



AIA's BIG MOVE

THREE ACTIONS:

1. Declare an urgent climate imperative for carbon reduction
2. Transform the day-to-day practice of architects to achieve a zero-carbon, equitable, resilient and healthy built environment
3. Leverage support of our peers, clients, policy makers, and the public at large

AIA's Efforts

Voluntary AIA 2030 Commitment

Code of Ethics and Professional Conduct

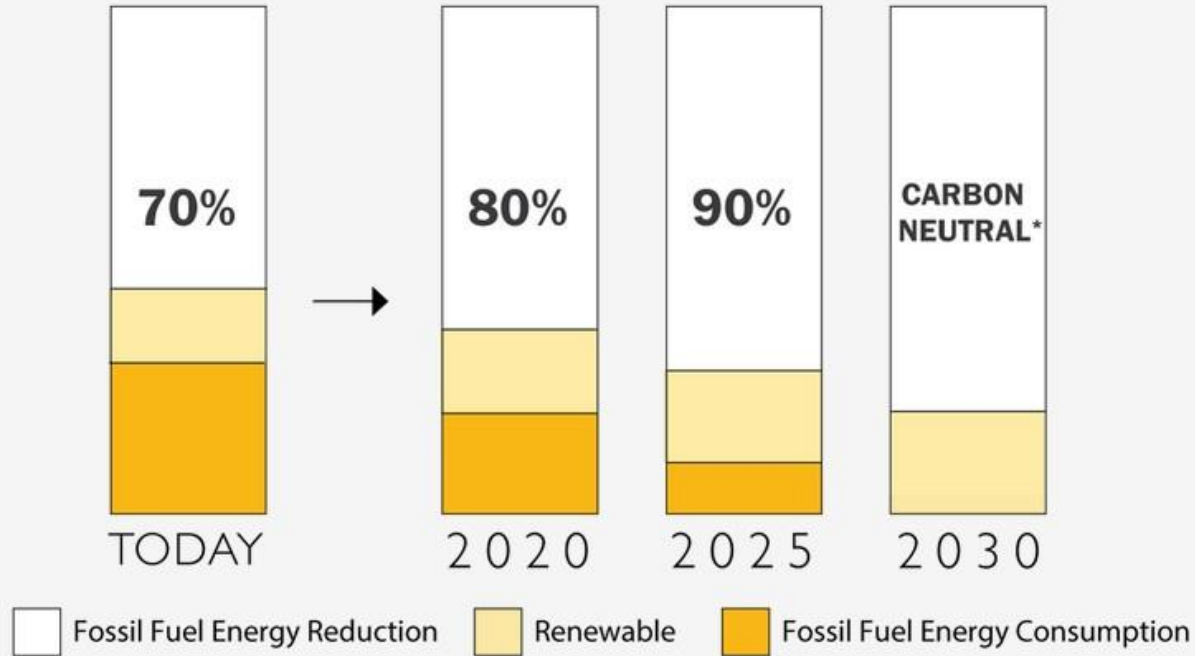
Product Transparency

Resilient Design

The background of the image is a close-up, high-resolution photograph of a wood surface. It features prominent, concentric growth rings that curve from the left towards the right, creating a sense of depth and organic movement. The color palette is warm, ranging from light tan and beige to deep, rich browns and near-black tones in the darker parts of the rings. The texture appears smooth but with natural wood grain variations.

AIA 2030 Commitment

What is the 2030 challenge:



The 2030 Challenge

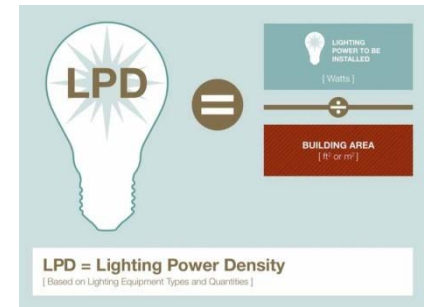
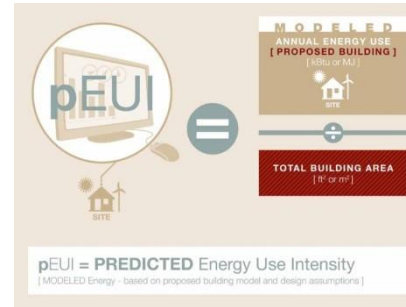
Source: ©2015 2030, Inc. / Architecture 2030. All Rights Reserved.

*Using no fossil fuel GHG-emitting energy to operate.

what is reported?

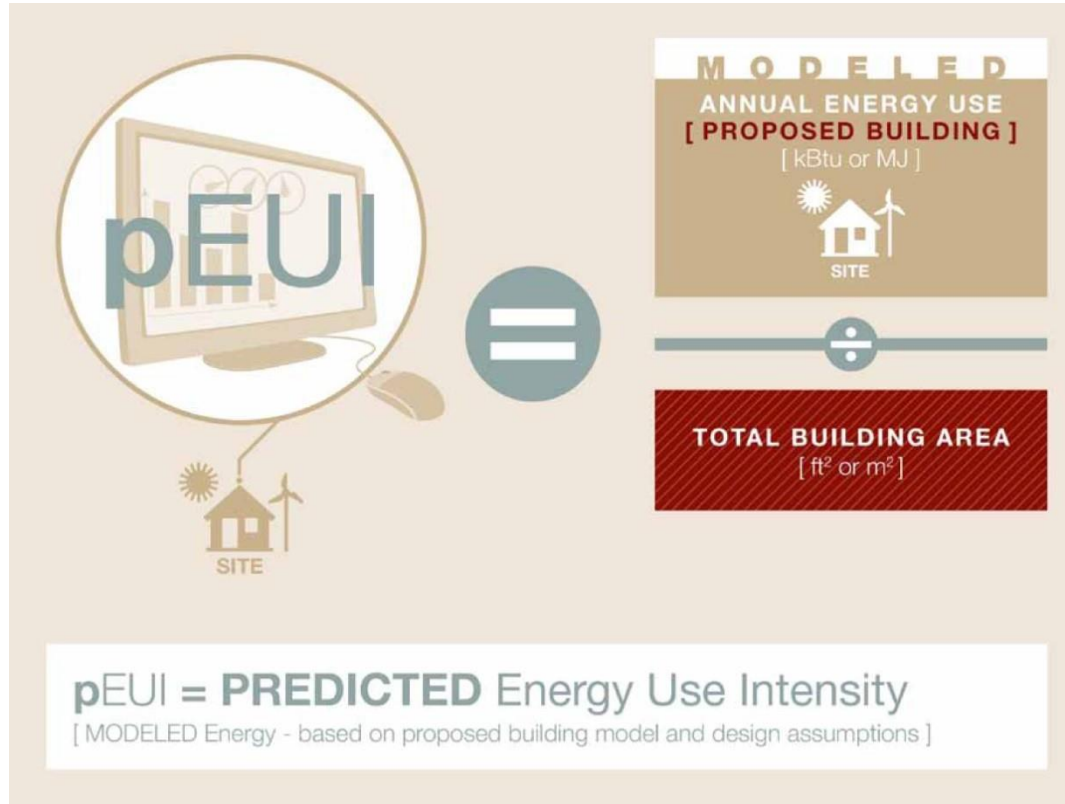
Include all **DESIGN** projects which meet the following criteria:

- was in an **active design phase** during the calendar year (concept, SD, DD, CDs) – not construction
- architectural projects whose **scope included HVAC system, lighting or envelope modifications** (new construction or major renovation)
- interiors-only projects which **included lighting design**

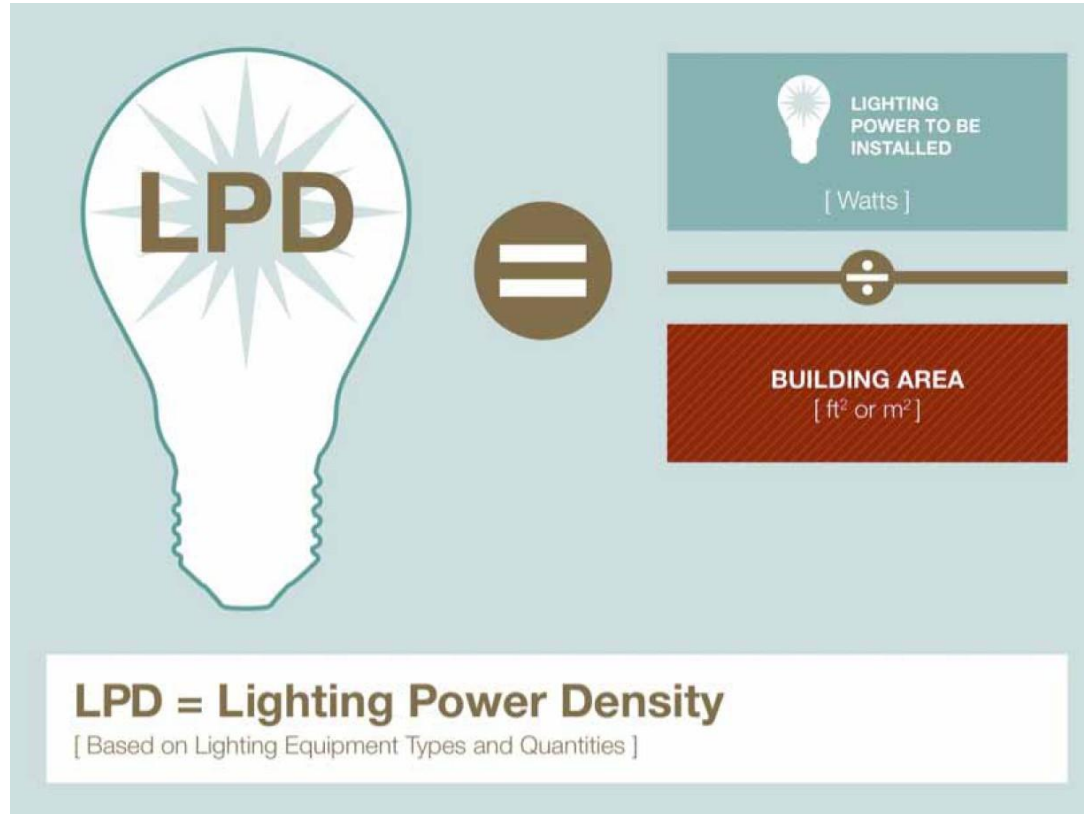


ASHRAE 90.1-2010 Code = **40%** Reduction

Energy Use Intensity (PEUI):



Lighting Power Density (LPD):



What are our EUI Targets?

Facility Type	National Average (2003 CBECS)	AIA 2016 Target 70%*
ES&T: Higher Ed	120	36
ES&T: Lab	370	111
Justice: courthouse	118	35.4
Justice: prison	90*	27
Corporate office: 10,000-100,000 sf	90	27
Corporate office: 100,001+ sf	74	22.2
Healthcare: clinic	73 - 84	21.9 - 25.2
Healthcare: inpatient/hospital	227	68.1
Healthcare: MOB	59	17.7
Govt office: 10,000-100,000 sf	90	27
Govt office: 100,001+ sf	74	22.2

**public safety, general*

What are our LPD Targets?

Facility Type	ASHRAE 90.1-2007 baseline	AIA 2030 target: 25% reduction*
ES&T: Higher Ed	1.2	0.9
Justice: courthouse	1.2	0.9
Justice: prison	1.0	0.75
Office	1.0	0.75
Healthcare: clinic	1.0 – 1.2	0.75 - 0.9
Healthcare: inpatient/hospital	1.2	0.9
ES&T: Laboratory	1.4	1.05
Retail	1.5	1.13

2030 Data Reporting:

AIA 2030 Design Data Exchange

PORTFOLIO

INPUTS

REPORTS

RESEARCH



Year
All ▼

Office Location
All ▼

Reporting Status
All ▼

FIRM LEVEL REPORTS

AIA 2030 Commitment Report

Progress

Predicted EUI

Energy Modeling

Reported Projects

PROGRAM LEVEL REPORTS

Results at a Glance

Reporting Firms

All Projects

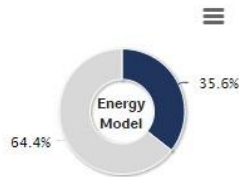
417 Projects And 88,771,615 GSF Included In Analysis.



% Predicted EUI Reduction
from Average EUI

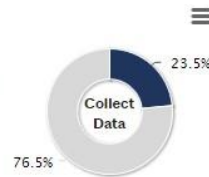
GSF Values

Total = 84,255,581
Meeting Target = 3,421,072
% Meeting Target = 4.1 %



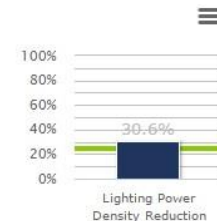
Energy Model
% GSF of Projects

29,992,701



Will Actual EUI Data Be
Collected
% GSF of Projects

19,834,297

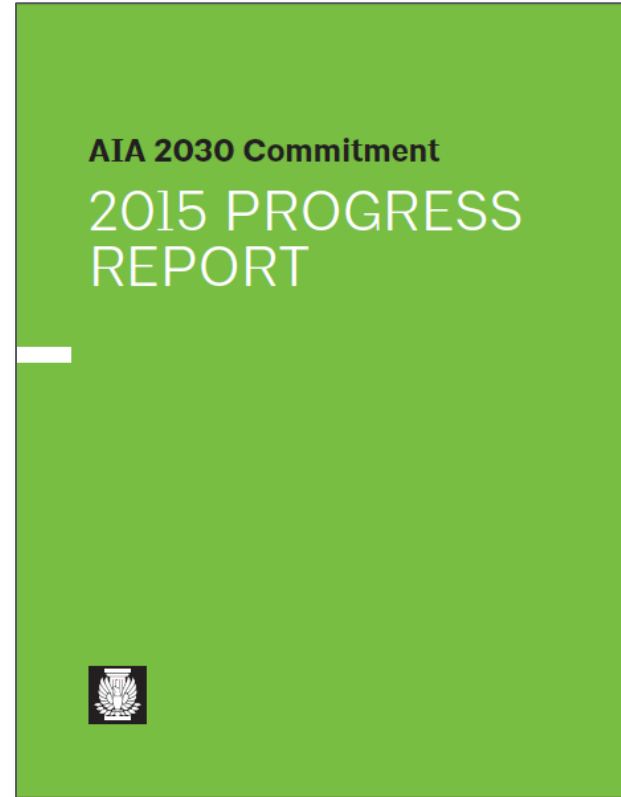
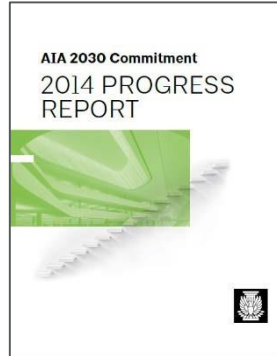
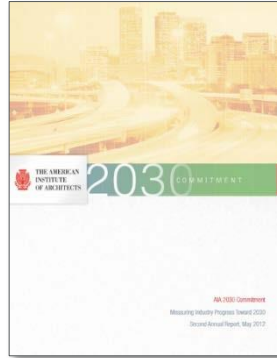
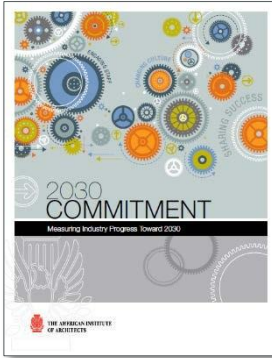


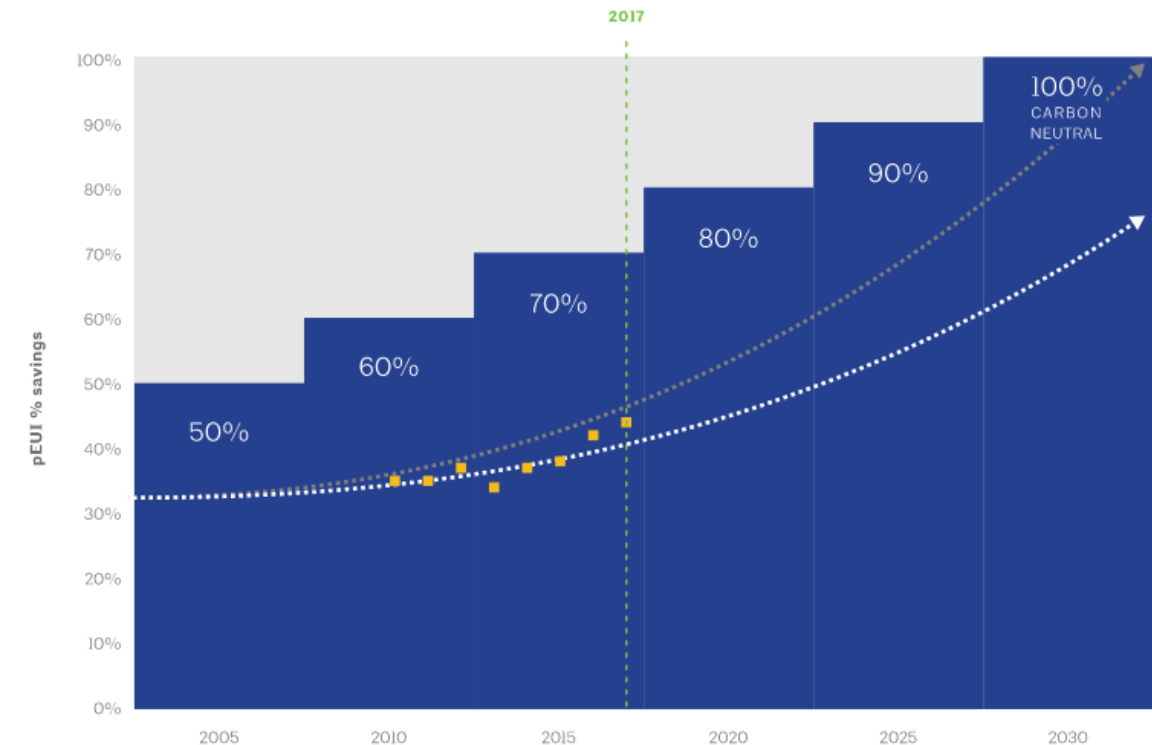
Lighting Power Density
Reduction
% of Projects

Total = 4,516,034
Meeting Target = 3,081,136
% Meeting Target = 68.2 %

Interior-Only Projects: 124 projects and 4,516,034 GSF included in analysis.
Non-Residential and Residential Projects: 293 projects and 84,255,581 GSF included in analysis.

2030 Data Reporting:





PICK UP THE PACE TO MEET OUR 2030 GOALS

Each year we make progress toward achieving the 2030 goals, but the current trajectory suggests we'll need more time to achieve 100 percent carbon-neutral design. Improvements could happen faster with stricter codes, more energy modeling, and other market motivators.

Key

- 2030 Commitment pEUI % savings goals
- Average annual pEUI tracked by the 2030 Commitment

2 dotted projection paths:

- Meeting 2030 goals
- Current pace

The background of the image is a close-up, high-resolution photograph of a wood surface. It features prominent, concentric growth rings that curve from the left towards the right, creating a sense of depth and organic texture. The color palette is warm, ranging from light tan to deep, rich browns. The lighting appears to come from the upper left, casting soft shadows that emphasize the grain's texture.

AIA 2030 Reporting

Benchmark the Project



[Click for More Information on Options](#)

Guest User. (Regular Users log in [here](#))

Select metric:

Note: most buildings in the database include Total Building data only. Other categories contain limited data.

System
Energy / Efficiency Metric

Specify data filtering criteria:

1. Lab Area / Gross Area ratio [?]
is greater than or equal to and is less than or equal to
2. Occupancy hours per week [?]
 - ☐ Standard (≤ 80 hours)
 - ☐ High (> 80 hours)
 - ☒ Both (all data)
3. Lab Type [?]
 - ☐ Chemical ☐ Biological ☐ Chemical/Biological
 - ☐ Physical ☐ Combination/Others
4. Lab Use
 - ☒ Research/Development ☒ Combination/Others
 - ☒ Manufacturing ☒ Teaching

ZERO TOOL

HOME ABOUT WHO IT'S FOR ZERO TOOL USER GUIDE APPLICATIONS

Enter building use details and optional energy consumption and generation data below. Click [Calculate Baseline and Target](#) at the bottom of the page to view your results. For detailed instructions on how to complete each section of the Zero Tool, visit the User Guide.

ABOUT YOUR BUILDING

Building Name: SBTC
Country: United States
City / State/Prov.: San Bernardino, California
Postal Code: 92410
Degree Days: HDD 2248, CDD 2324
☒ New construction ☐ Existing Building

BUILDING USE DETAILS

In order to provide you with an appropriate comparison for your building, we need to know how spaces in this building will be used. If your building has multiple uses, add them below.

☒ Commercial ☐ Residential

Add Another Use:

Selected Use Type(s): TRANSPORTATION TERMINAL

TRANSPORTATION TERMINAL

RESULTS

Target EUI is 12 based on a 70% reduction

BUILDING SUMMARY

LOCATION	San Bernardino, CA	92410
USES	Transportation Terminal	8,000 sq.ft (100.0%)

RESULTS	BASLINE	TARGET	Your Building
EUI % Reduction from Baseline	0%	70%	N/A
Score	100	31	N/A
Site FF-EUI* kBtu/ft ² /yr	38	12	N/A

Benchmark the Project

CBECS average
2003 average

101.7
EUI



*EnergyStar Target
Finder Regional Average*

ASHRAE 90.1-2010
(40% over CBECS)

61.0
EUI



*Energy Code Average
Savings (varies by code)*

City of Boulder
(30% over 90.1-2010)

42.7
EUI



*EUI Target – Established by
Client, Team or Municipality*

Project Target
(AIA 2030 Challenge?)

30.5
EUI



*AIA 2030 Commitment EUI
Target (70% Reduction)*

Benchmark the Project

ASHRAE 90.1
LPD Standard

1.2
w/sf



*Lighting Power Density
Healthcare*

Project Target
(AIA 2030 Challenge?)

0.9
w/sf



*AIA 2030 Commitment LPD
Target (min 25% Reduction)*

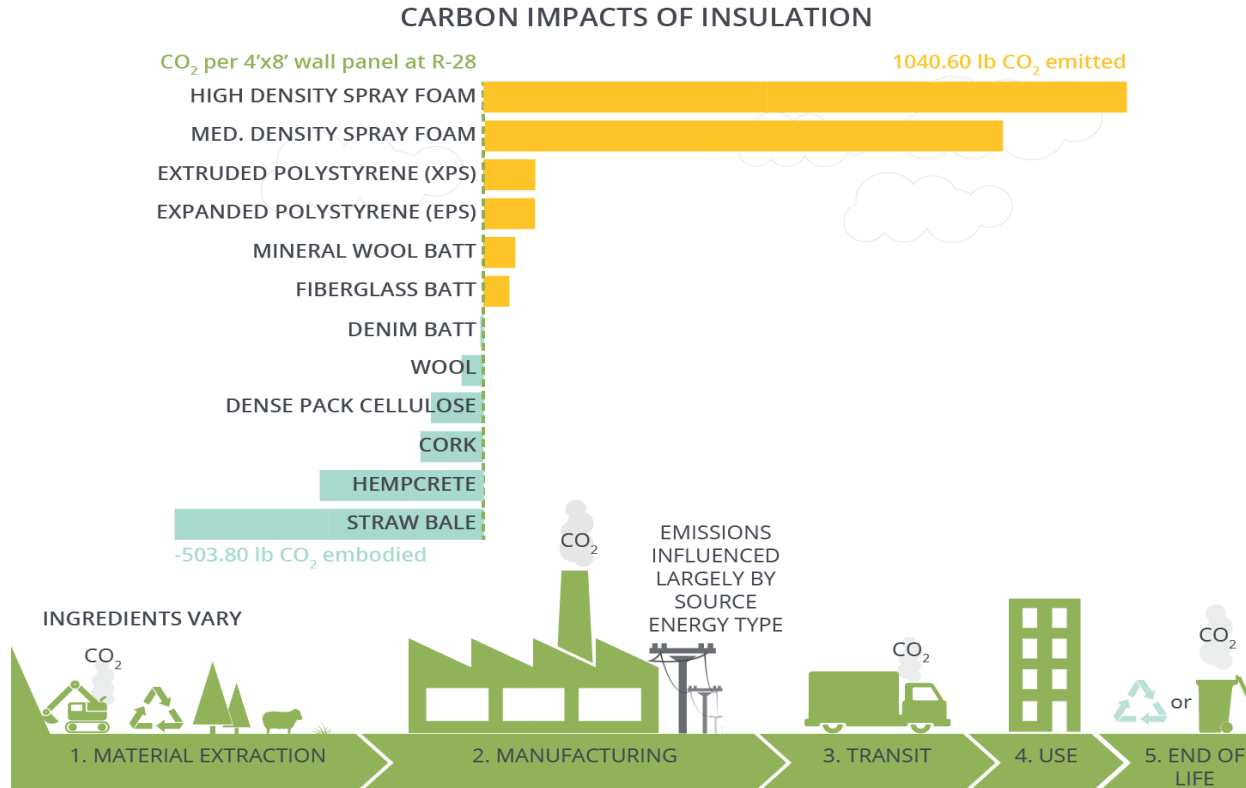
Top 50 Firms in Sustainability

RANK	ORGANIZATION	SCORE
1	BNIM	100.0
2	The Miller Hull Partnership	99.0
3	WRNS Studio	98.3
4	HDR	97.6
5	SmithGroup	97.5
6	Mithun	96.7
7	Touloukian Touloukian	95.7
8	Bruner/Cott & Associates	95.5
9	Perkins And Will	95.3

The background of the image is a close-up of a wood surface, showing concentric growth rings in shades of light tan and reddish-brown. The rings are more pronounced on the right side and become more linear towards the left.

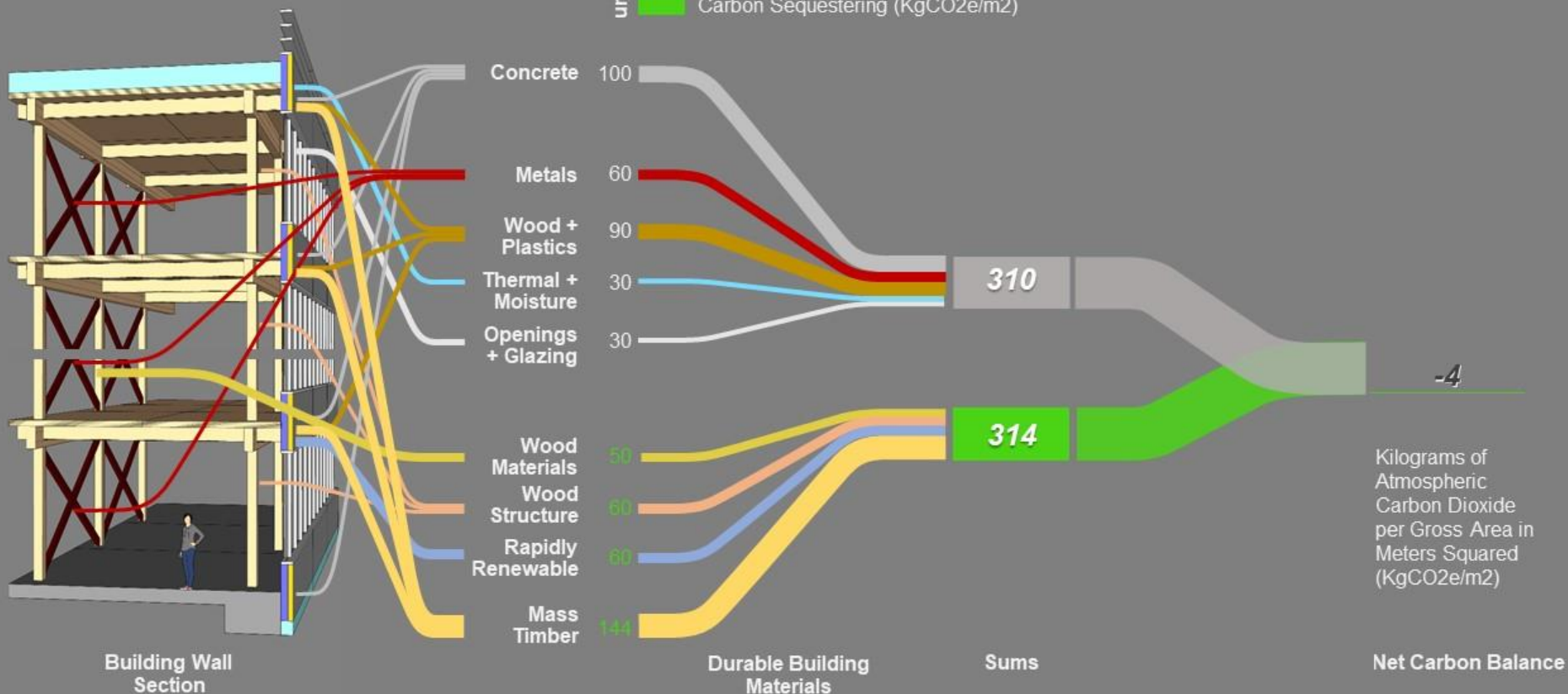
AIA 2030 Product

Annually, the **embodied carbon of building structure, substructure, and enclosures are responsible for 11% of global GHG emissions** and 28% of global building sector emissions



CARBON BALANCE GOAL (SCHEDULE A1-A5 + D)

unit
Carbon Emitting (KgCO₂e/m²)
Carbon Sequestering (KgCO₂e/m²)



THANK YOU