



EMBODIED CARBON ACTION PLAN 2026



Bank of Hawaii
Kahala Mall

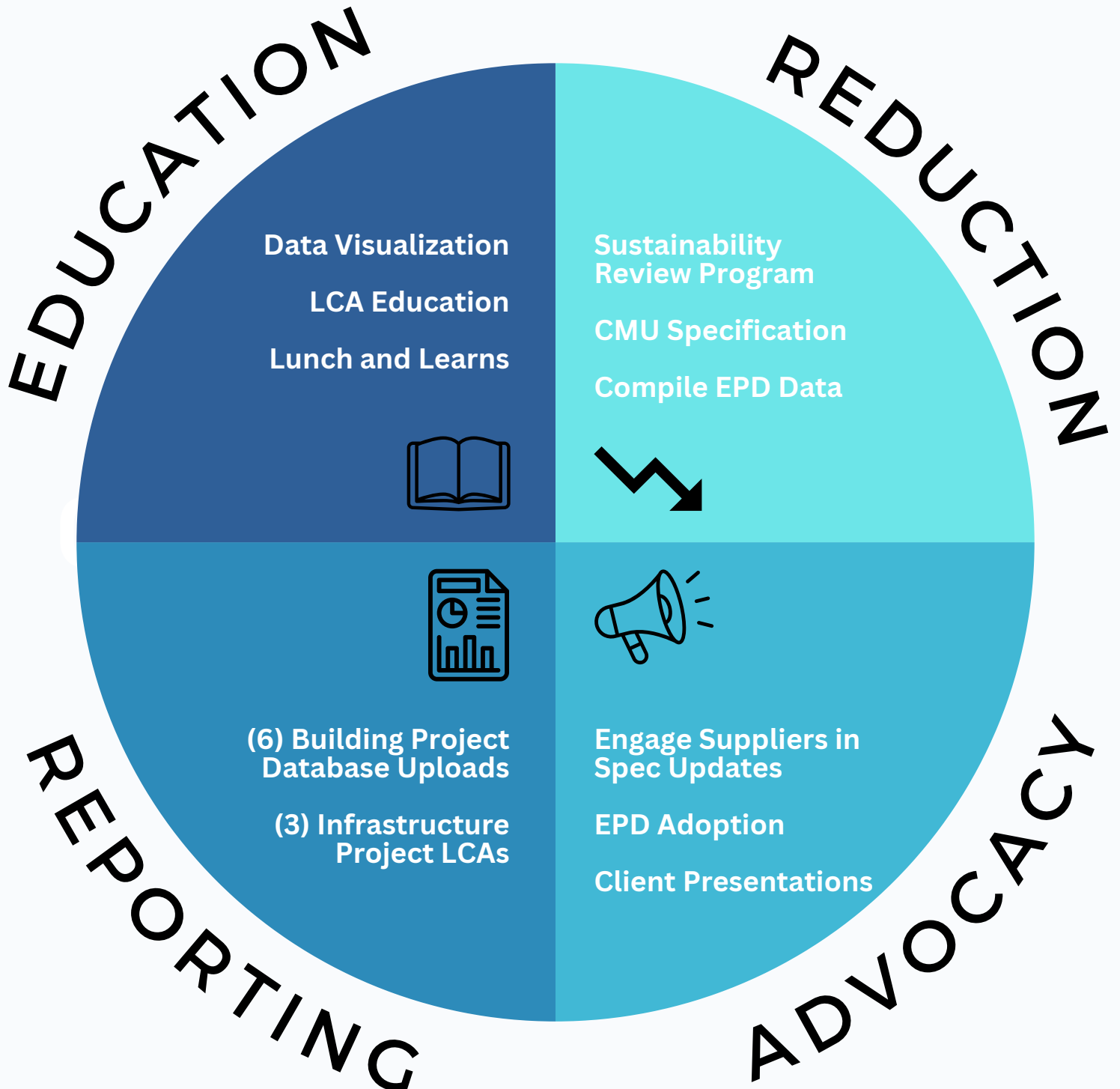


STRUCTURAL
& FORENSIC
ENGINEERS



STRUCTURAL
& FORENSIC
ENGINEERS

ACTION SUMMARY





Central Pacific Bank, Kahului, HI

DATA VISUALIZATION

Present updated facts and figures related to SE2050 database and KAI uploaded projects

LCA EDUCATION

Update specification standards as needed based on discussion with CMU, Steel, and Concrete suppliers.

LUNCH AND LEARN

Host (1) in office lunch and learn summarizing year in review Host (1) in office technical session for engineers

2025 YEAR IN REVIEW

RECORDED TUTORIAL

Tutorial of using Tally to perform an LCA was recorded and archived in company SE 2050 resources

LCA EDUCATION

Presented in-house training session for Tally, but was not recorded

FIRM WIDE PRESENTATIONS

Hosted (1) In-office presentations



Opaekaa Bridge Replacement, Kauai



Wo Fat - Adaptive Reuse, Honolulu HI

SUSTAINABILITY REVIEW PROGRAM

Review LCA uploads to SE 2050 and compare results with ongoing projects.

CMU SPECIFICATIONS

Update specifications and general notes to as recommended or needed by local suppliers.

COMPILE EPD DATA

Gather EPD data from representative material producers in the island for concrete, steel, and CFS

2025 YEAR IN REVIEW

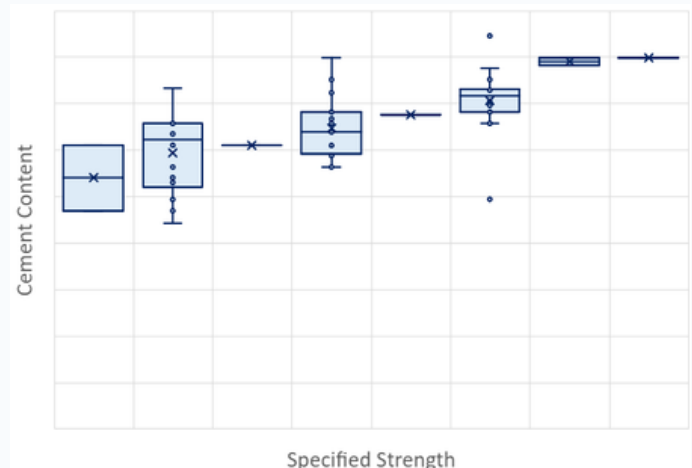
SUSTAINABILITY REVIEW PROGRAM

Review program was not implemented, and will resume when more manpower is available to perform reviews

SPECIFICATIONS

CMU specifications were not worked on, and will be worked on further when more manpower is available.

Partially complete; to be modified in 2026



KAI Hawaii Concrete Database



Kaimuki Gateway - office building, HI

ENGAGE SUPPLIERS IN SPEC UPDATES

Meet with concrete mix designers and CMU supplier to discuss methods of improving mix designs and reducing cement content.

EPD ADOPTION

In our specifications for primary structural materials, require EPDs or a GWP calculation based on parameters we provide.

2025 YEAR IN REVIEW

ENGAGE SUPPLIERS IN SPEC UPDATES

Hosted presentation in office by HC&D to discuss producer recommendations for specifications

CLIENT PRESENTATIONS

Presented LCA software tutorial to client about embodied carbon reduction methods.

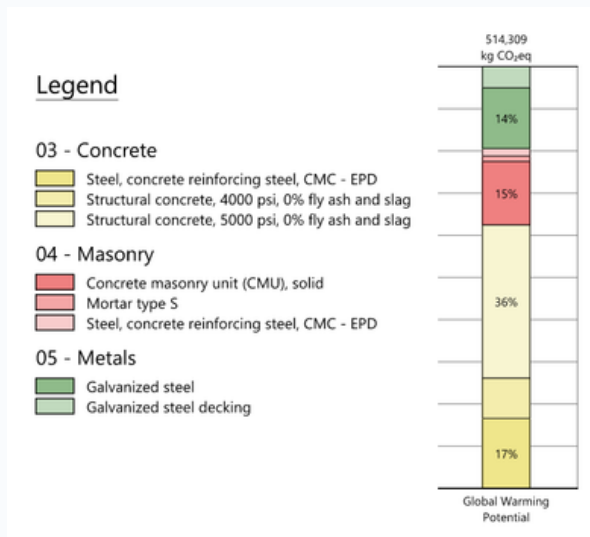


SEA0H Convention paper



STRUCTURAL
& FORENSIC
ENGINEERS

REPORTING



Example Project Life Cycle Assessment

PROJECT UPLOADS TO THE SE 2050 DATABASE

Submit (4) building projects to the SE 2050 database

Although not included in SE 2050 project reporting, infrastructure projects are a significant share of KAI Hawaii's work, and we are equally committed to collaborating with public agencies to pursue net zero embodied carbon on upcoming projects.

EMBODIED CARBON CHAMPION

Ryan Hobson is KAI Hawaii's Embodied Carbon Champion

2025 YEAR IN REVIEW

PROJECT UPLOADS

Partially Complete - Submitted 4 projects to the SE 2050 Database

INFRASTRUCTURE REPORTING

Created a tool for assessment of embodied carbon for building and infrastructure projects with Hawaii-specific embodied carbon intensities for structural materials and completed LCA study of 2 projects