



# ARCHITECTURE 2030

## What is the AIA+2030 Program?

**AIA+2030** gives design professionals the knowledge and leverage to create next-generation, super-efficient buildings—and provide firms with the skills that will set them apart in the marketplace. The **AIA+2030** program was launched in Seattle in 2009, and has been extremely successful. The **AIA+2030 Professional Series™** is a comprehensive, ground-breaking curriculum that includes ten, 4-hour sessions teaching strategies to reach 60% reduction in fossil fuel greenhouse gas emissions (GHG). **Architecture 2030** is an independent, non-profit, non-partisan research organization that trains green-collar workers in the architecture and engineering fields to design buildings that use **60% less energy**.

## The Goals

Buildings produce almost half of US greenhouse gas emissions. In fact, US buildings are responsible for 10% of total greenhouse gas emissions. Buildings are an important part of the climate change solution. Training architects and engineers to significantly reduce the energy use of their buildings is a critical step on the path towards energy independence and climate change reduction.

AIA's architect members are serious about climate change solutions. AIA Seattle's AIA+2030 program is a significant step toward impacting GHG emissions in buildings with proven success in the Seattle area. By franchising the AIA+2030 professional series nationally, AIA Seattle and its partners hope to:

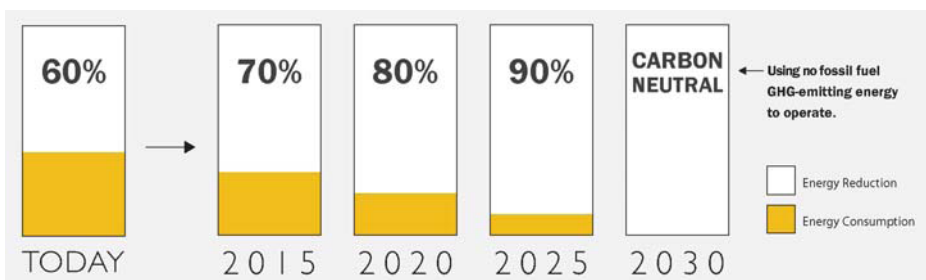
- Impact climate change: give architects and design professionals the tools they need to design for the future of the planet
- Position architects: demonstrate the leadership of the architecture community on energy efficiency and carbon issues
- Support continued R&D: expand AIA+2030 reach and resources to fuel continual improvement

## The 2030 Challenge

In 2006, **Architecture 2030** issued The 2030 Challenge, a measured and achievable strategy to dramatically reduce global Building Sector energy consumption and GHG emissions by the year 2030.

The **2030 Challenge** calls on the global architecture and building community to adopt the following targets:

All new buildings, developments and major renovations shall be designed to meet a fossil fuel, GHG-emitting, energy consumption performance standard of **60% below the regional average** (or country average) for that building type. At a minimum, an equal amount of existing building area shall be renovated annually to meet a fossil fuel, GHG emitting, energy consumption performance standard of 60% below the regional (or country) average for that building type.



These targets may be accomplished by implementing innovative sustainable design strategies, generating on-site renewable power and/or purchasing (20% maximum) renewable energy and/or certified renewable energy credits.



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## The 2030 Challenge & the AIA Commitment

The **2030 Challenge** is a stand-alone commitment specifically focused on lowering building energy consumption and greenhouse gas emissions. Although the **2030 Challenge** is at the core of the **AIA 2030 Commitment**, the Commitment encompasses other issues such as water consumption and indoor air quality requirements, internal environmental policies within a firm with regards to recycling, green product purchasing and energy conservation. Firms that sign on to the AIA 2030 Commitment must document and submit their progress to the AIA.

Those that have signed on to the AIA Commitment, but have not yet become an official adopter of the 2030 Challenge are encouraged to do so because, in order to fulfill the requirements of the AIA 2030 Commitment, building designs must also meet the 2030 Challenge.

Architecture 2030 also encourages firms to sign on to the AIA 2030 Commitment.

## How to Meet the 2030 Challenge

### 1. DESIGN STRATEGIES

*The largest energy reductions can be achieved through design.*

### 2. TECHNOLOGIES AND SYSTEMS

*Including on-site renewable energy systems.*

### 3. OFF-SITE RENEWABLE ENERGY

*20% maximum.*

The 2030 Challenge allows for 20% of the required reduction to come from purchasing renewable energy and/or certified renewable energy credits. Architecture 2030 encourages utility renewable energy and/or renewable energy credits for the remainder of a project's power needs. The 2030 Challenge advocates for "carbon-neutral" buildings by 2030, which is not to be confused with "net zero energy" buildings.

## Distribution

AIA+2030 will be distributed initially to AIA chapters, which will then produce their own professional series classes. Additionally, AIA Seattle will explore web-based learning and an intensive class to offer to professionals unable to access the curriculum in other ways.

## Background

The American Institute of Architects (AIA) serves as the voice of the architecture profession and the resource for our members in service to society. AIA Seattle provides the architectural community with resources and relationships to make a difference through design. Architecture 2030 works to rapidly transform the US and global Building Sector from the major contributor of greenhouse gas emissions to a central part of the solution to the global-warming crisis. BetterBricks, an initiative of the Northwest Energy Efficiency Alliance, advocates for changes to energy-related business practices in Northwest buildings.