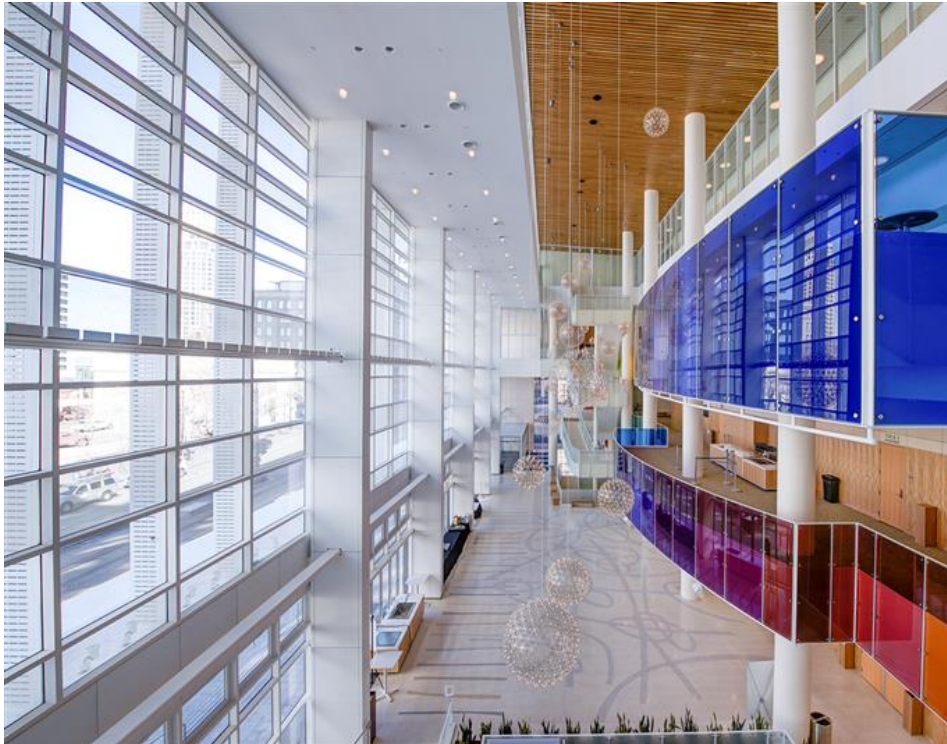
Provide webinar opportunity for Embodied Carbon 101 seminar or equivalent.

Wiki Embodied Carbon Resource Center

– Create space on internal company intranet for embodied carbon resources and tools



Knowledge Sharing Initiative



Architect Meetings – Meet with sustainability experts at (3) local architecture firms to discuss the potential benefit of embodied carbon tracking and reduction on their projects and how to implement this in the future

Social Media Posts – Provide intermittent social-media posts and connect with architecture and building clients to begin distributing information related to embodied carbon efforts

Reduction Strategy

Project Data Tracking – Focus on gathering benchmark during 1st year

Low-Hanging Reduction Strategy List –
Gather list of low-hanging opportunities for embodied carbon reduction in preparation for potential implementation next year



Reporting Plan



Life Cycle Accounting Method – Revit Model Quantities

Software - Beacon

Product or Region Specific EPD Access – Not currently, intend to gather resources over first year

LCA Scope – A1 - A3 (unless project needs require otherwise)

Project Stages for Quantity Calculations – As-built quantities (1st year), 2-stage (future years)

Elective Documentation

Education: (2) required, (4) recommended

- Distribute ECAP within your firm upon publishing
- Make (1) webinar focused on embodied carbon available to employees
- Have one representative of your firm attend quarterly SE2050 workshops online
- Share the SE 2050 library of resources

Reporting: (1) required, (2) recommended

- Submit a minimum of (2) projects per U.S. office to the SE 2050 database

Reduction: (1) required, (4) recommended

- Project case study sharing embodied carbon reduction successes and lessons learned

Advocacy: (2) required, (4) recommended

- Describe the value of SE2050 to clients
- Declare your firm as a member of SE 2050 Commitment with boilerplate proposal language
- Share your commitment to SE 2050 on your company website

THANK YOU