2019 Getting to Zero Project List

Zero Energy Certified and Verified Buildings



2019 Getting to Zero Project List

The best-in-class projects listed here provide a window into the zero energy (ZE) future of the built environment. These trailblazing buildings, portfolios, districts, and campuses have demonstrated that getting to zero energy design and operation is feasible in every climate, market sector, size, and building type across the U.S. and Canada.

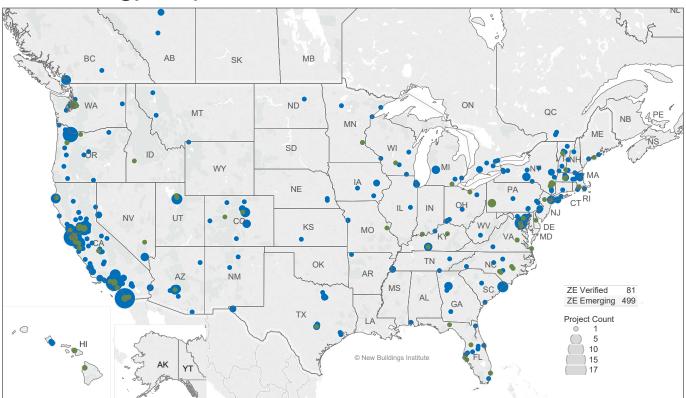
The total number of listed ZE projects has grown tenfold in the seven years since NBI produced the first Getting to Zero List in 2012, and new projects are appearing regularly. We expect this momentum to continue as more designers, owners, and occupants gain valuable ZE experience and expertise.

This list includes all Certified and Verified ZE projects known to NBI as of May 2019. There are hundreds of ZE projects in the Emerging category (projects that have not yet achieved ZE, or where NBI does not have data to verify ZE performance) that are not listed here.

For the first time, you can access a live, comprehensive map and list of all ZE Certified, Verified, and Emerging projects across North America and explore trends in ZE buildings with interactive charts and customizable graphics.

Visit the new Getting to Zero Buildings Database: newbuildings.org/resource/getting-to-zero-database

Zero Energy Project Locations



ZE Verified and Emerging projects plotted by city. Certified projects are included within the verified points.

List Definitions

ZERO ENERGY

projects are buildings or groups of buildings with significantly reduced energy loads, such that 100% or more of the energy use can be met with on-site renewable energy generation annually (off-site renewables are counted toward achieving ZE in certain cases). In this list, projects are categorized as ZE Certified or ZE Verified. For simplicity, projects that have set a zero carbon goal are listed as zero energy.

ZERO ENERGY VERIFIED projects have achieved ZE for at least one full year and NBI has verified the performance data.

ZERO ENERGY CERTIFIED

projects have been awarded Net Zero Energy (or equivalent) certification by a trusted third party such as the International Living Future Institute (ILFI). The certifier has thoroughly reviewed at least one continuous year of energy consumption and generation data to certify zero energy performance.

Bold text indicates projects that are new to the List.

(L) after the project name indicates a project has achieved USGBC LEED certification (at any level).

(M) after the project name indicates a project that has provided measured energy use data.

SITE EUI

stands for the total gross sitelevel Energy Use Intensity (EUI), the industry common metric used to measure annual energy use per square foot (sf) of building floor area. Energy use includes consumption from all fuels (griddelivered and on-site-generated electricity, natural gas, district energy, and delivered fuels) in thousands of British thermal Units (kBtu) per year (yr). That sum is divided by the building's gross size, thus the units are kBtu/sf/yr.

SOURCE EUI

accounts for upstream generation, transmission, and distribution losses associated with delivering usable energy to the site. Site to Source EUI conversions in this list follow the 2018 U.S. Energy Star® Portfolio Manager guidelines.1

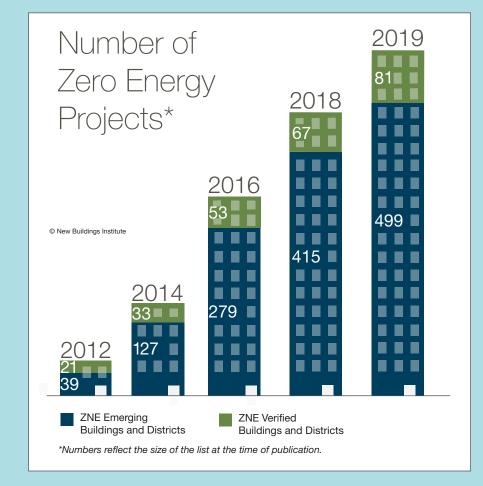
NET EUI

is annual energy use minus annual on-site renewable generation, divided by the building's floor area in sf. A building with a measured net EUI (site or source) less than zero has achieved ZE.

ZEPI

is a metric on a 0-100 scale that sets a constant goal of ZE and is normalized by climate and building type.

1 See the 2018 US Energy Star Portfolio Manager Source Energy Technical Reference Document

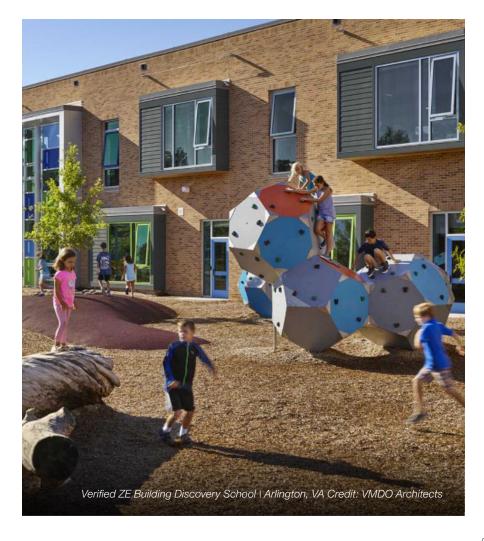


Zero Energy **Certified**

Year Completed	Project Name	City	State	Building Type	Size (sf)	Total Site EUI	Source EUI	Net Site EUI	Net Source EUI	zEPI Score
2007	IDeAs Z2 Design Facility (M)	San Jose	CA	Office	6,557	22.6	63.3	-0.6	-1.6	-1
2009	Chrisney Library (M)	Chrisney	IN	Public Assembly	2,413	16.7	46.7	-0.8	-2.2	-1
2009	Living Learning Center at Tyson Research Center (M)	Eureka	MO	Education	2,968	24.5	68.5	-1.9	-5.5	-2
2009	Omega Center for Sustainable Living (L) (M)	Rhinebeck	NY	Education	6,200	13.2	37.0	-8.3	-23.1	-8
2009	Pringle Creek Painter's Hall (L) (M)	Salem	OR	Public Assembly	3,595	11.1	31.1	-4.3	-11.9	-5
2009	Putney Field House (L) (M)	Putney	VT	Education	16,800	9.7	27.2	-0.7	-2.0	-1
2010	Bertschi School Science Wing (L) (M)	Seattle	WA	Education	1,425	48.0	134.4	-0.4	-1.1	0
2010	DPR Construction San Diego Net Zero Office (L) (M)	San Diego	CA	Office	24,000	14.8	46.1	-2.4	-7.8	-3
2010	Energy Lab at Hawaii Preparatory Academy (L) (M)	Kamuela	HI	Education	5,902	11.0	30.9	-17.0	-47.5	-15
2010	Hood River Middle School Net- Zero Addition (L) (M)	Hood River	OR	Education	5,331	26.8	74.9	-0.4	-1.0	0
2010	Richardsville Elementary School (L) (M)	Bowling Green	KY	Education	72,285	19.0	53.2	-2.6	-7.2	-3
2011	Coastal Maine Botanical Gardens Bosarge Family Education Center (L) (M)	Boothbay	ME	Education	8,200	19.2	53.6	-4.3	-12.1	-4
2011	Locust Trace AgriScience Campus (High School) (M)	Lexington	KY	Education	70,000	9.9	27.6	-0.7	-2.0	-1
2011	TD Bank Branch (L) (M)	Fort Lauderdale	FL	Office	3,970	91.8	257.1	-3.8	-10.5	-4
2011	zHome (M)	Issaquah	WA	Multifamily	5,813	21.0	58.8	-1.0	-2.8	-2
2012	Bullitt Foundation Cascadia Center for Sustainable Design and Construction (M)	Seattle	WA	Office	51,800	9.7	27.2	-6.9	-19.4	-10
2012	David and Lucile Packard Foundation (L) (M)	Los Altos	CA	Office	49,161	24.4	68.3	-4.6	-12.9	-7
2012	DPR Construction Phoenix Net Zero Office (L) (M)	Phoenix	AZ	Office	16,533	26.8	74.9	-2.7	-7.6	-3
2012	Phipps Center for Sustainable Landscapes (L) (M)	Pittsburgh	PA	Public Assembly	24,350	18.2	51.0	-0.5	-1.3	0
2012	Sacred Heart Schools Stevens Family Library (L) (M)	Atherton	CA	Education	6,800	13.2	37.0	-17.6	-49.2	-22
2012	Smith College Bechtel Environmental Classroom (M)	Northampton	MA	Education	2,500	11.5	32.1	-6.2	-17.3	-6
2013	435 Indio Ave (M)	Sunnyvale	CA	Office	31,800	13.5	37.8	-15.2	-42.4	-23
2013	PNC Net-Zero Branch - Ft. Lauderdale (L) (M)	Ft Lauderdale	FL	Office	4,766	59.1	165.4	-5.4	-15.0	-6
2013	Sandy Grove Middle School (L) (M)	Lumber Bridge	NC	Education	74,000	19.3	54.0	-14.5	-40.6	-14
2013	West Berkeley Public Library (L) (M)	Berkeley	CA	Public Assembly	9,399	21.7	60.7	-3.8	-10.8	-5

Zero Energy **Certified**

Year Completed	Project Name	City	State	Building Type	Size (sf)	Total Site EUI	Source EUI	Net Site EUI	Net Source EUI	zEPI Score
2014	Brock Environmental Center (L) (M)	Virginia Beach	VA	Education	10,500	14.6	40.8	-14.0	-39.3	-14
2014	DPR San Francisco Office (L) (M)	San Francisco	CA	Office	24,010	21.6	60.4	-0.5	-1.4	-1
2014	Willow School (L) (M)	Gladstone	NJ	Education	20,000	21.8	61.1	-13.1	-36.8	-12
2015	Indigo Hammond & Playle Architects Office (M)	Davis	CA	Office	4,100	16.8	47.0	0.0	-0.1	0
2015	Phipps Conservatory SEED Classroom (L) (M)	Pittsburgh	PA	Education	950	14.5	40.7	-6.3	-17.6	-6
2015	Rocky Mountain Institute Innovation Center (L) (M)	Basalt	CO	Office	15,610	16.8	47.0	-9.4	-26.5	-12
2015	Suncoast Credit Union - Bushnell Service Center (M)	Bushnell	FL	Office	3,743	6.8	19.0	-1.6	-4.5	-2
2016	King Street (L) (M)	Seattle	WA	Office	3,680	17.5	49.0	-8.8	-24.6	-12
2016	Maclay Architects' Office (M)	Waitsfield	VT	Office	2,568	22.1	61.8	-2.9	-8.1	-3



We know there are more projects than we have captured here. We encourage you to submit zero energy and ultra-low projects through our registry so we can recognize these leaders in the growing field of zero energy buildings.

Be Counted at newbuildings.org/share.

Zero Energy **Verified**

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Year Completed	Project Name	City	State	Building Type	Size (sf)	Total EUI	Source EUI	Net EUI	Source EUI	zEPI Score
2000	Oberlin College Lewis Center (M)	Oberlin	ОН	Education	13,600	31.4	87.8	-5.5	-15.5	-5
2001	Environmental Tech. Center Sonoma State (M)	Rohnert Park	CA	Education	2,200	2.3	6.5	-1.5	-4.1	-2
2003	Audubon Center at Debs Park (off grid) (L) (M)	Los Angeles	CA	Other	5,020	17.1	47.9	0.0	0.0	0
2003	Science House (M)	St. Paul	MN	Other	1,532	18.0	50.4	0.0	0.0	0
2004	Challengers Tennis Club (M)	Los Angeles	CA	Other	3,500	9.0	25.0	0.0	-0.2	0
2005	CDPH Richmond Labs, Building P (L) (M)	Richmond	CA	Office	205,000	25.4	70.3	-4.3	-12.7	-7
2005	Hawaii Gateway Energy Center (L) (M)	Kailua-Kona	HI	Other	5,600	28.0	78.4	-3.0	-8.4	-4
2007	Aldo Leopold Legacy Center (L) (M)	Baraboo	WI	Office	11,900	16.0	44.8	-2.0	-5.6	-2
2008	Bagatelos Architectural Glass Solutions (M)	Sacramento	CA	Other	63,000	11.6	32.5	-0.5	-1.3	-1
2008	Camden Friends Meeting Social Hall (L) (M)	Camden	DE	Public Assembly	3,121	17.9	50.0	-1.8	-5.1	-2
2008	Environmental Nature Center (L) (M)	Newport Beach	CA	Education	8,535	17.6	49.3	-10.1	-28.3	-12
2008	Hudson Valley Clean Energy HQ (M)	Rhinebeck	NY	Office	5,470	9.8	27.3	-0.6	-1.7	-1
2009	Bacon St. Offices (L) (M)	San Diego	CA	Office	4,500	12.7	35.6	-9.5	-26.6	-13
2009	Watsonville Water Resources Center Admin Building (L) (M)	Watsonville	CA	Office	16,000	51.4	142.7	-66.4	-187.1	-101
2010	Dovetail Construction HQ Barn (L) (M)	Richmond	VA	Office	6,800			0.0		0
2010	NREL Research Support Facility (L) (M)	Golden	CO	Office	222,000	46.1	129.1	0.0	0.0	0
2011	Anna Maria Historic Green Village (L) (M)	Anna Maria	FL	Other	9,797	28.2	79.0	-6.6	-18.4	-7
2011	Diamond X Ranch Student Intern Center-Malibu (M)	Calabasas	CA	Public Assembly	3,500	31.5	88.2	-3.6	-10.0	-4
2011	EcoCenter at Heron's Head Park (off grid) (L) (M)	San Francisco	CA	Education	2,400	(off (grid)			
2012	Leon County Cooperative Extension (M)	Tallahassee	FL	Office	13,000	19.4	54.3	-0.2	-0.6	0
2012	Plaza Point (L) (M)	Arcata	CA	Multifamily	20,283	15.3	42.8	-1.0	-2.9	-2
2013	IBEW Local 595 Zero Net Energy Center (M)	San Leandro	CA	Education	45,001	15.0	42.0	-6.0	-16.8	-7
2013	Lenawee Intermediate School District Center for a Sustainable Future (M)	Adrian	MI	Education	8,750	7.7	21.6	-2.4	-6.7	-2
2014	231 Main Street (Alfandre Architecture, EcoBuilders, and Others) (L) (M)	New Paltz	NY	Office	5,400	45.2	126.4	-7.5	-21.0	-9
2014	DMV Fresno Field Office (L) (M)	Fresno	CA	Office	19,808	23.1	64.6	-20.4	-57.0	-28

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Year Completed	Project Name	City	State	Building Type	Size (sf)	Total EUI	Source EUI	Net EUI	Source EUI	zEPI Score
2014	Jess Jackson Sustainable Winery Building (M)	Davis	CA	Warehouse and Storage	8,500	1.4	3.9	-1.3	-3.6	-5
2014	Odyssey Elementary School (M)	Woods Cross	UT	Education	84,785	15.0	42.0	-1.8	-5.0	-2
2014	Pahranagat National Wildlife Refuge Administrative Office and Visitor Contact Station (M)	Alamo	NV	Public Assembly	5,000	27.8	78.0	-12.0	-33.6	-12
2015	AP+I Design (M)	Mountain View	CA	Office	14,300	17.9	50.1	-0.5	-1.3	-1
2015	Bishop O'Dowd High School, Environmental Science Center (L) (M)	Oakland	CA	Education	3,275	18.0	50.3	-0.7	-1.9	-1
2015	Discovery Elementary School	Arlington	VA	Education	98,000	15.5	43.4	-3.6	-10.1	-4
2015	Frick Environmental Center (M)	Pittsburgh	PA	Public Assembly	15,500			-2.1		-2
2015	Grantham Middle School (M)	Goldsboro	NC	Education	86,400	18.2	51.0	-7.9	-22.0	-8
2015	P.S. 62 (Kathleen Grimm School of Leadership and Sustainability) (M)	Staten Island	NY	Education	68,680	32.7	88.2	-1.0	-6.1	-1
2015	Potomac Watershed Center (L) (M)	Accokeek	MD	Education	3,971	44.2	123.9	-1.7	-4.8	-2
2015	R W Kern Center at Hampshire College	Amherst	MA	Education	16,950	23.4	65.6	-3.0	-8.4	-3
2015	Sarasota Audubon Nature Center (L) (M)	Sarasota	FL	Education	2,500	10.3	28.8	-5.3	-14.9	-5
2016	Alpine Branch Library (L) (M)	Alpine	CA	Public Assembly	12,681	29.1	81.5	-1.0	-2.7	-1
2016	Arch Nexus SAC Office (L)	Sacramento	CA	Office	8,200	36.3	101.7	-3.4	-9.5	-5
2016	Kay's Creek Elementary School (M)	Kaysville	UT	Education	84,785	14.2	39.8	-1.9	-5.4	-2
2016	Lumbee River EMC (M)	Raeford	NC	Office	10,000	37.9	106.0	-12.2	-34.1	-15
2016	Maui Army Reserve Center (M)	Wailuku	HI	Education	15,361	35.5	99.5	-0.1	-0.1	0
2016	Sbrega Technology and Learning Center - Bristol Community College (M)	Fall River	MA	Education	50,679	45.0	104.3	-15.9	-66.2	-15
2016	Spring Creek Middle School (M)	Seven Springs	NC	Education	96,000	19.2	53.7	-3.5	-9.6	-3
2016	Twenty Mile Farm Administration and Maintenance Building (L) (M)	Boise	ID	Office	15,222	11.3	31.6	-7.3	-20.5	-10
2017	Wilde Lake Middle School (M)	Ellicott City	MD	Education	106,221	13.8	38.6	-11.2	-31.4	-11
2018	Lakeline Learning Center (M)	Austin	TX	Education	6,000	43.0	120.4	0.0	0.0	0





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New Buildings Institute (NBI) is a nonprofit organization driving better energy performance in buildings. We work collaboratively with industry market players—governments, utilities, energy efficiency advocates, and building professionals—to promote advanced design practices, innovative technologies, public policies, and programs that improve energy efficiency. We also develop and offer guidance and tools to support the design and construction of energy efficient buildings.

Throughout its 20-year history, NBI has become a trusted and independent resource helping to drive buildings that are better for people and the environment.

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