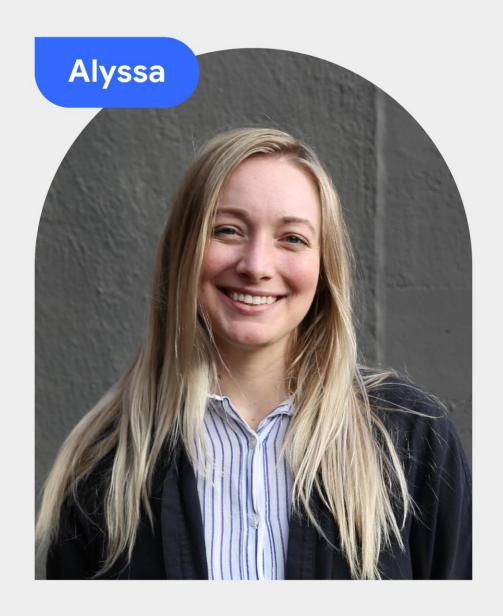
2023

Net Zero Emerging Leaders' Internship

-----> LEVER ARCHITECTURE





LEVER NZEL Intern 2023

Education:

Pursuing a M.Arch at the University of Oregon BFA in Graphic Design from the University of Minnesota

Work Background:

Career experience as a visual and UI designer

Internship Tasks:

Expand the internal master project database Collect DDX data + additional information of interest Report 2022 DDX project information Create additional assets for future collection

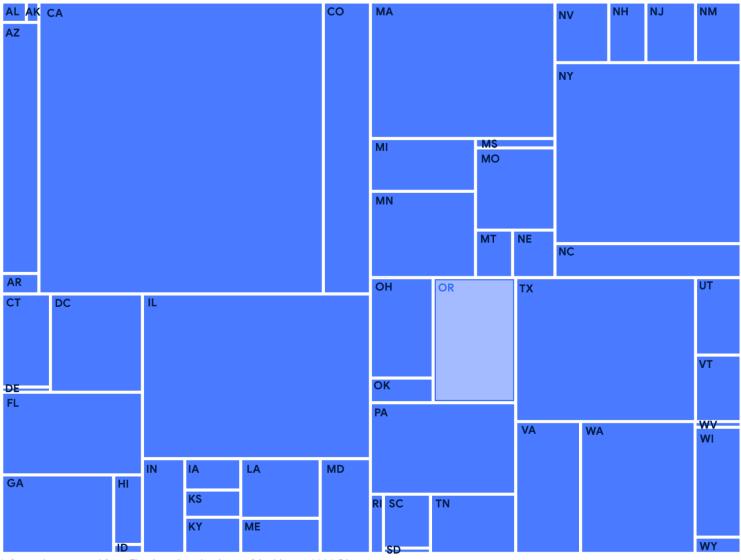


Some Context

In Oregon, LEVER Architecture is one of *forty-one* 2030 Commitment Signatory Firms.



Over 1,000 AIA 2030 Commitment Signatory Firms in the United States



Information sourced from The American Institute of Architects 2030 Directory



LEVER Architecture

LEVER's aspirational goal is for all buildings to be regenerative by 2030; that requires effort to target Net Positive Energy, Net Zero Carbon through Sequestration, and Net Zero Water.

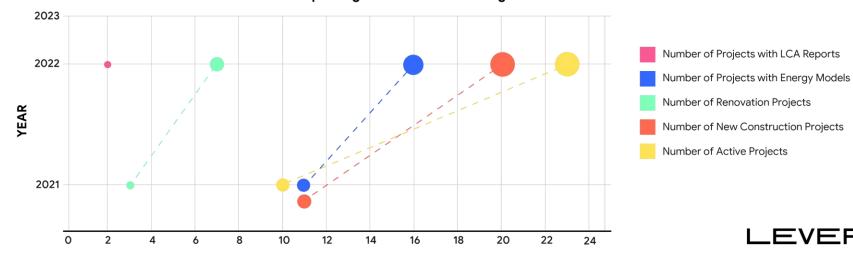


_EVER

2023 First NZEI Intern

2021 Became a signatory for the 2030 Challenge

A Look at Two Years Reporting for AIA 2030 Challenge

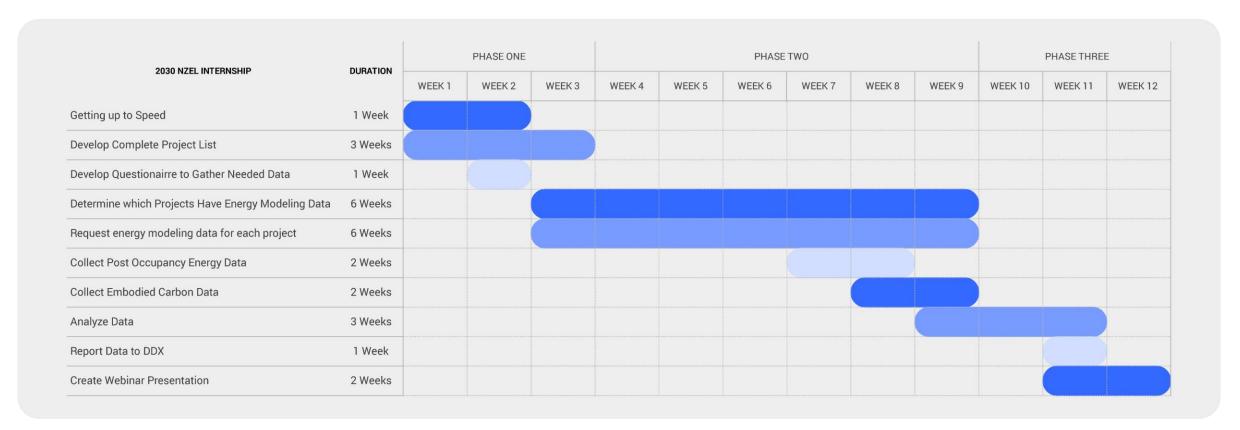


Process

Tools Used:

Google Sheets Zero Tool Tableau (for data visualization) Rscript (for data visualization)

Adobe Illustrator





JECT NAME	PROJECT STATUS	PHASE REPORTED	PROJECT MANAGER	LOCATION	OCCUPANCY YEAR	CONSTRUCTION	CLWATE	DAILY AVG. OCCUPANTS	ENERGY CODE	PROJECT G	ROSS PROJECT AREA (SF CONDITIONED)	MECHANICAL ENGINEER / SUSTAINABILITY CONSULTANT	ENER», MODEL CREATED						
	Cancelled	Not Reported				No Construction				Office		00110000011	_	AIA 2030	REPORTING				
ock 5	Complete	Construction Administration	Calista Fitzgerald (LRS	Dordand CIR	2015		Ar Marel Marine			Office	45.000			To undate our AIA 20	030 DDx database, we are collecting b	uilding performance data t	or nact and active projects		
y Renton Winery	Complete	Construction Administration	Jonathan Heppner, Michael Gross	Nevberg, CR	2016	New Construction	4c Mixed Marine		2814 Oregon Energy Efficiency Specialty Code (CRESIC)	Hospitality	4.350	Glumes	No.	Feel free to complete	this form or provide a report/other su	mmary documents with the	requested information.		
	Complete	Construction Administration	Doug Sheets	Portland, CR	2016	New Construction	4s Mixed Marine			Office	16,000		No						
	Complete	Construction Administration	Jonathan Heppner	Portland, CR	2013	Major Renovation	4s Mixed Marine			Retail	10,500		No						
North West Crossing	Complete	Administration Construction	George Michael	Bend, OR	2017	New Construction	Sto Cool Dry			MEH	105,000		No	BASIC PROJECT	T INFORMATION				
Space Flowers Affordable	Complete	Construction Administration	George Michael Calista Fitzgerald (LRS Architects) Whitney	Portland, OR	2017	New Construction	4c Mixed Marine		Oragon Emergy Code	Office	180,000	Charac	No Yes					OFFICE/STUDIO	
ons	Complete	Construction Administration	Jonathan Heppner	Portland, CR	2019	Major Renovation	4c Mixed Marine		049-049-0	Office	80,000		No.	PROJECT NAME:	[Project Form]	PROJECT NUMBER:	[Project Number]	NAME:	[Studio N
onservation Center	Complete	Construction Documents	Timothy Cooke	Portland, CR	2019	Major Renovation	4c March Marine		Ovegon Energy Code 2014	Office	15,288	PAE / RWOI	Yes	PROJECT MANAGER:	[Project Manager]	DATE:	1/24/23	PROJECT LOCATION:	: [Project L
liding / Hollywood	Active Complete	Construction Administration Construction Administration	Don Lee	Los Angeles, CA	2023	New Construction	3b Warm Dry		California Title 24 2016	Office	325,609	Sustainable Solutions Corporation (SSC)	Yes (T24)	PROJECT STATUS:	[Status]	CLIMATE ZONE:	lotter a 7 - 1	CONSTRUCTION:	[Construc
loth	Complete	Administration Corestruction Administration	Carderbury	Portland, OR Portland, OR	2021	New Construction	4s Mixed Marine		ASHRAE 90.1-2010 Oregon Energy Code	Office	174,454	Interface / RWDI	Yes	PROJECT STATUS:	[Status]	CLIMATE ZONE:	[Climate Zone]	CONSTRUCTION:	Construc
use - CHSU	Canceled	Not Reported	George vischee Husan	Portland, CR	2021	No Construction	4c Mixed Marine		274	Recreason	31,000	menace/ www.ti	Yes						
ter	Cancelled	Not Reported				No Construction				MFH									
	Different Architect	Not Reported	Logen Coins			No Construction								EXTENDED INFO	RMATION				
	Canceled	Not Reported Construction				No Construction										DAILY AVG.			
ed - Main House	Active	Administration Construction Documents	Chendra Robinson	Portland, OR	2021	New Construction	4c Mixed Marine 3C Warm Marine			Office	19,913 8,040	Glumac	Yes (T24)	OCCUPANCY YEAR:	[Occupancy year]	OCCUPANTS:	[Avg. daily occupants]	ENERGY CODE:	(Energy c
ed - Quest House	Active	Construction Documents	Jeff Stern	Ole: CA	2023	New Construction	3C Warn Matine			SFR	1,079	Internal	Yes (T24)						
	Cancelled	Not Reported				New Construction													
ng House	Active	Construction Documents	Jeff Storn	Alta, Wyoming	2023	New Construction	7 Very Cold		2018 International Residential Code	SFR	4,060	Internal	No	PROJECT USE T	YPES				
y Theater	Active Active	Construction Documents Construction Documents	Jeff Stern Jonethan Heppner I	Portland, OR	2024	Major Renovation	4s Mixed Marine		uregión Energy Code 2014	Performing Arts Lodging -	20,000	Glurrec	No			FLOOR AREA: (ft²)		00000	
Alberta er Plan / Piridnet Center	Canceled	Not Reported	Timethy Cooke	Portland, OR Los Angeles, CA	2023	Major Renovation	4s Mixed Marine 3h Warm Dry		ASHRAE 90.1-2010	Hutel Motel	112,001	Olumes	Yes	USE TYPE(S):	[Use type one]	BY USE AS MODELED (AS APPLICABLE)	[Floor area for use type one]	GROSS PROJECT AREA ft ²	[Gross Pr
treet - Redoir (CT7)	Active	Construction Administration	Tyo Balley	Los Angeles, CA	2023	Major Renovation	30 Warm Dry	706	California Title 24 2016	Office	70,510	ama Group	Yes (T24)		[Use type two]		[Floor area for use type two]		
	Cancelled	Not Reported				No Construction													
	Cancelled	Not Reported				No Construction							_		[Use type three]		[Floor area for use type three]		
	Canceled					No Construction													
terpian	Active	Coretrudion Administration	Chandra Robinson / Sam- Lautmen	Porland, OR	2023 - two buildings 2025 -	New Construction	4s Mixed Marine			MFH	110.000								
	Cancelled	Not Reported			and renge	No Construction								IGN PHASE	DATA				
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in - Redoar	Different Architect Cancelled	Design Development	vas dore before it vas passed to ancofer architect	cianta Monica, CA		No Construction	36 Warm Dry			Mixed Use	11,236			TING PHASE:	[Reporting phase]	REPORTING YEAR:	[2023]	MODELING BEEN DONE FOR THIS	
temodel	Canceled	Not Reported		Rent OR		No Construction												DONE FOR THIS DESIGN PHASE?	
(common PMI)	Cancelled			James, URI		No Construction								DATE ENERGY	1/20/23	ENERGY MODELING	(Farmer Mandallan Caffeerer)	MECHANICAL	(Carala
ech Residence (BDP)	Active	Construction Administration	Jeff Stem	Siellers, OR	2023	New Construction	Sto Cool Dry	NA	Oregon Energy Efficiency Specialty Code 2014	SFR	5,000	Internal	Yes	MODELED:	1/20/23	SOFTWARE:	[Energy Modeling Software]	ENGINEER/ ENERGY CONSULTANT:	[Engineer
53 North Broadway /	Active On Hold	Construction Documents	Ashley Koger and Jeff Ermit	Portland, OR	2025	New Construction	4c Mixed Marine		ASHRAE SH: 90.1-2019	MFH (Affordable)	86,263	Earth Advertiage, Inc.	Yes						
ST	On Hold Active	Design Development	Dennon Centerbury Jonathan Heppener I Jeff	Kirkland, WA	2026	New Construction	4c Mixed Marine	850	Washington Energy Code	Office	200,000	Transolar-50%BD / PAE-DD	Yes	ENERGY FUEL SOURCE:	[Energy use]	ENERGY PROVIDED: (kWh and kBTU)	[Energy provided]	GROSS ENERGY USE: (converted to kBTU/yr	Gross En
Center (WFC)	Active	Construction Documents	Stern Michael Faulkner, Linda Chana	Portland, OR Los Angoles, CA	2024	New Construction	4c Mixed Marine	NA	AsiHRAE 189, 1-2000 California Title 24 2019	DRIBIT	21,503	interlace	Yes						
ie.	Cancelled		,	-		No Construction						Lam + Tea	Yes (T24)					- 510	
Ave I Thasis	Active	Construction									35,460	Lam + Tea	Yes (T24)		[Energy use]		[Energy provided]	pEUI: (kBtu/ft²/yr)	[pEUI]
	Activo		Logen Coins	Portland, OR	2023	New Construction	4c Mired Marine	160	ASHRAE 90.1-2019	Office	39,965	Lam + Tea Interface	Yes (724) Yes					(kBtu/ft²/yr) pEUI w. Renewable	[pEUI]
	Aur.	Design Development	Logan Coins Tyler Nantani, Blair Cranston Tyler Nantani, Blair	Portland, OR Portland, OR	2023 2025		4c Mixed Marine 4c Mixed Marine	160	ASHRAE 90.1-2019 2001 OEE9C	Office	30,005	Lam + Tea Interface	Yes Not Yet - 3/230		[Energy use]		[Energy provided]	(kBtu/ft²/yr)	
Library	Active On Hold	Design Development Design Development Construction Documents	Logen Coins Tyler Nishtani, Eller Clariston Tyler Nishtani, Blair Clariston	Porland, OR Porland, OR Porland, OR	2029 2025 2024		4s Mired Marine 4s Mired Marine 4s Mired Marine	160	ASHRAE 90.1-2019 2021 OEEBC 2021 OEEBC 2021 Oeepo Residential	Library	35,500 10,393	Inferface	Ves Not Yet - 3/230 Not Yet - 3/230			ANTICIPATED DV		(kBtu/ft²/yr) pEUI w. Renewable Offset:	[pEUI wih
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AIA 2030 REPORTING - EMBODIED CARBON

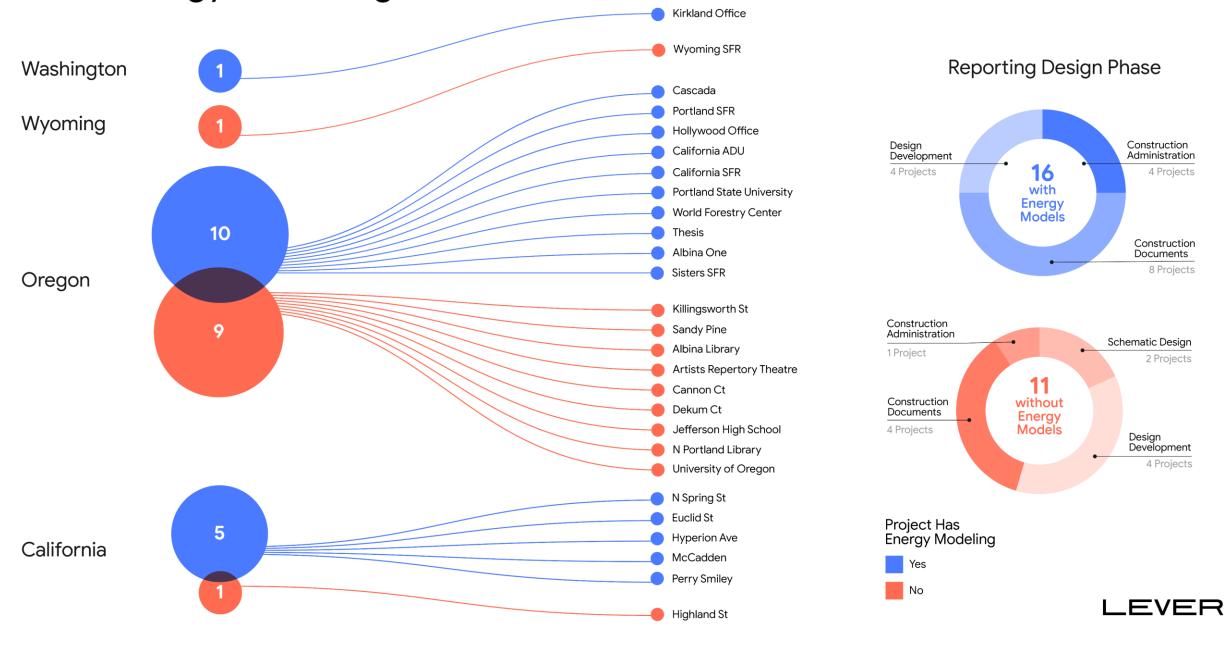
To update our AIA 2030 DDx database, we are collecting building performance data for past and active projects. Feel free to complete this form or provide a report/other summary documents with the requested information.

ASIC PROJECT	INFORMATION				
ROJECT NAME:	[Project's name]	PROJECT NUMBER:	[Project's number]	OFFICE/STUDIO NAME:	[Office/Studio na
ROJECT MANAGER:	[Project Manager's name]	DATE:	1/20/23	PROJECT LOCATION:	[Project location]
ROJECT STATUS:	[Status]	PROJECT TYPE:	[Type]	GROSS PROJECT AREA: ft²	[Gross Project Are
lechanical Engineer/ ustainability onsultant:	[Cunsultant]				
MBODIED CAR	BON				
MBODIED CARBON IODELED DATE:	2/9/23	CARBON MODELING TOOL:	[Energy modeling tool]	CARBON MODELING TOOL VERSION:	[Carbon Modeling
REDICTED MBODIED CARBON: gCO2e/m²)	[Predicted Embodied Carbon]			TIME: (years)	[60]
THAT SCOPE WAS	Substructure	WHAT LCA STAGES WERE INCLUDED?	Product Stage (A1-3)	BIOGENIC CARBON:	[Biogenic Carbon
	Superstructure		Construction Process Stage A4		
	Enclosure		Construction Process Stage A5	IF BIOGENIC CARBON WAS INCLUDED, ADD DESCRIPTION:	[Description]
	Interiors		USE (B1-5)		
	Others		End of life (C1-4)		
			Module D		

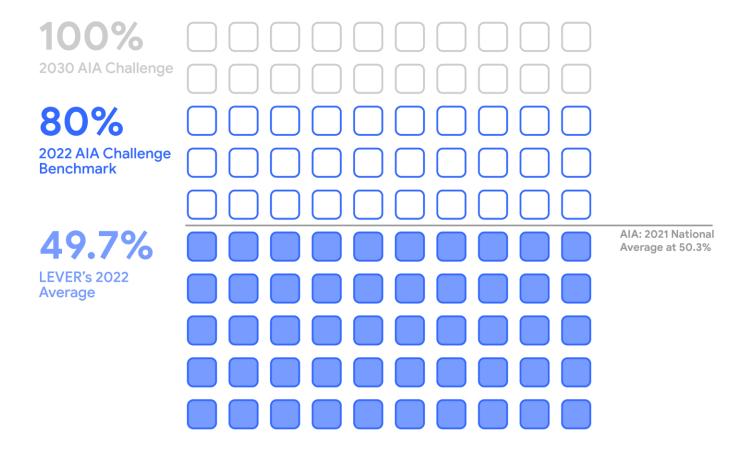
THANK YOU FOR YOUR TIME

Embodied Carbon Project Form

2022 Energy Modeling Efforts

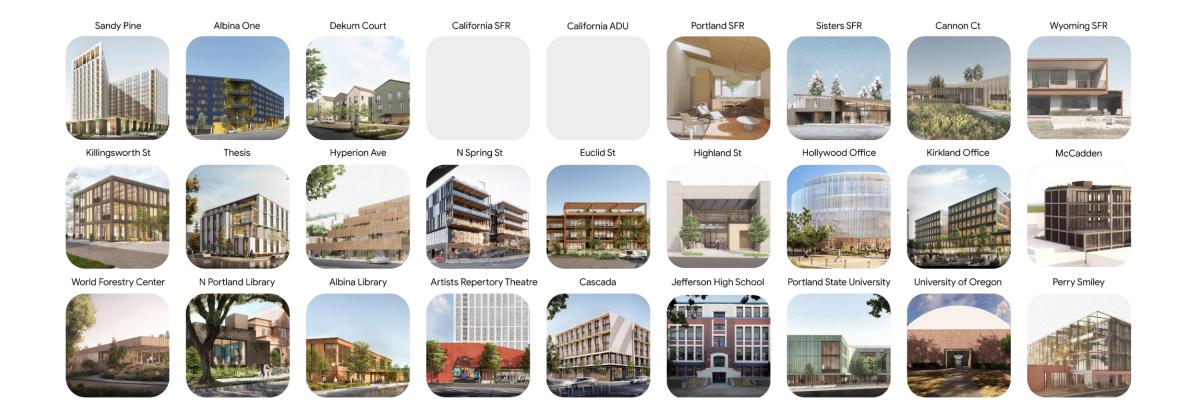


2022 Portfolio Predicted EUI Reduction



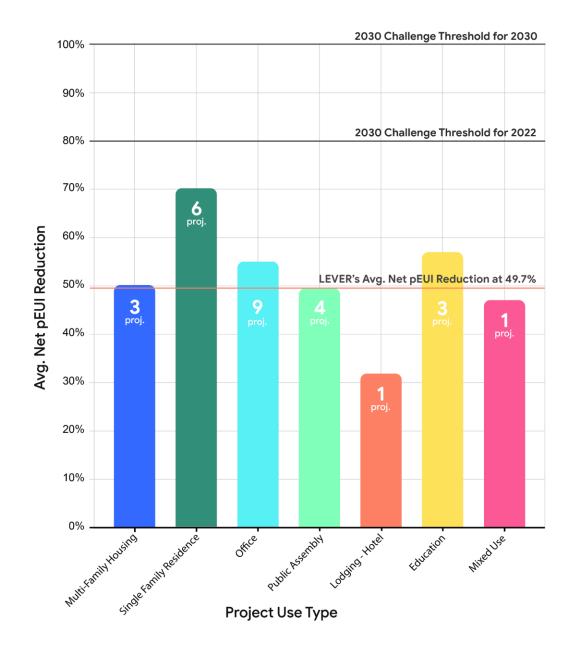


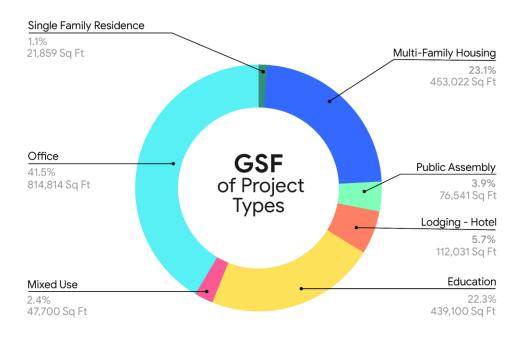
2022 Portfolio Reported Projects





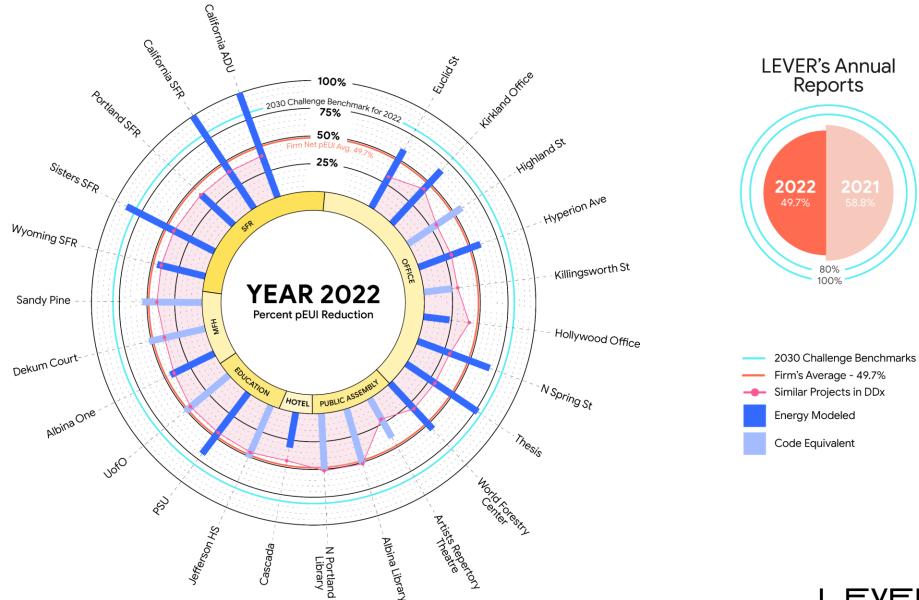
2022 Portfolio Predicted EUI Reduction





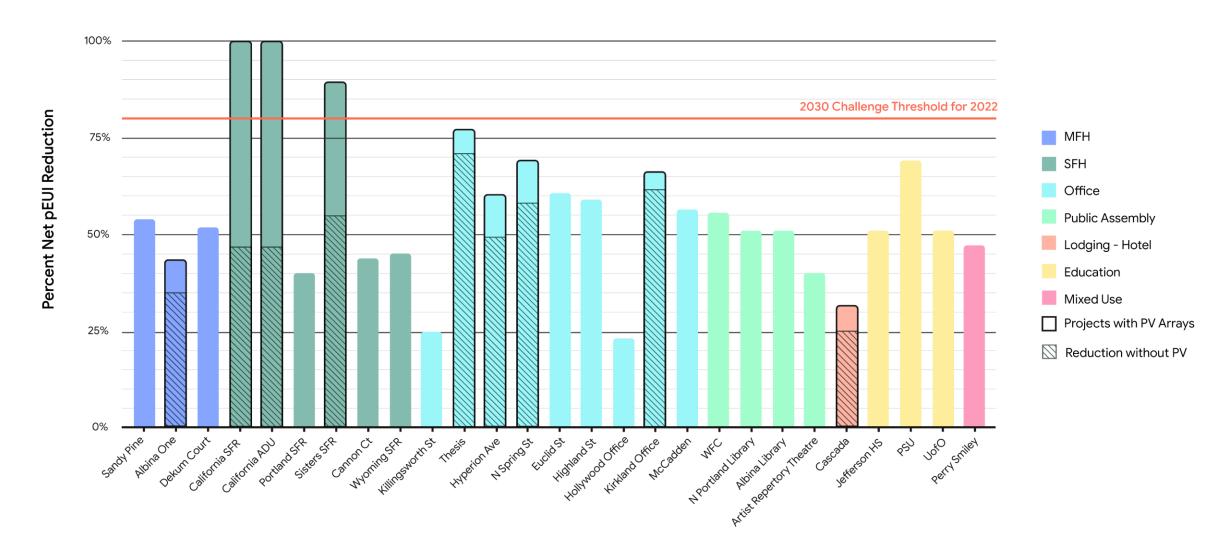


2022 Portfolio Predicted EUI Reduction





2022 Portfolio PV Array Comparison

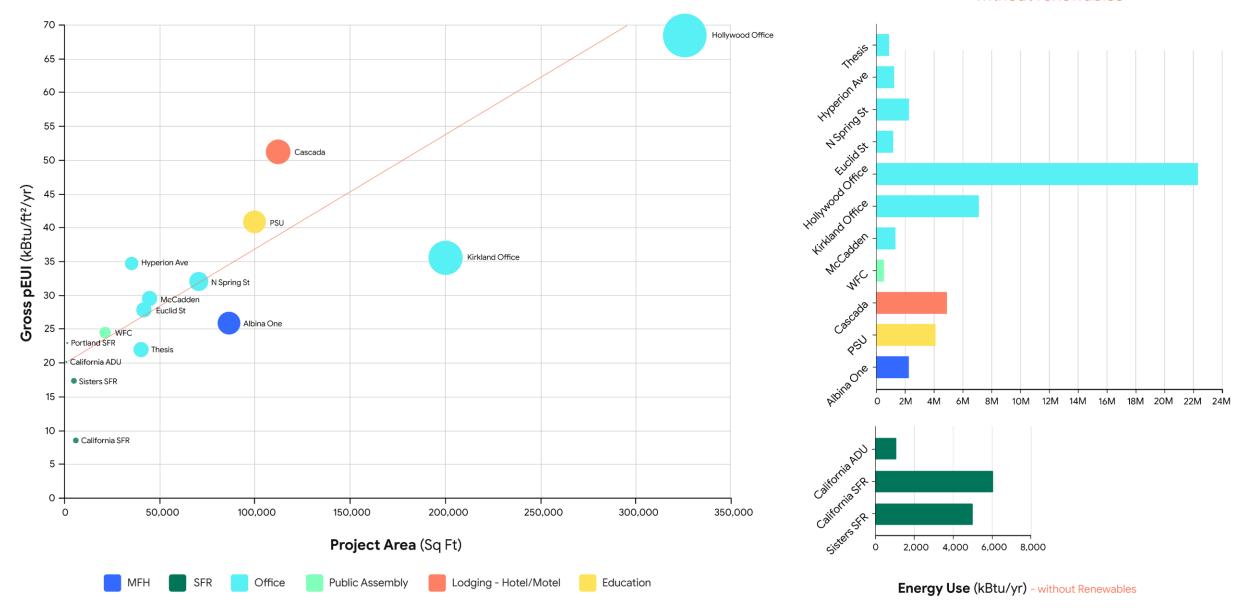




Project Gross pEUI Based on Area - without renewables

Total Annual Energy Use per Project

without renewables



Case Study: Kirkland Office

Operational Carbon

Location: Kirkland, WA

Phase: 2022 - Construction Documents

2021 - Design Development

Total Area: 200,000 Sq Ft

Office: 186,000 Retail: 14,000





Case Study: Kirkland Office

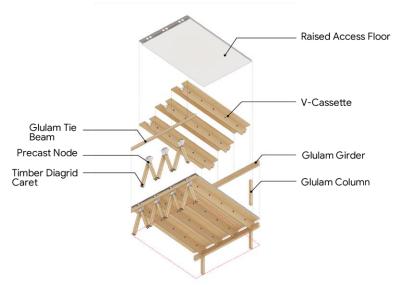
Embodied Carbon

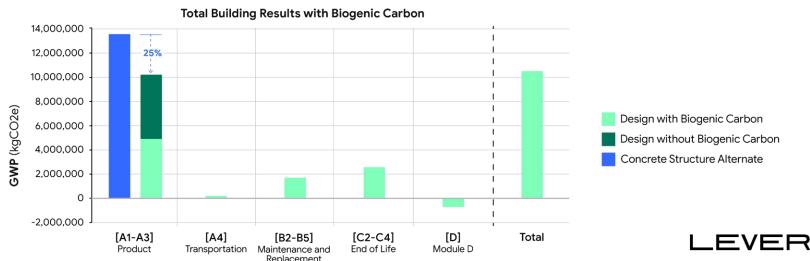
Embodied Modeling Tool: Tally Building Life assumed: 75 yrs. Biogenic Carbon Included: Yes Included Scope: Substructure,

Superstructure, Superstrucsture,

Enclosure, Interiors, Other.







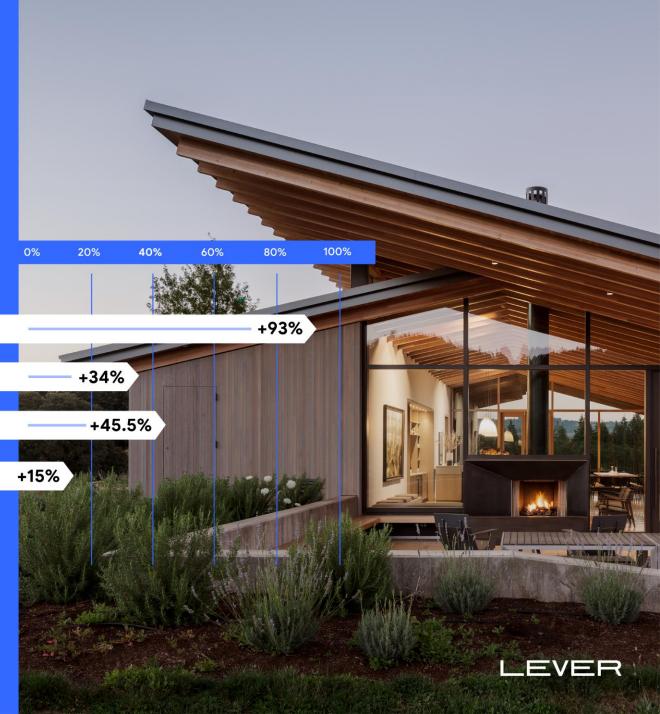
2021 and 2022 Reporting Comparison

reported 14 projects in 2021 and increased to 27 projects for 2022

reported 1,533,949 GSF 2021 and increased to 2,053,991 GSF for 2022

reported 11 projects with energy models in 2021 and increased to 16 for 2022

Increased Embodied Carbon Reporting from 0 to 2 Projects in 2022



Next Steps



Goal One:

Increase Embodied Carbon Reporting.

Goal Two:

Improve operational energy performance across all projects.

Goal Three:

Prioritize early-phase energy modeing and incorporate into the design process.

