

WHOLE LIFE CARBON ANALYSIS SERVICES

WHAT IS WHOLE LIFE CARBON ASSESSMENT?

A methodology that measures both operational and embodied carbon emissions:

- Operational emissions result from energy consumption and water use.
- Embodied emissions refer to emissions associated with material production, transportation, construction, maintenance, and end-of-life (deconstruction, decommissioning, disposal) processes.

HEAPY provides expert support in developing whole life carbon analysis profiles, integrating building performance metrics with detailed carbon footprint assessments.

Through a holistic approach to decarbonization, we help clients leverage synergies between operational and embodied carbon reductions to maximize benefits across human, natural, and economic capital.

WHY PURSUE WHOLE LIFE CARBON ASSESSMENTS?

REDUCE COSTS

- Identify opportunities to save on electricity costs through energy-efficient design
- Leverage these solutions to minimize upfront material costs



ENVIRONMENTAL IMPACT

- Gain insights into the environmental impact of different materials
- Use a common assessment framework to compare emissions from built assets
- Promote efficient use of resources through a holistic approach towards decarbonization



FUTURE-PROOFING FOR UNCERTAINTY

- Low-carbon buildings reduce regulatory risk
- Adapt to rising industry standards in building life cycle impact and performance

A WHOLE LIFE CARBON APPROACH TOWARDS NET ZERO

GOAL SETTING

Define Whole Life Carbon Baselines and Targets

OPERATIONAL & EMBODIED

Load Reduction & Smart Sourcing
Electrify Systems & Minimize Refrigerant Emissions
Add Renewables & Carbon Offsets

TRACKING

Track Progress Towards Net Zero
Optimize:
Annual Energy Use
Maintenance
Equipment Replacement



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HEAPY guides clients toward a low-carbon future with strategies spanning master planning, net zero design, funding optimization, carbon assessments, energy modeling, and renewable energy solutions.

MEP 2040

Committing to Zero