AIA Los Angeles

Design Awards Requirements | 2024

Design Awards Submission Clinic

AIA Los Angeles

Anthony Brower, FAIA - Global Director, Climate Action & Sustainability, Gensler
George Reilley, Honorary AIA LA - Principal, Regional Discipline Leader West Coast MEP, Buro Happold
Casey Castor, Associate & Director of Sustainability, GGA+
Ismar Enriquez, Design Lead & Project Manager, GGA+

Contact & Support:
aia.cote.losangeles@gmail.com

Agenda

01
Design Awards Requirements

02
Becoming a 2030 Signatory

Eligibility

03
Developing an Action Plan

04
Project Submission

Documentation

AIA Los Angeles

SUSTAINABILITY RELATED REQUIREMENTS

All firms submitting to the design awards will again be required to submit proof of being a 2030 Commitment signatory. Built project entries will require a narrative of the project's sustainable features, energy calculations, and proof of being submitted to the AIA 2030DDx platform. If your firm has not yet signed onto the 2030 Commitment, we suggest you start now. You can sign on here: https://2030ddx.aia.org/account/login. All projects pursuing an Honor Award must achieve the following:

Same requirements from past years:

- Demonstrate water conservation through 100% Local Planting (xeriscaping) OR conduct a full Material Lifecycle Assessment (LCA) to analyze embodied carbon.
- For Built Interiors & Single/Multi-Family Residential Submissions not meeting one of the two above criteria, must improve interior lighting power density by at least 25% below the project's established energy code.

New Requirements, 2024

- 65% p EUI reduction in predicted energy use compared to the national average, similar to Title 24 energy baseline compliance.
- Proof of water savings, OR Proof of carbon analysis such as report summary.

NEW BUILT and NEXT REQUIREMENT: All projects shall include, within their PDF Presentation, a minimum of one slide but no more than 3 slides that highlights the above building energy performance metrics, interior lighting performance metrics, and water or carbon metrics. In addition to this, firms must also highlight a minimum of one additional COTE Top Ten measure located here. https://www.aia.org/design-excellence/aia-framework-design-excellence. Note that these are minimum requirements for the PDF Presentation sustainability focused slide. Teams may include as many additional sustainability measures as possible on that one slide or include sustainability callouts on additional two slides maximum at their discretion.

Architecture 2030

(non-profit organization)

2030 Challenge

(issued by Architecture 2030)

The AIA 2030 Commitment

(a tool to track the challenge)

Architecture 2030

(non-profit organization)

2030 Challenge

(issued by Architecture 2030)

The AIA 2030 Commitment

(a tool to track the challenge)

AIA COTE Top Ten Measures

(enhancing our impact)

Submission
Basics

1

AIA2030 Signatory

Submitting firms are required to be a 2030 signatory to be eligible to submit for **BUILT** and/or **NEXT** submissions

Firms must submit proof of signatory status

Submission
Basics

2
Energy Performance Metrics

Required for **BUILT** projects to be eligible for Honor status

Firms must submit proof of Design Data Exchange (DDx) project upload.

2.1
Projects Without Energy Metrics

BUILT projects Eligible for MERIT or CITATION status only

Submission
Basics

3a
Water Conservation

Project landscaping must include ONLY local plantings without irrigation for all outdoor site improvements

3b
Embodied Carbon

Buildings must have performed a Lifecycle analysis to quantify embodied carbon of building materials

3c
Lighting Power Reduction

Interior projects may choose to demonstrate a minimum of 25% lighting power density below local code

One of these options are required for **BUILT** projects to be eligible for Honor status

Submission
Basics

4a

Show Me the Money

BUILT and **NEXT** (Required for Honor)

Sustainability focused slide (min 1, max 3) that visually highlights the performance measures (energy, water, embodied carbon) in your presentation deck.

Submission Basics

4b

Water Conservation

BUILT and **NEXT** (Required for Honor)

Highlight a minimum of one additional COTE Top Ten measure as defined by the AIA's Framework for Design Excellence

integration equity ecosystems

discovery economy wellbeing

change

energy+ water+ resources+

Submission
Exemptions

1
Cityscapes and Installations

BUILT and **NEXT** submissions for these typologies do not need to provide energy metrics or DDx upload documentation.

2
Interiors

BUILT interior projects have less energy metrics to track, therefore only Lighting Power Density (LPD) is required.

3
No Conditioned Space

BUILT projects without ANY conditioned space are exempt from metrics requirements and will be eligible for HONOR consideration.

Claiming no conditioned space when there is, will be noticed.

Subterfuge may cause jurors to frown upon your submission

We're smart like that.

All submitting firms must be an AIA2030 Signatory

Architecture firms connected with any project submission must be a signatory of the AIA2030 Commitment in order to qualify to submit for an award.

With greater awareness of architecture's significant contribution to climate change comes our responsibility to do something about it. Since 2006, the 2030 Challenge, and the aligned AIA 2030 Commitment, has provided a road map to tracking, understanding and ultimately reducing GHG emissions.

Design Award Submissions
Minimum Requirement

All submitting firms must be an AIA2030 Signatory

If a project includes an executive architect, design architect, and an architect of record, all three firms must be AIA2030 Signatories to be eligible.

Becoming a Signatory is Easy

1

Sign the Commitment Letter

The mission of the AIA2030 Commitment is to support the Architecture 2030 Challenge and transform the practice of architecture in a way that is holistic, firmwide, project-based, and data-driven.

Participating in this program demonstrates your leadership in the industry and puts you on a path of continuous improvement to elevate your practice.

1.1

Sign the Commitment Letter

Buildings account for nearly 40% of greenhouse gas emissions today—but they don't have to. AIA's Design Data Exchange lets AEC professionals easily benchmark their projects against industry averages and track performance on their journey to a carbon neutral future.

Joining the commitment is a three step process

Create a personal Account

1.2

Sign the Commitment Letter

Join or create your firm profile. Multiple users are able to link with your firm profile, which is why it's a separate step from the individual account creation. You can check out AIA's "how to" video here:

How to Join or Create a Company

1.3

Sign the Commitment Letter

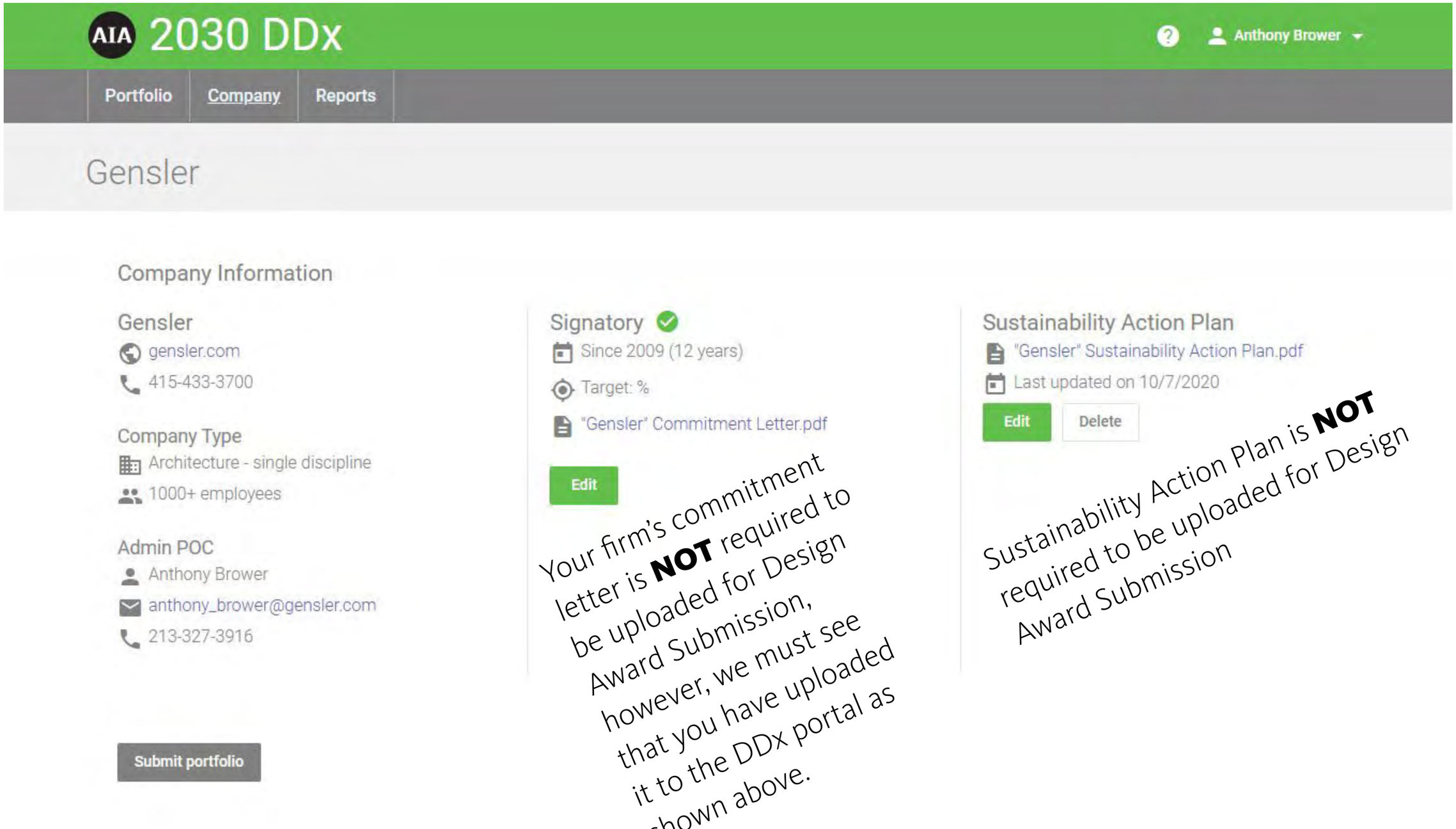
Upload the “Commitment Letter” to your firm profile via the Company tab. AIA provides a template letter which must be updated, signed, and submitted.

This makes you official!

Here’s a help video:

Your Commitment Letter

Example of Firm's AIA2030 Signatory Status



02

Create a Sustainability Action Plan

Not required for Design Award Submissions

Signatories are asked to document a sustainability Action Plan within six months of joining. Some companies may have this type of document on hand, while others may need to start from scratch.

A guide to creating a plan unique to your firm

03

Report Projects in the Design Data Exchange (DDx)

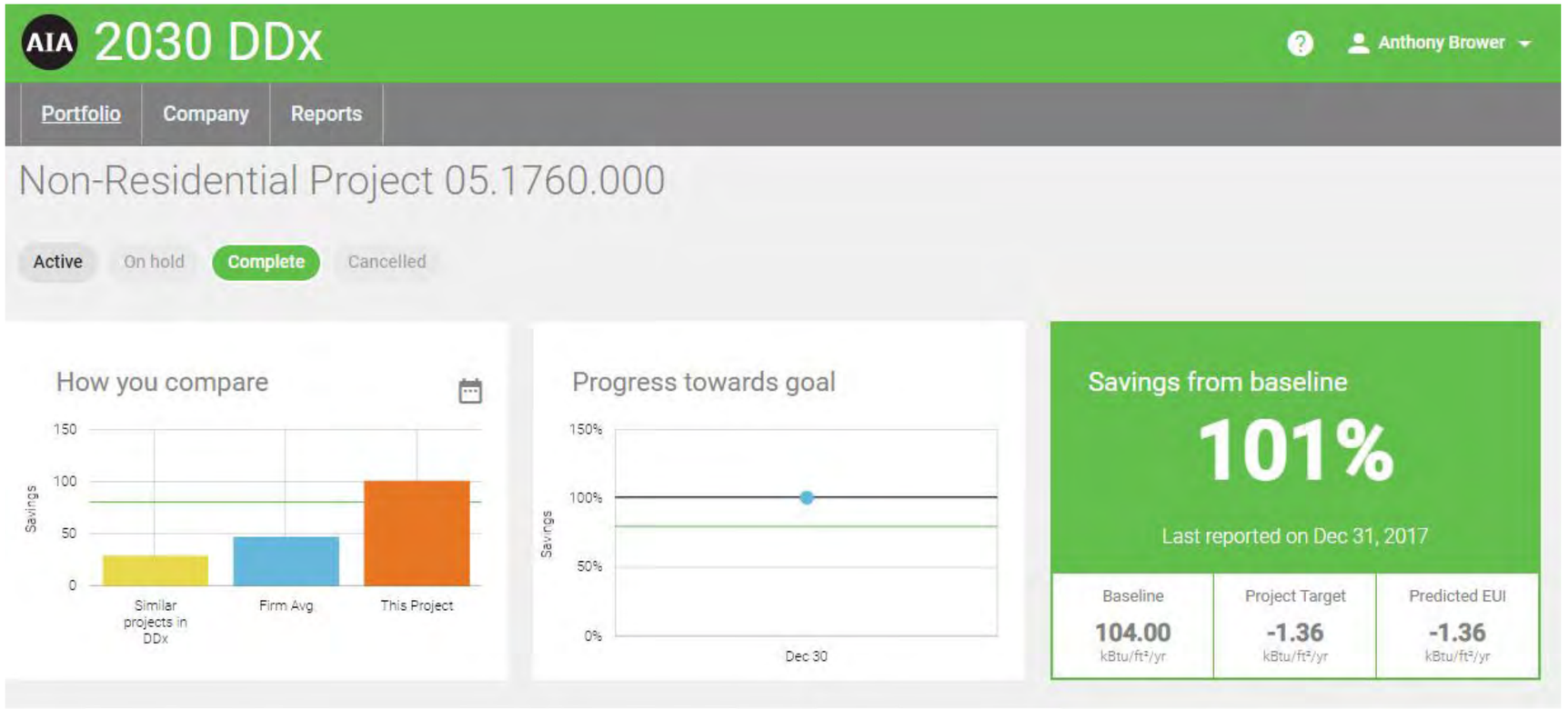
You might look at this process as nothing more than tracking data, and in the beginning that might be the case.

The intent of the DDx platform is to enourage continuous tracking of your projects so that as a design collaborative, we collectively gain a better understanding of the influence that design has on performance.

A designer who is more informed about the impact of decisions will make better choices.

Only **BUILT** project submissions are required to submit proof of DDx upload.

Example of Project's AIA2030 Submission Upload



Project Information

Basic Information

Project name
Non-Residential Project 05.1760.000

Firm project number
05.1760.000

Office/Studio name
Los Angeles

Project status
Complete

Extended Information

Occupancy year
2018

Daily average occupants
N/A

Energy code
California Title 24 2016

Measurement units
IP

Construction cost

Sitework	N/A
Building	N/A
Total	N/A

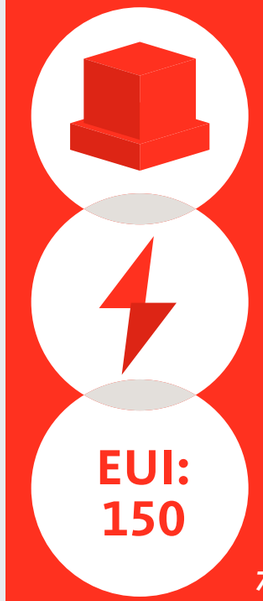
May cost data be used for research?
No

Baseline energy use
104.00 kBtu/ft²/yr
Source: User Defined: Regional Average, Direct Input or Other

01 Buildings

EUI
Energy Use Intensity

EUI is kBtu/sf/year.
This is the standard unit for analyzing actual energy use in buildings, relative to their size. Generally, a lower EUI signifies good energy performance.



For example:
A 50,000 sf building that consumes ...

... 7,500,000 kbtu a year...

... would have an EUI of 150

7,500,000 / 50,000 = 150

EUI Values are NOT to be entered in Time Dependent Valuation (TDV) Format. Provide RAW Estimated Energy Consumption Only that Does Not Include the Cost of Energy.

If your energy metrics provided by the project engineer are significaly higher than the ranges shown on the following page, you may need to clarify this with your engineer.

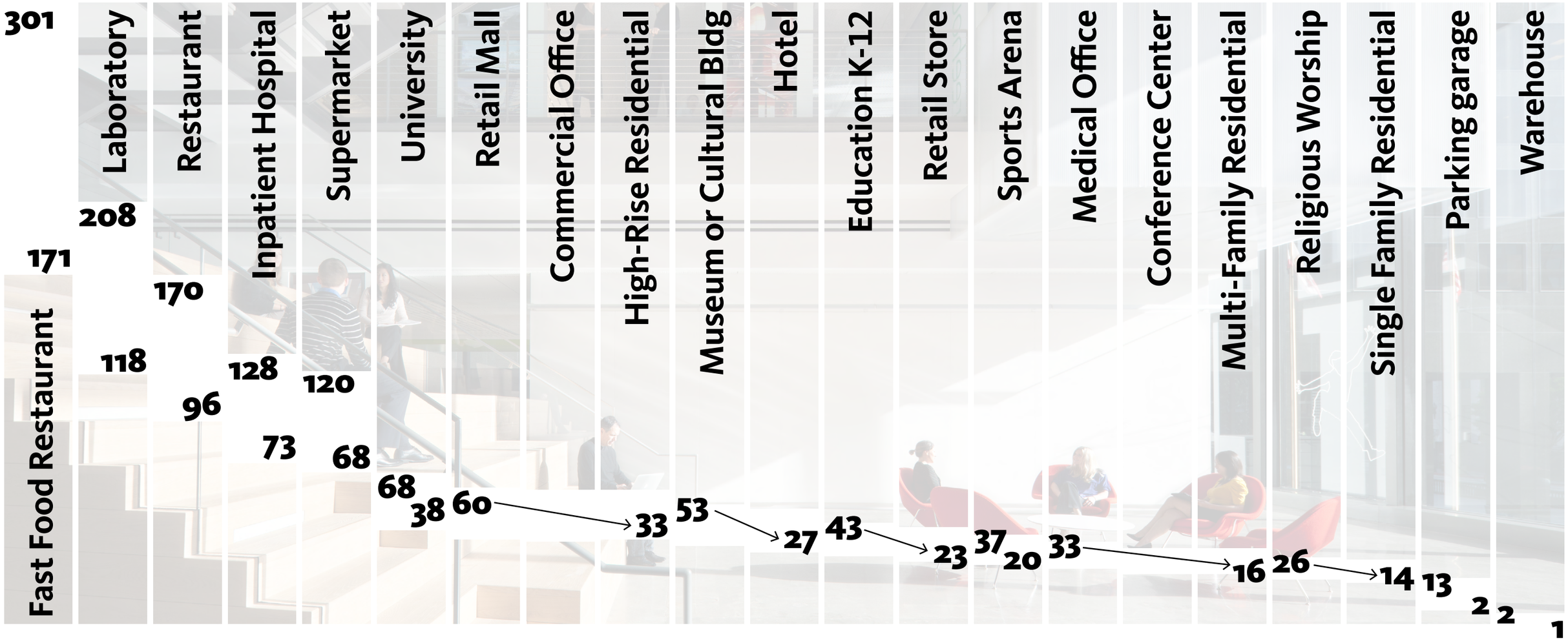
Buildings

Energy Use Intensity (kBtu/sf/yr)

Title-24 Minimum Code Compliance Ranges

This graph shows the approximate range of RAW EUI code compliance values based on project type. For example a Hotel design under Title-24 would have it's code equivalent baseline somwhere between 27 and 53 kBtu/sf/year.

Predicted EUI (pEUI) will always be lower than your Baseline EUI.

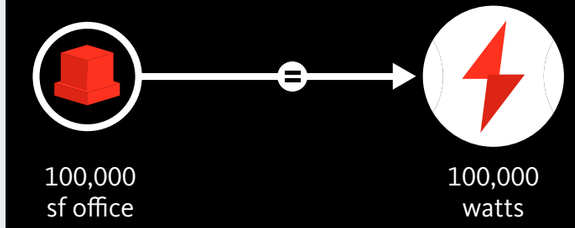


01 Interiors

LPD
Lighting Power Density

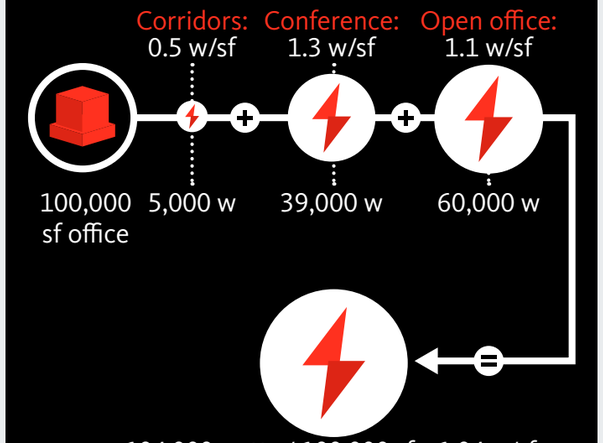
LPD is watts/sf.
The standard measurement for analyzing lighting density across gross building area calculated in one of two ways:

1. Whole building: total wattage divided by gross area.



100,000 watts / 100,000 sf = 1.0 w/sf

2. Space by space: allows tradeoffs within space types to provide more light where focus work occurs.



104,000 watts / 100,000 sf = 1.04 w/sf

EUI Values are NOT required for Interior Only Projects.

Interiors

Lighting Power Density (w/sf)

Title-24 2020

0.13 Parking

0.4 Other Spaces

0.6 Industrial
Manufacturing

0.65 Office
Sports
School
Gymnasium
Financial

0.7 Library
Assembly
Restaurant
Media Studio
Religious
Residential

0.8 Performing
Arts

0.9 Retail
Healthcare

0.95 Grocery

Residential projects are required to calculate lighting power density

Regardless of required by code or not.
Sum wattage for all installed lighting;
Make a selection, and add wattage, for all switched outlets as lamp fixtures;
Divide total watts by total sf.

Beyond Design Awards

Maximum allowable design EUI:

35 kBtu/sf/yr

This is now part of selected clients' RFP qualification process. No projects can be shown in proposals that do not meet their target. Firms that have no projects at or below this value, or do not have the metrics, simply do not qualify to bid on their projects.

LCA Report

Share gwp reductions

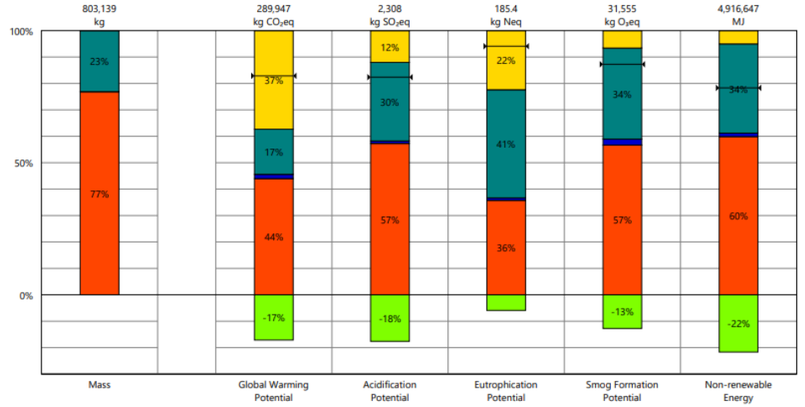
Environmental Impact Totals	Product Stage [A1-A3]	Construction Stage [A4]	Use Stage [B2-B5]	End of Life Stage [C2-C4]	Module D [D]
Global Warming (kg CO_2eq)	127,532	4,647	49,612	108,155	-49,632
Acidification (kg SO_2eq)	1,322	21.54	686.5	277.7	-407
Eutrophication (kg Neq)	66.28	1.753	75.85	41.49	-11.0
Smog Formation (kg O_3eq)	17,893	711.6	10,870	2,082	-4,018
Ozone Depletion (kg CFC-11eq)	0.001368	1.592E-010	3.772E-004	3.166E-009	2.112E-004
Primary Energy (MJ)	4,408,864	67,584	2,854,953	264,042	-1,566,343
Non-renewable Energy (MJ)	2,943,849	65,967	1,659,800	247,030	-1,065,806
Renewable Energy (MJ)	1,462,215	1,634	1,196,078	17,240	-499,843
Environmental Impacts / Area					
Global Warming (kg CO_2eq/m^2)	157.3	5.734	61.21	133.4	-61.2
Acidification (kg SO_2eq/m^2)	1.632	0.02657	0.8469	0.3426	-0.5017
Eutrophication (kg Neq/m^2)	0.08177	0.002163	0.09357	0.05118	-0.01351
Smog Formation (kg O_3eq/m^2)	22.07	0.8779	13.41	2.568	-4.96
Ozone Depletion (kg CFC-11eq/m^2)	1.687E-006	1.964E-013	4.654E-007	3.906E-012	2.605E-007
Primary Energy (MJ/m^2)	5,439	83.38	3,522	325.7	-1,932
Non-renewable Energy (MJ/m^2)	3,632	81.38	2,048	304.8	-1,315
Renewable Energy (MJ/m^2)	1,804	2.016	1,476	21.27	-617

VILLA ESPERANZA SERVICES

7/19/2022

Full building summary

Results per Life Cycle Stage

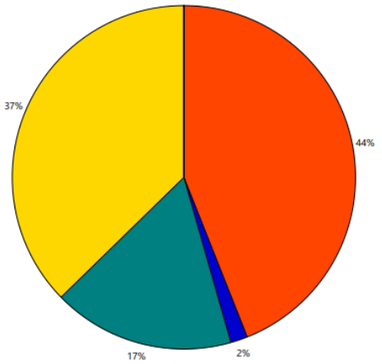


Legend

Net value (impacts + credits)

Life Cycle Stages

- Product [A1-A3]
- Transportation [A4]
- Maintenance and Replacement [B2-B5]
- End of Life [C2-C4]
- Module D [D]



Global Warming Potential

Water Savings Report

Non - Residential

HYDROZONE INFORMATION MATRIX									
Hydrozone Number	Station Number	Area (sq. ft.)	Percent of Area	Description / Plant Type	Plant Factor (WUCOLS)	Irrigation Type	Zone Flow (GPM)	Precipitation Rate (in./hr.)	Zone Pressure
1	23	570	6.6%	Parkway Planters	Low	Drip Line	4	0.64	20 psi
Trees	24	0	0.0%	Supplemenal Tree Bubblers	Low/Med	Bubbler	3	3.00	20 psi
1	25	1,335	15.4%	Parkway Planters	Low	Drip Line	9	0.64	20 psi
Trees	26	0	0.0%	Supplemenal Tree Bubblers	Low/Med	Bubbler	8	3.00	20 psi
1	27	1,390	16.1%	Parkway Planters	Low	Drip Line	9	0.64	20 psi
2	28	1,065	12.3%	Planters Around Buildings	Low	Drip Line	8	0.64	20 psi
2	29	610	7.0%	Planters Around Buildings	Low	Drip Line	5	0.64	20 psi
Trees	30	0	0.0%	Supplemenal Tree Bubblers	Low/Med	Bubbler	6	3.00	20 psi
2	31	785	9.1%	Planters Around Buildings	Low	Drip Line	6	0.64	20 psi
Trees	32	0	0.0%	Supplemenal Tree Bubblers	Low/Med	Bubbler	5	3.00	20 psi
2	33	1,035	12.0%	Planters Around Buildings	Low	Drip Line	7	0.64	20 psi
Trees	34	0	0.0%	Supplemenal Tree Bubblers	Low/Med	Bubbler	6	3.00	20 psi
2	35	495	5.7%	Planters Around Buildings	Low	Drip Line	4	0.64	20 psi
2	36	605	7.0%	Planters Around Buildings	Low	Drip Line	4	0.64	20 psi
2	37	15	0.2%	Planters Around Buildings	Low	Drip Line	1	0.64	20 psi
2	38	520	6.0%	Planters Around Buildings	Low	Drip Line	4	0.64	20 psi
Trees	39	0	0.0%	Supplemenal Tree Bubblers	Low/Med	Bubbler	8	3.00	20 psi
2	40	235	2.7%	Planters Around Buildings	Low	Drip Line	2	0.64	20 psi
	TOTAL =	8,660	100.0%			Peak Flow =	9		

MWELO - WATER EFFICIENT LANDSCAPE WORKSHEET : NON-RESIDENTIAL (NO SLA) - **ETAF = 0.45**							
Reference Evapotranspiration (ETo)		50.1	(LOS ANGELES)		MAWA = Eto X 0.62 X (**0.45** X LA)		
Hydrozone Number	Plant Factor (PF)	Irrigation Method	Irrigation Efficiency (IE)	(PF/IE)	Landscape Area (sq. ft.)	(PF/IE) x Area	Estimated Total Water Use (ETWU)
REGULAR LANDSCAPE AREAS							
HZ 1 Parkways	0.30	Drip Line	0.81	0.37	3,295	1,220	37,907
HZ 2 Planters Around Bldgs	0.30	Drip Line	0.81	0.37	5,365	1,987	61,721
				Total	8,660	3,207	
						ETWU TOTAL	99,628
						MAXIMUM APPLIED WATER ALLOWANCE (MAWA)	121,049

Residential

MWELO - WATER EFFICIENT LANDSCAPE WORKSHEET : RESIDENTIAL (NO SLA) - **ETAF = 0.55**							
Reference Evapotranspiration (ETo)		50.1	(LOS ANGELES)		MAWA = Eto X 0.62 X (**0.55** X LA)		
Hydrozone Number	Plant Factor (PF)	Irrigation Method	Irrigation Efficiency (IE)	(PF/IE)	Landscape Area (sq. ft.)	(PF/IE) x Area	Estimated Total Water Use (ETWU)
REGULAR LANDSCAPE AREAS							
HZ 1 LID Planters West	0.30	Drip Line	0.71	0.42	643	272	8,439
HZ 2 Planters North	0.30	Drip Line	0.71	0.42	872	368	11,445
HZ 3 Planters East	0.30	Drip Line	0.71	0.42	108	46	1,417
HZ 4 LID Planters South	0.30	Drip Line	0.71	0.42	404	171	5,302
HZ 5 Courtyard Planters	0.50	Drip Line	0.71	0.70	137	96	2,997
HZ 6 Level 5 Planters	0.30	Drip Line	0.71	0.42	482	204	6,326
HZ 7 LID Planters Level 5	0.30	Drip Line	0.71	0.42	283	120	3,714
				Total	2,929	1,276	
						ETWU TOTAL	39,641
						MAXIMUM APPLIED WATER ALLOWANCE (MAWA)	50,039

Reporting to AIA2030

What is Involved?

MYTHS	FACTS
It takes too much time.	Typical time to gather and input data is less than 30 minutes.
It requires too many resources.	The program is free, and you will join a network of helpful peers.
I may have poor-performing projects in my portfolio.	All data is aggregated and anonymous.
I'll have to achieve the 2030 target.	Making progress is more important than meeting the target.
The project must be complete.	2030 is a framework to set energy targets early in the design and track progress at each phase.

"What about the R.O.U.S.'s?"

?