

2020 Page Sustainability Report

Updated June 2020





Page is Committed to a 2030 Carbon Neutrality Goal

We were an early adopter of the 2030 Challenge and AIA 2030 Commitment and have been a supporting member of the United States Green Building Council (USGBC) since 2000.

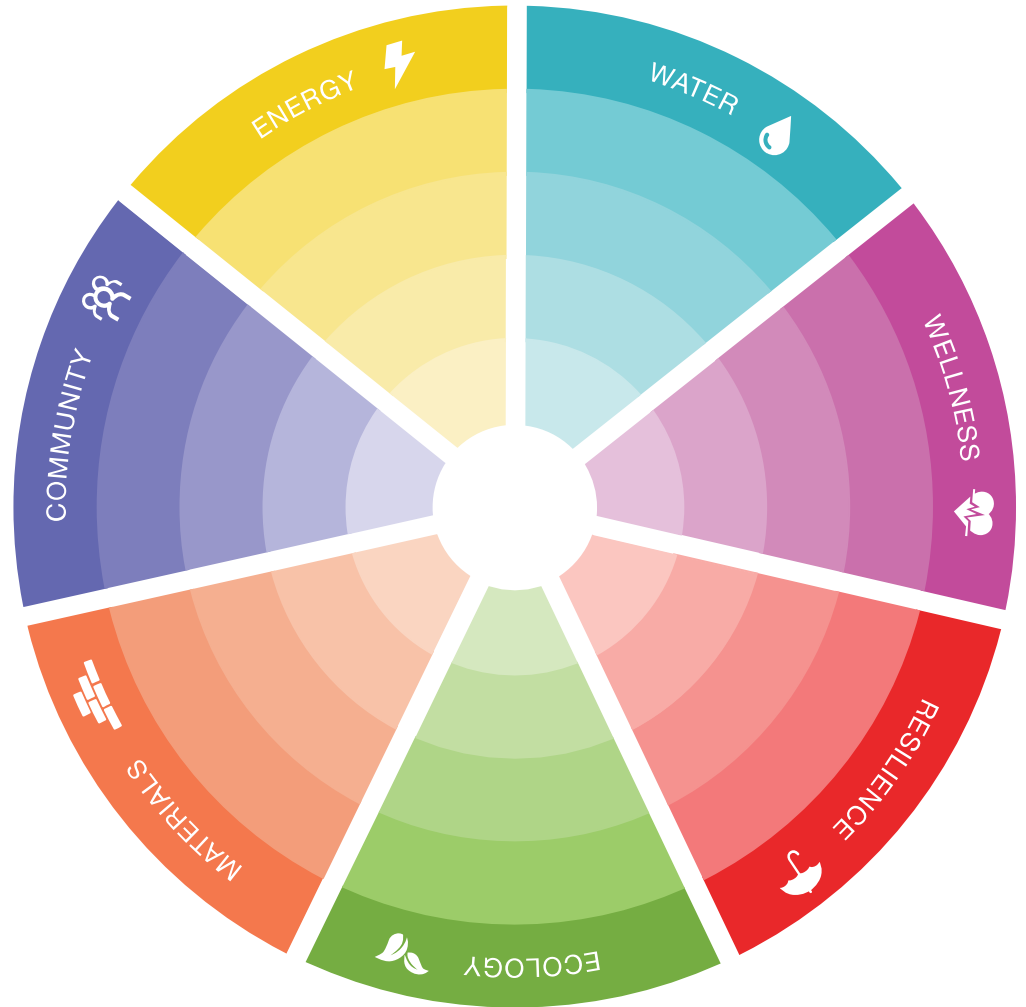


Process and
Initiatives

01

PROCESS

**Design that
makes lives
better.**



PROCESS

**We ask
how can our
projects...**



Deliver high performance?



Manage water responsibly?



Engage the surrounding community?



Promote health?



Use materials responsibly?



Integrate resilience?



Respond to its environment?

PROCESS

We create higher performing, healthier and more resilient buildings through a data driven and integrated process.

INITIATIVES 2025 Goals

01 We are known as a truly integrated firm.

We operate at a new level as an integrate design firm because we collaborate on solutions across disciplines to deliver higher performing projects, leverage expertise within practices areas to inform our best project practices, and apply lessons learned between market sectors to improve our entire portfolio.

02 We are an industry leader in high performance buildings.

We honor our environmental commitments, meet our 2030 challenge goals and publish our results. We win design awards because of our merger of design & performance. We are known for our net zero building design capabilities.

03 Wellness is a core part of our design approach.

We are recognized as a firm that prioritizes health as a core part of our design and clients come to us for this expertise.

04 We design for resilience by mitigating risk and planning for long term viability.

We are leaders in resilience planning and mission critical facilities. We design buildings not just based on weather of the past, but also plan for patterns of the future. We believe resilience is not only technical, but also social; we work with owners and their communities to address issues across multiple scales.

05 Building Sciences is a facilitator of knowledge, research, and education within Page.

We provide consistent and relevant content for the firm. We help to drive, prioritize and output meaningful research. We are educators and knowledge builders that people can come to for information. We are each experts in different components of building sciences both within our firm and within our industry. We measure what matters and help the firm quantify how we make lives better.

INITIATIVES 2020 Priorities

01

Consulting Services

1. Develop / standardize LEED PM Tools.
2. Develop LEED Documentation Tools.
3. Improve strategy for education on the dashboard.
4. Collaborate with engineering on developing a clear Energy Star process for existing projects.
5. Streamline LEED Services for OBO projects.
6. Win more WELL / Fitwel services.
7. Improve Green Globes capability w/ BLHI.

02

Integrated Services

1. Sustainability Wheel - Develop primers & strategy for education.
2. Building Performance Analysis – Output tools we have, create key new work process, integrate energy code more clearly in project delivery process.
3. Embodied Carbon Accounting – Benchmark all of our large projects and establish a clear work process.
4. Materials Matter – Relaunch with updated tools & objectives.
5. Wellness – Build leadership team to guide approach.

03

Support Services

1. 2030 reporting – 100% project reporting.
2. Redevelop dashboard.
3. Create & implement education strategy for each quarter.
4. Internal expertise development.
5. Integrate into firm business development.
6. Improve Marketing Materials.
7. Leverage website redo for improved branding around performance, health, resilience.
8. Improve Vision Integration.
9. Grow research opportunities in net zero, post occupancy, lessons learned / best practices sub committees.



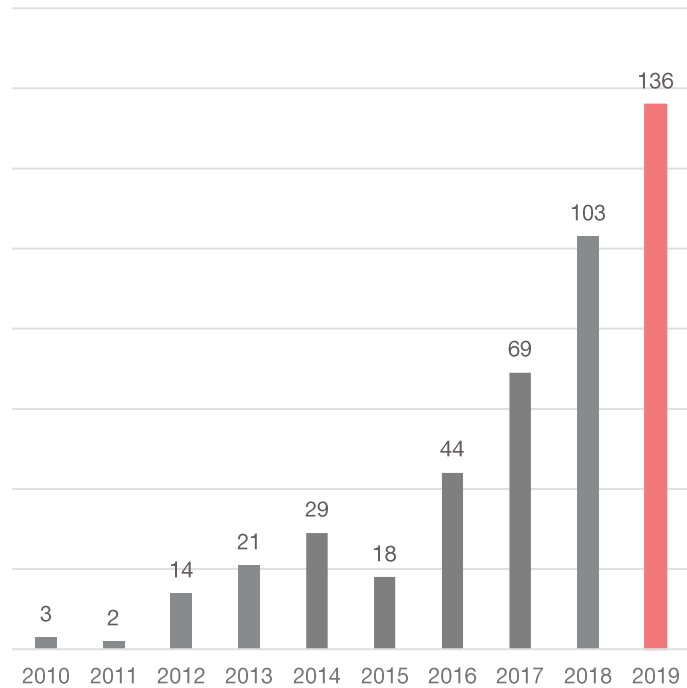
AIA 2030
Report

02

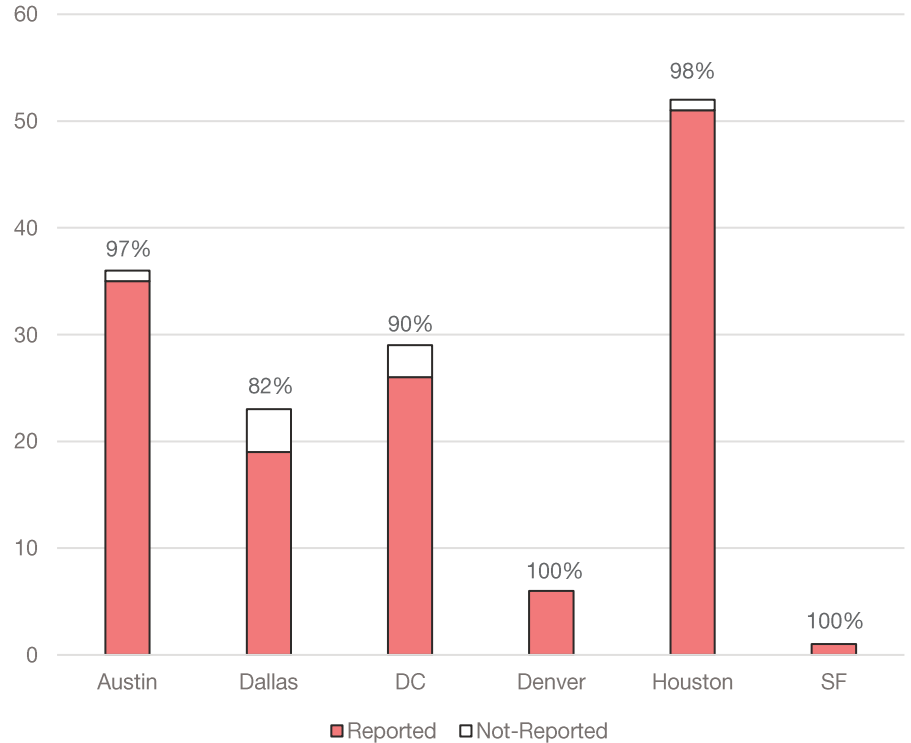
PERFORMANCE AIA 2030 Reporting

Our 2020 goal is to report 100% of our eligible projects. As of June 9, we have reported 92% of our eligible projects. Deadline to submit is June 15.

Projects reported by year

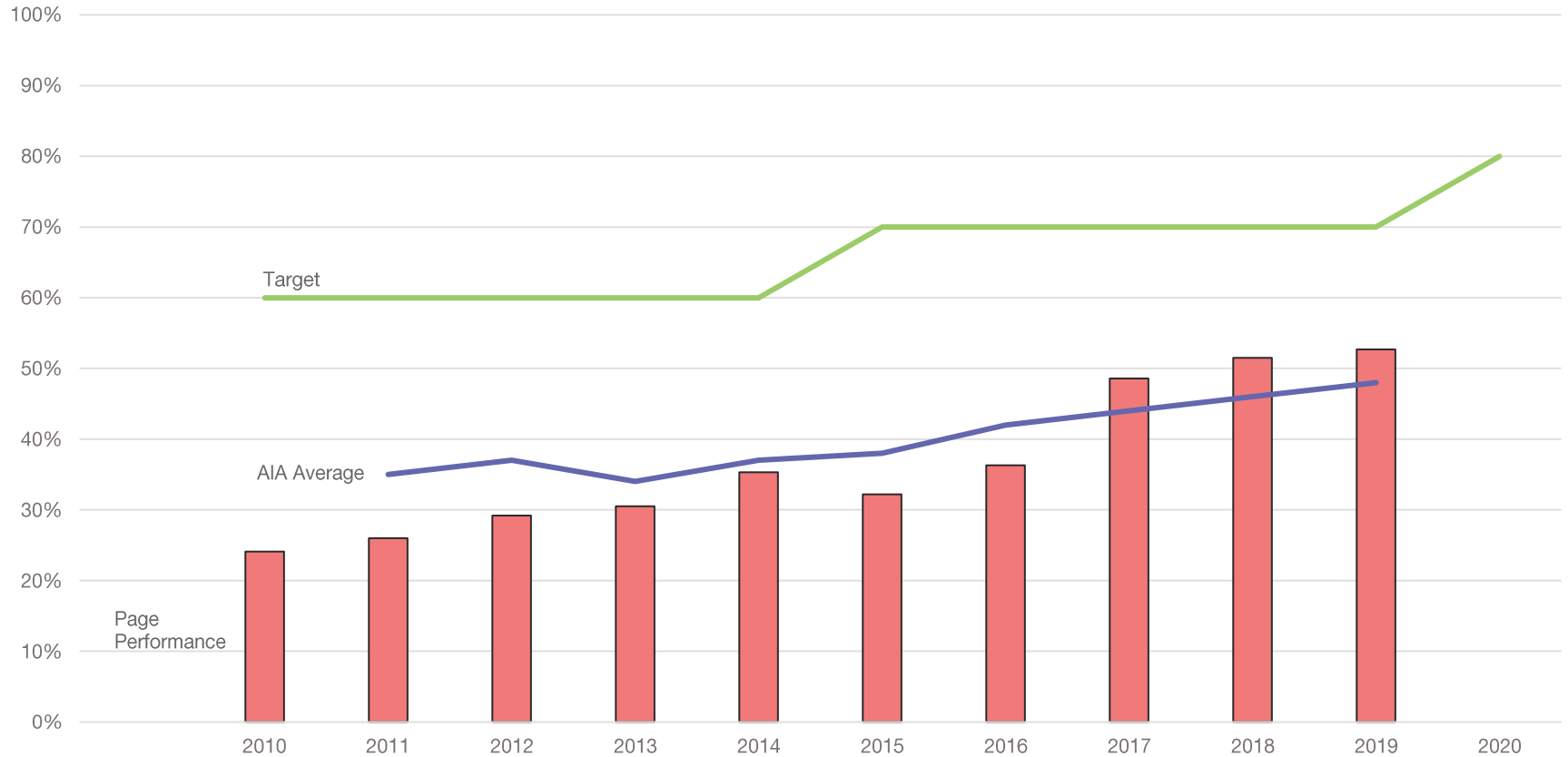


Projects reported in 2019 by office and % reported



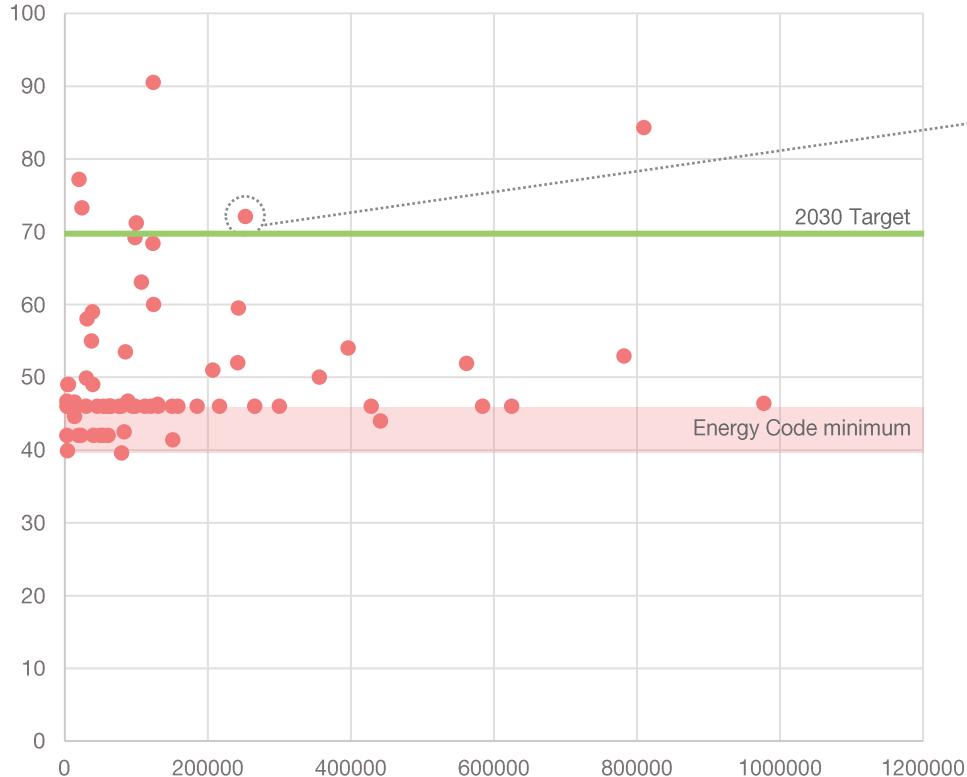
PERFORMANCE AIA 2030 Reporting

% EUI Reduction by year



PERFORMANCE Page Projects that meet 2030 Commitment, 2019

% PEUI reduction by building area



Austin Energy / Austin, TX

Project is tracking:
LEED Platinum, WELL Gold, AEGB 5 stars

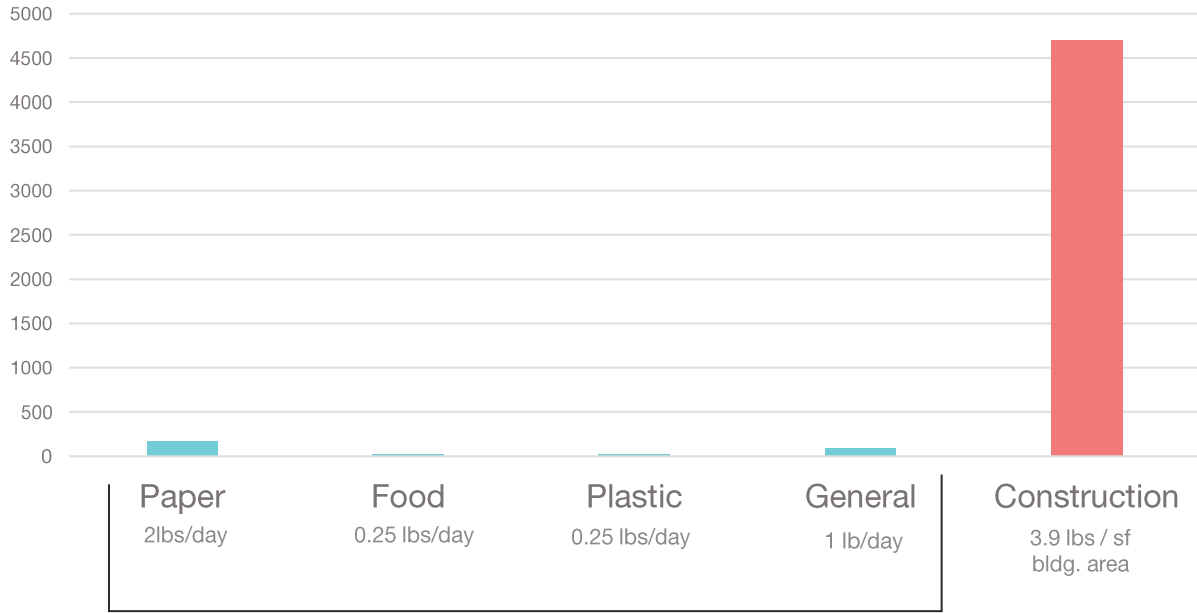
Austin Energy is located in the Mueller development and consists of 300,000 SF of office space, including a generous common area at the ground floor dedicated to customer service and amenities like a café and patio for the public. The new corporate headquarters for Austin Energy will aim to achieve WELL certification an Austin Energy Green Building 5-star rating and will serve as a demonstration project for the latest sustainability and energy efficiency strategies.

Waste Tracking



WASTE Page Priorities

Tons by waste stream



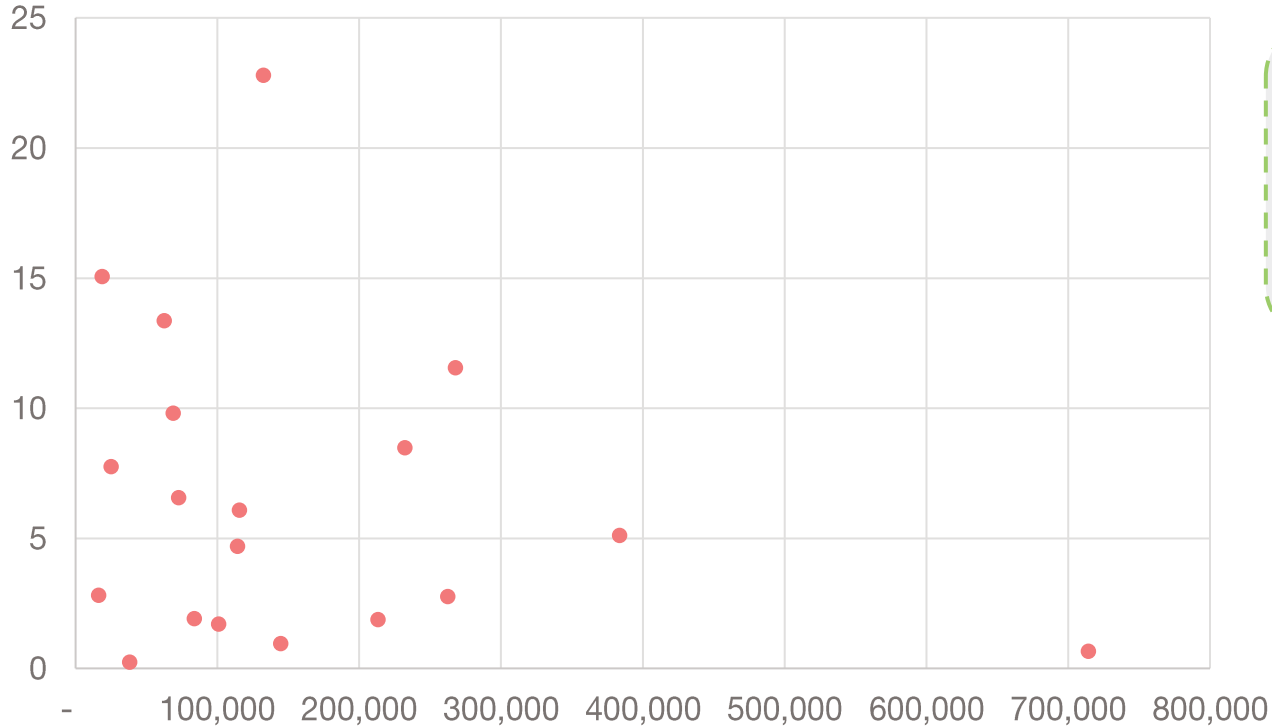
Estimate of operational waste at Page

Estimate of construction waste from Page projects

While it's important to reduce our organization's operation waste, our company's primary impact on waste streams is on the buildings we design. We primarily track waste reduction of our construction waste.

WASTE Page Project Averages

Lbs of waste / sf by building size



90%
average construction
waste reduction on
LEED projects

Water Tracking



WATER Page Project Averages

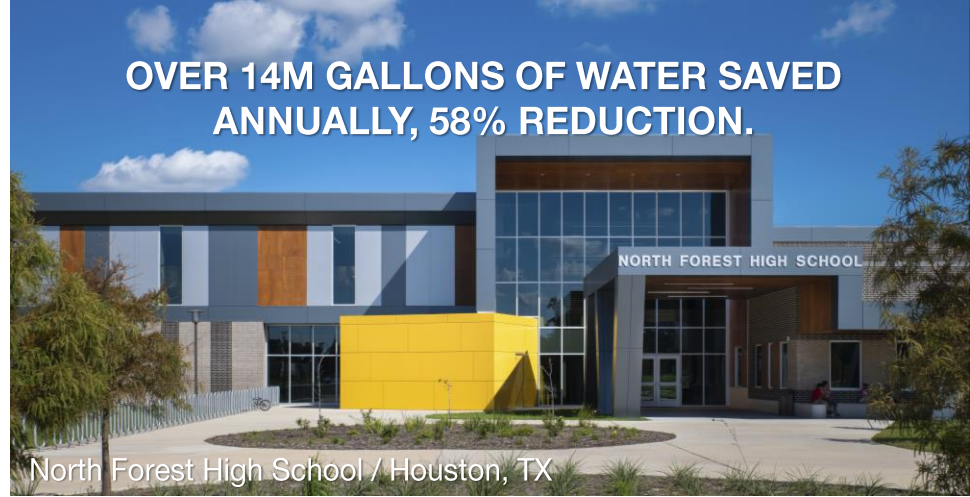
57%

Average water use reduction (indoor & outdoor) for LEED projects

1.7M

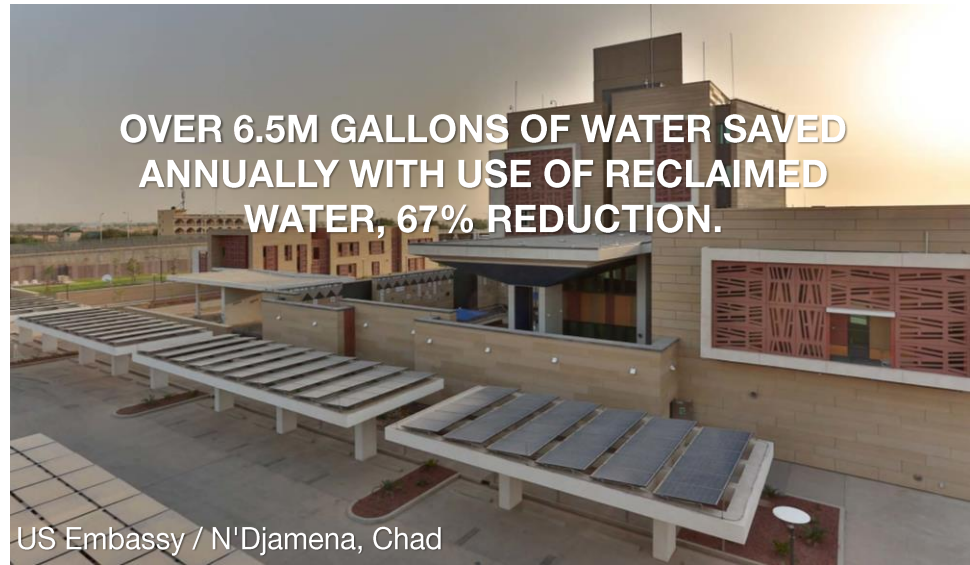
Gallons average annual water saved per LEED projects

**OVER 14M GALLONS OF WATER SAVED
ANNUALLY, 58% REDUCTION.**



North Forest High School / Houston, TX

**OVER 6.5M GALLONS OF WATER SAVED
ANNUALLY WITH USE OF RECLAIMED
WATER, 67% REDUCTION.**



US Embassy / N'Djamena, Chad



Page

Page

Page

Page Green
Operations Education

03

WASTE Examples of how Page manages waste Firm-wide



White Paper



Mixed Paper



Corrugated Cardboard



Aluminum Cans



Plastic Bottles

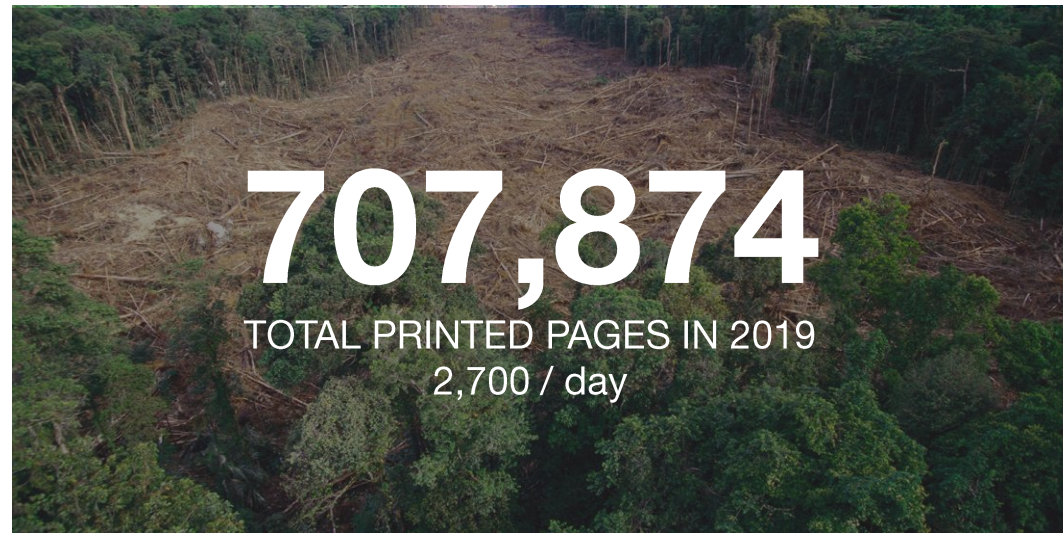


WASTE Examples of how Page manages waste Firm-wide

We want to reduce one-time use consumables, such as:

- Paper cups/plates
- Plastic utensils
- Styrofoam

We want to advocate paper-free/digital submissions, when possible.





Sustainability
Achievements

04

PERFORMANCE Building Performance Certifications

LEED

107

certified projects

51

registered projects in
process of certification

AEGB

19

certified projects

12

registered projects in
process of certification

Net Zero

3

net zero projects

90

rated projects

Energy Star

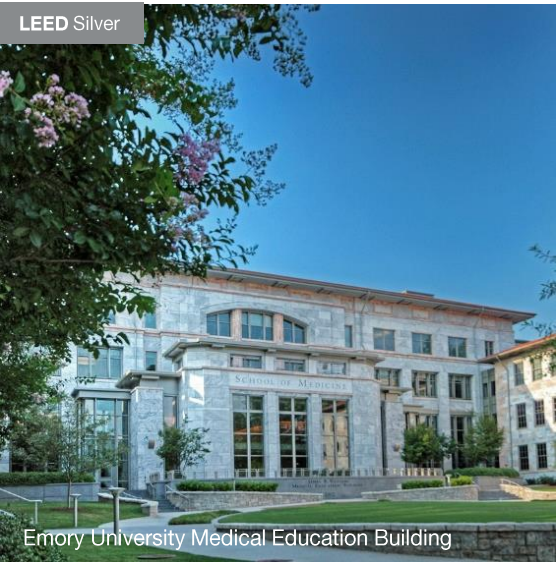


LEED Gold



The University of Texas Dell Medical School

LEED Silver



Emory University Medical Education Building

LEED Gold



Johns Hopkins University Malone Hall

Academic & Health LEED Certified Projects (Silver and Higher)

Projects	Location	LEED Platinum	LEED Gold	LEED Silver
Austin College IDEA Center	Sherman, Texas	○	●	○
Baylor Medical Center at Uptown	Dallas, Texas	○	○	●
Baylor Scott & White Medical Center Lakeway Regional Medical Center	Lakeway, Texas	○	○	●
Balimo Americas	Danbury, Connecticut	○	●	○
Belmont University Wedgewood Academic Center	Nashville, Tennessee	●	○	○
Colorado School of Mines Residence and Dining Hall	Golden, Colorado	○	○	●
Colorado University Alpine Valley San Juan House	Colorado Springs, Colorado	○	●	○
Colorado University UCCS Roaring Fork	Colorado Springs, Colorado	○	●	○
Cornell University Martha Van Rensselaer Building Rehabilitation	Ithaca, New York	●	○	○
Duke University School of Medicine Trent Semans Center for Health Education	Durham, North Carolina	○	●	○
Eastern Connecticut State University New Science Building	Willimantic, Connecticut	○	○	●
Emory University Candler Library	Atlanta, Georgia	○	○	●
Emory University Medical Education Building	Atlanta, Georgia	○	○	●
Emory University Rollins School of Public Health	Atlanta, Georgia	○	○	●
Fairfield Green Residential Complex	Norwalk, Connecticut	○	○	●
Fay School Dormitories	Southborough, Massachusetts	○	●	○
Georgia Southern University Biological Sciences Building	Statesboro, Georgia	○	●	○
Houston Independent School District Cunningham Elementary	Houston, Texas	○	●	○
JBG Sedona State	Arlington, Virginia	○	○	○
Johns Hopkins University Malone Hall	Baltimore, Maryland	○	●	○
Massachusetts Institute of Technology AFFOA	Cambridge, Massachusetts	○	●	○
Massachusetts Institute of Technology Seat Grant	Cambridge, Massachusetts	○	○	○
Montclair State University Center for Environmental & Life Sciences	Upper Montclair, New Jersey	○	●	○
Mount Holyoke College New Residence Hall	South Hadley, Massachusetts	○	●	○
Pfizer, Inc. Clinical Research Unit	New Haven, Connecticut	○	○	●
Saint Francis Hospital TEC / Tower Expansion	Tulsa, Oklahoma	○	○	●
Su Clinica Familiar	Brownsville, Texas	○	○	●
University of Georgia College of Pharmacy	Atlanta, Georgia	○	○	●
University of Colorado Colorado Springs Event Center	Colorado Springs, Colorado	○	●	○
University of Houston Cougar Woods Dining Hall	Houston, Texas	○	○	●
University of New York at Buffalo New School of Pharmacy & Pharmacy Sciences	Buffalo, New York	○	●	○
University of New York at Buffalo New Technology Building	Buffalo, New York	○	○	○
University of Texas Administration Replacement Building	Austin, Texas	○	○	●
University of Texas Bioengineering and Science Building	Richardson, Texas	○	●	○
University of Texas Dell Medical School B: Health Discovery Building	Austin, Texas	○	○	○
University of Texas Dell Medical School C: Health Transformation Building	Austin, Texas	○	●	○
University of Texas Dell Medical School D: Health Learning Building	Austin, Texas	○	○	●
University of Texas Engineering Research Building	Arlington, Texas	○	○	○
Veterans Affairs Birmingham Outpatient Clinic	Birmingham, Alabama	○	○	●

AIA 2030 COMMITMENT



INDUSTRY Leadership

110

LEED
accredited professionals

30

LEED
green associates

1

SITES
accredited professional

5

WELL
accredited professionals



Jill Kurtz, Page Building Sciences Director, led development of Countdown on Carbon guide which was adopted as a AIA Large Firm Round Table policy and published in Architect magazine in April 2020.

Presented at the inaugural Carbon Positive Conference in Los Angeles, March 2020.

The cover page of the "Countdown on Carbon" guide. It features a dark background with white and green text. The title "COUNTDOWN ON CARBON" is prominent at the top. Below the title, there is a circular chart showing "Global CO2 Emissions by Sector" and a list of five key impact areas. The page is filled with text and icons related to carbon reduction and climate action.

COUNTDOWN ON CARBON

A mandate for the design profession
Presented and adopted by the Large Firm Round Table, October 2019

The American Institute of Architects Board of Directors committed to an ambitious climate agenda in September 2019. Proposed through a member-led resolution at the 2019 convention, this landmark initiative defines immediate and long-term obligations of the architectural profession to stand against climate change. The next few years will result in a paradigm shift of our industry, practice, and responsibility as we respond to climate change.

Increased levels of greenhouse gas ("carbon") emissions are tied to shifts in short- and long-term weather/climate conditions that have a direct impact on our clients, buildings, cities and communities. Building energy use generated from fossil fuels accounts for 28% of global carbon emissions. While we work to reduce these with higher performing buildings, we are only addressing part of the carbon-reduction challenge. "Embodied" carbon emissions associated with construction materials account for 11% of global emissions, of which the majority are from concrete, steel and aluminum. Over the next 10 years, 80-90% of the carbon emitted from new construction structures will be from embodied carbon. Overall, building energy sources & their materials are estimated to impact around 39% of global emissions.*

Global CO₂ Emissions by Sector
Source: 2018 Global ABC Report 6.4

Sector	Percentage
Other	4%
Transportation	23%
Industry/Other	32%
Building Operations	28%
Industry/Construction Materials	11%

Carbon and climate planning represent a profitable and ecological leadership opportunity for our firms and our communities.

Firms that do not take a more active role in climate action are exposing themselves to undue risk.

According to Architecture 2030, between 2015 and 2040, 2 billion square feet of buildings will be built. 45% will have projects over the next 10 years which represents an enormous business opportunity as clients and cities move toward voluntary 2030 targets. Many of our clients are already taking steps to address climate change within their organizations. They are looking to us to connect their corporate commitments to their built environments. Architects, engineers, and planners influence five key impact areas:

- Building Energy Efficiency
- Energy Sources
- Building Materials
- Urban Planning
- Firm Operations

Seventeen states, which make up 47% of the U.S. economy, have signed the U.S. Climate Alliance Agreement with the aim to reduce emissions by 26-28% by 2025. Many cities have carbon and net zero legislation in place or in the works, and we are anticipating wider-scale climate change legislation in the AIA code report as we move towards 2030. The AIA Code of Ethics[®] was updated in 2018 to include mandatory action fulfilling professional obligations to the environment.

Make an impact.








1. Sign on to the AIA 2030 Commitment, fully report, and achieve its goals.**
2. Account for climate action in your next strategic plan.
3. Advocate and design for building reuse.
4. Include embodied carbon as a key factor when selecting materials.
5. Support carbon education within your firm, academia, and professional networks.

*Source: Global Warming Solutions Institute, 2018. **Source: AIA 2030 Commitment, 2019.

INDUSTRY Acknowledgement

GREEN BUSINESS LEADER SCORECARD



	Communication & Outreach	16 out of 18
	Resource Management	15 out of 22
	Water	14 out of 27
	Energy	19 out of 27
	Healthy Work Environment	19 out of 22
	Transportation	11 out of 22
	Community Stewardship	14 out of 22