

Embodied Carbon Action Plan 2026

Britt, Peters & Associates
SE2050 Commitment





Our Commitment to Low Carbon Design

Britt, Peters & Associates advances low-carbon structural design aligned with SE2050 Commitment. Through education, reporting, reduction strategies, and advocacy, we are embedding embodied carbon decision-making into every project.

01

7 LCAs completed (A1-A5 scope)

02

Comparative LCAs guiding design decisions

03

Weekly sustainability coordination across offices

04

10-20% embodied carbon reduction target

05

60+ mass timber projects advancing low-carbon solutions

Education

Building Internal
Capability



Embedding Carbon Literacy Across BPA

01 Leadership

Champions:

Kyle Farmer - kfarmer@brittpeters.com

Devki Desai - ddesai@brittpeters.com

02 Training

- Internal LCA training and resources
- Embodied Carbon 101 integrated into onboarding

03 Next Steps

- Full team training rollout in 2026
- Expansion of Revit + One Click LCA capability



Reporting

Measuring What
Matters



2025 IMPACT

7

LCAs Completed
2025 (A1-A5)



Approach

- Comparative LCAs across structural systems
- Material quantities included in submissions
- Projects selected across offices

Tools

- One Click LCA
- Revit-based material quantity takeoffs

Comparative studies help clients evaluate systems early and make informed material decisions.

Clarity Before Commitment™

Speed was the requirement. Structural clarity determined how each project achieved it.

Three student housing projects. Three structural systems. Three different paths to speed.

PRIORITY

- WMU – Affordability + biophilic living
- Ole Miss – Rapid delivery at scale
- Clemson Douthit Hills – Campus continuity

Each system reflects a different strategy for balancing speed, cost, and carbon.

WMU



PROJECT DELIVERY TIMELINE COMPARISON (MONTHS)



27 MONTHS: ~1000 Beds

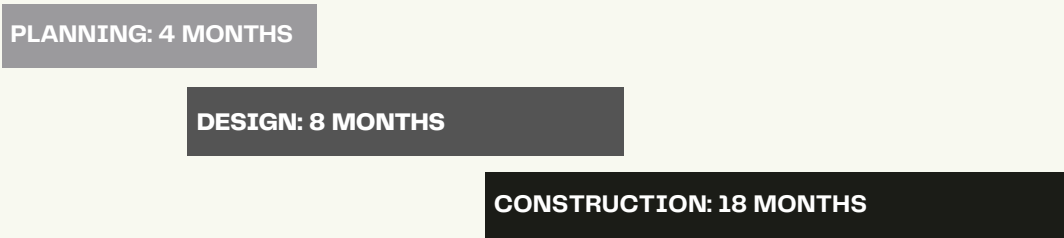
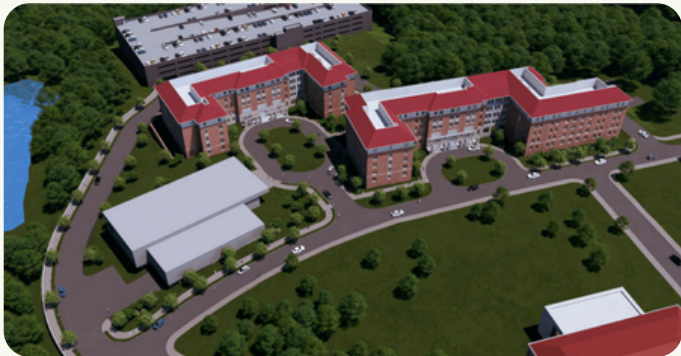
EMBODIED CARBON

94 kgCO₂e/m²

70% Lower Carbon

Mass Timber: Fast-Tracked Design-Build
Overlapping planning, design, and construction enabled concept to completion in just 2 years.

OLE MISS



28 MONTHS: ~1282 Beds

162 kgCO₂e/m²

Volumetric Modular
Factory-built modules enabled rapid installation at scale while maintaining schedule certainty.

CLEMSON



32 MONTHS: ~372 Beds

345 kgCO₂e/m²

Campus Continuity - Precast Concrete
A precast concrete system aligned with campus housing standards, enabling seamless integration and delivery.

Each project succeeded because priorities were aligned early, enabling faster, more predictable delivery.

Reducing Embodied Carbon Through Design + Materials



LOW-CARBON SYSTEM STRATEGY

01 Project-Level Action

- LCAs encouraged for all projects over 10,000 SF
- Early integration into design process

02 Material Strategy

- 20% reduction target (10% minimum baseline)
- 25% preferred reduction where achievable
- Supplier collaboration to reduce cement content

03 Mass Timber Leadership

- 60+ projects completed or underway
- Sustainably harvested lumber (US + EU standards)
- Expanding low-carbon structural systems

Specifications now include embodied carbon targets and GWP required in structural submittals.

Reducing Embodied Carbon from Conventional Systems



CONVENTIONAL BASELINE + OPTIMIZATION

01 System-Level Decisions

- Comparative LCAs across structural systems
- Early selection of system drives carbon outcomes
- Trade-offs evaluated alongside cost and schedule

02 Material Optimization

- Reduced cement content through supplier collaboration
- Performance-based concrete mix design targets
- GWP benchmarks integrated into design decisions

03 Specification + Accountability

- GWP targets embedded in specifications
- EPDs required in structural submittals
- Carbon performance tracked through project delivery

Reducing embodied carbon starts with system clarity before design decisions are locked in.

Advocacy

Sharing
Knowledge +
Scaling Impact



Engaging Clients + Industry



Brookhaven - Collaborative Project with Sizemore Group

We move from analysis to action - applying embodied carbon strategies in real projects.

01 Client Engagement

- Comparative LCAs used in concept phase
- Supporting informed structural system decisions
- Early-stage clarity on cost, carbon, and delivery

02 Industry Leadership

- Dormitory comparative LCA presented externally
- Participation in Carolinas CLF regional hub
- Sharing insights across the design community

03 Mentorship

- Mentoring Sizemore Group on LCA approach
- Providing training and implementation support
- Applying embodied carbon strategies in real projects

Specifications now include embodied carbon targets and GWP required in structural submittals.

What's Next: 2026-2027

01 Expand Adoption

Increase LCA use across more projects and teams

02 Build Capacity

Train all engineers to measure, reduce, and report embodied carbon

03 Strengthen Client Strategy

Integrate embodied carbon into advisory and early-stage decisions



BPA is advancing embodied carbon leadership through measurement, material innovation, and early-stage decision-making to help clients achieve better outcomes across cost, carbon, and delivery.

BPA

**CLARITY
BY DESIGN**