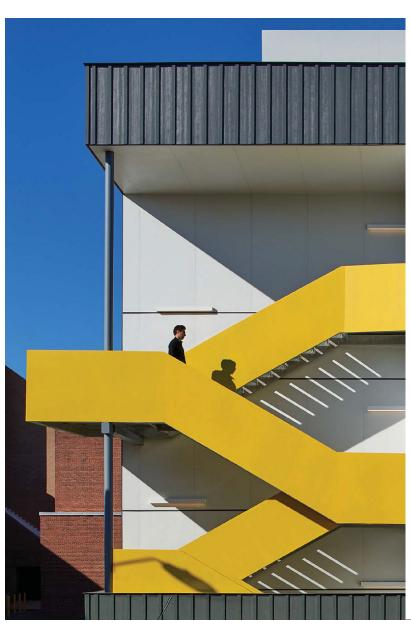


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INTRODUCTION



Our carbon footprint: The stakes are growing

Devastating wildfires in the Western United States. Pounding hurricanes from the Eastern states to the Caribbean. Recordbreaking high-tide flooding¹ along the coasts. The drumbeat of news about effects related to a changing climate—and the resulting loss of life and property—refuses to stop. Meanwhile, the World Health Organization echoes the concerns of much of the public health community as it warns "the overall health effects of a changing climate are likely to be overwhelmingly negative."

In the midst of this, the federal government is withdrawing from the Paris Agreement, striking references³ to climate change from public documents, and generally taking a back seat in driving solutions. Now, more than ever, architects play a key role in combating climate change. With nearly 40 percent of US energy consumed by buildings,⁴ architects must play a key role in combating climate change.

Architects are meeting the challenge

The 2030 Commitment is a powerful platform used by AIA members to affirm climate leadership. Launched nearly a decade ago, the 2030 Commitment provides a consistent national framework and multifaceted data analysis tool to guide and measure the impact of design decisions on energy use. It also offers resources, support, and training for architects to build expertise in developing low- to zero-carbon projects.

Especially encouraging is the fact that the program continues its steady expansion. In 2017, 212 firms—including sole practitioners and multinational companies with more than 1,000 employees—submitted portfolios, a 21 percent increase over 2016. In total, as of July 2018, 525 firms have signed the 2030 Commitment to a carbon-neutral built environment.

The 2030 Commitment is making a meaningful impact

Most important, the collective efforts of 2030 participants amount to meaningful impact. This year alone saw 17.8 million metric tons of carbon savings over the 2030 baseline equivalent buildings and savings of \$3.2 billion in annual operating costs.

The overall average predicted energy use intensity (pEUI) percent savings rose again this year to 44 percent, with a two percent increase over 2016. The increase is driven by a combination of expanded energy modeling and more stringent energy codes in many states. Five hundred sixty projects met the 2017 target of 70 percent savings or above, with 99 projects reaching net zero.

In sum, 2017 represented another year of incremental progress, with each improvement an important step in the right direction. We also recognize that we'll need to enhance our performance more rapidly if we want to reach the goal of designing 100-percent carbon-neutral buildings by 2030.

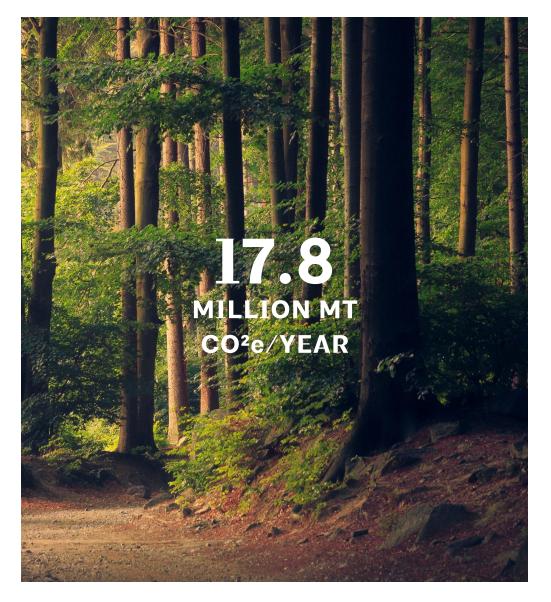
Knowledge is power

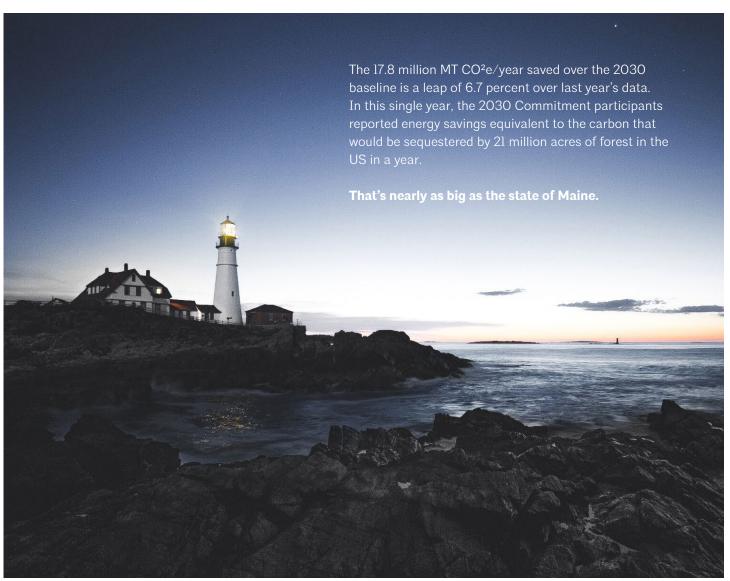
A key component of the 2030 Commitment is the Design Data Exchange (DDx), a sophisticated software suite that empowers users to collect, report, and analyze their data in ways that continually expand our knowledge about how and where progress is happening. That knowledge is power: Power to further cut greenhouse gas emissions and to design a built environment that reflects ingenuity and mindful progress, starting with our ongoing work to meet our 2030 goals.

Looking at the next decade—a critical period in fighting climate change in the built environment—the 2030 Commitment provides a model of success for voluntary efforts to move deliberately and effectively toward a sustainable, healthy, carbon-neutral future.



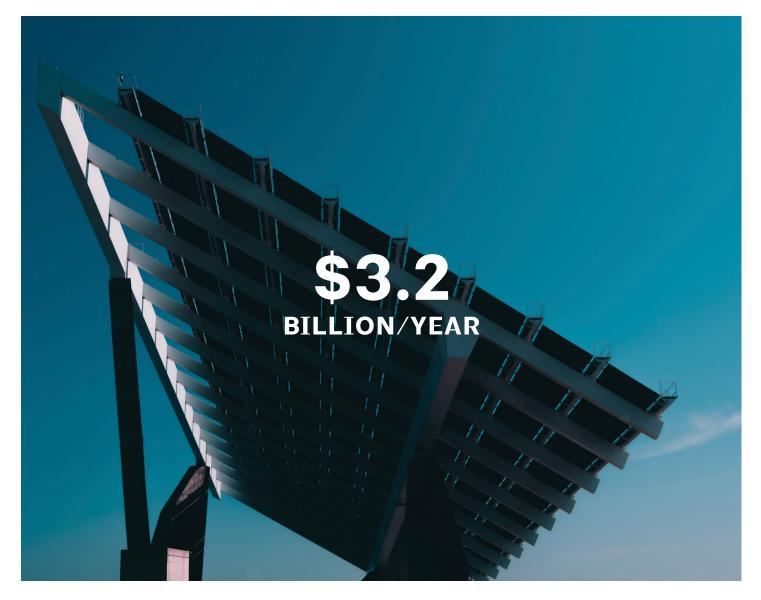
CLIMATE LEADERS / 2017 Projected CO²e savings

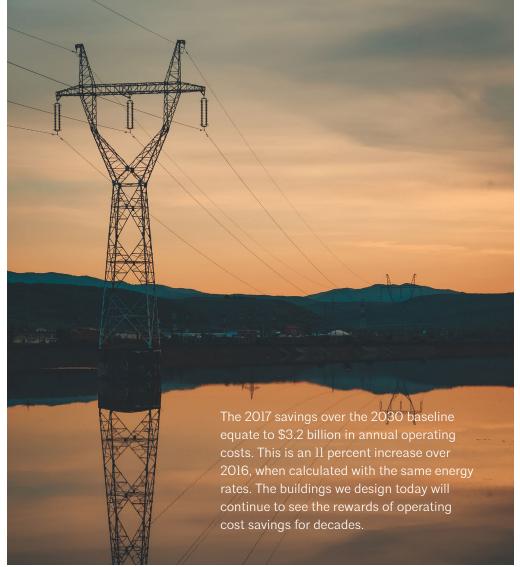




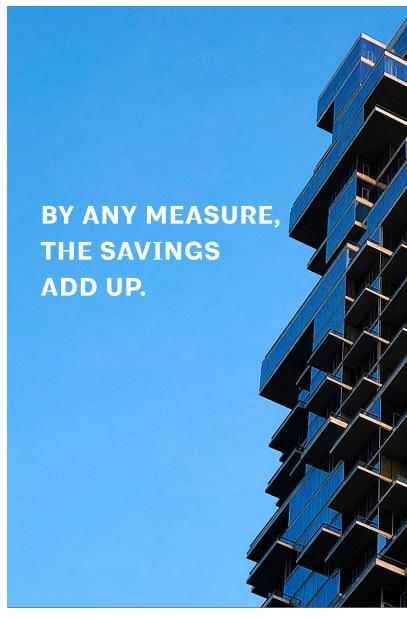
See appendix for the projected CO2 equivalent (CO2e) emissions reduction calculation methodology.

CLIMATE LEADERS / 2017 Projected operational cost savings





See appendix for the design energy projected cost savings calculation methodology.



COMMERCIAL SAVINGS

A typical 100,000 square foot commercial office building in New York City designed to perform 70 percent better than the 2030 baseline would yield the following annual savings:

~2,150 mWh

less energy

~\$194,000

in projected energy cost savings

~537

metric tons of CO²e reductions, which equals the amount of electricity about 80 homes use in a year

RESIDENTIAL SAVINGS

Meanwhile, a typical 2,500 square foot single-family home in Mobile, Alabama, designed to perform at 70 percent better than the 2030 baseline would equate to the following annual savings:

~23 mWh

less energy

~\$2,000

in projected energy cost savings

~9

metric tons of CO²e reductions or about the same as the carbon that is sequestered by preserving 10.6 acres of trees

See appendix for the projected CO2e equivalent emissions reduction calculation and design energy projected cost savings calculation methodologies.

"The AIA 2030 Commitment has been an essential platform for expanding Leddy Maytum Stacy Architects' continued commitment towards a zero carbon future. Every firm should join the movement. This resource is a valuable guide towards helping designers track progress and ultimately make an impact as leaders in designing regenerative, healthy, and resilient communities."

Marsha Maytum, FAIA, LEED AP

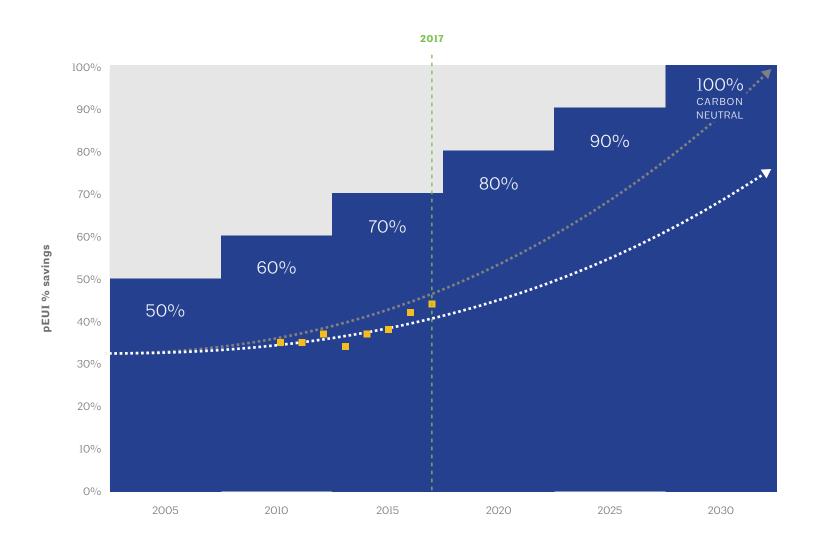
Principal at Leddy Maytum Stacy Architects, recipient of AIA's 2017 Architecture Firm Award

SECTION 2.

THE 2030
COMMITMENT
RETURNS
RESULTS



RESULTS / Progress to 2030 goals



Annual predicted energy use intensity (pEUI) savings is a weighted average of whole building project gross square feet (GSF). pEUI savings is relative to the 2030 Baseline–2003 Commercial Building Consumption Survey (CBECS)⁵ and 2001 Residential Consumption Survey (RECS).⁶

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

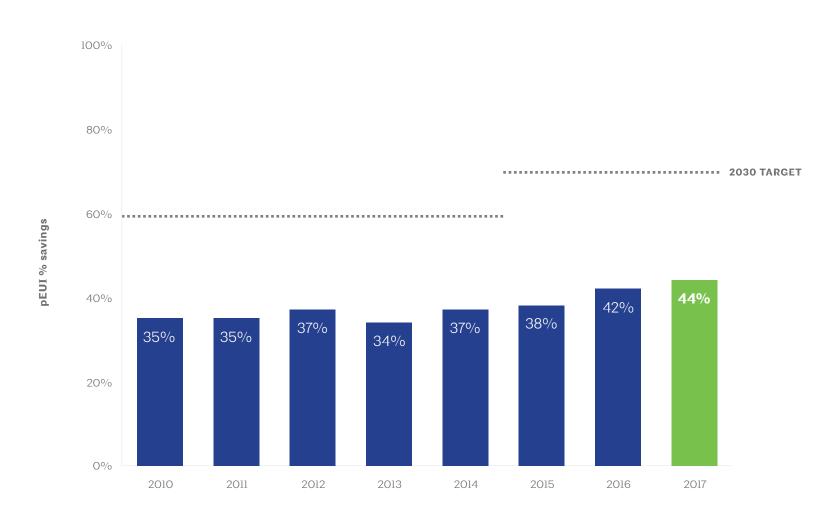
Average annual pEUI tracked by the 2030 Commitment

2 dotted projection paths:

■ ■ Meeting 2030 goals

Current pace

RESULTS / pEUI savings

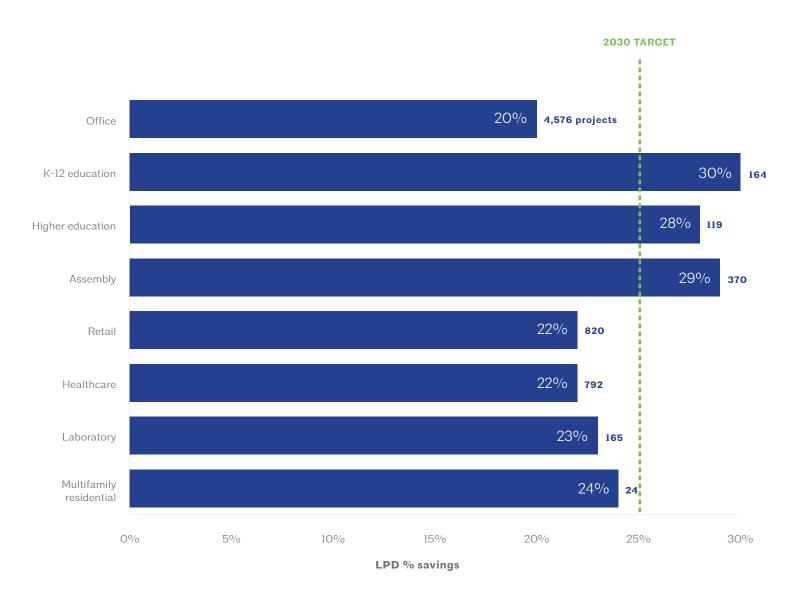


44% pEUI savings, the best year on record

2030 targets are achievable, and the results show the culture is changing. Year after year and kilowatt hour by kilowatt hour, architects are measurably moving the needle and reducing energy consumption.

Annual predicted energy use intensity (pEUI) savings is a weighted average of the whole building project gross square feet (GSF). pEUI savings is relative to the 2030 Baseline—2003 Commercial Building Consumption Survey (CBECS) and 2001 Residential Consumption Survey (RECS).

RESULTS / LPD savings



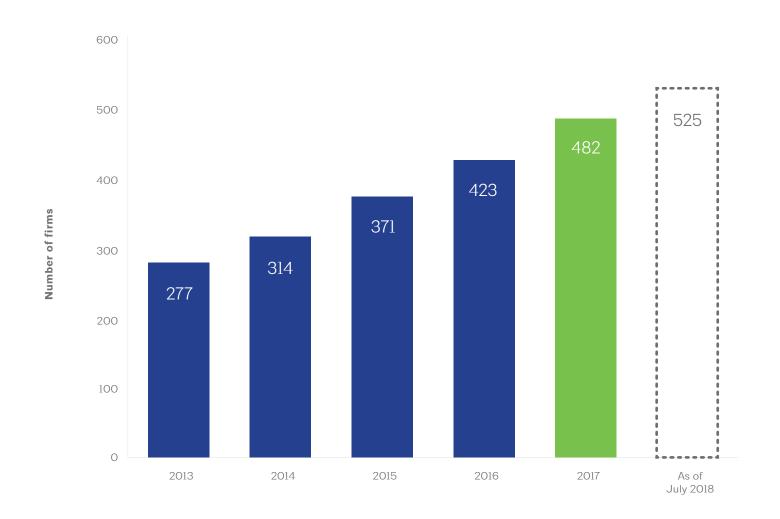
23% LPD savings

The 2030 Commitment sets a 25 percent savings goal for the GSF weighted average lighting power density (LPD) of interiors projects. Of the 2l2 firms reporting their projects for the 2030 Commitment, l34 firms tracked 7,l00 interiors projects.

This year's data showed an average of 23 percent savings, which not only comes closer to meeting the goal but also had fewer outliers and data anomalies. For example, last year the overall percent reduction jumped almost five points by adjusting just the office-use projects to meet the LPD code threshold minimum within eight of the most frequently used energy codes. This year we calculated the data the same way and our overall savings changed by just one percent. We believe this indicates that architects better understand what LPD values are reasonable for their projects and how to calculate the LPD or frame the request to their consultants, and that firms can more accurately benchmark and target their LPD goals when looking at LPD by use type.

Lighting power density (LPD) savings is a weighted average of GSF of interiors projects. LPD savings is relative to the 2030 baseline for interiors projects—ASHRAE 90.1 2007.

RESULTS / More firms, more savings

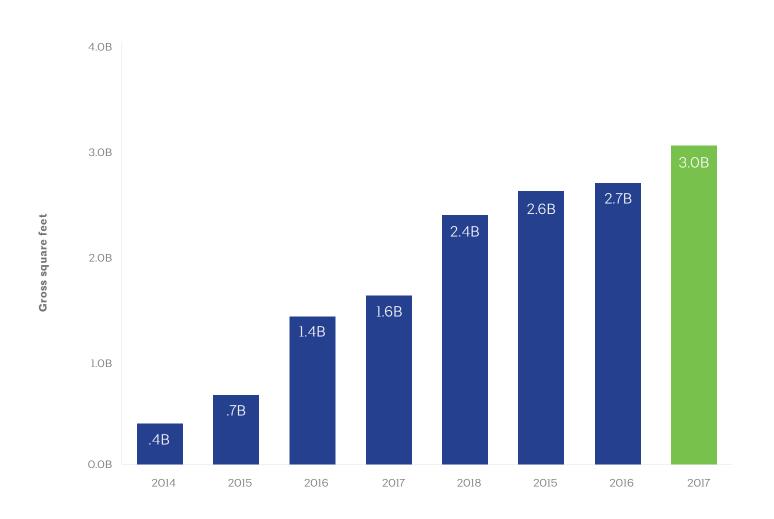


21% Increase

212 firms submitted portfolios in 2017 compared to 175 in 2016, a 21 percent increase.

As of July 2018, 525 firms have made the 2030 commitment. We hope to see continued growth through the remainder of 2018 and an even bigger reporting year next year.

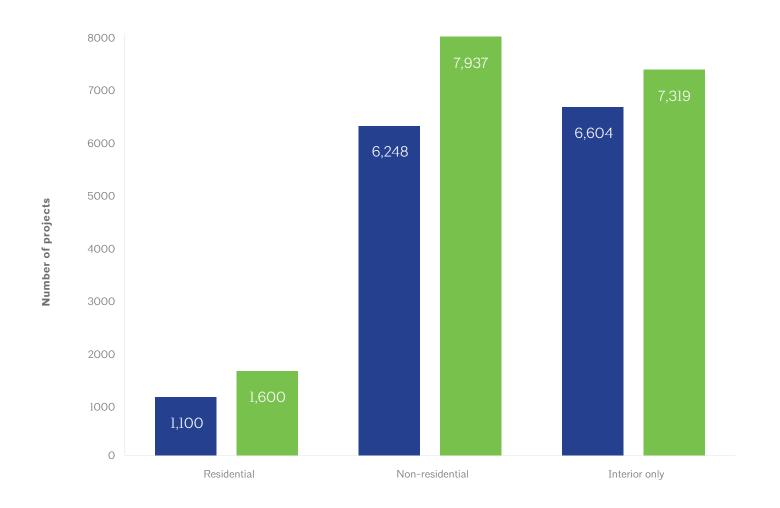
RESULTS / GSF grows



More than 3 billion GSF

Total gross square feet (GSF) grew by 13 percent over last year to more than 3 billion GSF. This is a more than sevenfold increase since the 2030 Commitment launched in 2010.

RESULTS / Number of projects grows



16,856 Total projects

The number of projects reported in 2017 grew by 21 percent. There was growth across all project types, but total residential and whole building projects saw greater proportional upticks than interiors.





*ConstructConnect⁷ data tracks
"new" and "addition" construction
starts in the US by square footage.
The ConstructConnect square
footage calculations are for 'new'
and 'addition' nonresidential
construction. For 'alteration'
work, there is no square footage
calculation. The 2030 GSF
represented is a subset of the data
that excluded international, interiors
projects, residential, renovations,
and phases other than "design
closeout final."

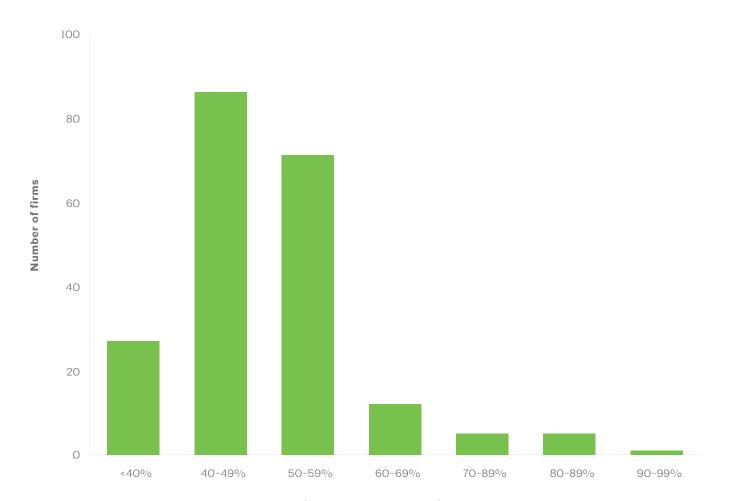




MEETING GOALS

The goals set forth in the 2030 Commitment are not easy targets, and reaching net zero is no small feat. For those who do not meet the goals, each step along the way still represents progress and another opportunity to further embed the principles of the 2030 Commitment into firm culture.

KNOWLEDGE / Firm performance curve



Firm average % pEUI savings

48% Median firm pEUI savings

The majority of reporting firms are in the 40 percent to 60 percent savings range, a reminder that tracking energy metrics is the most important step in making—and learning from—steady progress.

KNOWLEDGE / Participating firms

These 10 firms achieved a 70% pEUI savings across their entire portfolio!

Coldham & Hartman Architects COULSON

ehdd

Green Hammer

Lehrer Architects LA, Inc.

Maclay Architects

McGranahan Architects

Mithun

mode associates

Yost Grube Hall

ZeroEnergy Design

Adrian Smith + Gordon Gill Architecture

Albert Kahn Associates, Inc.

Allijance

Ankrom Moisan Architects, Inc.

Ann Beha Architects

ARC/Architectural Resources Cambridge, Inc.

archimania Arrowstreet

Ashley McGraw Architects

Atelier Ten

Ayers Saint Gross

Ballinger

BAR Architects

Bard, Rao + Athanas Consulting Engineers, LLC

Bassetti Architects
Bergmeyer Associates

Beyer Blinder Belle Architects & Planners, LLP

Blair + Mui Dowd Architects, PC

BLT Architects
BNIM Architects

Bohlin Cywinski Jackson

Bora Architects

Boulder Associates, Inc.
Braun and Steidl Architects
Brooks + Scarpa Architects, Inc.
Browning Day Mullins Dierdorf
Bruner/Cott & Associates
BuroHappold Engineering

BVH Architecture

BWBR

CallisonRTKL

Cannon Design CBT Architecture Clark Nexsen

CO Architects

Coldham & Hartman Architects

Cooper Carry COULSON

CTA Architects Engineers

Cuningham Group Architecture, Inc.

Cunningham | Quill Architects

Dake Wells Architecture

Dattner Architects

David Baker Architects

Davis Partnership Architects
Dekker/Perich/Sabatini

Dewberry DIALOG DIGSAU

DiMella Shaffer DLR Group

DRAW Architecture + Urban Design

DSGN

Duda Paine Architects

DWL Architects + Planners, Inc.

ehdd

Ehrlich Yanai Rhee Chaney Architects

Elkus Manfredi Architects

Ellenzweig

Elness Swenson Graham Architects. Inc.

Engberg Anderson Architects

English + Associates Architects, Inc.

Ennead Architects
Eskew+Dumez+Ripple

EwingCole

EYP

Farr Associates

Feldman Architecture

Finegold Alexander Architects

Flad Architects

Frederick + Frederick Architects

FXFOWLE

GBD Architects Incorporated

Gensler GFF GGLO

Goettsch Partners Goody Clancy Gould Evans Green Hammer

Gresham, Smith and Partners

Grimm and Parker GSBS Architects Guidon Design

GWWO, Inc. Architects

Hacker

Hahnfeld Hoffer Stanford Handel Architects, LLP Harley Ellis Devereaux

HarrisonKornberg Architects

continued on next page

KNOWLEDGE / Participating firms

Hartshorne Plunkard Architecture Hastings Architecture Associates, LLC

HDR

Helix Architecture + Design Hennebery Eddy Architects, Inc HGA Architects and Engineers

High Plains Architects

HKS

HMC Architects

HMFH Architects, Inc.

HOK Inc.

Holst Architecture Hord Coplan Macht ICON Architecture, Inc.

IKM Incorporated

INVISION

Jacobs Global Buildings Design

JAHN

Jer Greene, AIA + CPHC

Jones Studio, Inc.

Kaplan Thompson Architects Kipnis Architecture + Planning

KMD Architects

Krueck + Sexton Architects L M HOLDER III FAIA LakelFlato Architects

Landon Bone Baker Architects Leddy Maytum Stacy Architects Leers Weinzapfel Associates

Legat Architects

Lehrer Architects LA, Inc.

Lionakis

Little Divsersified Architectural Consulting

LMN Architects
Lord Aeck Sargent

LPA, Inc. LS3P

Maclay Architects
Mahlum Architects

Marlene Imirzian & Associates Architects

Mazzetti

McGranahan Architects Miller Dyer Spears, Inc.

Mithun

mode associates Moody Nolan Moseley Architects

MSR

NAC Architecture

NBBJ

Neumann Monson Architects
Office for Local Architecture, LLC

Olson Kundig
OPN Architects
Opsis Architecture
Orcutt | Winslow

Overland Partners Architects

Page

Paul Poirier + Associates Archtiects

Payette

Pei Cobb Freed & Partners Architects, LLC

Pelli Clarke Pelli Architects

Perkins+Will
Perkins Eastman
Pickard Chilton

Quattrocchi Kwok Architects
Quinn Evans Architects

Ratcliff

RATIO Architects, Inc. RB+B Architects, Inc. Richärd + Bauer

RMW architecture & interiors
Robert A.M. Stern Architects
Ross Barney Architects
RVK Architects. Inc.

Schadler Selnau Associates, PC

SERA Architects

Serena Sturm Architects
Sheldon Pennoyer Architects

Shepley Bulfinch SHP Leading Design siegel & strain architects Smith Seckman Reid, Inc.

SmithGroupJJR

SMMA

Snow Kreilich Architects Solomon Cordwell Buenz

SOM

Steffian Bradley Architects

Steinberg Architects
STUDIOS architecture
Substance Architecture

TBDA

The Beck Group

The Green Engineer, Inc.
The Miller Hull Partnership
The Sheward Partnership
The SLAM Collaborative

Thornton Tomasetti Tilton, Kelly + Bell, LLC

TLC Engineering for Architecture

Touloukian Touloukian, Inc. Trapolin-Peer Architects

TreanorHL

Trivers Associates

TRO

Valerio Dewalt Train Associates

Vanderweil Engineers

VMDO Architects

WBRC Architects/Engineers

WDG Architecture
Weber Thompson
Wight & Company
William Rawn Associates

Wilson Architects
WLC Architects. Inc.

WRNS Studio

WRT

Yost Grube Hall ZeroEnergy Design ZGFArchitects, LLP Ziger/Snead

KNOWLEDGE / New firms in 2017

5G Studio Collaborative

aecom

Aidlin Darling Design

Allison Blanks, Architect, PLLC

Ashley McGraw Architects

Bassetti Architects

COOKFOX Architects

CSNA Architects

Curtis + Ginsberg Architects, LLP

david cunningham architecture planning pllc

Design Collective, Inc. designLAB architects

DIALOG

Elness Swenson Graham Architects, Inc

ESG Architecture & Design

Fentress Architects

FFA Architecture and Interiors, Inc.

GFF

GREC

Green Hammer

Hamilton Anderson Associates

Hanbury Evans Wright Vlattas + Company

Hickok Cole Architects
Holst Architecture

HPZS

In Balance Green Consulting

JP Copoulos, Architect

KieranTimberlake

KLUGER ARCHITECTS, INC

KPMB Architects

LOHA

M+A Architects
Maclay Architects
MASS Design Group
MF Architecture

MKK Consulting Engineers

nARCHITECTS

Natalye Appel + Associates Architects, LLC (NA+AA)

NC-office

NO ARCHITECTURE, PLLC

Olson Kundig
P6PA+Architects
Peckham Architecture
Pill-Maharam Architects

Precipitate, PLLC

Retail Design Collaborative & Studio One Eleven

Richärd + Bauer RNT Architects Rodwin Architecture Ross Barney Architects

Schadler Selnau Associates, PC

Steinberg Architects Sterner Design Stonorov Workshop Studio G Architects

Studio Ma

Tilton, Kelly + Bell, LLC

Trakref

Trivers Associates

Urban Design Perspectives

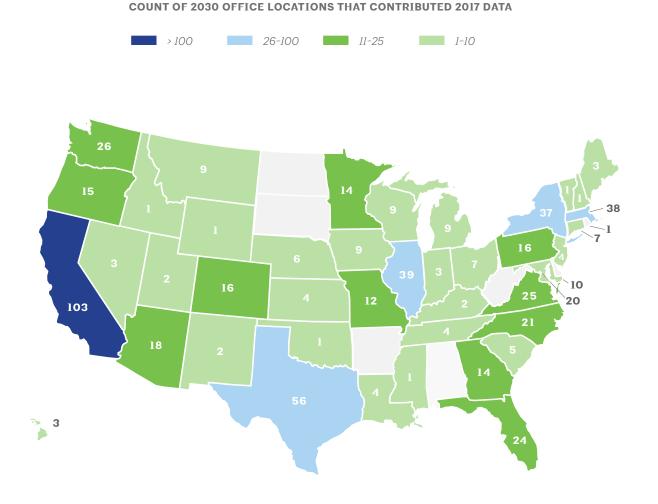
UrbanWorks, Ltd.

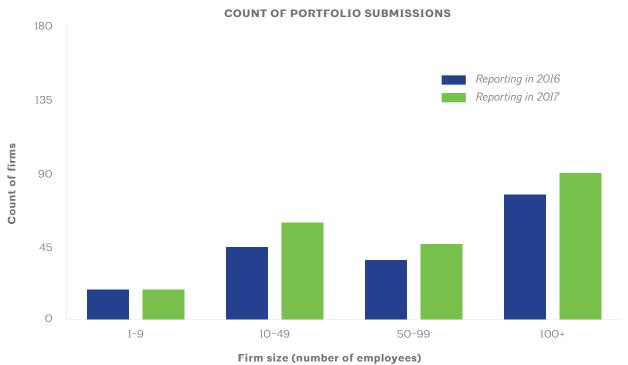
Vermont Integrated Architecture

waterleaf architecture

ZH Architects

KNOWLEDGE / Firm demographics & resources





PARTICIPATION IS GROWING & THERE ARE RESOURCES TO HELP

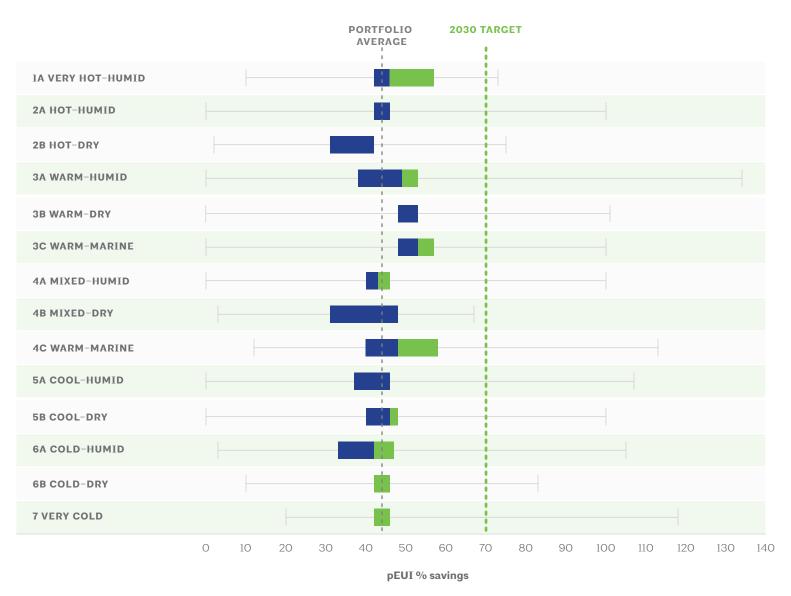
Between local 2030 networks, the peer mentorship program coordinated by AIA national, and the AIAU+2030 online series, numerous resources exist to help firms get started and learn more about what adopting the 2030 Commitment can mean to their practice. Visit aia.org/2030commitment to learn more or email 2030commitment@aia.org.

"The AIA 2030 DDx is much more than a reporting tool. Design teams use it to benchmark, actively establish targets, and incorporate this data into their design goals. Fully embracing the 2030 Commitment creates value for the firm, for our clients, and for future generations. A triple bottom-line win for 21st century architecture!"

Associate Principal, Chief Sustainability Officer, HKS Architecture

Rand Ekman, FAIA, LEED Fellow

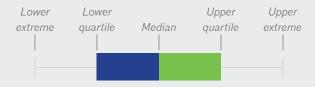
KNOWLEDGE / Impact of climate region on pEUI savings



2030 TARGETS ARE ACHIEVABLE IN ALL REGIONS

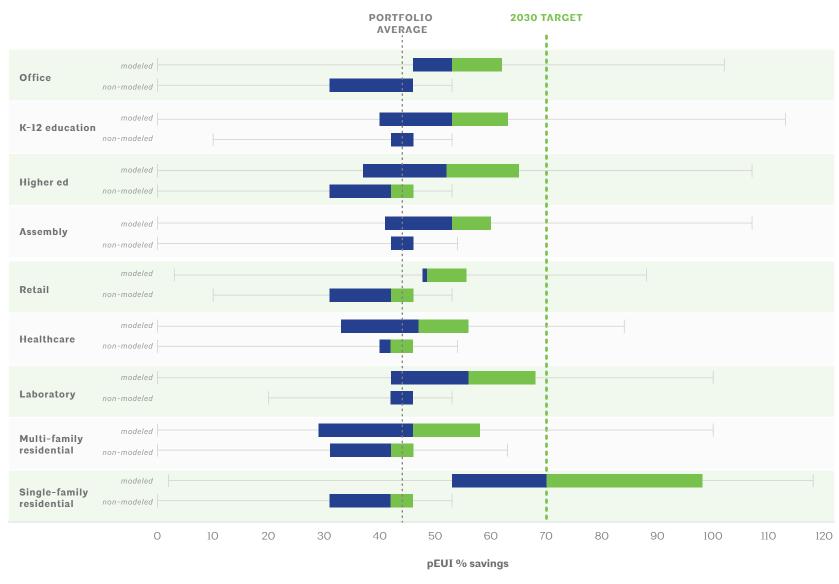
Project location and use type have the biggest impact on energy use. Looking at the portfolio of reported 2017 projects by climate zone and use types can help set expectations and encourage project teams to exceed median performance and make incremental improvement toward 2030 targets.

Key



Data filtered to exclude international use projects, interiors projects, and any climate zones with fewer than 30 projects. Climate zones are described by the ASHRAE climate zone map.

KNOWLEDGE / Impact of energy modeling on pEUI savings by use type



MEDIAN MODELED SINGLE FAMILY PROJECTS MEET 2030 TARGETS

All use types can meet the 2030 targets if using energy modeling. The median performance for single family projects actually hit the 70 percent target in 2017. Energy modeling is also the only way to predict savings that meet the 2030 targets, but code improvements help drive the broader market improvement.

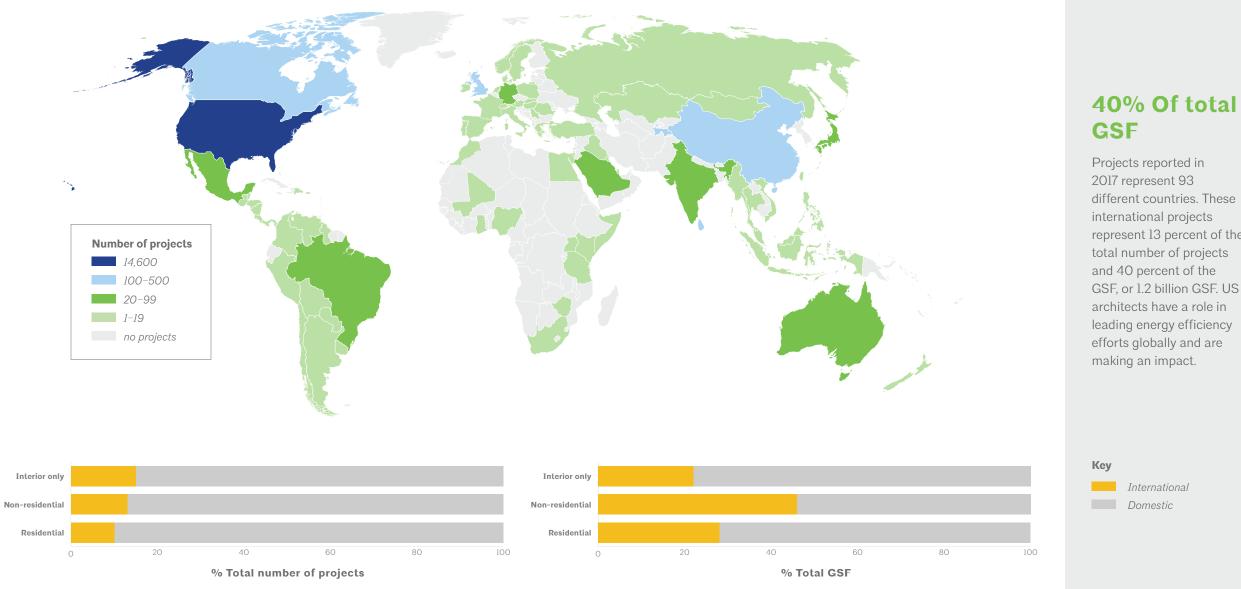
Key



Data filtered to exclude interiors projects, some use types, and projects submitted as "will be modeled."

"The AIA 2030 Commitment is a powerful first stepping stone in our dialogue about sustainable design with new clients. From there we are able to successfully leap forward together into different approaches and certification programs—like Passive House, NZEB, and Living Building Challenge—that can otherwise be too overwhelming and specific for starting out. With the weight of AIA behind it and alignment with our Minnesota B3 requirements, the 2030 Commitment is a trusted, neutral program that can act as a critical foundation and catalyst for advancing all sustainable design initiatives."

KNOWLEDGE / International projects



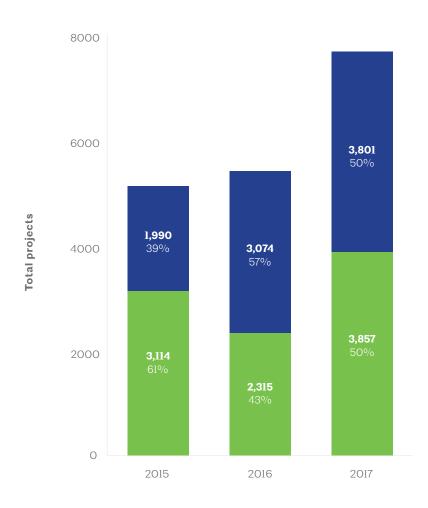
Projects reported in 2017 represent 93 different countries. These international projects represent 13 percent of the total number of projects and 40 percent of the GSF, or 1.2 billion GSF. US architects have a role in leading energy efficiency efforts globally and are making an impact.





IMPROVEMENT / Energy modeling improvements

% MODELED VERSUS NON-MODELED PROJECTS



50% Of projects are using energy modeling

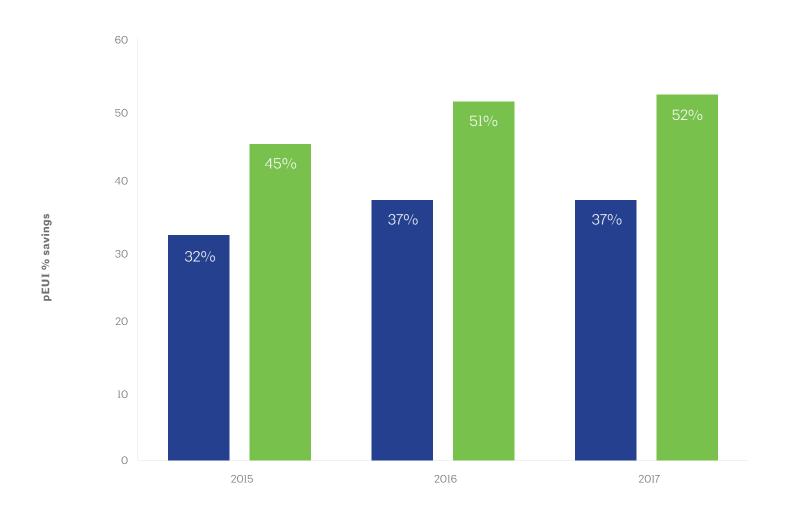
3,857 projects used energy modeling in 2017. Although the proportion of modeled versus non-modeled projects did not exceed 2015, the growth in overall projects means more were modeled in 2017 than any previous year.

The AIA 2030 Commitment continues to encourage more energy modeling as the only way to track predicted energy improvements above and beyond energy code.



Data filtered to exclude interiors projects and projects submitted as "will be modeled."

IMPROVEMENT / Energy modeling & stronger codes



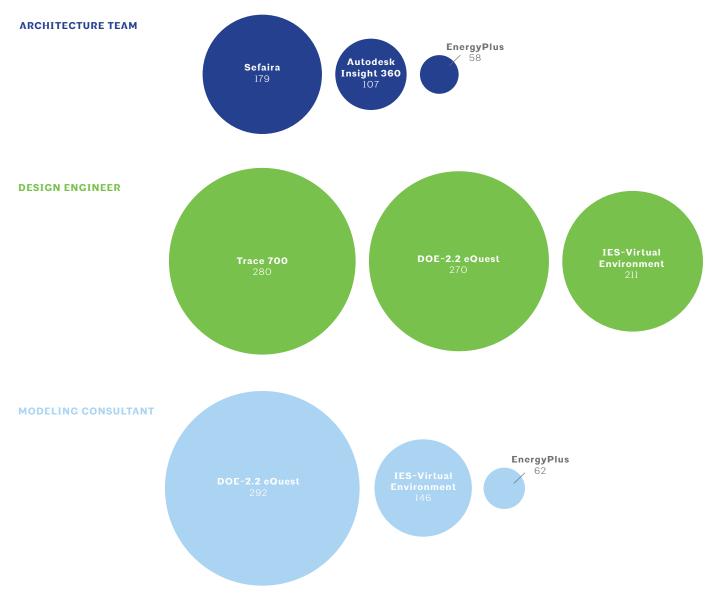
52% pEUI savings for modeled projects

There are two ways to achieve greater energy savings: Set ambitious targets and use energy modeling to track progress toward meeting these targets, or design to more stringent energy codes. Both play an important role. Modeling enables more precise measures and further integrated design, and it provides a baseline to inform advocacy for stronger codes that automatically increase savings.



Data filtered to exclude interiors projects and projects submitted as "will be modeled."

IMPROVEMENT / Tools & teams

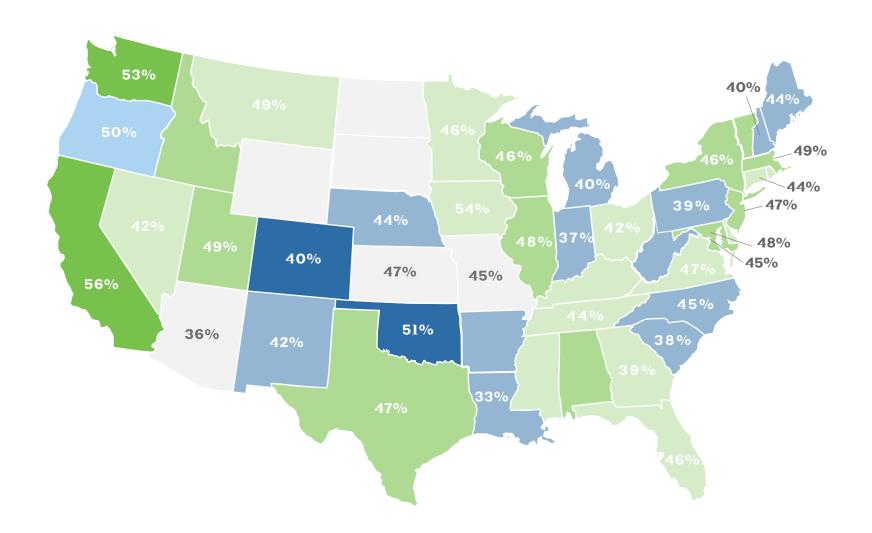


TOP THREE TOOLS BY TEAM

Engineers and consultants did the energy modeling work for the majority of projects that were reported. However, tools and expertise exist for all members of the project team to improve performance through modeling and communicating shared targets.

The scale of the bubble is relative to total number of projects.

IMPROVEMENT / State pEUI savings by code baseline & reported



STATE-BY-STATE COMPARISON

States with more stringent codes report greater pEUI savings, and initiatives like the 2030 Commitment drive improvement and help fill regulation gaps. Architects with the knowledge and experience to design high-performing buildings can lead advocacy efforts for more stringent codes, and their work demonstrates progress beyond code thresholds is both possible and valuable.



Energy code prescribed savings



State labels

2017 average pEUI savings %

None or home rule

This map shows the state-by-state weighted average pEUI savings in the labels and the pEUI savings prescribed by the adopted energy code in each state coded by the color legend. The state-adopted energy code is shown aligned with the percent pEUI savings analysis relative to 2030 baselines and is described in the AIA 2030 DDx help pages. Data is filtered to show non-residential whole building projects and states with less than 30 projects are not labeled.

"When it comes to affecting the long-term environmental footprint of a city, there's no such thing as a 'small' reduction in building energy use. Each advance architects make in designing low- and no-carbon buildings today brings positive results that will last a generation. Equally important, it helps raise performance expectations and sets the bar higher for the designs of the future."

Karen Weigert

Senior Fellow for Global Cities, Chicago Council on Global Affairs, and former Sustainability Officer for the City of Chicago

IMPROVEMENT / What's next?



2030 Participants are leaders

By participating in the 2030 Commitment, architects are the leaders we need in the built environment, business, government, and society. As this year's report shows, the 2030 Commitment is making significant positive impact, creating healthier environments and businesses. As we get closer to carbon neutral, we know there is still work to be done—that's where you come in.

Join us

If you haven't already, join the 2030 Commitment. Connect with your peers locally or through the 2030 mentorship program to exchange ideas and share strategies. Enhance your practice through AIAU's 10-part AIA+2030 Online Series. And of course, use energy modeling and the DDx resources to track your firm's progress toward 2030 carbon neutral goals and contribute to the body of data-based evidence that points the way forward.

All hands to reach net zero

We all need to push for a paradigm shift in the architecture and design community. Supporting stronger and stricter energy codes, incorporating 2030 goals into project requirements, and collaborating with participating firms to track progress toward these goals will help us achieve the best results. Together, we can get to carbon neutral.

APPENDIX / Methodology

Projected CO²e emissions reduction calculation

- l) The project use type was used to determine the percentage of electricity and natural gas for each project in the US and Canada. ¹⁰
- 2) For US and Canadian projects, the eGrid subregion was determined based on the project zip code.¹¹
- 3) The eGrid subregion was used to define the CO²e emissions factors for electricity and natural gas, which were multiplied by the fuel source energy savings.¹²
- 4) For international projects, the country name was used to determine the CO²e emissions factor, which was multiplied by the energy savings.

Design energy projected cost savings calculation

- l) The project use type was used to determine the percentage of electricity and natural gas for each project in the US and Canada. ¹³
- 2) For simplicity, all project energy savings for international projects were considered electricity savings.
- 3) For interior projects in all locations, all project energy savings were considered electricity savings.
- 4) Whole building and interior-only projects projected energy savings were totaled.
- 5) The electricity and natural gas design energy savings for all projects were multiplied by the US average commercial rate for electricity ¹⁴ and natural gas. ¹⁵

CO²e and carbon sequestration equivalencies (such as acres of trees sequestered) were calculated using the EPA Greenhouse Gas Equivalencies Calculator. ¹⁶

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Cove

Georgia Tech Engineered Biosystems Building
Cooper Carry and Lake|Flato
GTECH-EBB5.jpg (1) (and Jonathan Hillyer)
69% Predicted reduction from national average EUI for building type.

Page 2

Mundo Verde at Cook Campus
Studio Twenty Seven Architecture
Anice Hoachlander, Hoachlander Davis Photography
58.8% Predicted reduction from national average EUI for building type.

Page 3

Nancy and Stephen Grand Family House
Leddy Maytum Stacy Architects
Roger Swanson
2018 FH COTE_02 Community 1.jpg
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Page 8

Sonoma Academy's Janet Durgin Guild and Commons

WRNS Studio

Celso Rojas

SonomaAcademy_key.jpg

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San Francisco Art Institute Leddy Maytum Stacy Architects Bruce Damonte

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Mundo Verde at Cook Campus

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