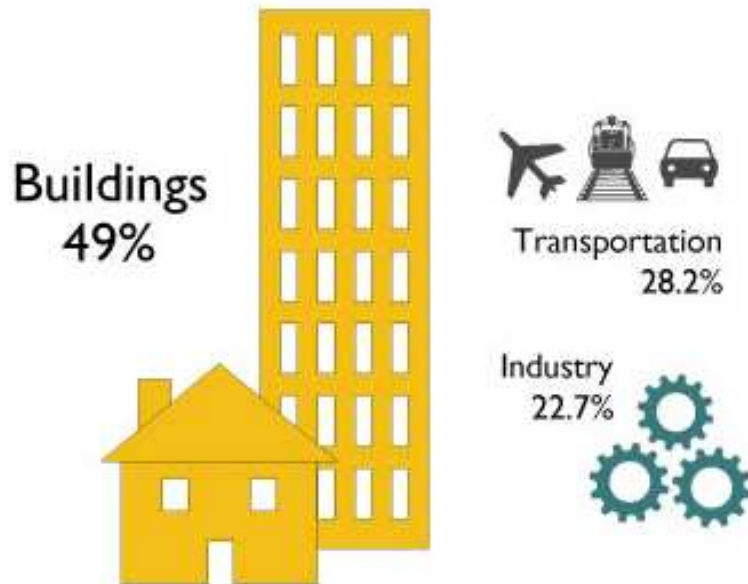


AIA **2030** Commitment

Reducing Energy Use:

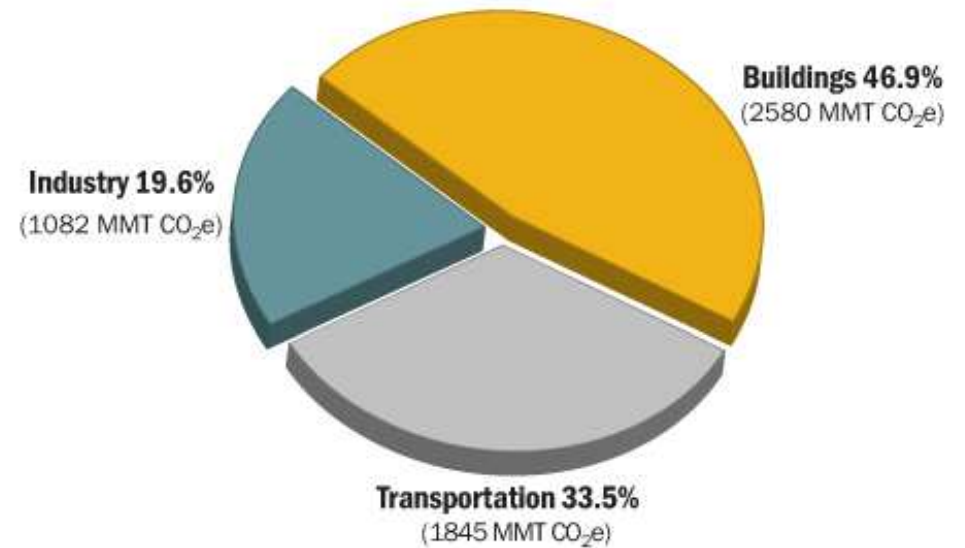
Meeting the 2030 Challenge and other Initiatives

Why should architects focus on energy?



U.S. Energy Consumption by Sector

Source: ©2010 2030, Inc. / Architecture 2030. All Rights Reserved.
Data Source: U.S. Energy Information Administration (2009)



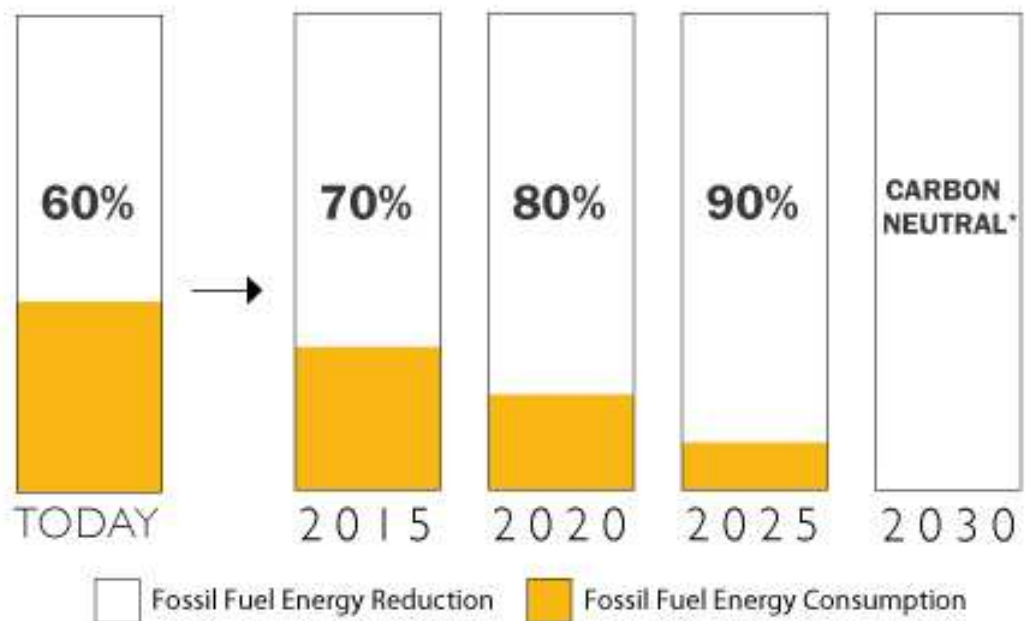
U.S. CO₂ Emissions by Sector

Source: ©2010 2030, Inc. / Architecture 2030. All Rights Reserved.
Data Source: U.S. Energy Information Administration (2009)

“Architects need to accept responsibility for their role in creating the built environment and, consequently, believe we must alter our profession’s actions and encourage our clients and the entire design and construction industry to join with us to change the course of the planet’s future.”

AIA Sustainable Architectural Practice Position Statement

December 2005



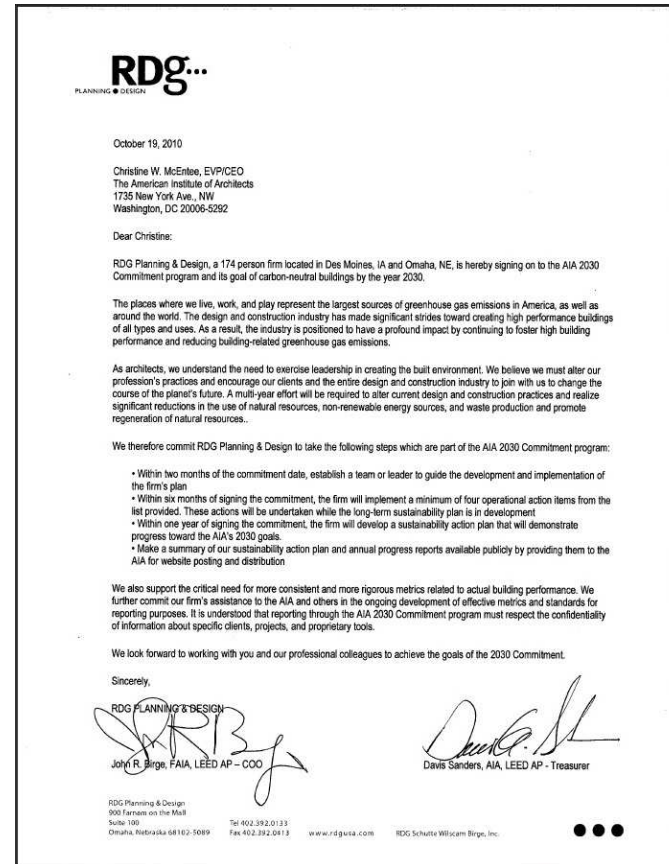
The 2030 Challenge

Source: ©2010 2030, Inc. / Architecture 2030. All Rights Reserved.
 *Using no fossil fuel GHG-emitting energy to operate.

What is the AIA 2030 Commitment?

...we commit to take the following steps in recognition of this AIA 2030 Commitment:

- Establish Sustainability Leadership
- Implement Operational Action Items
- Develop Sustainability Action Plan
- Report Annual Progress



Implement Operations Action Items

Implement a minimum of four action items related to firm operations

Office Energy Use

- Calculate firm/office baseline energy intensity
- Energy Star rated equipment and appliances
- Replacement of incandescent lamps with fluorescent

Waste Reduction and Supplies

- Reduce paper consumption by using electronic documents
- Institute a recycling policy
- Purchase environmentally friendly cleaning supplies

Transportation

- Incentives for employees who ride share, walk, or bike
- Establish a policy for offsetting business travel
- Fuel efficient rental cars encouraged for business travel

Meeting Procedures

- Paperless technology for agendas, handouts, and presentations
- Encourage virtual meetings when possible

Develop Sustainability Action Plan

Develop a sustainability action plan that will demonstrate success toward the 2030 goals.

Sustainable Operations

Set sustainable operations goals aimed at reducing the negative impact of firm operations

Set Sustainable Design Goals

Design projects to reduce the amount of fossil-fuel based energy used to align with 2030 goals regardless of whether required by client

Institute Staff Training and Education

Ensure staff is invested in the firm's sustainable design goals and can contribute to the success

Develop a Business Strategy

Communicate why a sustainable design approach is important and why the firm is qualified

STATEMENT OF INTENT

Boston
Baltimore
Buffalo
Calgary
Chicago
Houston
Los Angeles
Mumbai
New York
Phoenix
San Francisco
Shanghai
St. Louis
Toronto
Vancouver
Victoria
Washington DC



Cannon Design is committed to environmental leadership in our project work and our business practices. As architects, engineers and builders we are responsible for the built environment. This responsibility extends to both sides of our threshold – to our clients, and to ourselves.

The Cannon Design Sustainable Operations Guideline is a compilation of best-of-class policies and business practices composed from a wide variety of sources; the Natural Resources Defense Council (NRDC), Global Stewards, the U.S. Environmental Protection Agency (EPA), and policies already in place within Cannon Design offices. These practices address key environmental issues like energy consumption, carbon impacts, resource conservation, indoor environmental quality, water use, and extend from our practices to our vendors and suppliers.

This is a living doc; as practices are implemented, this will be updated and

SUSTAINABLE DESIGN PROCESS

OUR GOALS

Callison's goal is to energy model every project and to bring our projects in line with Architecture 2030 energy consumption targets. We do not stop with resource reductions, however; we strive for compellingly thoughtful and beautiful design, responsive to climate, site and client. In our process we seek to make building energy and water use performance form-giving criteria for all projects we design. In our efforts to reach these goals we have committed to expand our energy modeling and sustainable design review program on the following time table:

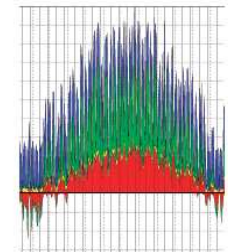
- NOW: Minimum of every project over 1,000,000sf
- By June of 2011: Minimum of every project over 500,000sf
- By June of 2012: Minimum of every project over 250,000sf
- By June of 2013: Minimum of every new construction project

As we expand our energy modeling program we are creating a growing database of energy statistics for each of our market regions, allowing us to further refine our energy modeling procedures and evaluate the effectiveness of various strategies in different areas of the world. Over time energy modeling will also become ingrained in the Callison design process and culture. We also encourage our clients to monitor actual energy use to allow us to verify the accuracy of our models. We strive to deliver the best possible product to our clients through the use of performance driven, state of the art design that responds to climatic, cultural, and environmental parameters.

We also commit to expand and refine our existing database of sustainable design projects with the goal of tracking energy, water, waste, air quality, and materials performance on all projects.



Hanoi, Vietnam, Mixed Use Tower - Sky Gardens



Passive Thermal Gains Analysis

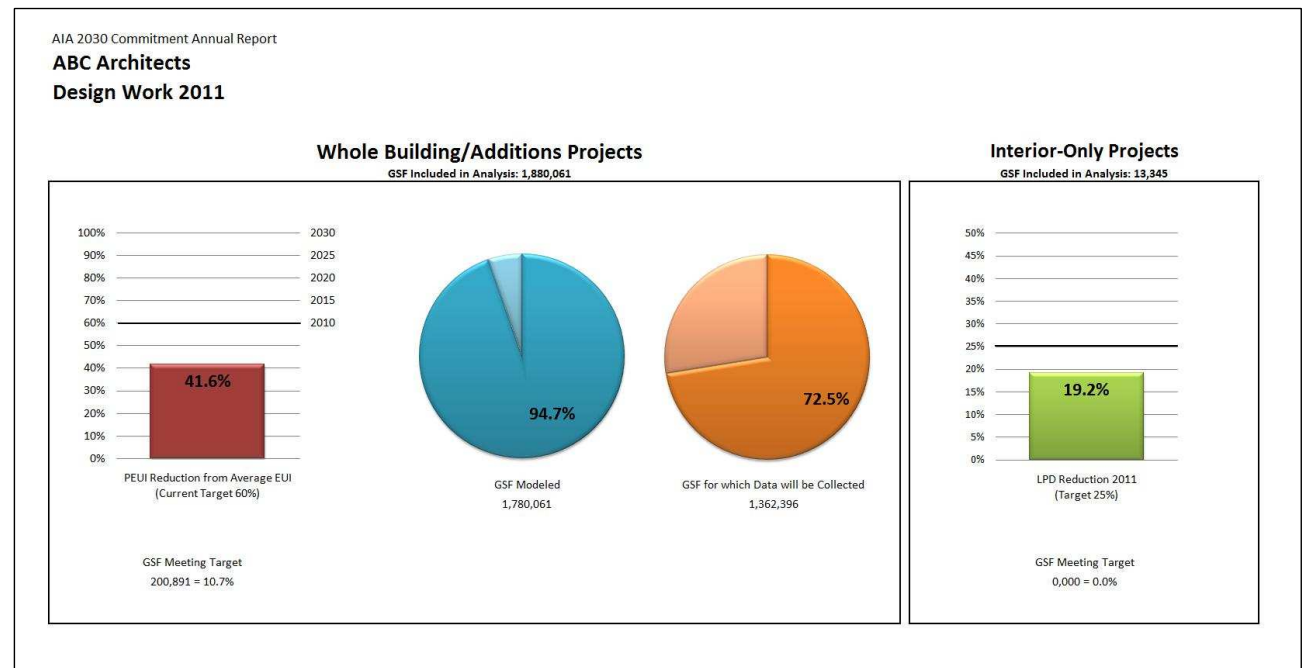


Report Progress

Report progress toward goals and share publicly

Compile basic project info:

- Project identifier (internal)
- Gross Square Feet
- Building Occupancy Type
- Is the project modeled?
- EUI from Modeled Projects
- Design Energy Code for Non-Modeled Projects
- Lighting Power Density



AIA 2030 Commitment Reporting Tool

Mixed-Use Calculator

Internal Progress Analysis

Frequently Asked Questions

Worksheet Input Guide

References

Report

Worksheet for Multiple Offices

Worksheet

AIA 2030 Commitment Reporting Tool - DESIGN YEAR 2011

Getting Started

AIA 2030 Commitment Reporting Tool, Version 2011.1 © American Institute of Architects 2011. Revised October 20, 2011.

This file is a collaborative work product of many AIA member firms. Key participants include an AIA Chicago Chapter Working Group, An AIA National COTE Working Group and individuals from many other member firms. This file is intended to be shared with AIA member firms for reporting required by the AIA 2030 Commitment. This file is not intended for individual distribution and publication.

Intent

This tool generates a report which is intended to provide your firm and the AIA with a snapshot of how your firm's design work is progressing toward the 2030 targets. Several aspects of the AIA 2030 Commitment are incorporated into this tool, including predicted energy use, project modeling and intent to collect actual use data. The activities of collecting project data and analyzing report outputs is intended to drive the topic of energy performance to the front of design considerations for all projects.

Steps

There are four steps to reporting your firm's design work progress toward the 2030 goals:

AIA 2030 Commitment Report

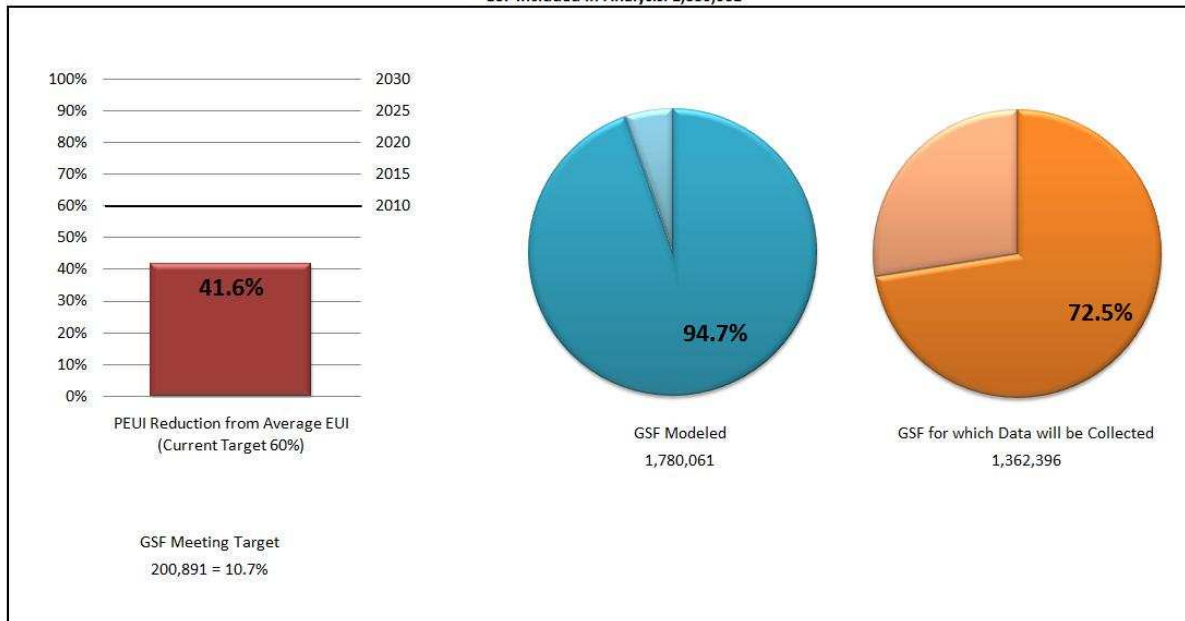
AIA 2030 Commitment Annual Report

ABC Architects

Design Work 2011

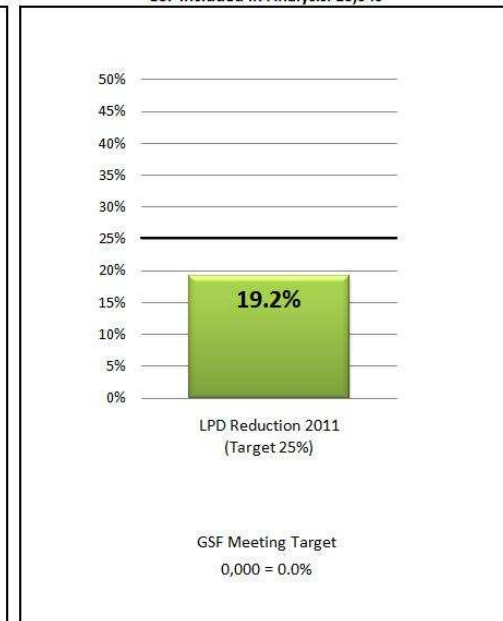
Whole Building/Additions Projects

GSF Included in Analysis: 1,880,061



Interior-Only Projects

GSF Included in Analysis: 13,345



AIA 2030 Commitment: National Reporting

AIA released the first annual report in May 2011:
'Measuring Industry Progress Toward 2030'

Out of the 125 firms expected to report,
56 reported

To view full report:

<http://www.aia.org/2030commitment>

