Venter Institute HQ, La Jolla, California | Credit: NBI

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Getting to Zero: Counts and Trends for 2019

NBI Webinar May 9, 2019

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Efficiency delivered.

NBI is responding to increasing urgency to reduce carbon emissions and increased demand for improved energy performance of new and existing buildings.

NBI's Theory of Market Change:

Our Program Areas

(1) Building & Program Innovation

(2) Zero Energy Leadership & Market Development

(3) Advancing Codes & Policy

VanDusen Botanical Gardens Visitor Centre | Vancouver, BC
Source: Nic Lehoux

Today's Agenda

- Zero Energy: Definitions and Data | Case Studies | Policies – *Cathy Higgins, NBI*
- Findings from the Johnson Controls 2018 Energy Efficiency Indicator Study – *Clay Nesler, JCI*
- Introduction to the new Getting to Zero Buildings Database – *Alexi Miller, NBI*
- Q&A

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ZE Definitions and Data

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California Lottery, Santa Fe Springs, CA | Credit: LPAS Arch + Design

What's in a name?

The Name Game

Zero Net Energy
Zero Energy Buildings
Zero Carbon Buildings
Zero Electric Buildings
Zero Energy Cost
Zero Net Ready Buildings

Net Zero Energy
Nearly Zero Energy Buildings
Ultra-low Energy Buildings
High Performance Buildings
Living Building
Passive House

Emerging Buildings
Verified Buildings
Certified Buildings

Today's Terminology

- A **Zero Energy Building** (ZEB) is a highly energy efficiency building that meets 100% or more of its annual energy from renewables.
  - » **Emerging**[1] – targeting ZE
    - » *May be in planning, design, construction, occupied for less than a year, or yet to document ZEB performance*
  - » **Verified**[1] – A year of more of documented performance by NBI
  - » **Certified** – A year of more documented performance by a third-party program (ILFI, USGBC)

- **Energy Performance -** All energy (electric, gas, steam, liquid fuel etc.) consumed on site:
  - » **EUI** - Energy Use Intensity in kBtu/sf/yr
    - » The most common metric of energy performance

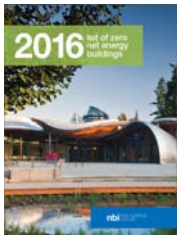
[1] *Terms used by NBI for our Getting to Zero List*

Zero Energy Building Counts

60 (2012)

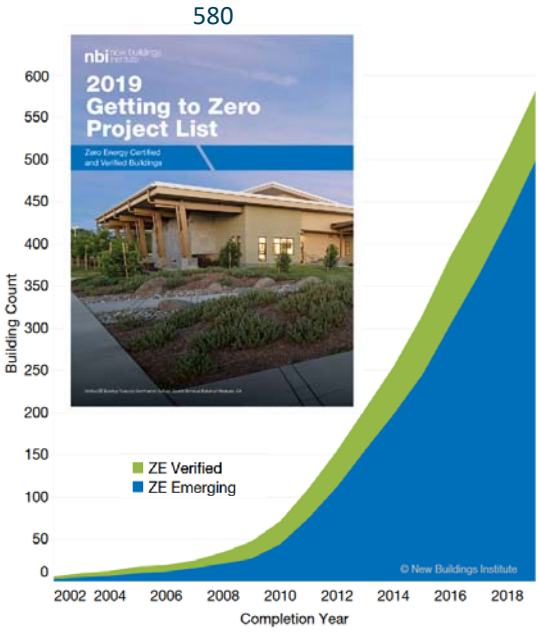
160

332



482

580



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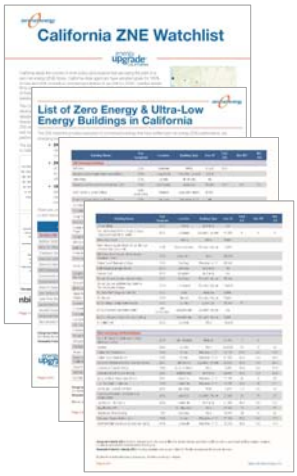
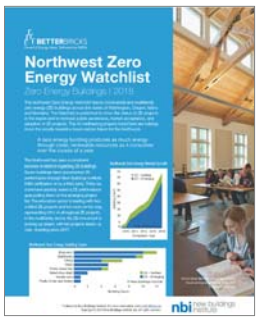
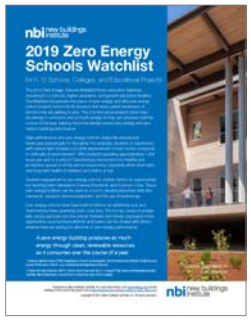
NBI ZEB Watchlists and Status Report







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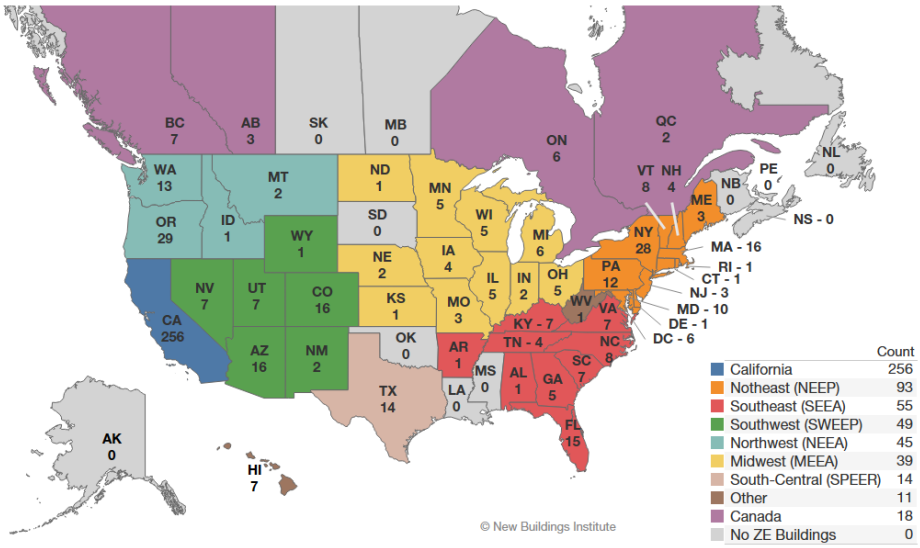
North America ZEB Locations



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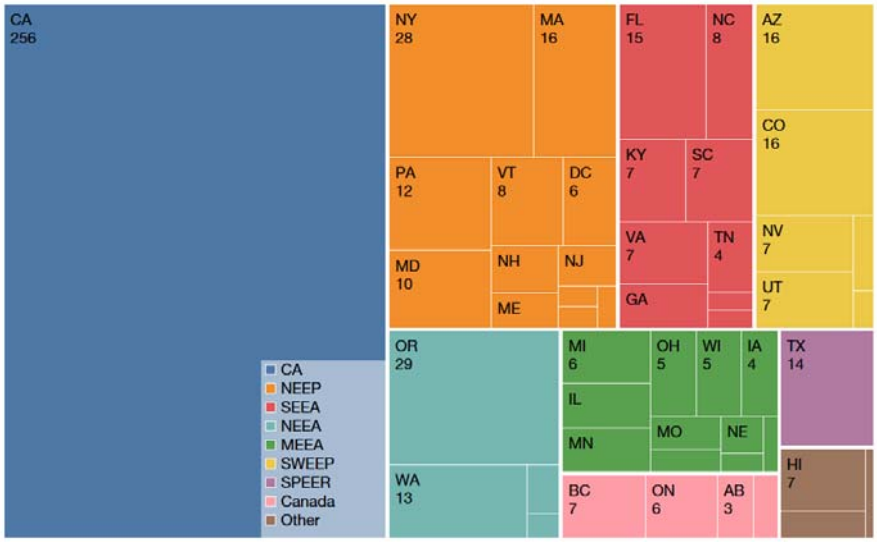
ZEB Distribution by State and Region



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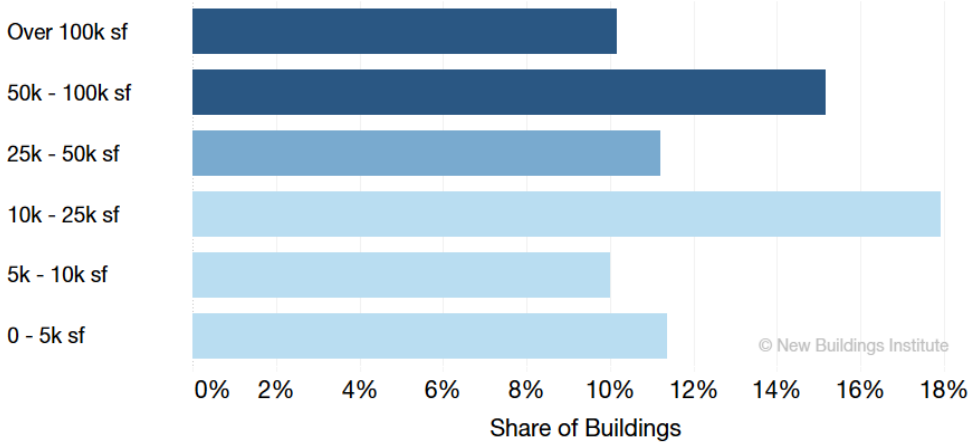
Diversity of ZEB Size



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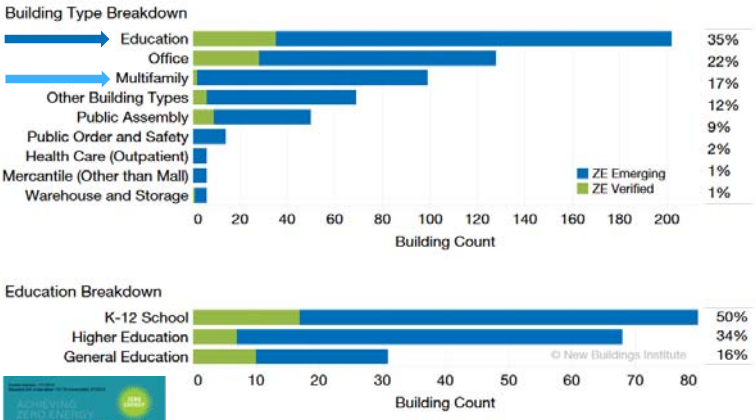
Diversity of ZEB Types



ASHRAE Energy Design Guides: Zero Energy K-12 Schools

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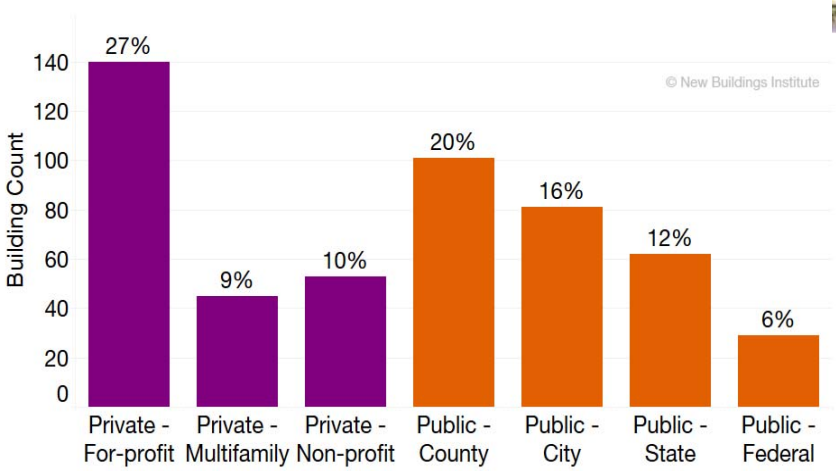
Private/Public Distribution of ZEBs



Gunderson Health Systems, LaCross, WI

North Shore Community College, Danvers, MA

National Renewable Energy Labs, Golden, CO

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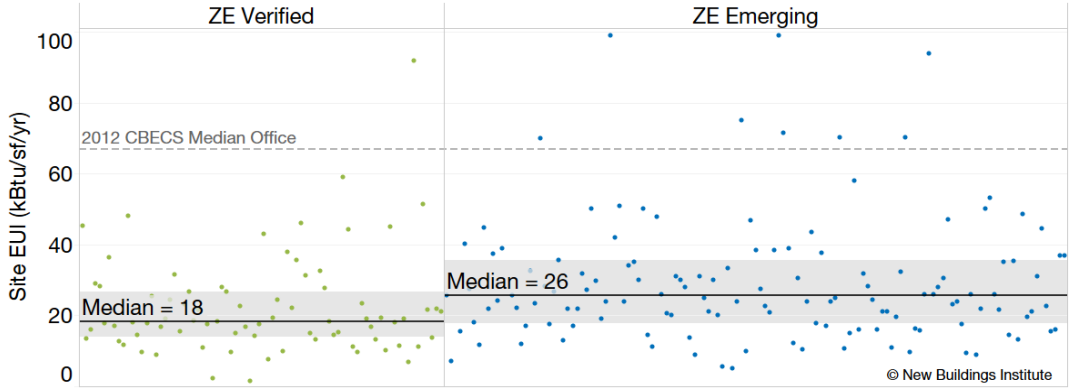
Energy Performance



- ZE Verified buildings on average use **60% less energy** than comparable existing U.S. commercial buildings and 46% less than new buildings under one of the most stringent U.S. base code (CA Title 24).

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ZEB Trends Summary

Location Distribution
Every Climate Zone | 45 States | 4 Providences

Larger Buildings
25% of projects and 90% of floorspace are ≥ 50,000 sf

Diversity of Types
70 building types but 74% are education, office & multifamily

Private Sector Growth
Private ownership is now 46% with 27% for-profit

Common Technologies to Get to Zero

- Heat Pumps
- Ventilation: Natural, Dedicated Outdoor Air Systems (DOAS), Demand Control Ventilation (DCV)
- Highly Efficient Thermal Envelope
- Building Orientation & Glazing ratio
- Solar Control - shading
- Daylighting Access and Controls
- Energy Management Systems
- Building Dashboards
- Radiant Heating/Cooling & Chilled Beams
- Plug load Reductions
- Energy Recovery Systems

Redding School for the Arts, CA
Courtesy : Trilogy Architecture Steve Whittaker Photography

Case Studies

Cincinnati Police Station, Cincinnati, OH | Credit: Darrin Hunter, Dish Design LLC

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Hospital Portfolios Getting to Zero

Photo: AECOM

Gunderson Health Systems, LaCrosse, WI

- 45 new and existing buildings
- 2.5 million square feet

Since 2008, the efficiency improvements and clean energy production adopted by Gundersen have positively contributed to air quality improvements in the region.

Emissions (lbs.)	2008	2015[4]	% Reduction
SO_2	241,011	15,027	94%
NO_x	161,729	31,771	80%
CO_2	80,846,997	5,751,799	93%
Mercury	2.4	0.3	87%
Particulate Matter	434,928	39,542	91%

Figure 2: Courtesy, University of Washington

The operation and construction of hospitals uses 5% of all energy consumed in the United States; including buildings, transport, and industry.

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Medical / Tech Labs Getting to Zero

United Therapeutics
Unisphere Bldg. Silver Springs, MD - 135,000 sf

The Building Automation System (BAS) controls and monitors over 11,000 devices in 7 areas:

1. power monitoring
2. lighting control
3. data analytics
4. electrochromic glass control
5. geothermal HVAC optimization
6. interactive sustainability visualization
7. fire alarm system

United Therapeutics
Jax Lung Restoration Center
Mayo Clinic Jacksonville, FL
75,000 sf

Designed for Carbon and Energy Neutrality

Kaiser Permanente
Medical Office Building
87,480 sf

Saved $1 million in total budget through ZE design integration

Courtesy Integral Group

Speculative Office Buildings Getting to Zero

Indio Way Building | **Sharp Development**

"We wanted to prove that this type of sustainable renovation is not only cost-effective, but actually more profitable than the old way of doing things."

- Kevin Bates, President of SHARP Development

OVERVIEW

Location: Sunnyvale, CA
Project Size: 31,759 SF
Construction Type: Retrofit
Completion Date: 2013
Occupied: May 2014
Building Type: Office
Climate Zone: 4
Total Building Cost: $5,136,015
Cost per SF: $162
Hard costs: $4,042,458

Measured Energy Stats

13.5 - 28.7 = -15.2

BUILDING'S TOTAL EUI	RENEWABLE PRODUCTION RPI	BUILDING'S NET EUI

Site Energy Use Index (EUI) kBtu/SF/year

Indio Building Net Cash Flow

Additional Cost			($1,582,721)	($49.84)
Less Early Lease-up			$724,500	$22.81
Net additional Cost				($27.02)
Net Cash Flow after Debt Service	,350	$708,373	$123,023	$3.87

Boulder Commons | **Morgan Creek Ventures**

Applied an innovative façade PV integration

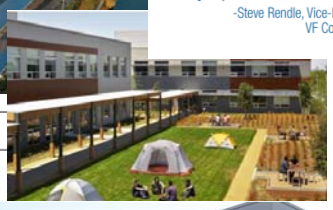
Creating a tenant utility solar lease resulted in 8.3% cash on cash return

Corporate Portfolios Getting to Zero

North Face and VF Outdoor Campus

"These are brands that have a deep passion for the outdoors – not only to play in it, but to preserve it - and we wanted this campus to really speak to that."

-Steve Rendle, Vice-President, VF Corporation



OVERVIEW

Location: Alameda, CA
Project Size: 160,000 SF
Construction Type: New
Completion Date: 2012
Building Type: Office
CA Climate Zone: 3
Total Campus Cost: $40,000,000
Cost/SF: $250

Measures:

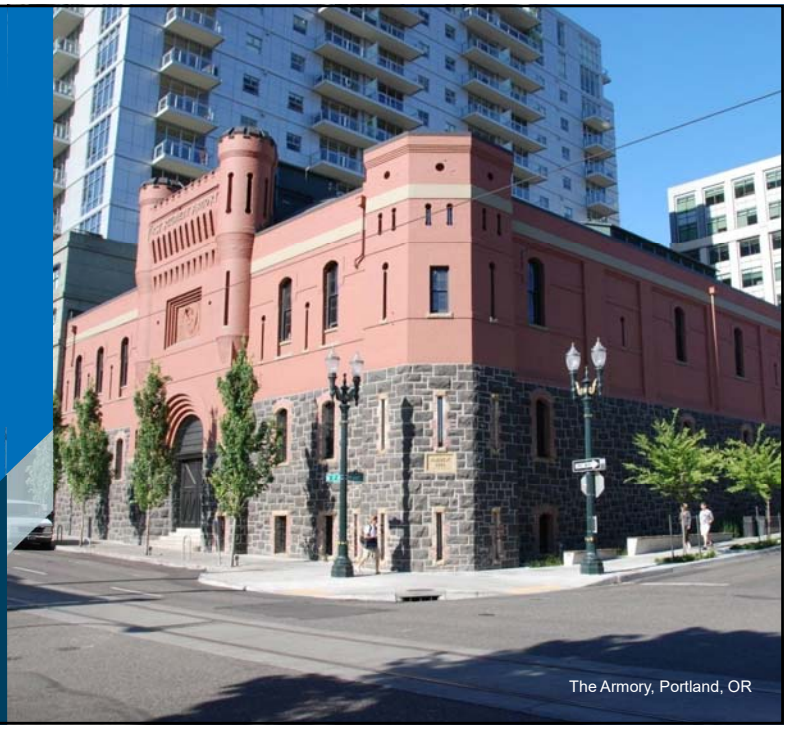
- Advanced Lighting & Daylighting
- High performance envelope and glazing
- IDEC for HVAC
- Plug Load Management
- Monitoring and Controls
- Occupant Engagement and Training
- Wind turbines and building/ site PVs

Measured Energy Stats

16.8 - 29.5 =-12.7

BUILDING'S TOTAL EUI	RENEWABLE PRODUCTION RPI	BUILDING'S NET EUI

Policy Trends


The Armory, Portland, OR

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Key Policies to Support ZEB

- Net Energy Metering
- Achieve ZE in energy codes by a date-certain (CA, WA…)
- Achieve interim goals to ZE (OR, NY,….)
- Enable utility programs to fully incent ZE
- Create Climate and/or Energy Roadmaps for State/City Agencies
- Regulate energy performance after Certificate of Occupancy (NYC, Boulder)
- Requirements for new and existing public buildings - lead by example
- Financial and Tax Incentives

2017 zEPI Jurisdictional Scores

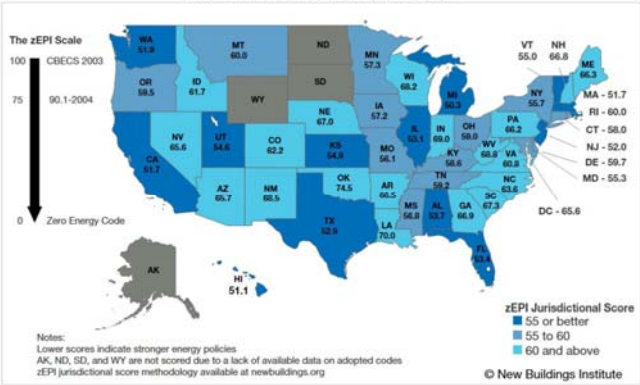


Fig 11. NBI has developed zEPI Jurisdictional Scores, which rank states based on their adopted energy policy.

'Electrification' and 'Decarbonization' are increasing as terms, topics and policies

States Getting to Zero

Washington ZE or ZE Capable in New Construction: **Executive Order 18-01**

Oregon Solar Ready and Carbon Neutrality: **Executive Order 17-20**

California ZE by 2025 and 2030: **Executive Order B-18-12**

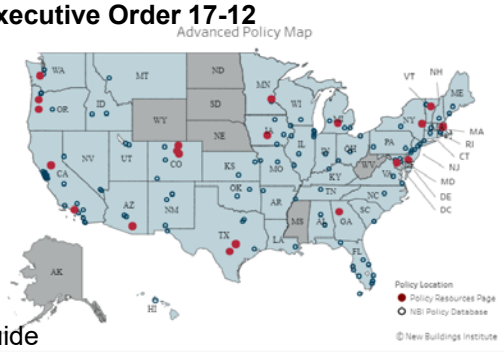
Minnesota ZE by 2030: Sustainable Building 2030 & **Executive Order 17-12**

New York Voluntary Stretch Code: **NYStretch**

Delaware ZE capable homes by 2025, ZE capable commercial by ZE: Senate Bill 59

Vermont ZE for all new residential & commercial by 2030

Virginia ZE Schools - HB 2192 requires use of the ASHRAE AEDG K-12 Zero Energy School Guide



Cities and Counties Getting to Zero

Carbon Neutral Polices – 37 cities targeting carbon neutral

Zero Energy Buildings – 11 cities with zero ordinances and propositions

New York City, NY
Pima County, AZ
Austin, TX
Lancaster, CA
Palo Alto, CA
Hayward, CA
Washington DC
Santa Monica, CA
Cambridge, MA
Boulder, CO
Park City, UT

State	zEPI Jurisdictional Score	ZE Emerging	ZE Verified
CA	51.7	192	22
OR	59.5	22	2
NY	55.7	13	4
AZ	65.7	15	1
MA	51.7	13	2

100% Renewables – > 90 cities, ten counties and two states have goals for energy to be supplied by 100% renewable energy but this is gaining traction as more cities look to adopt similar goals.

- *Six cities in the U.S. - Aspen, Burlington, Georgetown, Greensburg, Rock port, and Kodiak Island - have already hit their targets and now generate 100% of the energy used community-wide from clean, non-polluting and renewable sources.*

Source: https://www.sierraclub.org/ready-for-100/commitments

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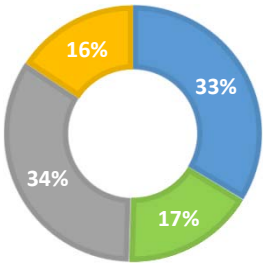
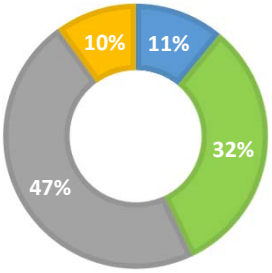
The 2018 Energy Efficiency Indicator Study surveyed 1,901 energy and facility management executives from twenty countries



- Commercial
- Institutional
- Industrial
- Other



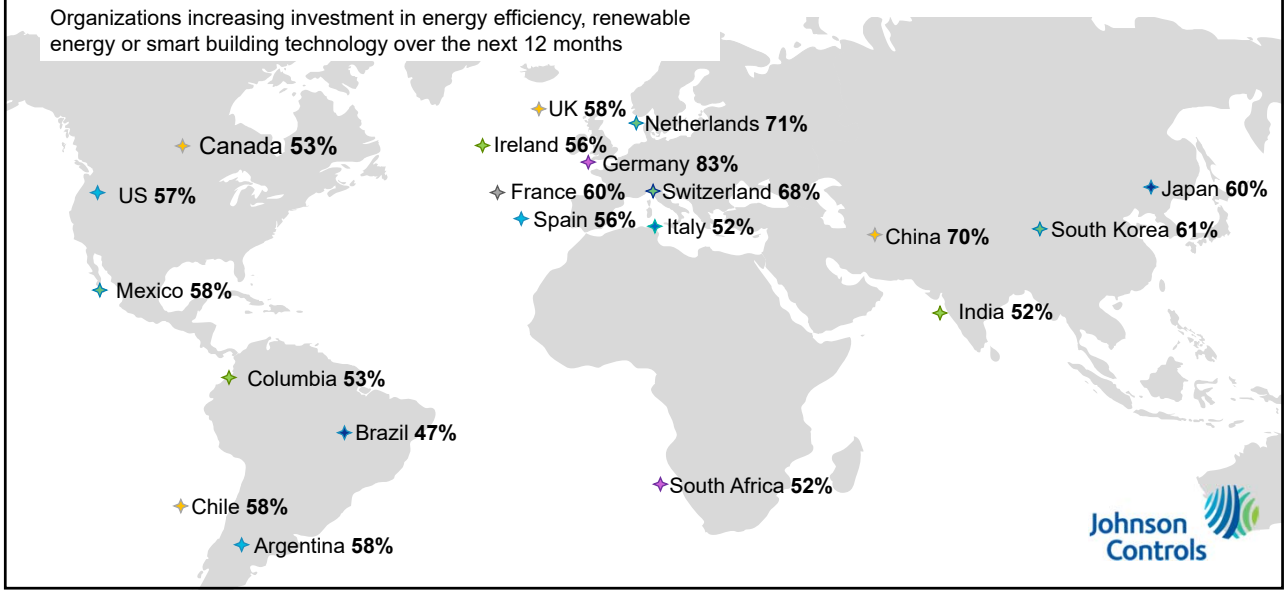
- C-Level
- Vice President / Director
- Manager
- Other

- Argentina
- Brazil
- Canada
- Chile
- China
- Colombia
- France
- Germany
- India
- Ireland
- Italy
- Japan
- Mexico
- Netherlands
- South Africa
- South Korea
- Spain
- Switzerland
- United Kingdom
- United States

Johnson Controls

Investment in energy efficiency, renewable energy, and smart building technology is expected to increase globally

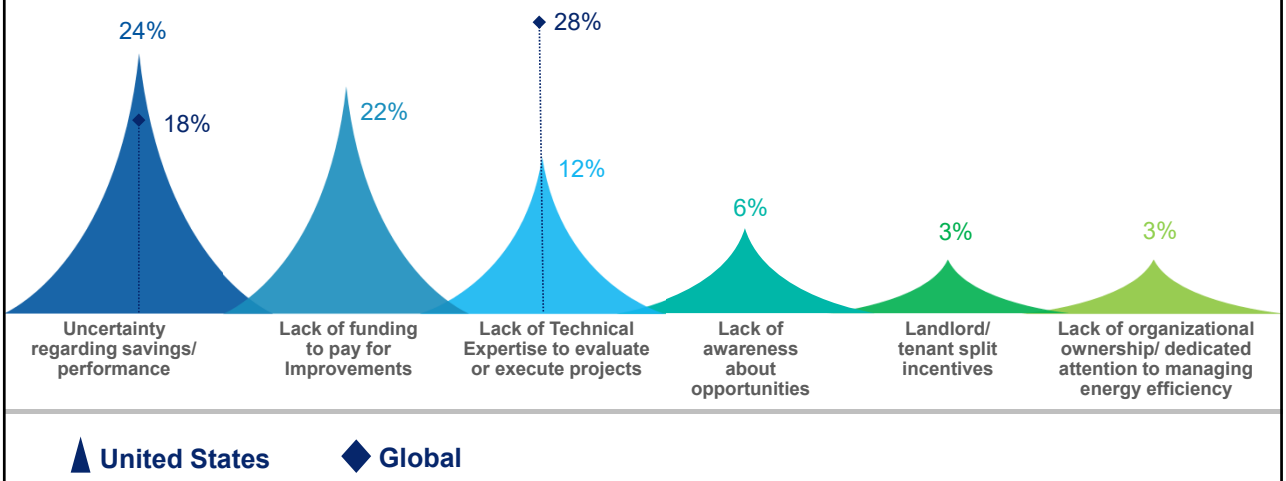
Organizations increasing investment in energy efficiency, renewable energy or smart building technology over the next 12 months



Greenhouse gas footprint reduction is the greatest driver of energy efficiency investments in the U.S., while globally it is energy cost savings

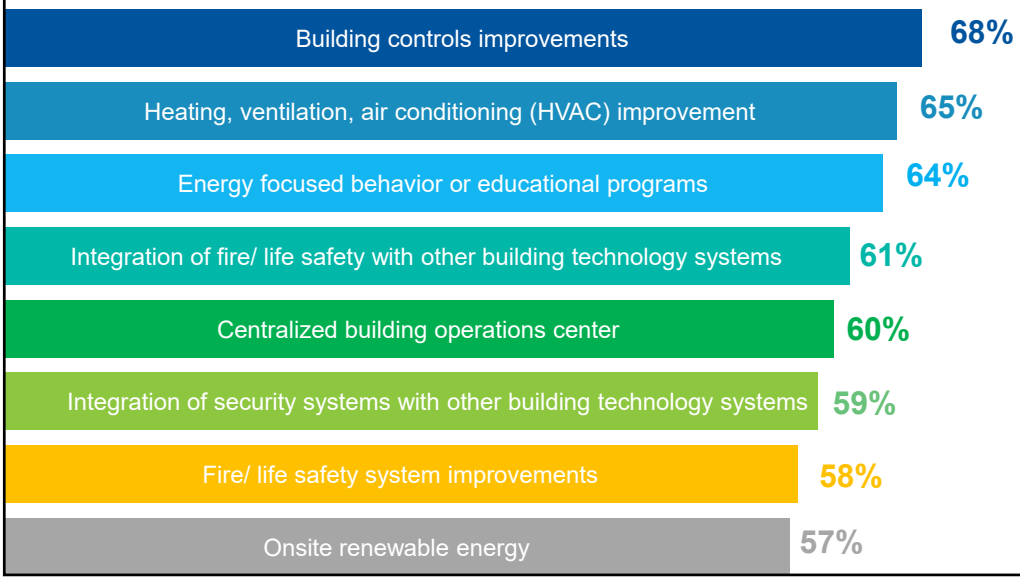
Organizations rating as very or extremely significant

Uncertainty regarding savings was rated as the top barrier to energy efficiency investments in the U.S., while globally, it is lack of technical expertise



Building controls improvements are expected to have the greatest rate of investment over the coming year

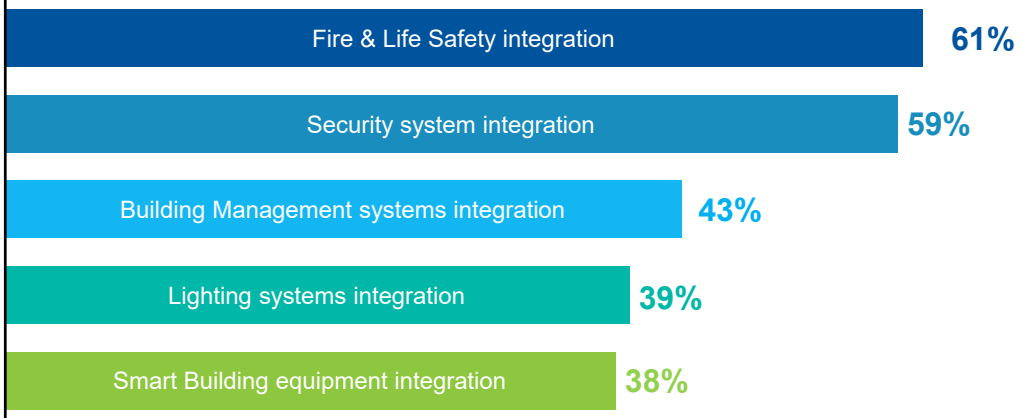
US organizations investing in the next 12 months



Johnson Controls

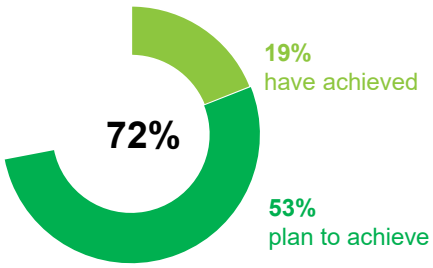
The trend towards integration will continue with strong investment planned in the next year

US organizations investing in the next 12 months



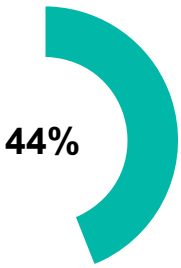
Johnson Controls

Interest in achieving green building certification and leasing space in green buildings is high in the U.S.



Green Building Certification

US respondents that have achieved or plan to achieve voluntary green building certification



Green Buildings in Leased Space

US respondents that are willing to pay a premium for space in a certified green building

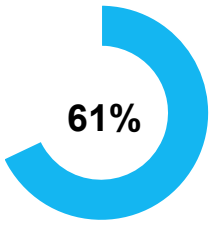
Global

57% of respondents plan to achieve or already have achieved voluntary green building certification

51% of respondents are willing to pay a premium for space in a certified green building

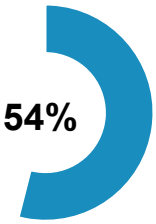
Johnson Controls

Net zero and resilience are important drivers in future building infrastructure investments



Net Zero Energy / Carbon

US respondents that are very or extremely likely to have one or more facilities that are nearly zero, net zero or positive energy or carbon status in the next ten years



Going off the grid

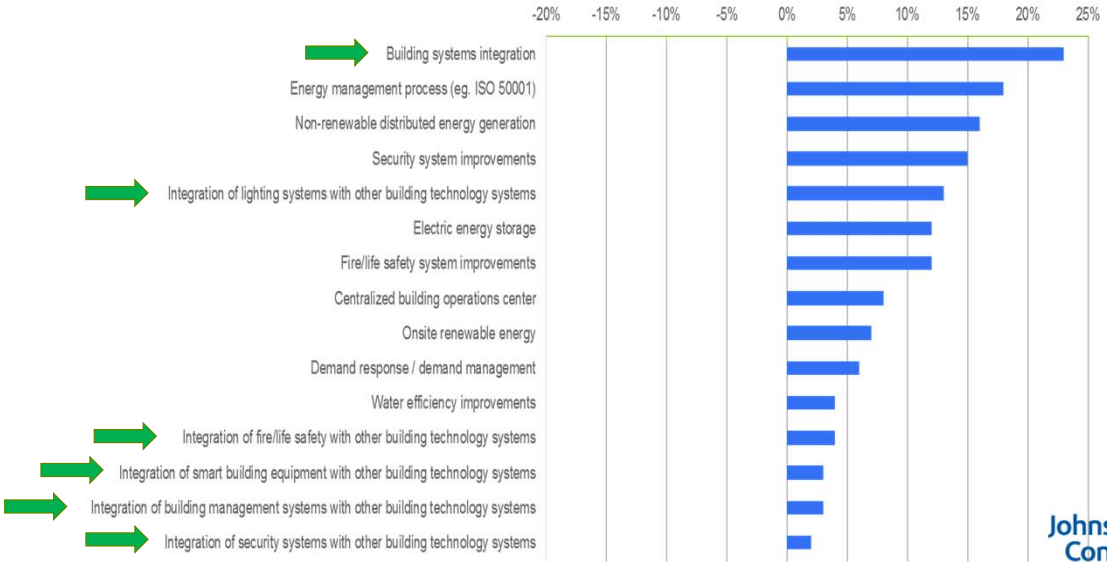
US respondents that are very or extremely likely to have one or more facilities able to operate off the grid in the next ten years

Global

Canada, Italy, Switzerland and Germany are the only countries with higher likelihoods of having one or more net zero energy/carbon buildings in the next ten years

Johnson Controls

Smart building measures show the greatest increase between planned and previous year investments in the U.S.



Johnson Controls

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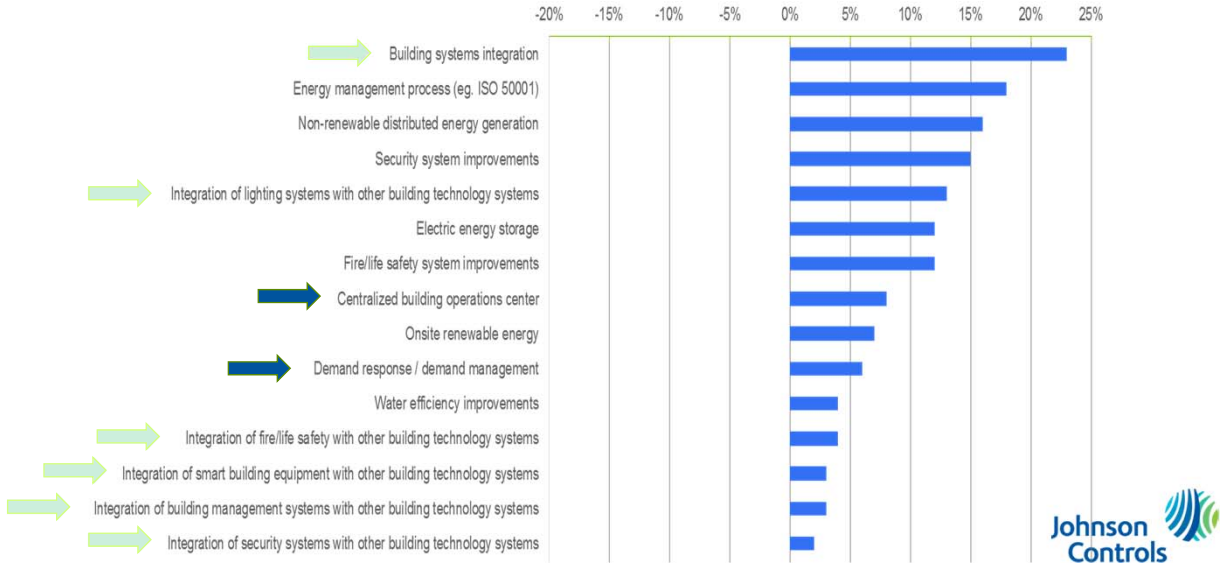
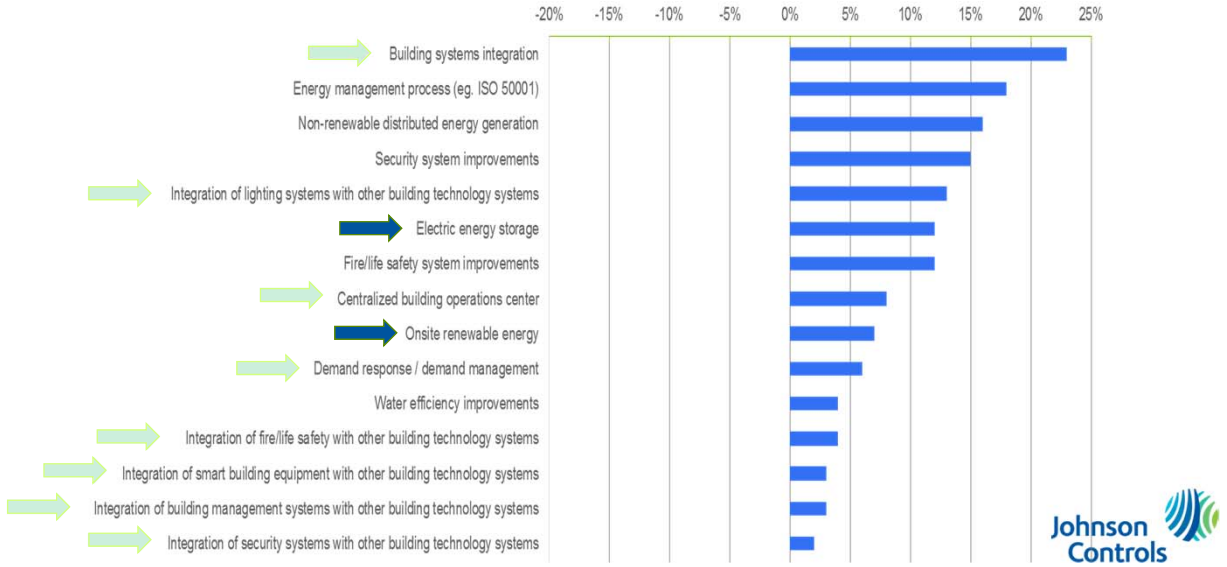
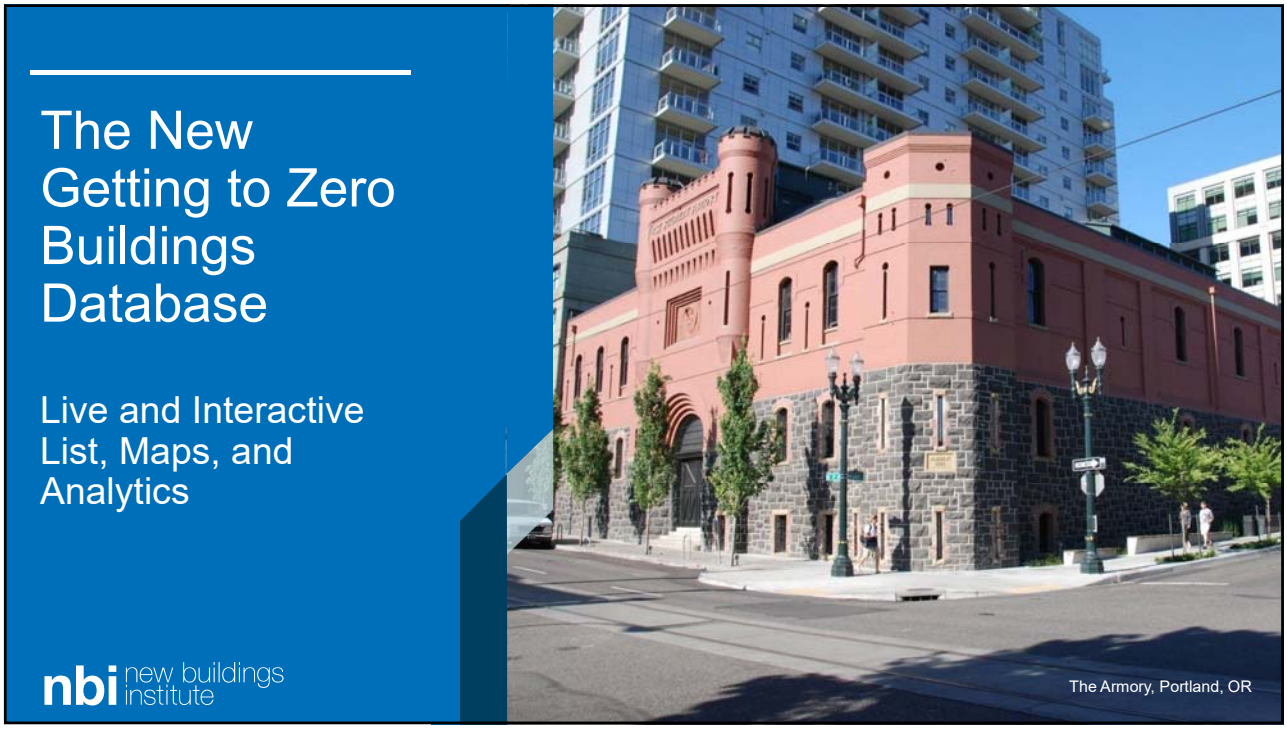


Smart building measures show the greatest increase between planned and previous year investments in the U.S.




Johnson Controls
Energy Efficiency Indicator
Clay Nesler
VP, Global Sustainability and Regulatory Affairs
clay.g.nesler@jci.com
@ClayNesler
2018


The New Getting to Zero Buildings Database
Live and Interactive List, Maps, and Analytics
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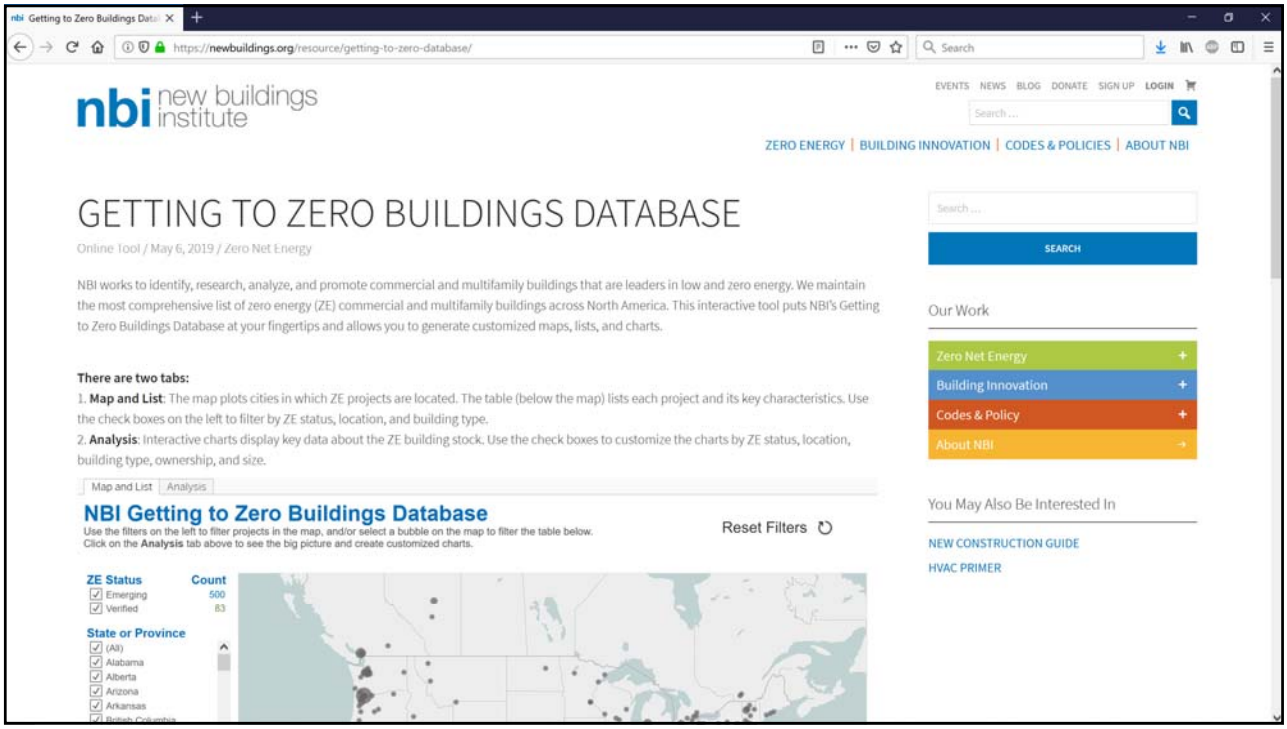
The Armory, Portland, OR


Getting to Zero Buildings Data
https://newbuildings.org/resource/getting-to-zero-database/
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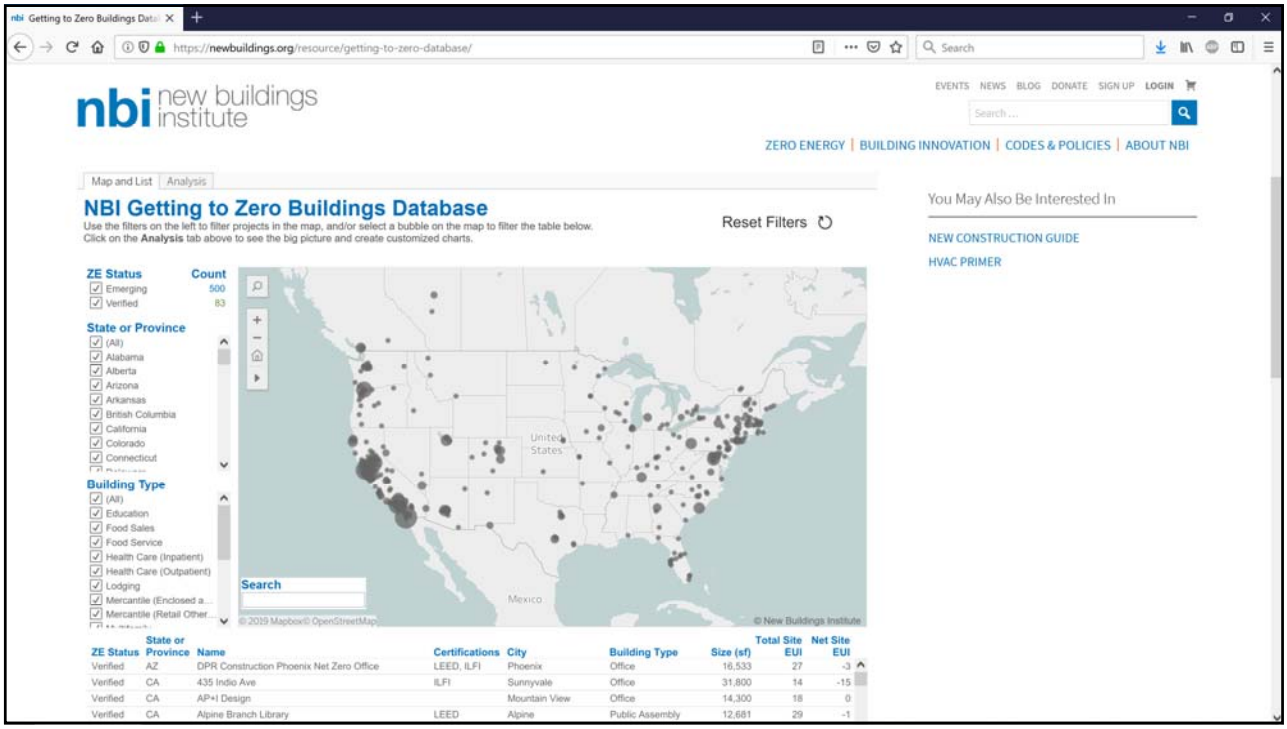
EVENTS NEWS BLOG DONATE SIGN UP LOGIN
ZERO ENERGY | BUILDING INNOVATION | CODES & POLICIES | ABOUT NBI
GETTING TO ZERO BUILDINGS DATABASE
Online Tool / May 6, 2019 / Zero Net Energy
NBI works to identify, research, analyze, and promote commercial and multifamily buildings that are leaders in low and zero energy. We maintain the most comprehensive list of zero energy (ZE) commercial and multifamily buildings across North America. This interactive tool puts NBI's Getting to Zero Buildings Database at your fingertips and allows you to generate customized maps, lists, and charts.
There are two tabs:
1. Map and List: The map plots cities in which ZE projects are located. The table (below the map) lists each project and its key characteristics. Use the check boxes on the left to filter by ZE status, location, and building type.
2. Analysis: Interactive charts display key data about the ZE building stock. Use the check boxes to customize the charts by ZE status, location, building type, ownership, and size.
Map and List
Analysis
NBI Getting to Zero Buildings Database
Use the filters on the left to filter projects in the map, and/or select a bubble on the map to filter the table below.
Click on the Analysis tab above to see the big picture and create customized charts.
Reset Filters
ZE Status
Count
Emerging 500
Verified 83
State or Province
(All)
Alabama
Alberta
Arizona
Arkansas
SEARCH
Our Work
Zero Net Energy
Building Innovation
Codes & Policy
About NBI
You May Also Be Interested In
NEW CONSTRUCTION GUIDE
HVAC PRIMER


Getting to Zero Buildings Data
https://newbuildings.org/resource/getting-to-zero-database/
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ZERO ENERGY | BUILDING INNOVATION | CODES & POLICIES | ABOUT NBI
Map and List
Analysis
NBI Getting to Zero Buildings Database
Use the filters on the left to filter projects in the map, and/or select a bubble on the map to filter the table below.
Click on the Analysis tab above to see the big picture and create customized charts.
Reset Filters
ZE Status
Count
Emerging 500
Verified 83
State or Province
(All)
Alabama
Alberta
Arizona
Arkansas
British Columbia
California
Colorado
Connecticut
Building Type
(All)
Education
Food Sales
Food Service
Health Care (Inpatient)
Health Care (Outpatient)
Lodging
Mercantile (Enclosed a...
Mercantile (Retail Other...
United States
Mexico
Search
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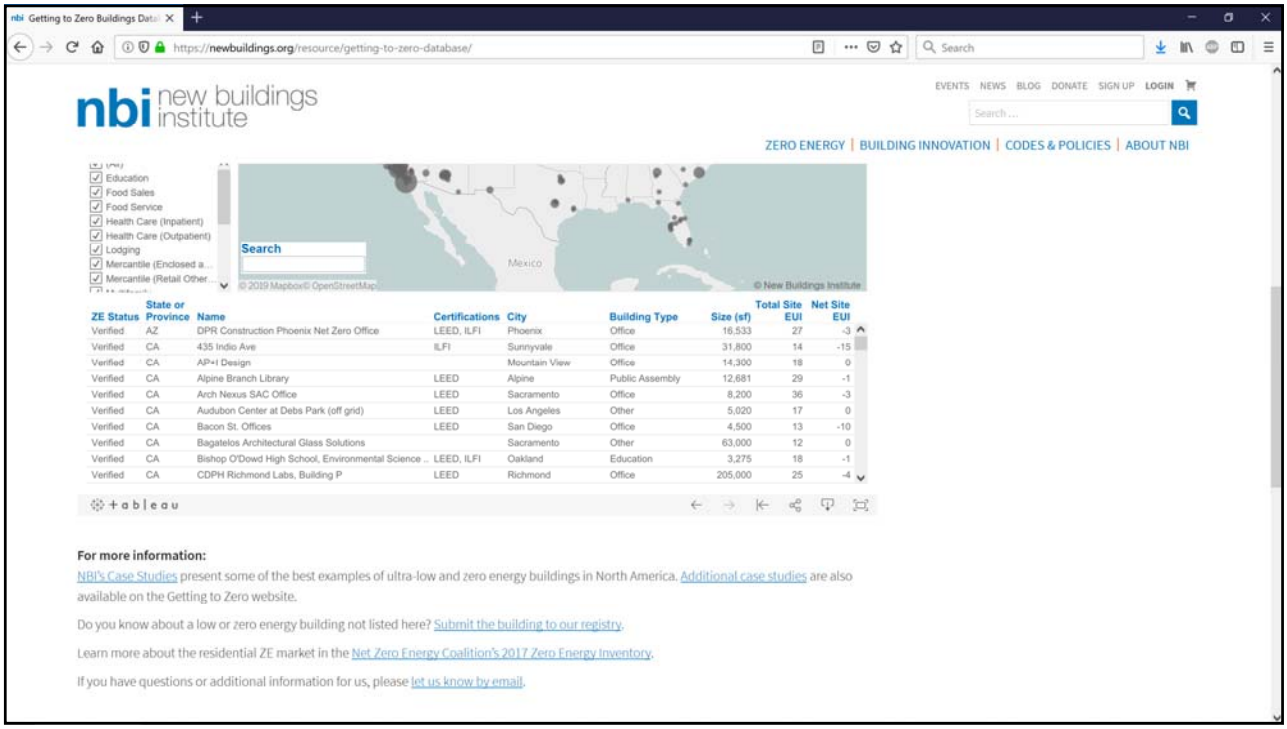
HVAC PRIMER
ZE Status | State or Province | Name | Certifications | City | Building Type | Size (sf) | Total Site EUI | Net Site EUI
Verified | AZ | DPR Construction Phoenix Net Zero Office | LEED, ILFI | Phoenix | Office | 16,533 | 27 | -3
Verified | CA | 435 Indio Ave | ILFI | Sunnyvale | Office | 31,800 | 14 | -15
Verified | CA | AP+I Design | | Mountain View | Office | 14,300 | 18 | 0
Verified | CA | Alpine Branch Library | LEED | Alpine | Public Assembly | 12,681 | 29 | -1


Getting to Zero Buildings Data
https://newbuildings.org/resource/getting-to-zero-database/
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ZERO ENERGY | BUILDING INNOVATION | CODES & POLICIES | ABOUT NBI
Education
Food Sales
Food Service
Health Care (Inpatient)
Health Care (Outpatient)
Lodging
Mercantile (Enclosed a...
Mercantile (Retail Other...
Search
Mexico
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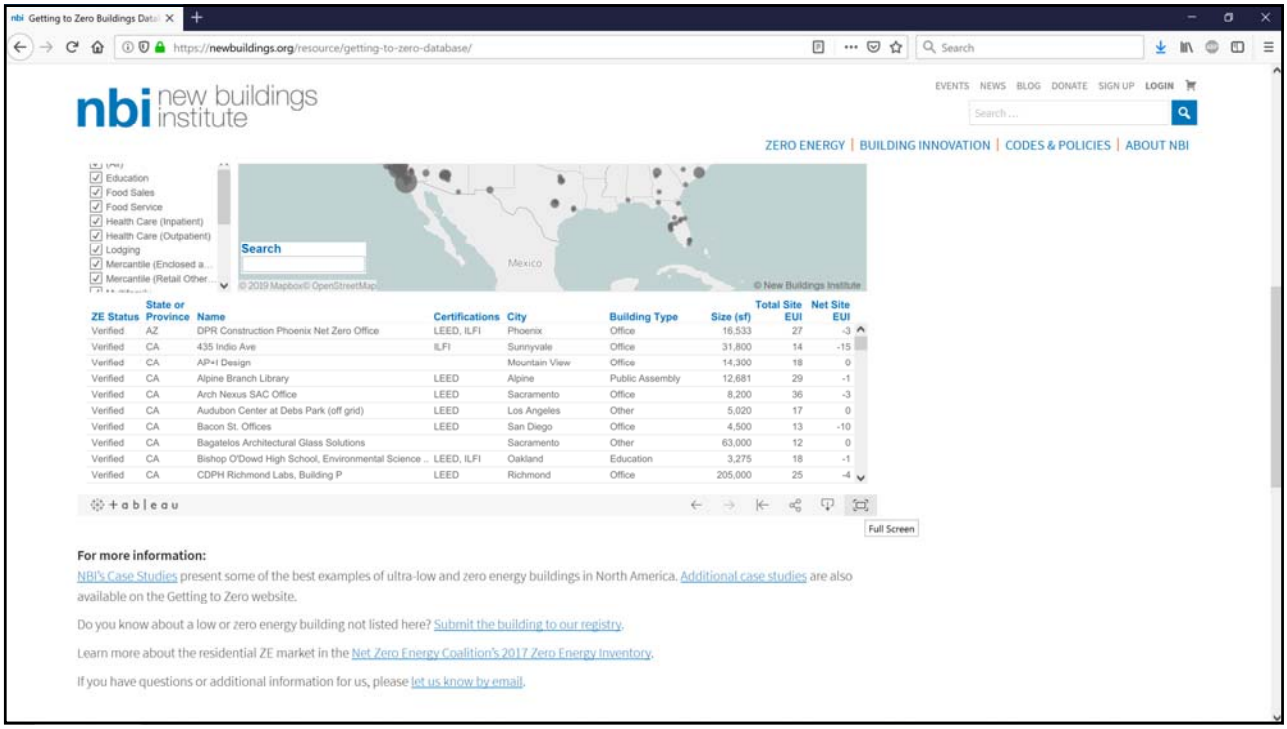
ZE Status | State or Province | Name | Certifications | City | Building Type | Size (sf) | Total Site EUI | Net Site EUI
Verified | AZ | DPR Construction Phoenix Net Zero Office | LEED, ILFI | Phoenix | Office | 16,533 | 27 | -3
Verified | CA | 435 Indio Ave | ILFI | Sunnyvale | Office | 31,800 | 14 | -15
Verified | CA | AP+I Design | | Mountain View | Office | 14,300 | 18 | 0
Verified | CA | Alpine Branch Library | LEED | Alpine | Public Assembly | 12,681 | 29 | -1
Verified | CA | Arch Nexus SAC Office | LEED | Sacramento | Office | 8,200 | 36 | -3
Verified | CA | Audubon Center at Debs Park (off grid) | LEED | Los Angeles | Other | 5,020 | 17 | 0
Verified | CA | Bacon St. Offices | LEED | San Diego | Office | 4,500 | 13 | -10
Verified | CA | Bagatelos Architectural Glass Solutions | | Sacramento | Other | 63,000 | 12 | 0
Verified | CA | Bishop O'Dowd High School, Environmental Science .. | LEED, ILFI | Oakland | Education | 3,275 | 18 | -1
Verified | CA | CDPH Richmond Labs, Building P | LEED | Richmond | Office | 205,000 | 25 | -4
+ableau
For more information:
NBI's Case Studies present some of the best examples of ultra-low and zero energy buildings in North America. Additional case studies are also available on the Getting to Zero website.
Do you know about a low or zero energy building not listed here? Submit the building to our registry.
Learn more about the residential ZE market in the Net Zero Energy Coalition's 2017 Zero Energy Inventory.
If you have questions or additional information for us, please let us know by email.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ZERO ENERGY | BUILDING INNOVATION | CODES & POLICIES | ABOUT NBI
Education
Food Sales
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Search
Mexico
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ZE Status | State or Province | Name | Certifications | City | Building Type | Size (sf) | Total Site EUI | Net Site EUI
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Verified | CA | AP+I Design | | Mountain View | Office | 14,300 | 18 | 0
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Verified | CA | Audubon Center at Debs Park (off grid) | LEED | Los Angeles | Other | 5,020 | 17 | 0
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Verified | CA | Bagatelos Architectural Glass Solutions | | Sacramento | Other | 63,000 | 12 | 0
Verified | CA | Bishop O'Dowd High School, Environmental Science .. | LEED, ILFI | Oakland | Education | 3,275 | 18 | -1
Verified | CA | CDPH Richmond Labs, Building P | LEED | Richmond | Office | 205,000 | 25 | -4
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Full Screen
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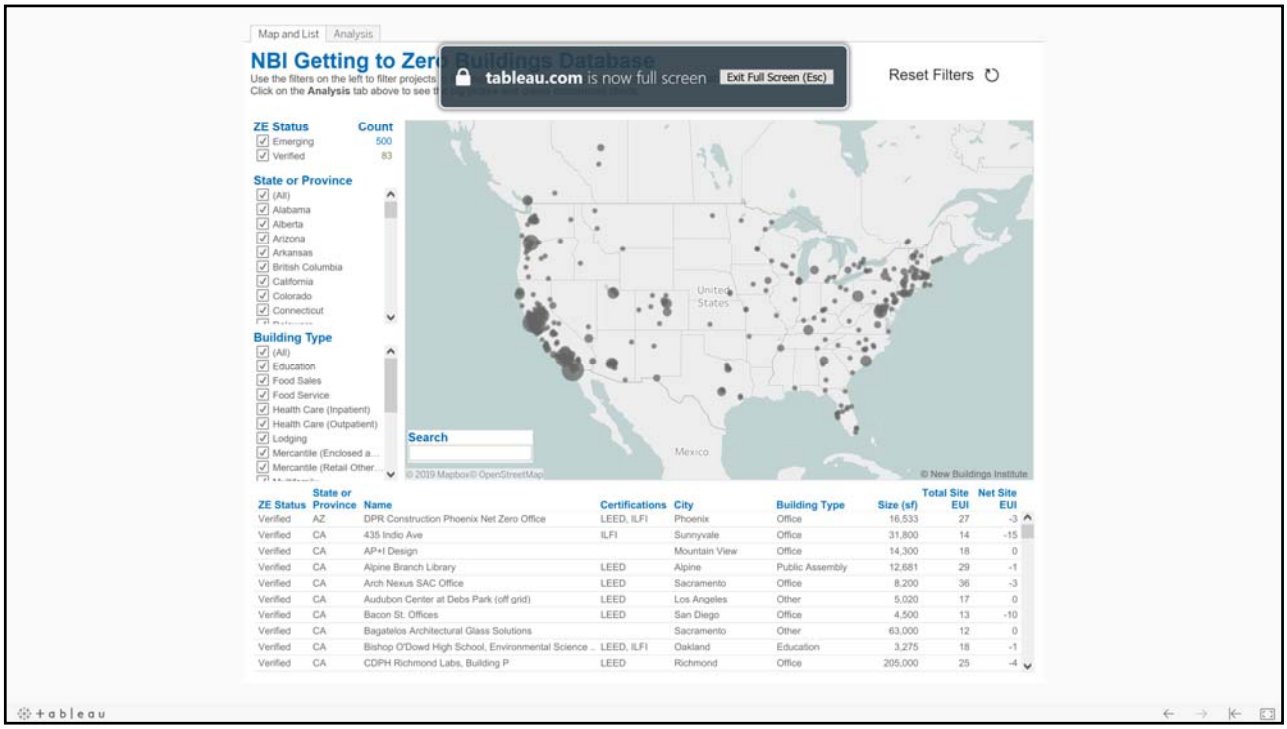
Map and List
Analysis
NBI Getting to Zero Buildings Database
tableau.com is now full screen
Exit Full Screen (Esc)
Reset Filters
ZE Status
Count
Emerging 500
Verified 83
State or Province
(All)
Alabama
Alberta
Arizona
Arkansas
British Columbia
California
Colorado
Connecticut
Building Type
(All)
Education
Food Sales
Food Service
Health Care (Inpatient)
Health Care (Outpatient)
Lodging
Mercantile (Enclosed a...
Mercantile (Retail Other...
Search
United States
Mexico
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ZE Status | State or Province | Name | Certifications | City | Building Type | Size (sf) | Total Site EUI | Net Site EUI
Verified | AZ | DPR Construction Phoenix Net Zero Office | LEED, ILFI | Phoenix | Office | 16,533 | 27 | -3
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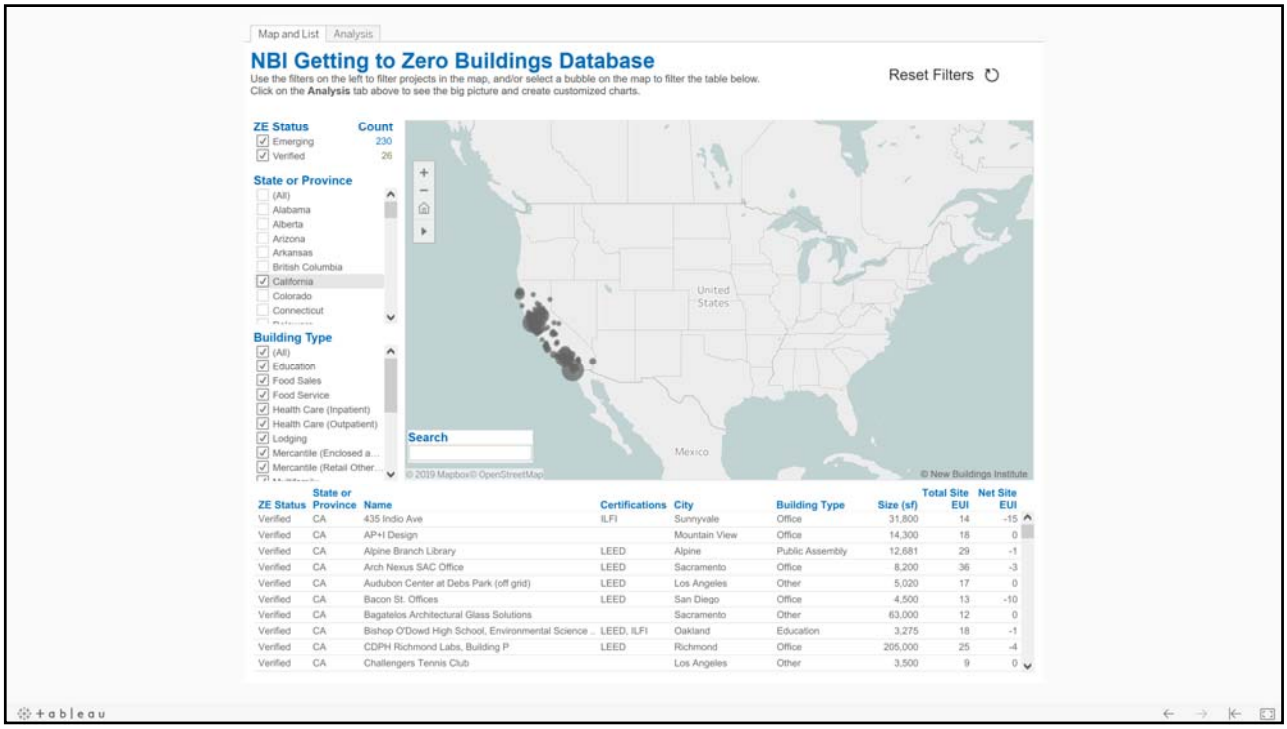
Verified | CA | AP+I Design | | Mountain View | Office | 14,300 | 18 | 0
Verified | CA | Alpine Branch Library | LEED | Alpine | Public Assembly | 12,681 | 29 | -1
Verified | CA | Arch Nexus SAC Office | LEED | Sacramento | Office | 8,200 | 36 | -3
Verified | CA | Audubon Center at Debs Park (off grid) | LEED | Los Angeles | Other | 5,020 | 17 | 0
Verified | CA | Bacon St. Offices | LEED | San Diego | Office | 4,500 | 13 | -10
Verified | CA | Bagatelos Architectural Glass Solutions | | Sacramento | Other | 63,000 | 12 | 0
Verified | CA | Bishop O'Dowd High School, Environmental Science .. | LEED, ILFI | Oakland | Education | 3,275 | 18 | -1
Verified | CA | CDPH Richmond Labs, Building P | LEED | Richmond | Office | 205,000 | 25 | -4
+ableau


Map and List
Analysis
NBI Getting to Zero Buildings Database
Use the filters on the left to filter projects in the map, and/or select a bubble on the map to filter the table below.
Click on the Analysis tab above to see the big picture and create customized charts.
Reset Filters
ZE Status
Count
Emerging 230
Verified 26
State or Province
(All)
Alabama
Alberta
Arizona
Arkansas
British Columbia
California
Colorado
Connecticut
Building Type
(All)
Education
Food Sales
Food Service
Health Care (Inpatient)
Health Care (Outpatient)
Lodging
Mercantile (Enclosed a...
Mercantile (Retail Other...
Search
United States
Mexico
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ZE Status | State or Province | Name | Certifications | City | Building Type | Size (sf) | Total Site EUI | Net Site EUI
Verified | CA | 435 Indio Ave | ILFI | Sunnyvale | Office | 31,800 | 14 | -15
Verified | CA | AP+I Design | | Mountain View | Office | 14,300 | 18 | 0
Verified | CA | Alpine Branch Library | LEED | Alpine | Public Assembly | 12,681 | 29 | -1
Verified | CA | Arch Nexus SAC Office | LEED | Sacramento | Office | 8,200 | 36 | -3
Verified | CA | Audubon Center at Debs Park (off grid) | LEED | Los Angeles | Other | 5,020 | 17 | 0
Verified | CA | Bacon St. Offices | LEED | San Diego | Office | 4,500 | 13 | -10
Verified | CA | Bagatelos Architectural Glass Solutions | | Sacramento | Other | 63,000 | 12 | 0
Verified | CA | Bishop O'Dowd High School, Environmental Science .. | LEED, ILFI | Oakland | Education | 3,275 | 18 | -1
Verified | CA | CDPH Richmond Labs, Building P | LEED | Richmond | Office | 205,000 | 25 | -4
Verified | CA | Challengers Tennis Club | | Los Angeles | Other | 3,500 | 9 | 0
+ableau

Map and List | Analysis

NBI Getting to Zero Buildings Database

Use the filters on the left to filter projects in the map, and/or select a bubble on the map to filter the table below.
Click on the **Analysis** tab above to see the big picture and create customized charts.

Reset Filters

ZE Status — Count
- [x] Emerging 230
- [x] Verified 26

State or Province
- [ ] (All)
- [ ] Alabama
- [ ] Alberta
- [ ] Arizona
- [ ] Arkansas
- [ ] British Columbia
- [x] California
- [ ] Colorado
- [ ] Connecticut

Building Type
- [x] (All)
- [x] Education
- [x] Food Sales
- [x] Food Service
- [x] Health Care (Inpatient)
- [x] Health Care (Outpatient)
- [x] Lodging
- [x] Mercantile (Enclosed a...
- [x] Mercantile (Retail Other...

ZE Status	State or Province	Name	Certifications	City	Building Type	Size (sf)	Total Site EUI	Net Site EUI
Verified	CA	435 Indio Ave	ILFI	Sunnyvale	Office	31,800	14	-15
Verified	CA	AP+I Design		Mountain View	Office	14,300	18	0
Verified	CA	Alpine Branch Library	LEED	Alpine	Public Assembly	12,681	29	-1
Verified	CA	Arch Nexus SAC Office	LEED	Sacramento	Office	8,200	36	-3
Verified	CA	Audubon Center at Debs Park (off grid)	LEED	Los Angeles	Other	5,020	17	0
Verified	CA	Bacon St. Offices	LEED	San Diego	Office	4,500	13	-10
Verified	CA	Bagatelos Architectural Glass Solutions		Sacramento	Other	63,000	12	0
Verified	CA	Bishop O'Dowd High School, Environmental Science ...	LEED, ILFI	Oakland	Education	3,275	18	-1
Verified	CA	CDPH Richmond Labs, Building P	LEED	Richmond	Office	205,000	25	-4
Verified	CA	Challengers Tennis Club		Los Angeles	Other	3,500	9	0

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Map and List | Analysis

NBI Getting to Zero Buildings Database

Use the filters on the left to filter projects in the map, and/or select a bubble on the map to filter the table below.
Click on the **Analysis** tab above to see the big picture and create customized charts.

Reset Filters

ZE Status — Count
- [x] Emerging 77
- [x] Verified 6

State or Province
- [ ] (All)
- [ ] Alabama
- [ ] Alberta
- [ ] Arizona
- [ ] Arkansas
- [ ] British Columbia
- [x] California
- [ ] Colorado
- [ ] Connecticut

Building Type
- [ ] (All)
- [x] Education
- [ ] Food Sales
- [ ] Food Service
- [ ] Health Care (Inpatient)
- [ ] Health Care (Outpatient)
- [ ] Lodging
- [ ] Mercantile (Enclosed a...
- [ ] Mercantile (Retail Other...

ZE Status	State or Province	Name	Certifications	City	Building Type	Size (sf)	Total Site EUI	Net Site EUI
Verified	CA	Bishop O'Dowd High School, Environmental Science ...	LEED, ILFI	Oakland	Education	3,275	18	-1
Verified	CA	EcoCenter at Heron's Head Park (off grid)	LEED, ILFI	San Francisco	Education	2,400		
Verified	CA	Environmental Nature Center	LEED	Newport Beach	Education	8,535	18	-10
Verified	CA	Environmental Tech. Center Sonoma State		Rohnert Park	Education	2,200	2	-1
Verified	CA	IBEW Local 595 Zero Net Energy Center		San Leandro	Education	45,001	15	-6
Verified	CA	Sacred Heart Schools Stevens Family Library	LEED, ILFI	Atherton	Education	6,800	13	-18
Emerging	CA	Aquarium of the Pacific Watershed Addition	LEED	Long Beach	Education	2,500		
Emerging	CA	BEST Center at Laney College	LEED	Oakland	Education			
Emerging	CA	Blackford School Multi-Use Building		San Jose	Education			
Emerging	CA	Broadway High School	LEED	San Jose	Education			

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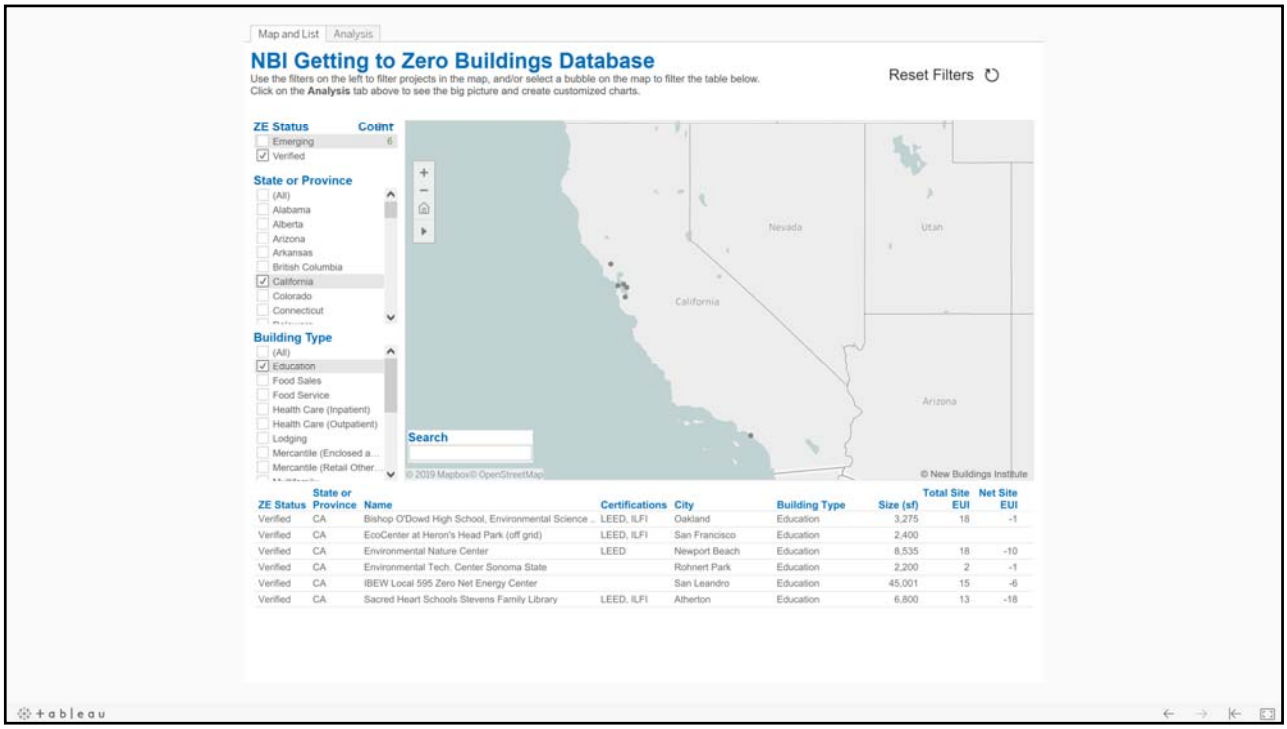
Map and List
Analysis
NBI Getting to Zero Buildings Database
Use the filters on the left to filter projects in the map, and/or select a bubble on the map to filter the table below.
Click on the Analysis tab above to see the big picture and create customized charts.
Reset Filters
ZE Status
Count
Emerging 6
Verified
State or Province
(All)
Alabama
Alberta
Arizona
Arkansas
British Columbia
California
Colorado
Connecticut
Building Type
(All)
Education
Food Sales
Food Service
Health Care (Inpatient)
Health Care (Outpatient)
Lodging
Mercantile (Enclosed a...
Mercantile (Retail Other...
Search
Nevada
Utah
California
Arizona
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ZE Status | State or Province | Name | Certifications | City | Building Type | Size (sf) | Total Site EUI | Net Site EUI
Verified | CA | Bishop O'Dowd High School, Environmental Science ... | LEED, ILFI | Oakland | Education | 3,275 | 18 | -1
Verified | CA | EcoCenter at Heron's Head Park (off grid) | LEED, ILFI | San Francisco | Education | 2,400
Verified | CA | Environmental Nature Center | LEED | Newport Beach | Education | 8,535 | 18 | -10
Verified | CA | Environmental Tech. Center Sonoma State | | Rohnert Park | Education | 2,200 | 2 | -1
Verified | CA | IBEW Local 595 Zero Net Energy Center | | San Leandro | Education | 45,001 | 15 | -6
Verified | CA | Sacred Heart Schools Stevens Family Library | LEED, ILFI | Atherton | Education | 6,800 | 13 | -18
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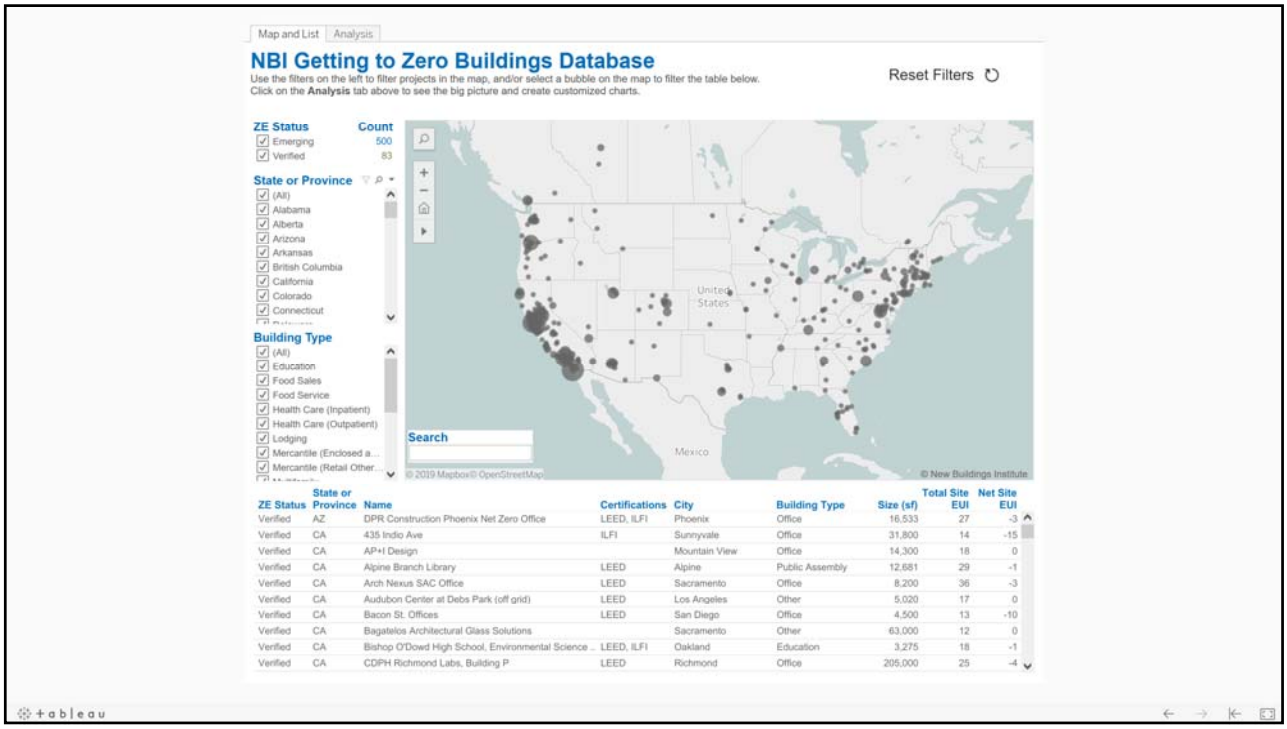
Map and List
Analysis
NBI Getting to Zero Buildings Database
Use the filters on the left to filter projects in the map, and/or select a bubble on the map to filter the table below.
Click on the Analysis tab above to see the big picture and create customized charts.
Reset Filters
ZE Status
Count
Emerging 500
Verified 83
State or Province
(All)
Alabama
Alberta
Arizona
Arkansas
British Columbia
California
Colorado
Connecticut
Building Type
(All)
Education
Food Sales
Food Service
Health Care (Inpatient)
Health Care (Outpatient)
Lodging
Mercantile (Enclosed a...
Mercantile (Retail Other...
Search
United States
Mexico
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ZE Status | State or Province | Name | Certifications | City | Building Type | Size (sf) | Total Site EUI | Net Site EUI
Verified | AZ | DPR Construction Phoenix Net Zero Office | LEED, ILFI | Phoenix | Office | 16,533 | 27 | -3
Verified | CA | 435 Indio Ave | ILFI | Sunnyvale | Office | 31,800 | 14 | -15
Verified | CA | AP+I Design | | Mountain View | Office | 14,300 | 18 | 0
Verified | CA | Alpine Branch Library | LEED | Alpine | Public Assembly | 12,681 | 29 | -1
Verified | CA | Arch Nexus SAC Office | LEED | Sacramento | Office | 8,200 | 36 | -3
Verified | CA | Audubon Center at Debs Park (off grid) | LEED | Los Angeles | Other | 5,020 | 17 | 0
Verified | CA | Bacon St. Offices | LEED | San Diego | Office | 4,500 | 13 | -10
Verified | CA | Bagatelos Architectural Glass Solutions | | Sacramento | Other | 63,000 | 12 | 0
Verified | CA | Bishop O'Dowd High School, Environmental Science ... | LEED, ILFI | Oakland | Education | 3,275 | 18 | -1
Verified | CA | CDPH Richmond Labs, Building P | LEED | Richmond | Office | 205,000 | 25 | -4
+ableau

Map and List | Analysis

NBI Getting to Zero Buildings Database

Use the filters on the left to filter projects in the map, and/or select a bubble on the map to filter the table below.
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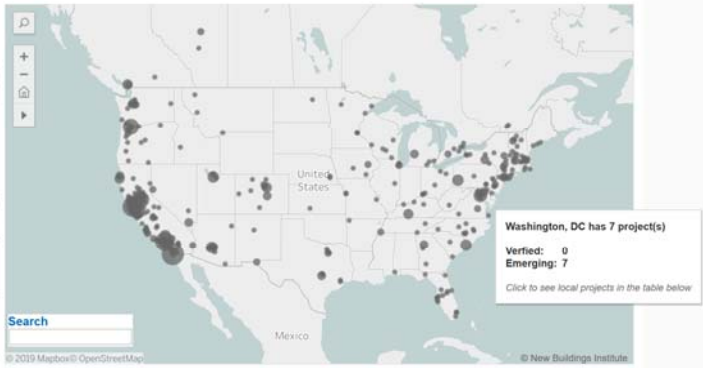
Reset Filters

ZE Status — Count
- Emerging 500
- Verified 83

State or Province
- (All)
- Alabama
- Alberta
- Arizona
- Arkansas
- British Columbia
- California
- Colorado
- Connecticut

Building Type
- (All)
- Education
- Food Sales
- Food Service
- Health Care (Inpatient)
- Health Care (Outpatient)
- Lodging
- Mercantile (Enclosed a...
- Mercantile (Retail Other...



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Verified	CA	Alpine Branch Library	LEED	Alpine	Public Assembly	12,681	29	-1
Verified	CA	Arch Nexus SAC Office	LEED	Sacramento	Office	8,200	36	-3
Verified	CA	Audubon Center at Debs Park (off grid)	LEED	Los Angeles	Other	5,020	17	0
Verified	CA	Bacon St. Offices	LEED	San Diego	Office	4,500	13	-10
Verified	CA	Bagatelos Architectural Glass Solutions		Sacramento	Other	63,000	12	0
Verified	CA	Bishop O'Dowd High School, Environmental Science ...	LEED, ILFI	Oakland	Education	3,275	18	-1
Verified	CA	CDPH Richmond Labs, Building P	LEED	Richmond	Office	205,000	25	-4

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Map and List | Analysis

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Reset Filters

ZE Status — Count
- Emerging 7
- Verified

State or Province
- (All)
- Alabama
- Alberta
- Arizona
- Arkansas
- British Columbia
- California
- Colorado
- Connecticut

Building Type
- (All)
- Education
- Food Sales
- Food Service
- Health Care (Inpatient)
- Health Care (Outpatient)
- Lodging
- Mercantile (Enclosed a...
- Mercantile (Retail Other...

ZE Status	State or Province	Name	Certifications	City	Building Type	Size (sf)	Total Site EUI	Net Site EUI
Emerging	DC	American Geophysical Union HQ		Washington	Office	62,000		
Emerging	DC	Cycle House		Washington	Multifamily	15,000		
Emerging	DC	Grass Education Center		Washington	Education	3,800		
Emerging	DC	Langston Terrace Dwellings		Washington	Multifamily			
Emerging	DC	Perry Street Townhomes		Washington	Multifamily	7,104		
Emerging	DC	Stack Eight		Washington	Multifamily			
Emerging	DC	Takoma Village Cohousing		Washington	Multifamily	51,000	26	20

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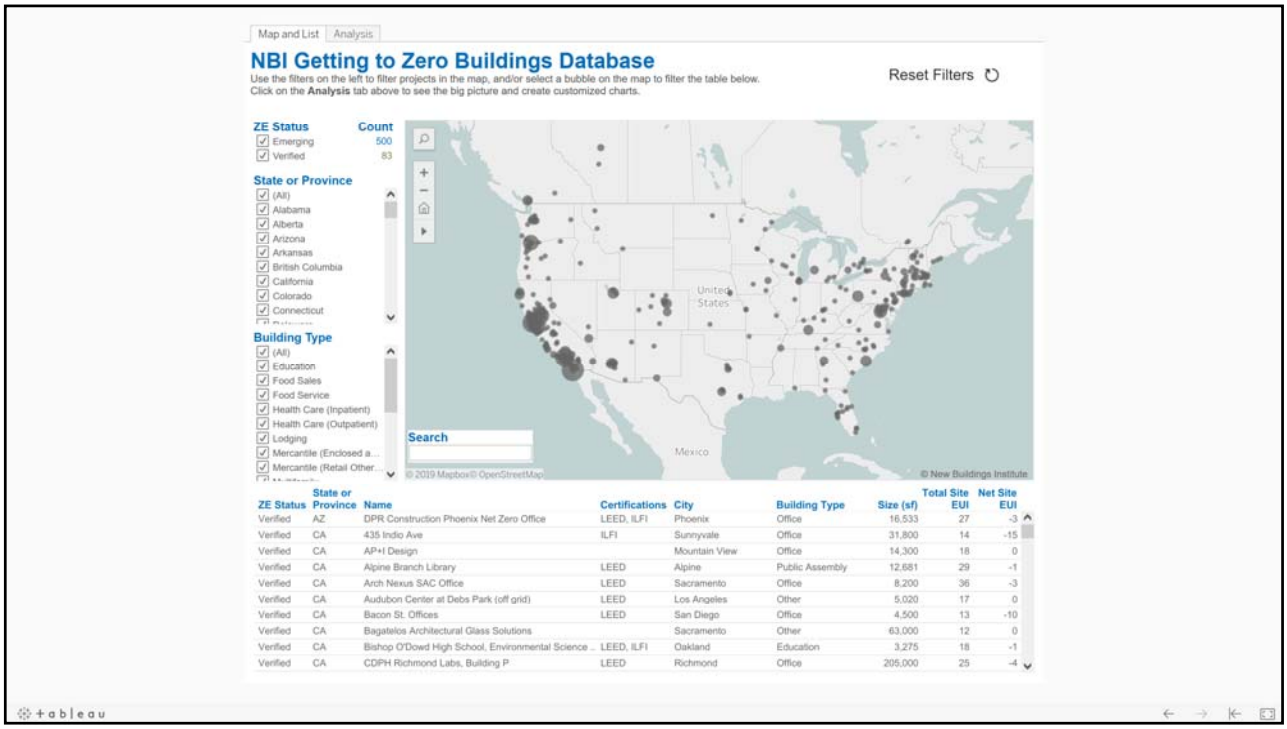
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Count
Emerging 500
Verified 83
State or Province
(All)
Alabama
Alberta
Arizona
Arkansas
British Columbia
California
Colorado
Connecticut
Building Type
(All)
Education
Food Sales
Food Service
Health Care (Inpatient)
Health Care (Outpatient)
Lodging
Mercantile (Enclosed a...
Mercantile (Retail Other...
Search
United States
Mexico
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Verified | CA | 435 Indio Ave | ILFI | Sunnyvale | Office | 31,800 | 14 | -15
Verified | CA | AP+I Design | | Mountain View | Office | 14,300 | 18 | 0
Verified | CA | Alpine Branch Library | LEED | Alpine | Public Assembly | 12,681 | 29 | -1
Verified | CA | Arch Nexus SAC Office | LEED | Sacramento | Office | 8,200 | 36 | -3
Verified | CA | Audubon Center at Debs Park (off grid) | LEED | Los Angeles | Other | 5,020 | 17 | 0
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Verified | CA | Bagatelos Architectural Glass Solutions | | Sacramento | Other | 63,000 | 12 | 0
Verified | CA | Bishop O'Dowd High School, Environmental Science ... | LEED, ILFI | Oakland | Education | 3,275 | 18 | -1
Verified | CA | CDPH Richmond Labs, Building P | LEED | Richmond | Office | 205,000 | 25 | -4
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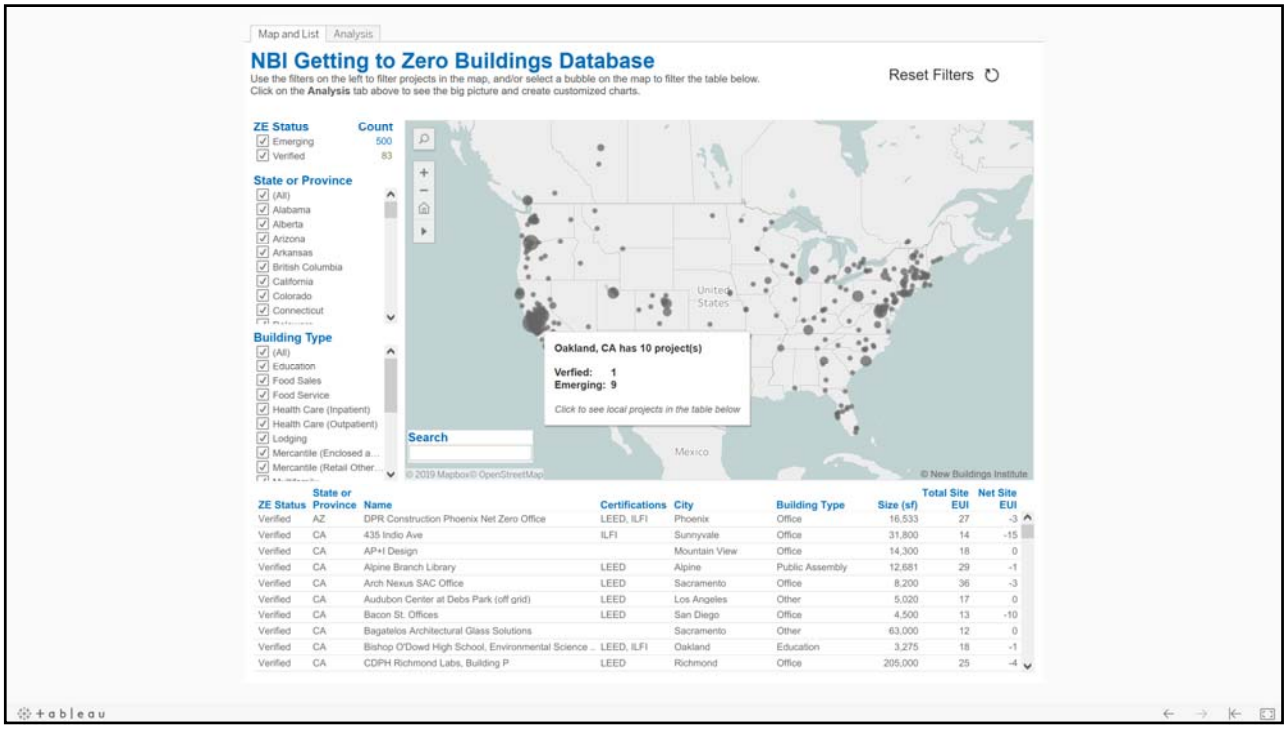
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ZE Status
Count
Emerging 500
Verified 83
State or Province
(All)
Alabama
Alberta
Arizona
Arkansas
British Columbia
California
Colorado
Connecticut
Building Type
(All)
Education
Food Sales
Food Service
Health Care (Inpatient)
Health Care (Outpatient)
Lodging
Mercantile (Enclosed a...
Mercantile (Retail Other...
Oakland, CA has 10 project(s)
Verfied: 1
Emerging: 9
Click to see local projects in the table below
Search
United States
Mexico
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Verified | AZ | DPR Construction Phoenix Net Zero Office | LEED, ILFI | Phoenix | Office | 16,533 | 27 | -3
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Verified | CA | Bacon St. Offices | LEED | San Diego | Office | 4,500 | 13 | -10
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Verified | CA | CDPH Richmond Labs, Building P | LEED | Richmond | Office | 205,000 | 25 | -4
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Map and List | Analysis

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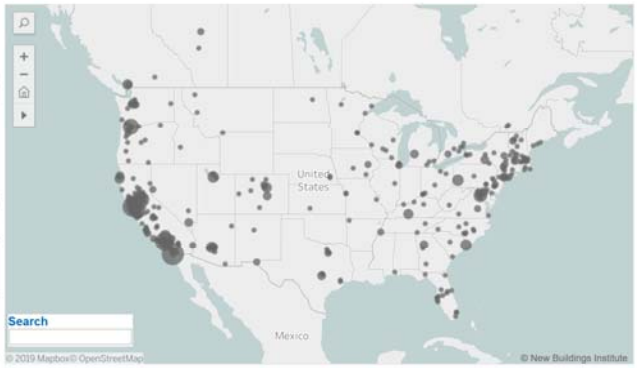
Reset Filters

ZE Status — Count
- ☑ Emerging 500
- ☑ Verified 83

State or Province
- ☑ (All)
- ☑ Alabama
- ☑ Alberta
- ☑ Arizona
- ☑ Arkansas
- ☑ British Columbia
- ☑ California
- ☑ Colorado
- ☑ Connecticut

Building Type
- ☑ (All)
- ☑ Education
- ☑ Food Sales
- ☑ Food Service
- ☑ Health Care (Inpatient)
- ☑ Health Care (Outpatient)
- ☑ Lodging
- ☑ Mercantile (Enclosed a...
- ☑ Mercantile (Retail Other...



ZE Status	State or Province	Name	Certifications	City	Building Type	Size (sf)	Total Site EUI	Net Site EUI
Verified	AZ	DPR Construction Phoenix Net Zero Office	LEED, ILFI	Phoenix	Office	16,533	27	-3
Verified	CA	435 Indio Ave	ILFI	Sunnyvale	Office	31,800	14	-15
Verified	CA	AP+I Design		Mountain View	Office	14,300	18	0
Verified	CA	Alpine Branch Library	LEED	Alpine	Public Assembly	12,681	29	-1
Verified	CA	Arch Nexus SAC Office	LEED	Sacramento	Office	8,200	36	-3
Verified	CA	Audubon Center at Debs Park (off grid)	LEED	Los Angeles	Other	5,020	17	0
Verified	CA	Bacon St. Offices	LEED	San Diego	Office	4,500	13	-10
Verified	CA	Bagatelos Architectural Glass Solutions		Sacramento	Other	63,000	12	0
Verified	CA	Bishop O'Dowd High School, Environmental Science ...	LEED, ILFI	Oakland	Education	3,275	18	-1
Verified	CA	CDPH Richmond Labs, Building P	LEED	Richmond	Office	205,000	25	-4

+ableau

Map and List | Analysis

NBI Getting to Zero Buildings Database

Use the filters on the left to filter projects in the map, and/or select a bubble on the map to filter the table below.
Click on the **Analysis** tab above to see the big picture and create customized charts.

Reset Filters

ZE Status — Count
- ☑ Emerging 1
- ☑ Verified 3

State or Province
- ☑ (All)
- ☑ Alabama
- ☑ Alberta
- ☑ Arizona
- ☑ Arkansas
- ☑ British Columbia
- ☑ California
- ☑ Colorado
- ☑ Connecticut

Building Type
- ☑ (All)
- ☑ Education
- ☑ Food Sales
- ☑ Food Service
- ☑ Health Care (Inpatient)
- ☑ Health Care (Outpatient)
- ☑ Lodging
- ☑ Mercantile (Enclosed a...
- ☑ Mercantile (Retail Other...

ZE Status	State or Province	Name	Certifications	City	Building Type	Size (sf)	Total Site EUI	Net Site EUI
Verified	AZ	DPR Construction Phoenix Net Zero Office	LEED, ILFI	Phoenix	Office	16,533	27	-3
Verified	CA	DPR Construction San Diego Net Zero Office	LEED, ILFI	San Diego	Office	24,000	15	-2
Verified	CA	DPR San Francisco Office	LEED, ILFI	San Francisco	Office	24,010	22	-1
Emerging	VA	DPR Office Washington DC	LEED	Reston	Office	20,000		

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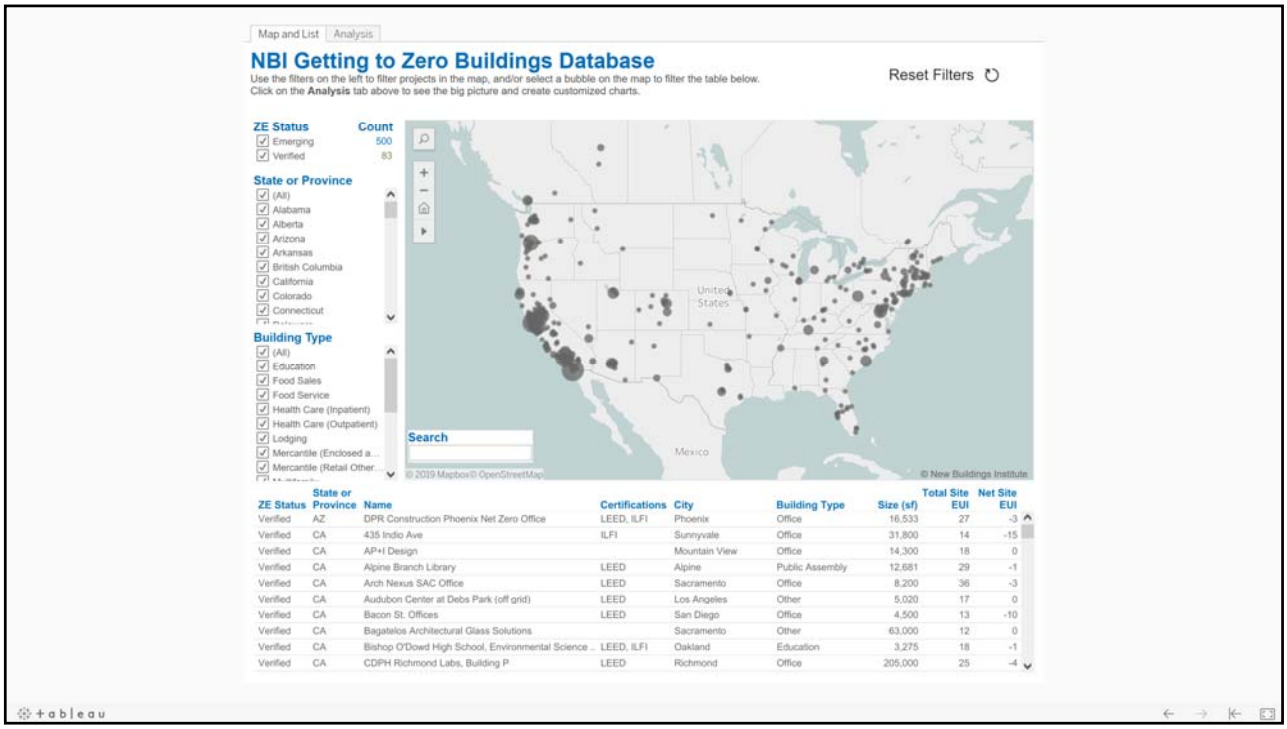
Map and List
Analysis
NBI Getting to Zero Buildings Database
Use the filters on the left to filter projects in the map, and/or select a bubble on the map to filter the table below.
Click on the Analysis tab above to see the big picture and create customized charts.
Reset Filters
ZE Status
Count
Emerging 500
Verified 83
State or Province
(All)
Alabama
Alberta
Arizona
Arkansas
British Columbia
California
Colorado
Connecticut
Building Type
(All)
Education
Food Sales
Food Service
Health Care (Inpatient)
Health Care (Outpatient)
Lodging
Mercantile (Enclosed a...
Mercantile (Retail Other...
Search
United States
Mexico
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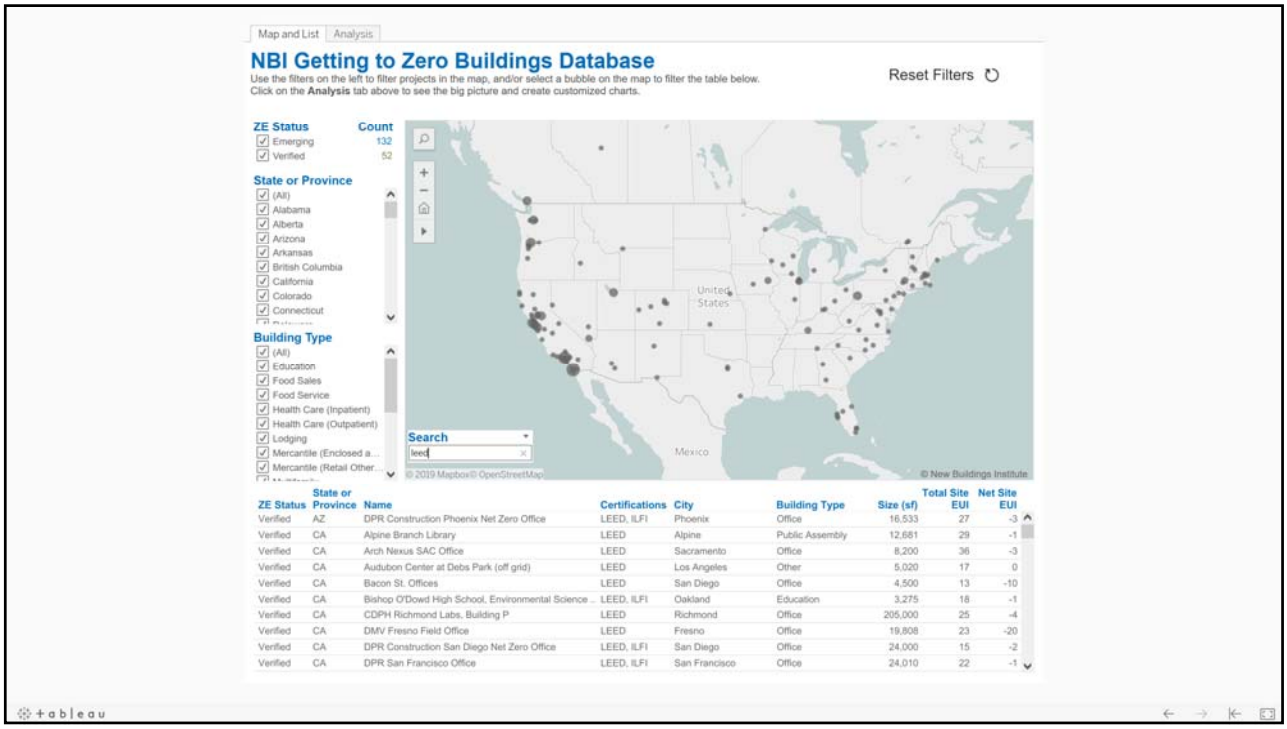
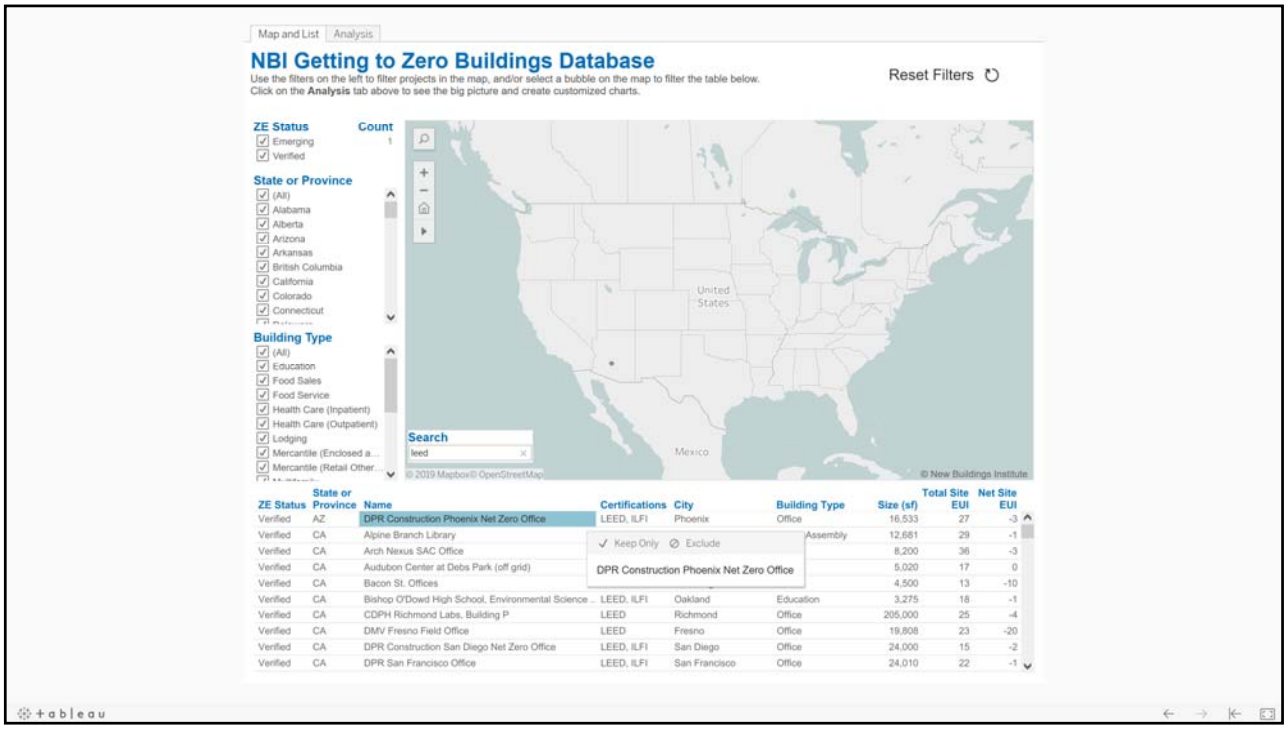
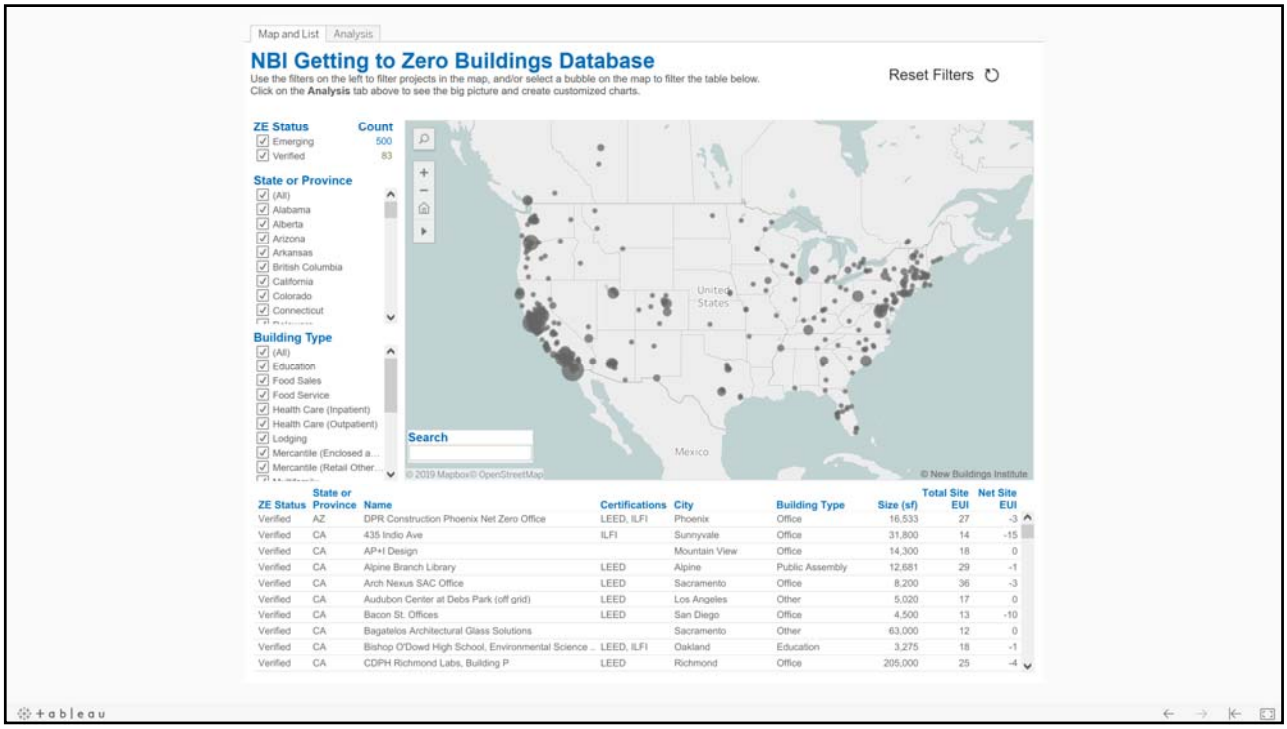
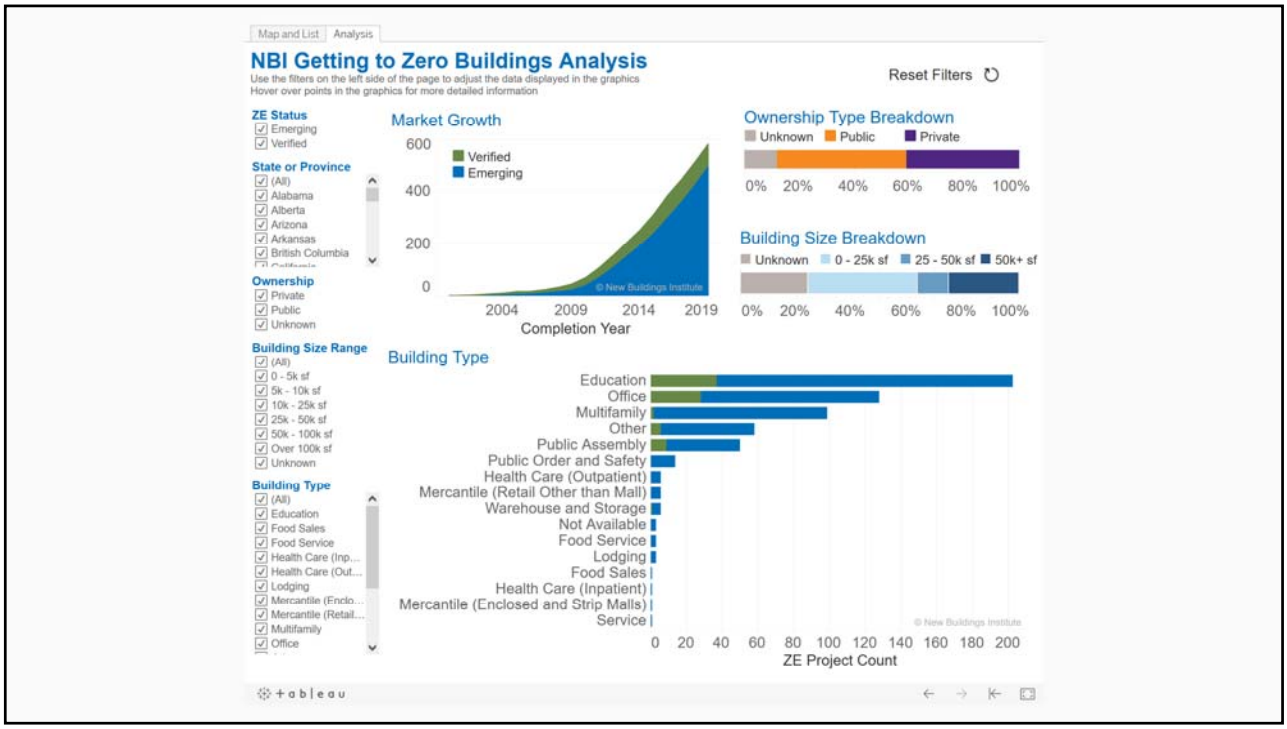
© New Buildings Institute
ZE Status | State or Province | Name | Certifications | City | Building Type | Size (sf) | Total Site EUI | Net Site EUI
Verified | AZ | DPR Construction Phoenix Net Zero Office | LEED, ILFI | Phoenix | Office | 16,533 | 27 | -3
Verified | CA | 435 Indio Ave | ILFI | Sunnyvale | Office | 31,800 | 14 | -15
Verified | CA | AP+I Design | | Mountain View | Office | 14,300 | 18 | 0
Verified | CA | Alpine Branch Library | LEED | Alpine | Public Assembly | 12,681 | 29 | -1
Verified | CA | Arch Nexus SAC Office | LEED | Sacramento | Office | 8,200 | 36 | -3
Verified | CA | Audubon Center at Debs Park (off grid) | LEED | Los Angeles | Other | 5,020 | 17 | 0
Verified | CA | Bacon St. Offices | LEED | San Diego | Office | 4,500 | 13 | -10
Verified | CA | Bagatelos Architectural Glass Solutions | | Sacramento | Other | 63,000 | 12 | 0
Verified | CA | Bishop O'Dowd High School, Environmental Science ... | LEED, ILFI | Oakland | Education | 3,275 | 18 | -1
Verified | CA | CDPH Richmond Labs, Building P | LEED | Richmond | Office | 205,000 | 25 | -4
+ableau

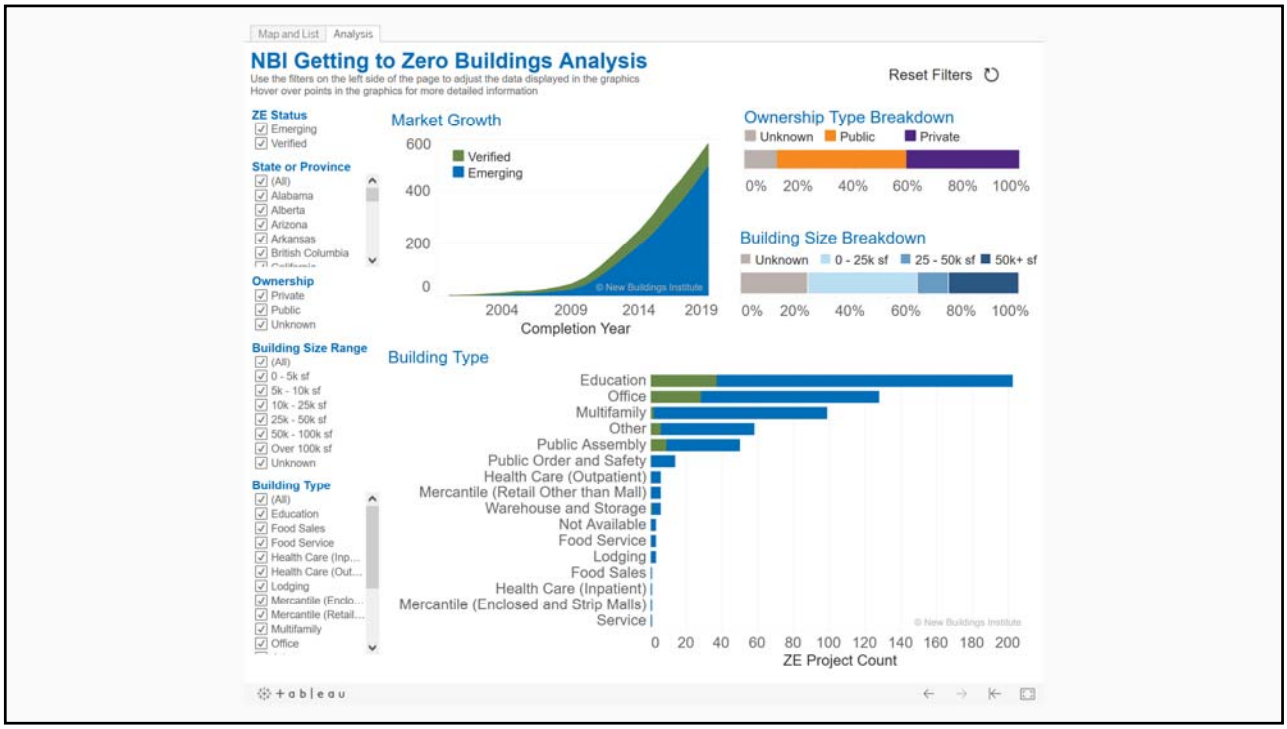

Map and List
Analysis
NBI Getting to Zero Buildings Database
Use the filters on the left to filter projects in the map, and/or select a bubble on the map to filter the table below.
Click on the Analysis tab above to see the big picture and create customized charts.
Reset Filters
ZE Status
Count
Emerging 132
Verified 52
State or Province
(All)
Alabama
Alberta
Arizona
Arkansas
British Columbia
California
Colorado
Connecticut
Building Type
(All)
Education
Food Sales
Food Service
Health Care (Inpatient)
Health Care (Outpatient)
Lodging
Mercantile (Enclosed a...
Mercantile (Retail Other...
Search
leed
United States
Mexico
© 2019 Mapbox © OpenStreetMap
© New Buildings Institute
ZE Status | State or Province | Name | Certifications | City | Building Type | Size (sf) | Total Site EUI | Net Site EUI
Verified | AZ | DPR Construction Phoenix Net Zero Office | LEED, ILFI | Phoenix | Office | 16,533 | 27 | -3
Verified | CA | Alpine Branch Library | LEED | Alpine | Public Assembly | 12,681 | 29 | -1
Verified | CA | Arch Nexus SAC Office | LEED | Sacramento | Office | 8,200 | 36 | -3
Verified | CA | Audubon Center at Debs Park (off grid) | LEED | Los Angeles | Other | 5,020 | 17 | 0
Verified | CA | Bacon St. Offices | LEED | San Diego | Office | 4,500 | 13 | -10
Verified | CA | Bishop O'Dowd High School, Environmental Science ... | LEED, ILFI | Oakland | Education | 3,275 | 18 | -1
Verified | CA | CDPH Richmond Labs, Building P | LEED | Richmond | Office | 205,000 | 25 | -4
Verified | CA | DMV Fresno Field Office | LEED | Fresno | Office | 19,808 | 23 | -20
Verified | CA | DPR Construction San Diego Net Zero Office | LEED, ILFI | San Diego | Office | 24,000 | 15 | -2
Verified | CA | DPR San Francisco Office | LEED, ILFI | San Francisco | Office | 24,010 | 22 | -1
+ableau

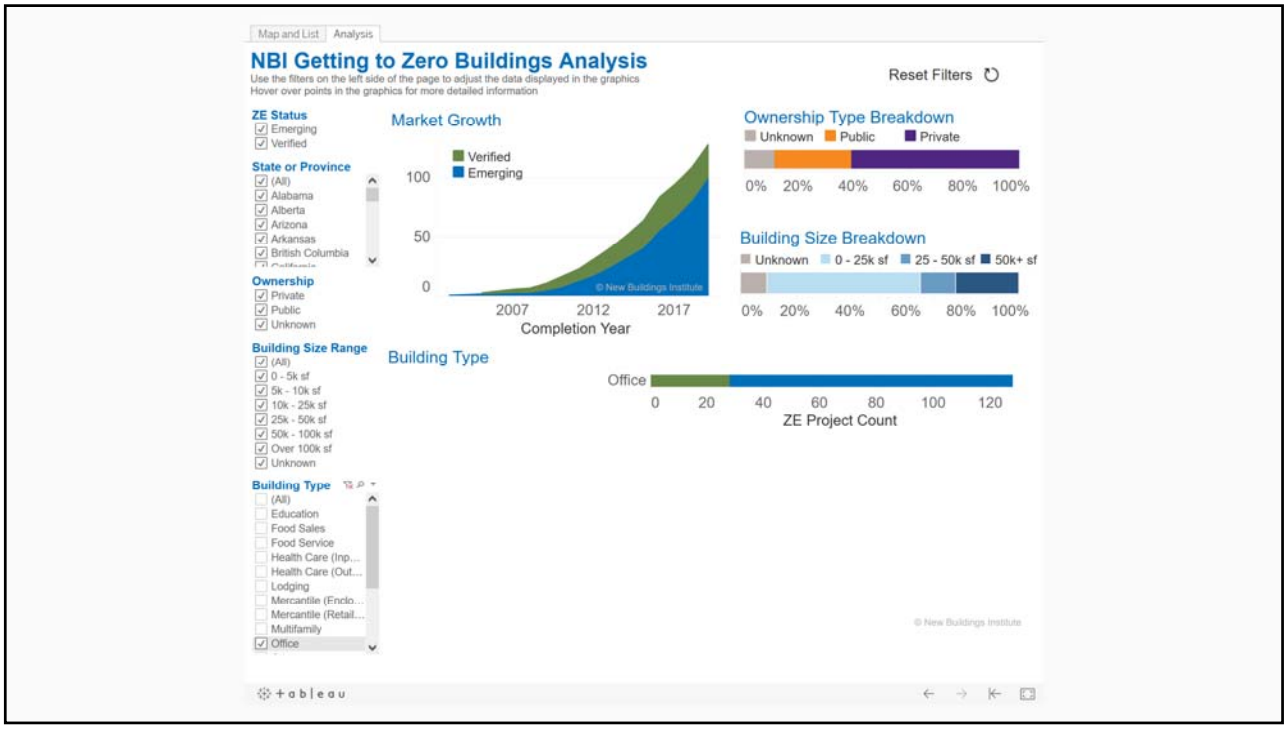

Map and List
Analysis
NBI Getting to Zero Buildings Database
Use the filters on the left to filter projects in the map, and/or select a bubble on the map to filter the table below.
Click on the Analysis tab above to see the big picture and create customized charts.
Reset Filters
ZE Status
Count
Emerging
Verified
State or Province
(All)
Alabama
Alberta
Arizona
Arkansas
British Columbia
California
Colorado
Connecticut
Building Type
(All)
Education
Food Sales
Food Service
Health Care (Inpatient)
Health Care (Outpatient)
Lodging
Mercantile (Enclosed a...
Mercantile (Retail Other...
Search
leed
United States
Mexico
© 2019 Mapbox© OpenStreetMap
© New Buildings Institute
ZE Status | State or Province | Name | Certifications | City | Building Type | Size (sf) | Total Site EUI | Net Site EUI
Verified | AZ | DPR Construction Phoenix Net Zero Office | LEED, ILFI | Phoenix | Office | 16,533 | 27 | -3
Verified | CA | Alpine Branch Library | | | Assembly | 12,681 | 29 | -1
Verified | CA | Arch Nexus SAC Office | | | | 8,200 | 36 | -3
Verified | CA | Audubon Center at Debs Park (off grid) | | | | 5,020 | 17 | 0
Verified | CA | Bacon St. Offices | | | | 4,500 | 13 | -10
Verified | CA | Bishop O'Dowd High School, Environmental Science ... | LEED, ILFI | Oakland | Education | 3,275 | 18 | -1
Verified | CA | CDPH Richmond Labs, Building P | LEED | Richmond | Office | 205,000 | 25 | -4
Verified | CA | DMV Fresno Field Office | LEED | Fresno | Office | 19,808 | 23 | -20
Verified | CA | DPR Construction San Diego Net Zero Office | LEED, ILFI | San Diego | Office | 24,000 | 15 | -2
Verified | CA | DPR San Francisco Office | LEED, ILFI | San Francisco | Office | 24,010 | 22 | -1
Keep Only
Exclude
DPR Construction Phoenix Net Zero Office
+ableau

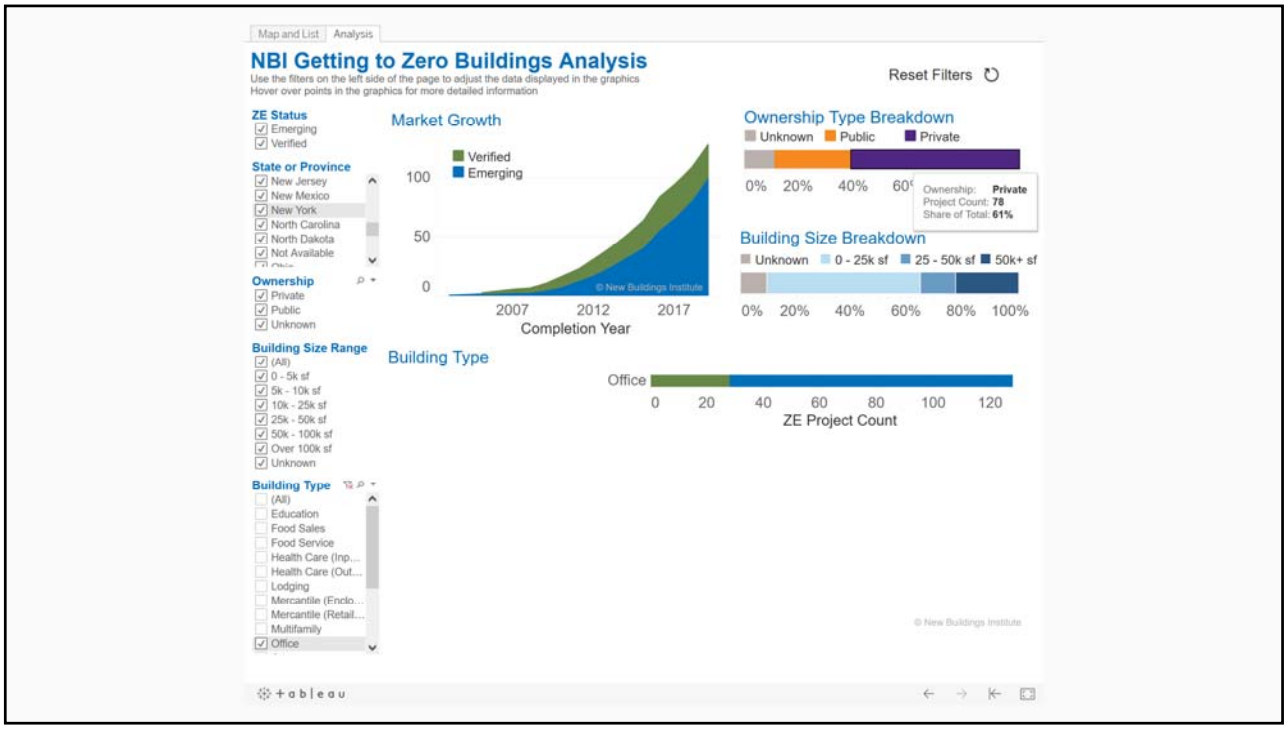

Map and List
Analysis
NBI Getting to Zero Buildings Database
Use the filters on the left to filter projects in the map, and/or select a bubble on the map to filter the table below.
Click on the Analysis tab above to see the big picture and create customized charts.
Reset Filters
ZE Status
Count
Emerging
500
Verified
83
State or Province
(All)
Alabama
Alberta
Arizona
Arkansas
British Columbia
California
Colorado
Connecticut
Building Type
(All)
Education
Food Sales
Food Service
Health Care (Inpatient)
Health Care (Outpatient)
Lodging
Mercantile (Enclosed a...
Mercantile (Retail Other...
Search
United States
Mexico
© 2019 Mapbox© OpenStreetMap
© New Buildings Institute
ZE Status | State or Province | Name | Certifications | City | Building Type | Size (sf) | Total Site EUI | Net Site EUI
Verified | AZ | DPR Construction Phoenix Net Zero Office | LEED, ILFI | Phoenix | Office | 16,533 | 27 | -3
Verified | CA | 435 Indio Ave | ILFI | Sunnyvale | Office | 31,800 | 14 | -15
Verified | CA | AP+I Design | | Mountain View | Office | 14,300 | 18 | 0
Verified | CA | Alpine Branch Library | LEED | Alpine | Public Assembly | 12,681 | 29 | -1
Verified | CA | Arch Nexus SAC Office | LEED | Sacramento | Office | 8,200 | 36 | -3
Verified | CA | Audubon Center at Debs Park (off grid) | LEED | Los Angeles | Other | 5,020 | 17 | 0
Verified | CA | Bacon St. Offices | LEED | San Diego | Office | 4,500 | 13 | -10
Verified | CA | Bagatelos Architectural Glass Solutions | | Sacramento | Other | 63,000 | 12 | 0
Verified | CA | Bishop O'Dowd High School, Environmental Science ... | LEED, ILFI | Oakland | Education | 3,275 | 18 | -1
Verified | CA | CDPH Richmond Labs, Building P | LEED | Richmond | Office | 205,000 | 25 | -4
+ableau

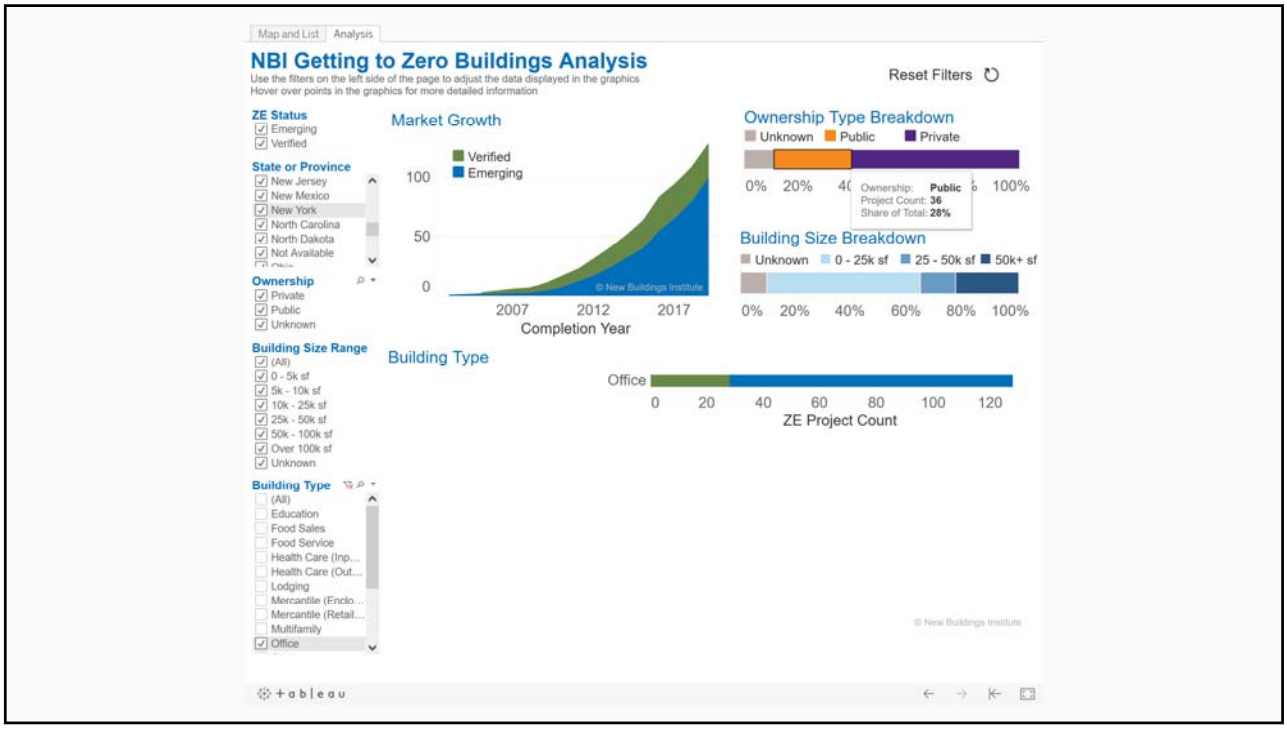

Map and List
Analysis
NBI Getting to Zero Buildings Analysis
Use the filters on the left side of the page to adjust the data displayed in the graphics
Hover over points in the graphics for more detailed information
Reset Filters
ZE Status
Emerging
Verified
State or Province
(All)
Alabama
Alberta
Arizona
Arkansas
British Columbia
Ownership
Private
Public
Unknown
Building Size Range
(All)
0 - 5k sf
5k - 10k sf
10k - 25k sf
25k - 50k sf
50k - 100k sf
Over 100k sf
Unknown
Building Type
(All)
Education
Food Sales
Food Service
Health Care (Inp...
Health Care (Out...
Lodging
Mercantile (Encl...
Mercantile (Retail...
Multifamily
Office
Market Growth
Verified
Emerging
600
400
200
0
2004
2009
2014
2019
Completion Year
© New Buildings Institute
Ownership Type Breakdown
Unknown
Public
Private
0%
20%
40%
60%
80%
100%
Building Size Breakdown
Unknown
0 - 25k sf
25 - 50k sf
50k+ sf
Building Type
Education
Office
Multifamily
Other
Public Assembly
Public Order and Safety
Health Care (Outpatient)
Mercantile (Retail Other than Mall)
Warehouse and Storage
Not Available
Food Service
Lodging
Food Sales
Health Care (Inpatient)
Mercantile (Enclosed and Strip Malls)
Service
0
20
40
60
80
100
120
140
160
180
200
ZE Project Count
© New Buildings Institute
tableau

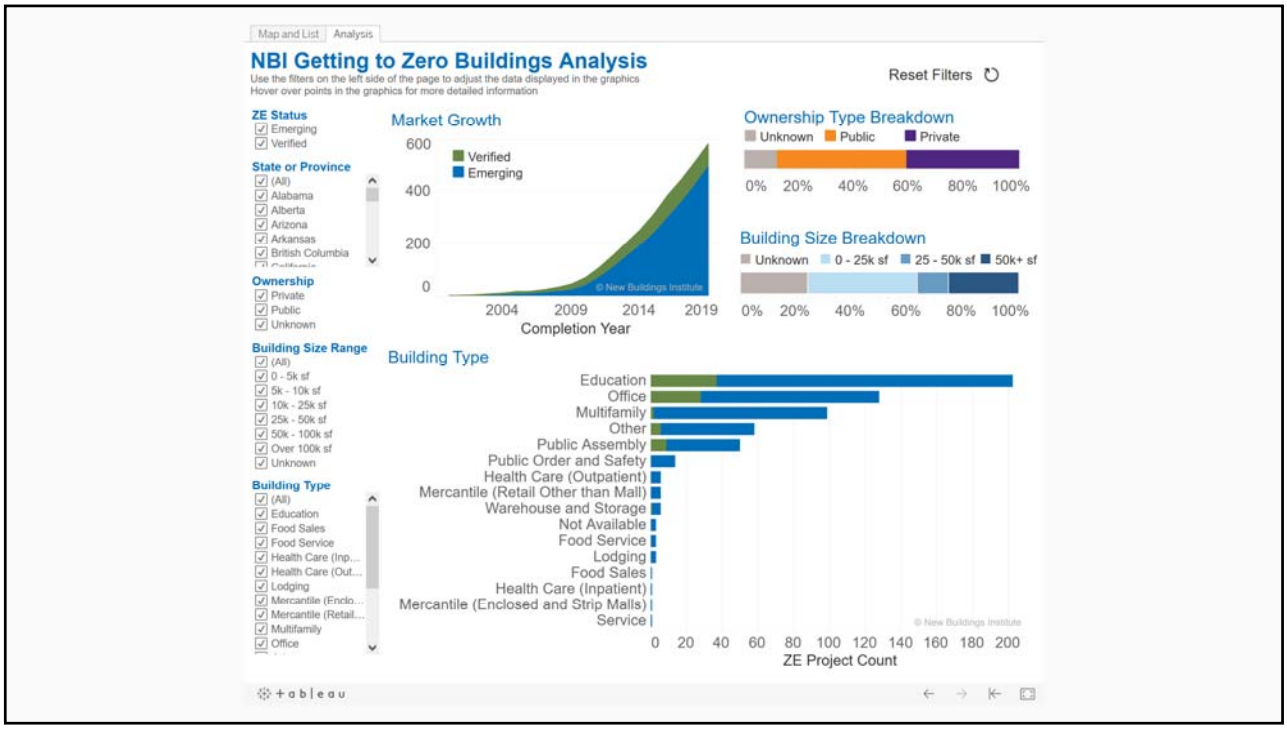

Map and List
Analysis
NBI Getting to Zero Buildings Analysis
Use the filters on the left side of the page to adjust the data displayed in the graphics
Hover over points in the graphics for more detailed information
Reset Filters
ZE Status
Emerging
Verified
State or Province
(All)
Alabama
Alberta
Arizona
Arkansas
British Columbia
Ownership
Private
Public
Unknown
Building Size Range
(All)
0 - 5k sf
5k - 10k sf
10k - 25k sf
25k - 50k sf
50k - 100k sf
Over 100k sf
Unknown
Building Type
(All)
Education
Food Sales
Food Service
Health Care (Inp...
Health Care (Out...
Lodging
Mercantile (Encl...
Mercantile (Retail...
Multifamily
Office
Market Growth
Verified
ZE Project Count
80
60
40
20
0
2004
2009
2014
Completion Year
© New Buildings Institute
Ownership Type Breakdown
Public
Private
0%
20%
40%
60%
80%
100%
Building Size Breakdown
0 - 25k sf
25 - 50k sf
50k+ sf
Building Type
Education
Office
Public Assembly
Other
Multifamily
Warehouse and Storage
0
5
10
15
20
25
30
35
ZE Project Count
© New Buildings Institute
tableau

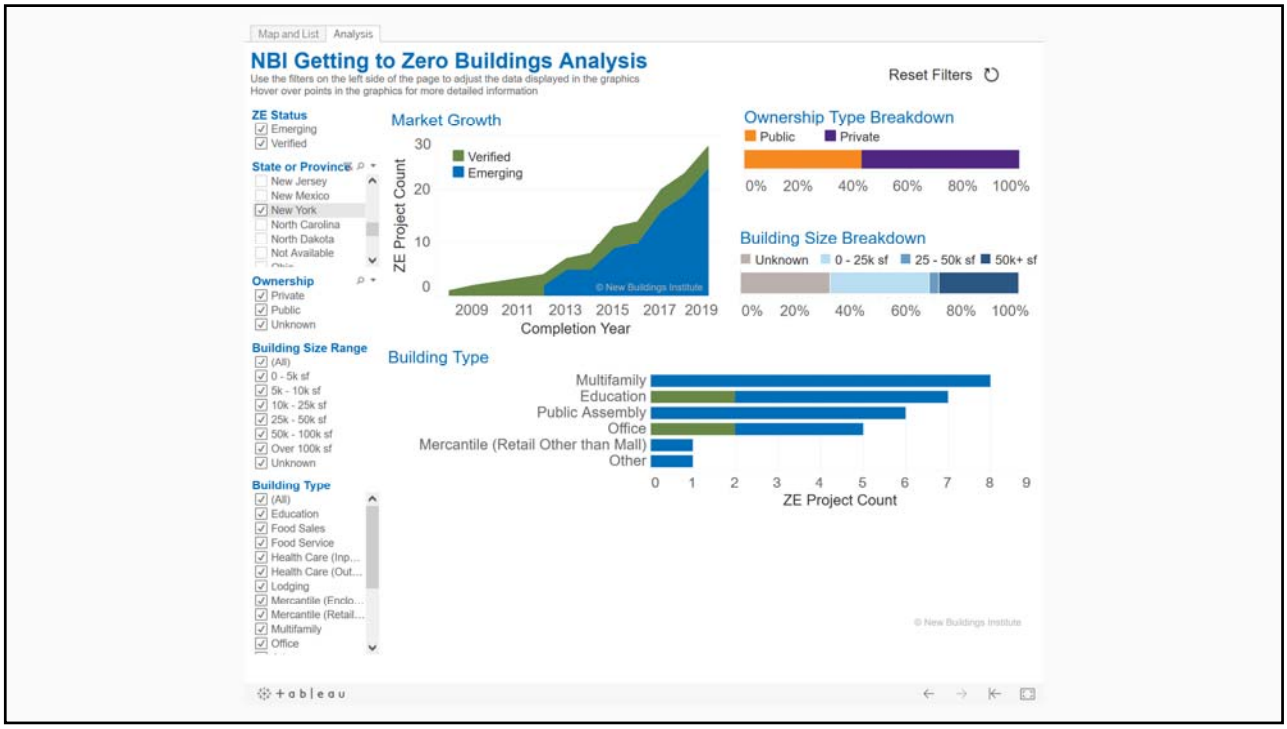

Map and List
Analysis
NBI Getting to Zero Buildings Analysis
Use the filters on the left side of the page to adjust the data displayed in the graphics
Hover over points in the graphics for more detailed information
Reset Filters
ZE Status
Emerging
Verified
State or Province
(All)
Alabama
Alberta
Arizona
Arkansas
British Columbia
Ownership
Private
Public
Unknown
Building Size Range
(All)
0 - 5k sf
5k - 10k sf
10k - 25k sf
25k - 50k sf
50k - 100k sf
Over 100k sf
Unknown
Building Type
(All)
Education
Food Sales
Food Service
Health Care (Inp...
Health Care (Out...
Lodging
Mercantile (Enclo...
Mercantile (Retail...
Multifamily
Office
Market Growth
Verified
Emerging
600
400
200
0
2004
2009
2014
2019
Completion Year
© New Buildings Institute
Ownership Type Breakdown
Unknown
Public
Private
0%
20%
40%
60%
80%
100%
Building Size Breakdown
Unknown
0 - 25k sf
25 - 50k sf
50k+ sf
0%
20%
40%
60%
80%
100%
Building Type
Education
Office
Multifamily
Other
Public Assembly
Public Order and Safety
Health Care (Outpatient)
Mercantile (Retail Other than Mall)
Warehouse and Storage
Not Available
Food Service
Lodging
Food Sales
Health Care (Inpatient)
Mercantile (Enclosed and Strip Malls)
Service
0
20
40
60
80
100
120
140
160
180
200
ZE Project Count
© New Buildings Institute
tableau


Map and List
Analysis
NBI Getting to Zero Buildings Analysis
Use the filters on the left side of the page to adjust the data displayed in the graphics
Hover over points in the graphics for more detailed information
Reset Filters
ZE Status
Emerging
Verified
State or Province
(All)
Alabama
Alberta
Arizona
Arkansas
British Columbia
Ownership
Private
Public
Unknown
Building Size Range
(All)
0 - 5k sf
5k - 10k sf
10k - 25k sf
25k - 50k sf
50k - 100k sf
Over 100k sf
Unknown
Building Type
(All)
Education
Food Sales
Food Service
Health Care (Inp...
Health Care (Out...
Lodging
Mercantile (Enclo...
Mercantile (Retail...
Multifamily
Office
Market Growth
Verified
Emerging
100
50
0
2007
2012
2017
Completion Year
© New Buildings Institute
Ownership Type Breakdown
Unknown
Public
Private
0%
20%
40%
60%
80%
100%
Building Size Breakdown
Unknown
0 - 25k sf
25 - 50k sf
50k+ sf
0%
20%
40%
60%
80%
100%
Building Type
Office
0
20
40
60
80
100
120
ZE Project Count
© New Buildings Institute
tableau


Map and List
Analysis
NBI Getting to Zero Buildings Analysis
Use the filters on the left side of the page to adjust the data displayed in the graphics
Hover over points in the graphics for more detailed information
Reset Filters
ZE Status
Emerging
Verified
State or Province
New Jersey
New Mexico
New York
North Carolina
North Dakota
Not Available
Ownership
Private
Public
Unknown
Building Size Range
(All)
0 - 5k sf
5k - 10k sf
10k - 25k sf
25k - 50k sf
50k - 100k sf
Over 100k sf
Unknown
Building Type
(All)
Education
Food Sales
Food Service
Health Care (Inp...
Health Care (Out...
Lodging
Mercantile (Enclo...
Mercantile (Retail...
Multifamily
Office
Market Growth
Verified
Emerging
100
50
0
2007
2012
2017
Completion Year
© New Buildings Institute
Ownership Type Breakdown
Unknown
Public
Private
0%
20%
40%
Ownership: Private
Project Count: 78
Share of Total: 61%
Building Size Breakdown
Unknown
0 - 25k sf
25 - 50k sf
50k+ sf
0%
20%
40%
60%
80%
100%
Building Type
Office
0
20
40
60
80
100
120
ZE Project Count
© New Buildings Institute
tableau


Map and List
Analysis
NBI Getting to Zero Buildings Analysis
Use the filters on the left side of the page to adjust the data displayed in the graphics
Hover over points in the graphics for more detailed information
Reset Filters
ZE Status
Emerging
Verified
State or Province
New Jersey
New Mexico
New York
North Carolina
North Dakota
Not Available
Ownership
Private
Public
Unknown
Building Size Range
(All)
0 - 5k sf
5k - 10k sf
10k - 25k sf
25k - 50k sf
50k - 100k sf
Over 100k sf
Unknown
Building Type
(All)
Education
Food Sales
Food Service
Health Care (Inp...
Health Care (Out...
Lodging
Mercantile (Enclo...
Mercantile (Retail...
Multifamily
Office
Market Growth
Verified
Emerging
100
50
0
2007
2012
2017
Completion Year
© New Buildings Institute
Ownership Type Breakdown
Unknown
Public
Private
0%
20%
100%
Ownership: Public
Project Count: 36
Share of Total: 28%
Building Size Breakdown
Unknown
0 - 25k sf
25 - 50k sf
50k+ sf
0%
20%
40%
60%
80%
100%
Building Type
Office
0
20
40
60
80
100
120
ZE Project Count
© New Buildings Institute
tableau


Map and List
Analysis
NBI Getting to Zero Buildings Analysis
Use the filters on the left side of the page to adjust the data displayed in the graphics
Hover over points in the graphics for more detailed information
Reset Filters
ZE Status
Emerging
Verified
State or Province
(All)
Alabama
Alberta
Arizona
Arkansas
British Columbia
Ownership
Private
Public
Unknown
Building Size Range
(All)
0 - 5k sf
5k - 10k sf
10k - 25k sf
25k - 50k sf
50k - 100k sf
Over 100k sf
Unknown
Building Type
(All)
Education
Food Sales
Food Service
Health Care (Inp...
Health Care (Out...
Lodging
Mercantile (Encl...
Mercantile (Retail...
Multifamily
Office
Market Growth
Verified
Emerging
600
400
200
0
2004
2009
2014
2019
Completion Year
© New Buildings Institute
Ownership Type Breakdown
Unknown
Public
Private
0%
20%
40%
60%
80%
100%
Building Size Breakdown
Unknown
0 - 25k sf
25 - 50k sf
50k+ sf
Building Type
Education
Office
Multifamily
Other
Public Assembly
Public Order and Safety
Health Care (Outpatient)
Mercantile (Retail Other than Mall)
Warehouse and Storage
Not Available
Food Service
Lodging
Food Sales
Health Care (Inpatient)
Mercantile (Enclosed and Strip Malls)
Service
0
20
40
60
80
100
120
140
160
180
200
ZE Project Count
© New Buildings Institute
tableau


Map and List
Analysis
NBI Getting to Zero Buildings Analysis
Use the filters on the left side of the page to adjust the data displayed in the graphics
Hover over points in the graphics for more detailed information
Reset Filters
ZE Status
Emerging
Verified
State or Province
New Jersey
New Mexico
New York
North Carolina
North Dakota
Not Available
Ownership
Private
Public
Unknown
Building Size Range
(All)
0 - 5k sf
5k - 10k sf
10k - 25k sf
25k - 50k sf
50k - 100k sf
Over 100k sf
Unknown
Building Type
(All)
Education
Food Sales
Food Service
Health Care (Inp...
Health Care (Out...
Lodging
Mercantile (Encl...
Mercantile (Retail...
Multifamily
Office
Market Growth
Verified
Emerging
ZE Project Count
30
20
10
0
2009
2011
2013
2015
2017
2019
Completion Year
© New Buildings Institute
Ownership Type Breakdown
Public
Private
0%
20%
40%
60%
80%
100%
Building Size Breakdown
Unknown
0 - 25k sf
25 - 50k sf
50k+ sf
Building Type
Multifamily
Education
Public Assembly
Office
Mercantile (Retail Other than Mall)
Other
0
1
2
3
4
5
6
7
8
9
ZE Project Count
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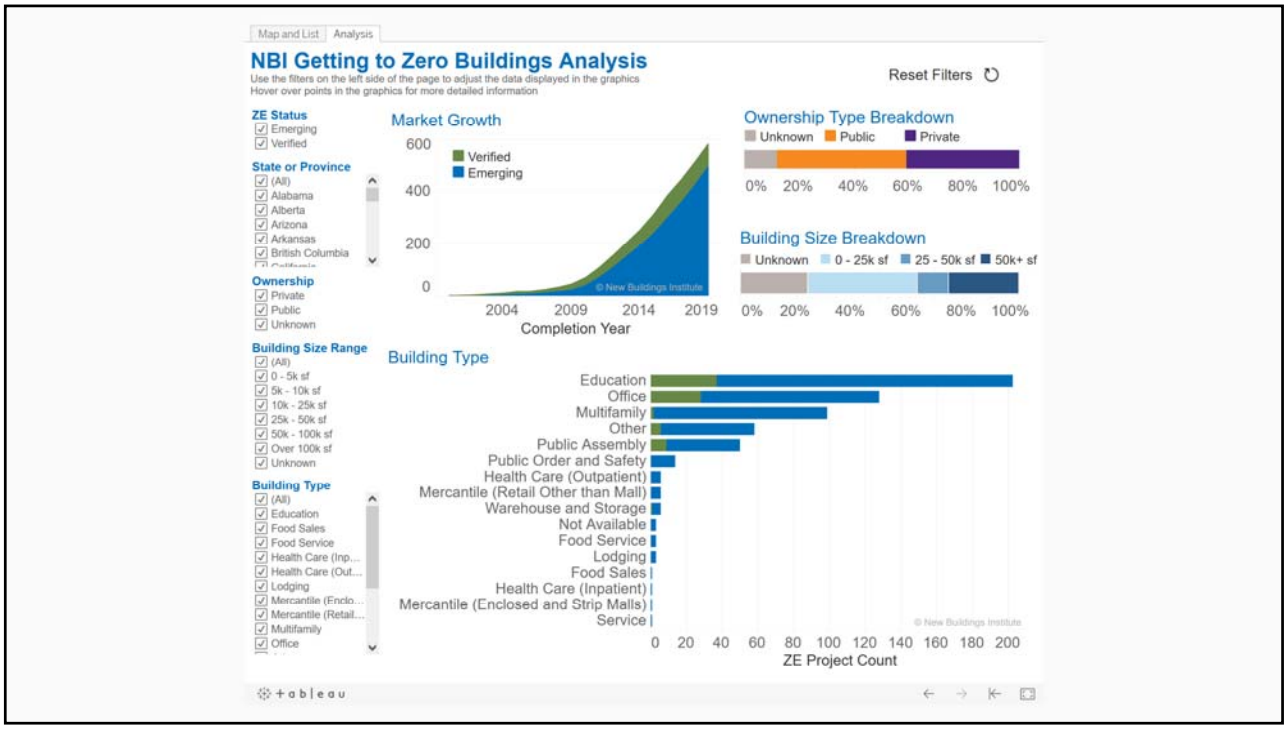
Map and List
Analysis
NBI Getting to Zero Buildings Analysis
Use the filters on the left side of the page to adjust the data displayed in the graphics
Hover over points in the graphics for more detailed information
Reset Filters
ZE Status
Emerging
Verified
State or Province
(All)
Alabama
Alberta
Arizona
Arkansas
British Columbia
Ownership
Private
Public
Unknown
Building Size Range
(All)
0 - 5k sf
5k - 10k sf
10k - 25k sf
25k - 50k sf
50k - 100k sf
Over 100k sf
Unknown
Building Type
(All)
Education
Food Sales
Food Service
Health Care (Inp...
Health Care (Out...
Lodging
Mercantile (Enclo...
Mercantile (Retail...
Multifamily
Office
Market Growth
Verified
Emerging
600
400
200
0
2004
2009
2014
2019
Completion Year
© New Buildings Institute
Ownership Type Breakdown
Unknown
Public
Private
0%
20%
40%
60%
80%
100%
Building Size Breakdown
Unknown
0 - 25k sf
25 - 50k sf
50k+ sf
Building Type
Education
Office
Multifamily
Other
Public Assembly
Public Order and Safety
Health Care (Outpatient)
Mercantile (Retail Other than Mall)
Warehouse and Storage
Not Available
Food Service
Lodging
Food Sales
Health Care (Inpatient)
Mercantile (Enclosed and Strip Malls)
Service
0
20
40
60
80
100
120
140
160
180
200
ZE Project Count
© New Buildings Institute
tableau


Map and List
Analysis
NBI Getting to Zero Buildings Analysis
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Hover over points in the graphics for more detailed information
Reset Filters
ZE Status
Emerging
Verified
State or Province
New Jersey
New Mexico
New York
North Carolina
North Dakota
Not Available
Ownership
Private
Public
Unknown
Building Size Range
(All)
0 - 5k sf
5k - 10k sf
10k - 25k sf
25k - 50k sf
50k - 100k sf
Over 100k sf
Unknown
Building Type
(All)
Education
Food Sales
Food Service
Health Care (Inp...
Health Care (Out...
Lodging
Mercantile (Enclo...
Mercantile (Retail...
Multifamily
Office
Market Growth
Verified
Emerging
150
100
50
0
2004
2009
2014
2019
Completion Year
© New Buildings Institute
Ownership Type Breakdown
Unknown
Public
Private
0%
20%
40%
60%
80%
100%
Building Size Breakdown
50k+ sf
Building Type
Education
Office
Multifamily
Other
Public Assembly
Warehouse and Storage
Public Order and Safety
Health Care (Outpatient)
0
10
20
30
40
50
60
70
ZE Project Count
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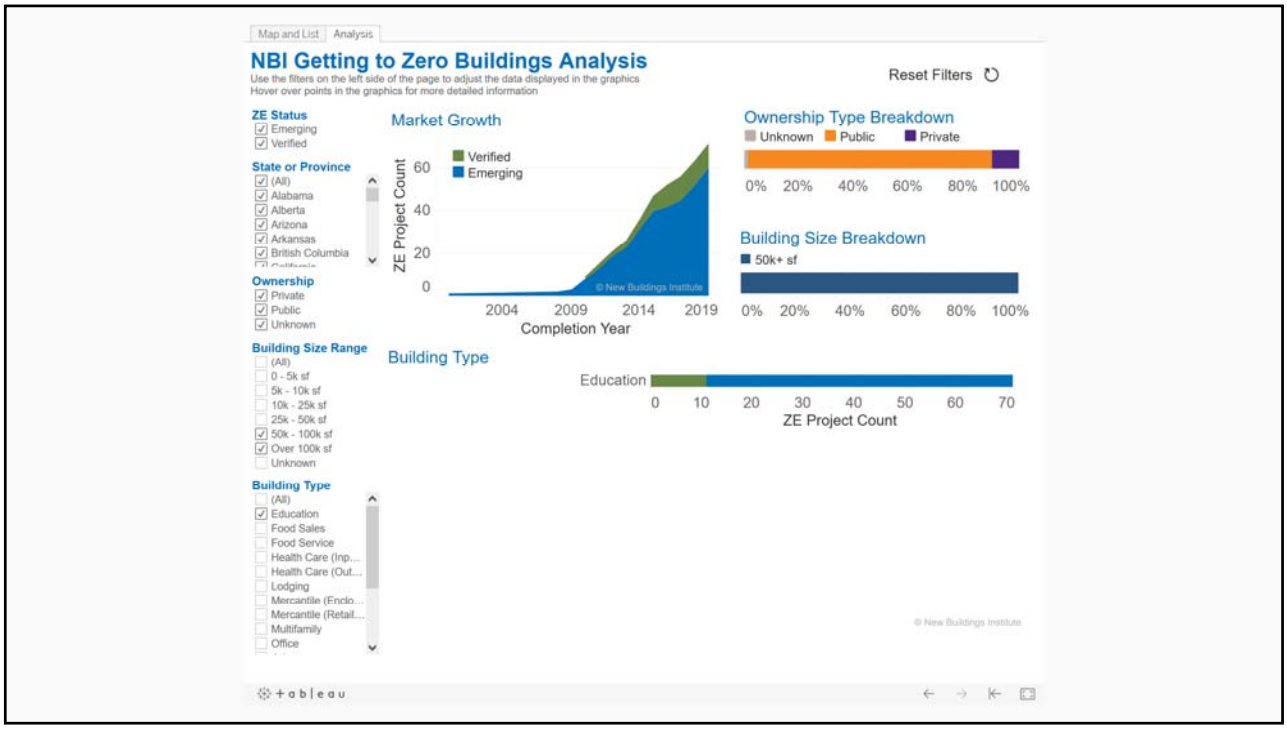
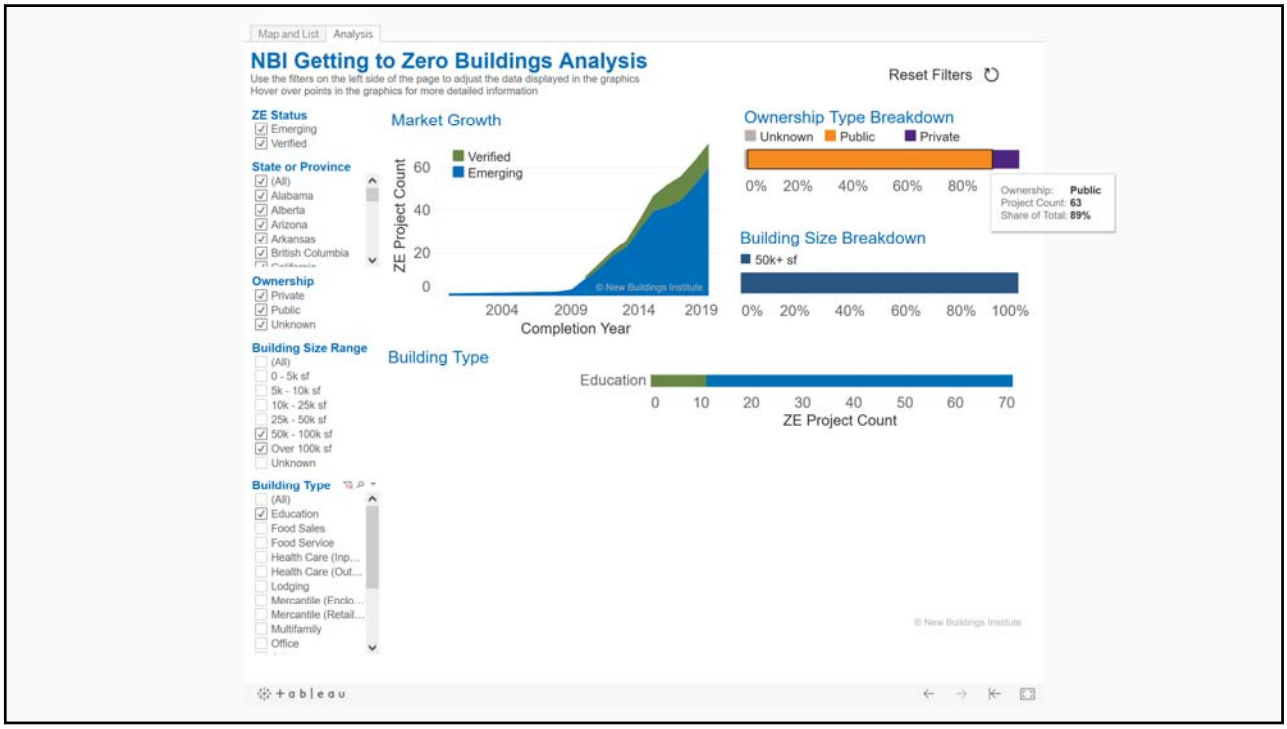

Map and List
Analysis
NBI Getting to Zero Buildings Analysis
Use the filters on the left side of the page to adjust the data displayed in the graphics
Hover over points in the graphics for more detailed information
Reset Filters
ZE Status
Emerging
Verified
State or Province
(All)
Alabama
Alberta
Arizona
Arkansas
British Columbia
Ownership
Private
Public
Unknown
Building Size Range
(All)
0 - 5k sf
5k - 10k sf
10k - 25k sf
25k - 50k sf
50k - 100k sf
Over 100k sf
Unknown
Building Type
(All)
Education
Food Sales
Food Service
Health Care (Inp...
Health Care (Out...
Lodging
Mercantile (Enclo...
Mercantile (Retail...
Multifamily
Office
Market Growth
Verified
Emerging
ZE Project Count
60
40
20
0
2004
2009
2014
2019
Completion Year
© New Buildings Institute
Ownership Type Breakdown
Unknown
Public
Private
0%
20%
40%
60%
80%
100%
Building Size Breakdown
50k+ sf
Building Type
Education
0
10
20
30
40
50
60
70
ZE Project Count
© New Buildings Institute
tableau


Map and List
Analysis
NBI Getting to Zero Buildings Analysis
Use the filters on the left side of the page to adjust the data displayed in the graphics
Hover over points in the graphics for more detailed information
Reset Filters
ZE Status
Emerging
Verified
State or Province
(All)
Alabama
Alberta
Arizona
Arkansas
British Columbia
Ownership
Private
Public
Unknown
Building Size Range
(All)
0 - 5k sf
5k - 10k sf
10k - 25k sf
25k - 50k sf
50k - 100k sf
Over 100k sf
Unknown
Building Type
(All)
Education
Food Sales
Food Service
Health Care (Inp...
Health Care (Out...
Lodging
Mercantile (Enclo...
Mercantile (Retail...
Multifamily
Office
Market Growth
Verified
Emerging
ZE Project Count
60
40
20
0
2004
2009
2014
2019
Completion Year
© New Buildings Institute
Ownership Type Breakdown
Unknown
Public
Private
0%
20%
40%
60%
80%
Ownership: Public
Project Count: 63
Share of Total: 89%
Building Size Breakdown
50k+ sf
0%
20%
40%
60%
80%
100%
Building Type
Education
0
10
20
30
40
50
60
70
ZE Project Count
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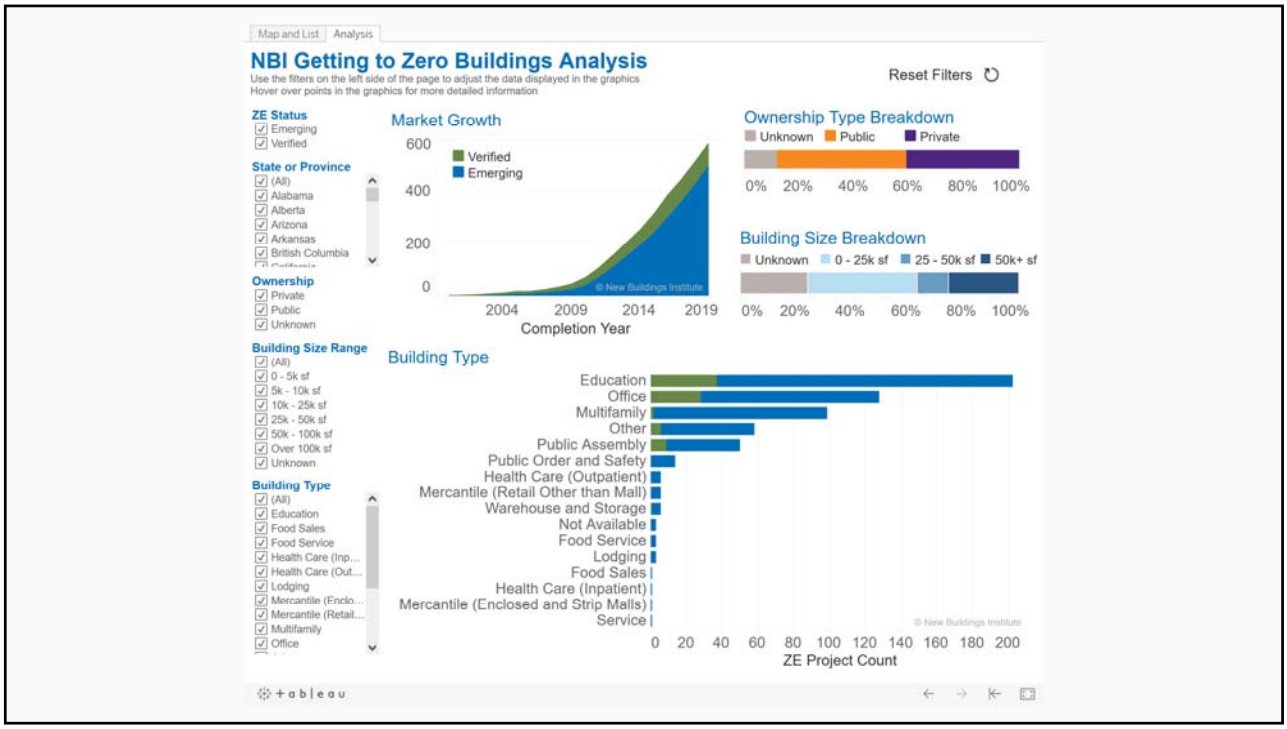
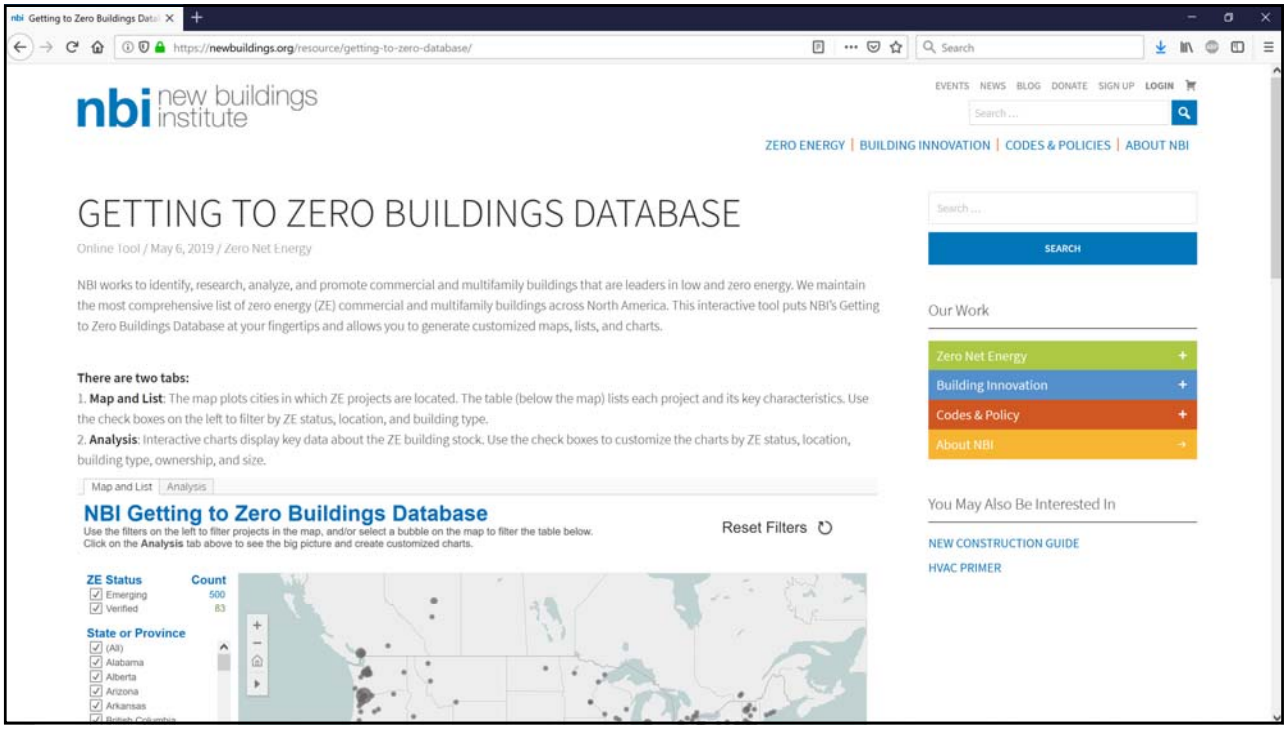

Map and List
Analysis
NBI Getting to Zero Buildings Analysis
Use the filters on the left side of the page to adjust the data displayed in the graphics
Hover over points in the graphics for more detailed information
Reset Filters
ZE Status
Emerging
Verified
State or Province
(All)
Alabama
Alberta
Arizona
Arkansas
British Columbia
Ownership
Private
Public
Unknown
Building Size Range
(All)
0 - 5k sf
5k - 10k sf
10k - 25k sf
25k - 50k sf
50k - 100k sf
Over 100k sf
Unknown
Building Type
(All)
Education
Food Sales
Food Service
Health Care (Inp...
Health Care (Out...
Lodging
Mercantile (Enclo...
Mercantile (Retail...
Multifamily
Office
Market Growth
Verified
Emerging
600
400
200
0
2004
2009
2014
2019
Completion Year
© New Buildings Institute
Ownership Type Breakdown
Unknown
Public
Private
0%
20%
40%
60%
80%
100%
Building Size Breakdown
Unknown
0 - 25k sf
25 - 50k sf
50k+ sf
Building Type
Education
Office
Multifamily
Other
Public Assembly
Public Order and Safety
Health Care (Outpatient)
Mercantile (Retail Other than Mall)
Warehouse and Storage
Not Available
Food Service
Lodging
Food Sales
Health Care (Inpatient)
Mercantile (Enclosed and Strip Malls)
Service
0 20 40 60 80 100 120 140 160 180 200
ZE Project Count
© New Buildings Institute
+ableau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GETTING TO ZERO BUILDINGS DATABASE
Online Tool / May 6, 2019 / Zero Net Energy
NBI works to identify, research, analyze, and promote commercial and multifamily buildings that are leaders in low and zero energy. We maintain the most comprehensive list of zero energy (ZE) commercial and multifamily buildings across North America. This interactive tool puts NBI's Getting to Zero Buildings Database at your fingertips and allows you to generate customized maps, lists, and charts.
There are two tabs:
1. Map and List: The map plots cities in which ZE projects are located. The table (below the map) lists each project and its key characteristics. Use the check boxes on the left to filter by ZE status, location, and building type.
2. Analysis: Interactive charts display key data about the ZE building stock. Use the check boxes to customize the charts by ZE status, location, building type, ownership, and size.
Map and List
Analysis
NBI Getting to Zero Buildings Database
Use the filters on the left to filter projects in the map, and/or select a bubble on the map to filter the table below.
Click on the Analysis tab above to see the big picture and create customized charts.
Reset Filters
ZE Status
Count
Emerging 500
Verified 83
State or Province
(All)
Alabama
Alberta
Arizona
Arkansas
Search ...
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Our Work
Zero Net Energy
Building Innovation
Codes & Policy
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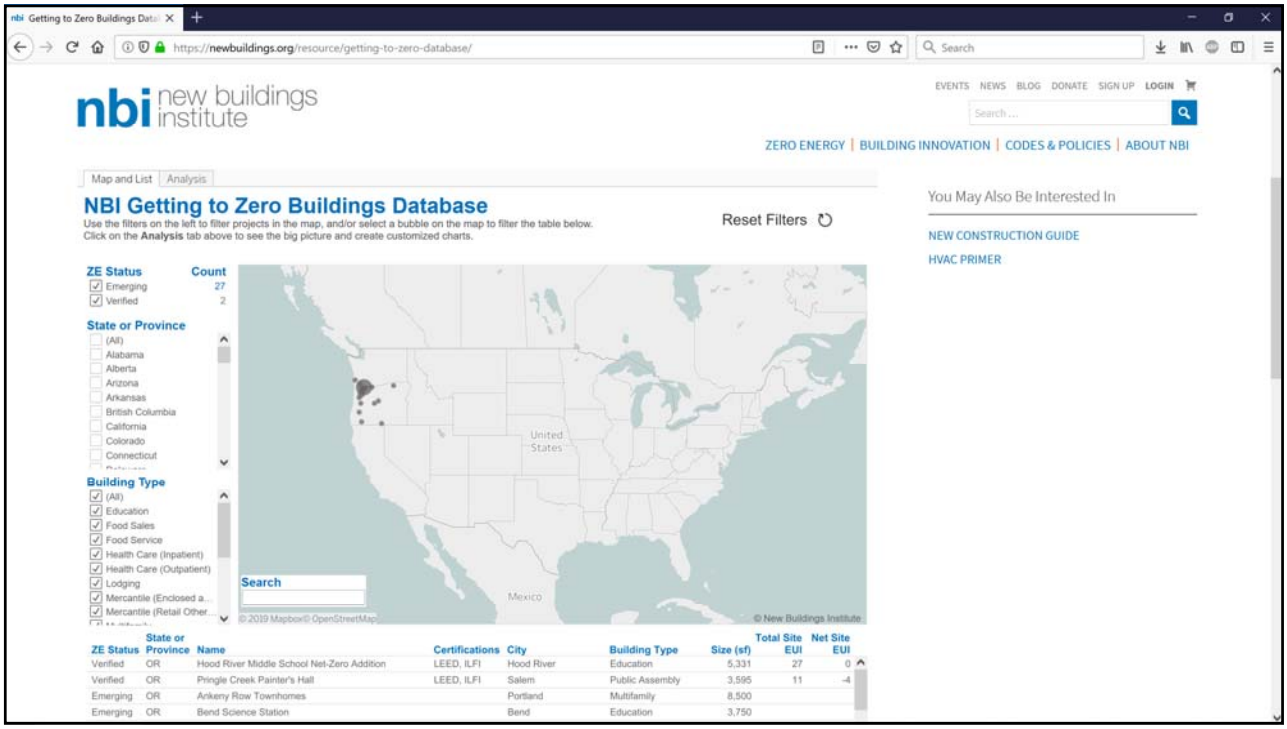
HVAC PRIMER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Map and List
Analysis
NBI Getting to Zero Buildings Database
Use the filters on the left to filter projects in the map, and/or select a bubble on the map to filter the table below.
Click on the Analysis tab above to see the big picture and create customized charts.
Reset Filters
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NEW CONSTRUCTION GUIDE
HVAC PRIMER
ZE Status
Count
Emerging 27
Verified 2
State or Province
(All)
Alabama
Alberta
Arizona
Arkansas
British Columbia
California
Colorado
Connecticut
Building Type
(All)
Education
Food Sales
Food Service
Health Care (Inpatient)
Health Care (Outpatient)
Lodging
Mercantile (Enclosed a...
Mercantile (Retail Other...
United States
Mexico
Search
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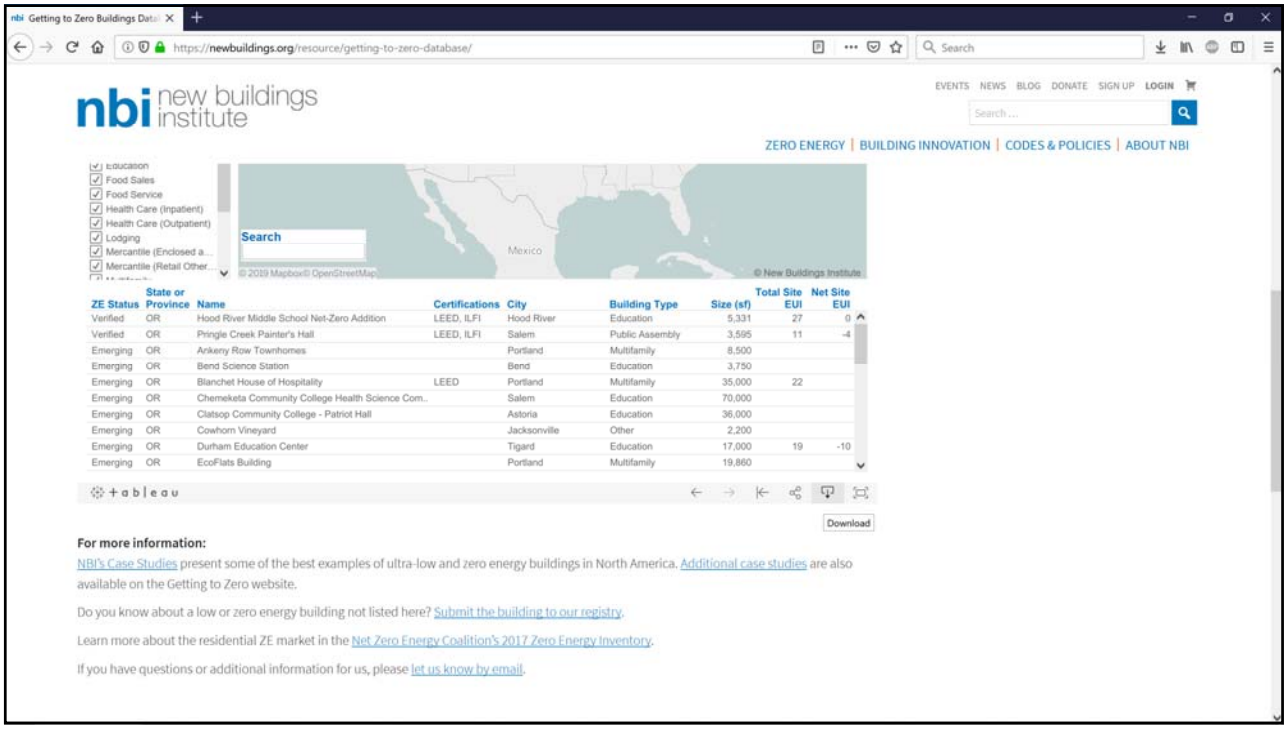
ZE Status State or Province Name Certifications City Building Type Size (sf) Total Site EUI Net Site EUI
Verified OR Hood River Middle School Net-Zero Addition LEED, ILFI Hood River Education 5,331 27 0
Verified OR Pringle Creek Painter's Hall LEED, ILFI Salem Public Assembly 3,595 11 -4
Emerging OR Arikeny Row Townhomes Portland Multifamily 8,500
Emerging OR Bend Science Station Bend Education 3,750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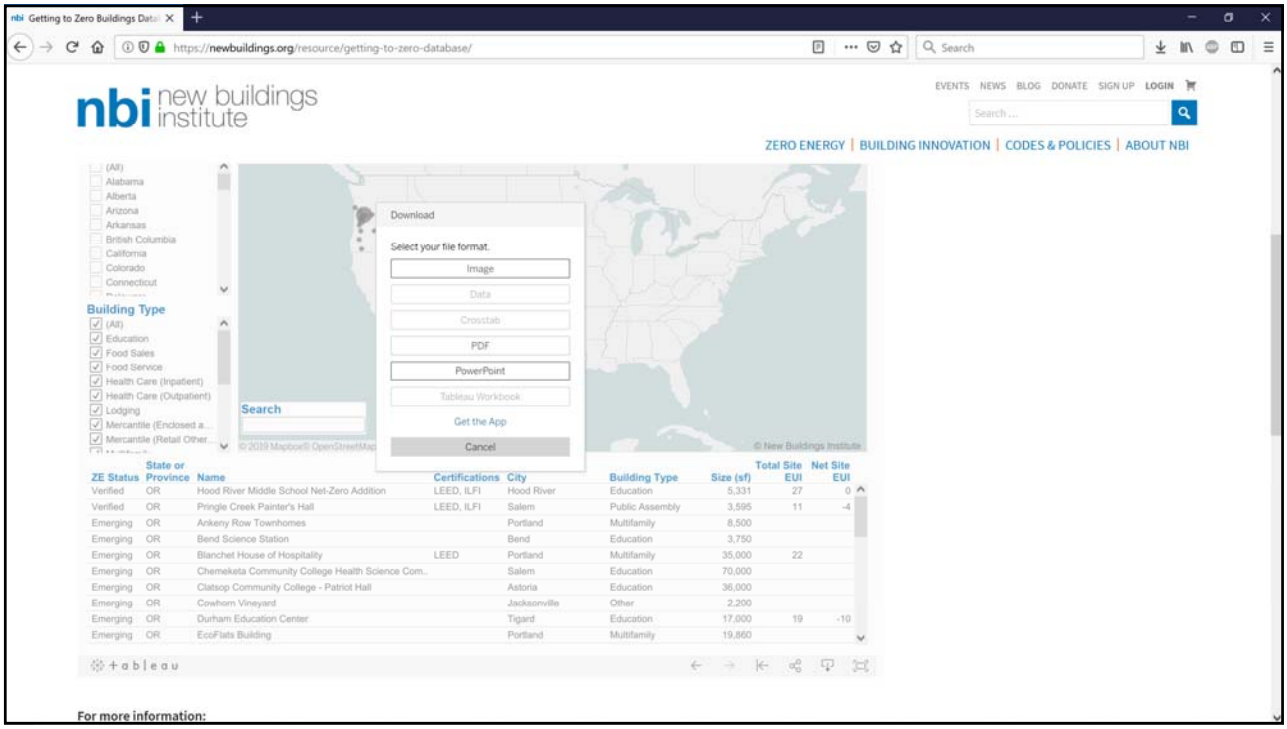
Food Sales
Food Service
Health Care (Inpatient)
Health Care (Outpatient)
Lodging
Mercantile (Enclosed a...
Mercantile (Retail Other...
Search
Mexico
© 2019 Mapbox © OpenStreetMap
© New Buildings Institute
ZE Status State or Province Name Certifications City Building Type Size (sf) Total Site EUI Net Site EUI
Verified OR Hood River Middle School Net-Zero Addition LEED, ILFI Hood River Education 5,331 27 0
Verified OR Pringle Creek Painter's Hall LEED, ILFI Salem Public Assembly 3,595 11 -4
Emerging OR Arikeny Row Townhomes Portland Multifamily 8,500
Emerging OR Bend Science Station Bend Education 3,750
Emerging OR Blanchet House of Hospitality LEED Portland Multifamily 35,000 22
Emerging OR Chemeketa Community College Health Science Com.. Salem Education 70,000
Emerging OR Clatsop Community College - Patriot Hall Astoria Education 36,000
Emerging OR Cowhorn Vineyard Jacksonville Other 2,200
Emerging OR Durham Education Center Tigard Education 17,000 19 -10
Emerging OR EcoFlats Building Portland Multifamily 19,860
+ableau
Download
For more information:
NBI's Case Studies present some of the best examples of ultra-low and zero energy buildings in North America. Additional case studies are also available on the Getting to Zero website.
Do you know about a low or zero energy building not listed here? Submit the building to our registry.
Learn more about the residential ZE market in the Net Zero Energy Coalition's 2017 Zero Energy Inventory.
If you have questions or additional information for us, please let us know by email.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https://newbuildings.org/resource/getting-to-zero-database/
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Data
Crosstab
PDF
PowerPoint
Tableau Workbook
Get the App
Cancel
Building Type
Search
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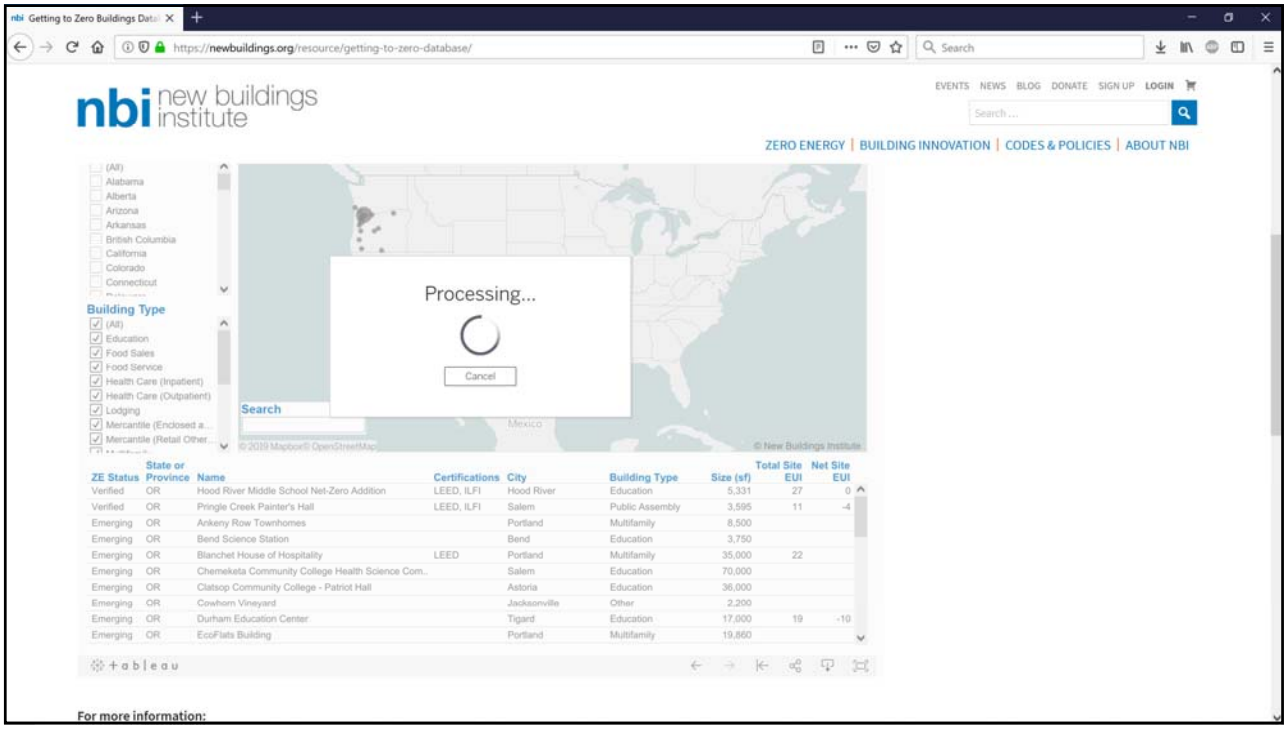
ZE Status | State or Province | Name | Certifications | City | Building Type | Size (sf) | Total Site EUI | Net Site EUI
Verified | OR | Hood River Middle School Net-Zero Addition | LEED, ILFI | Hood River | Education | 5,331 | 27 | 0
Verified | OR | Pringle Creek Painter's Hall | LEED, ILFI | Salem | Public Assembly | 3,595 | 11 | -4
Emerging | OR | Ankeny Row Townhomes | | Portland | Multifamily | 8,500
Emerging | OR | Bend Science Station | | Bend | Education | 3,750
Emerging | OR | Blanchet House of Hospitality | LEED | Portland | Multifamily | 35,000 | 22
Emerging | OR | Chemeketa Community College Health Science Com.. | | Salem | Education | 70,000
Emerging | OR | Clatsop Community College - Patriot Hall | | Astoria | Education | 36,000
Emerging | OR | Cowhorn Vineyard | | Jacksonville | Other | 2,200
Emerging | OR | Durham Education Center | | Tigard | Education | 17,000 | 19 | -10
Emerging | OR | EcoFlats Building | | Portland | Multifamily | 19,860
tableau
For more information:


Getting to Zero Buildings Data
https://newbuildings.org/resource/getting-to-zero-database/
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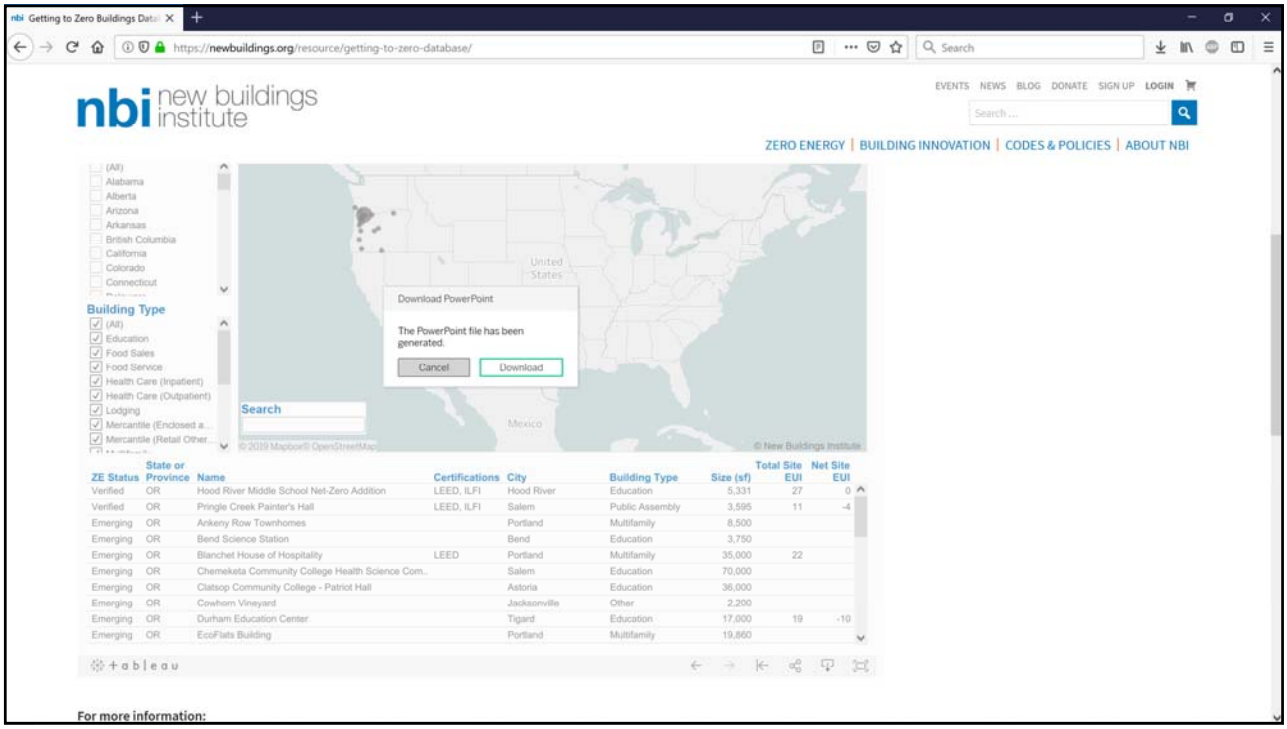
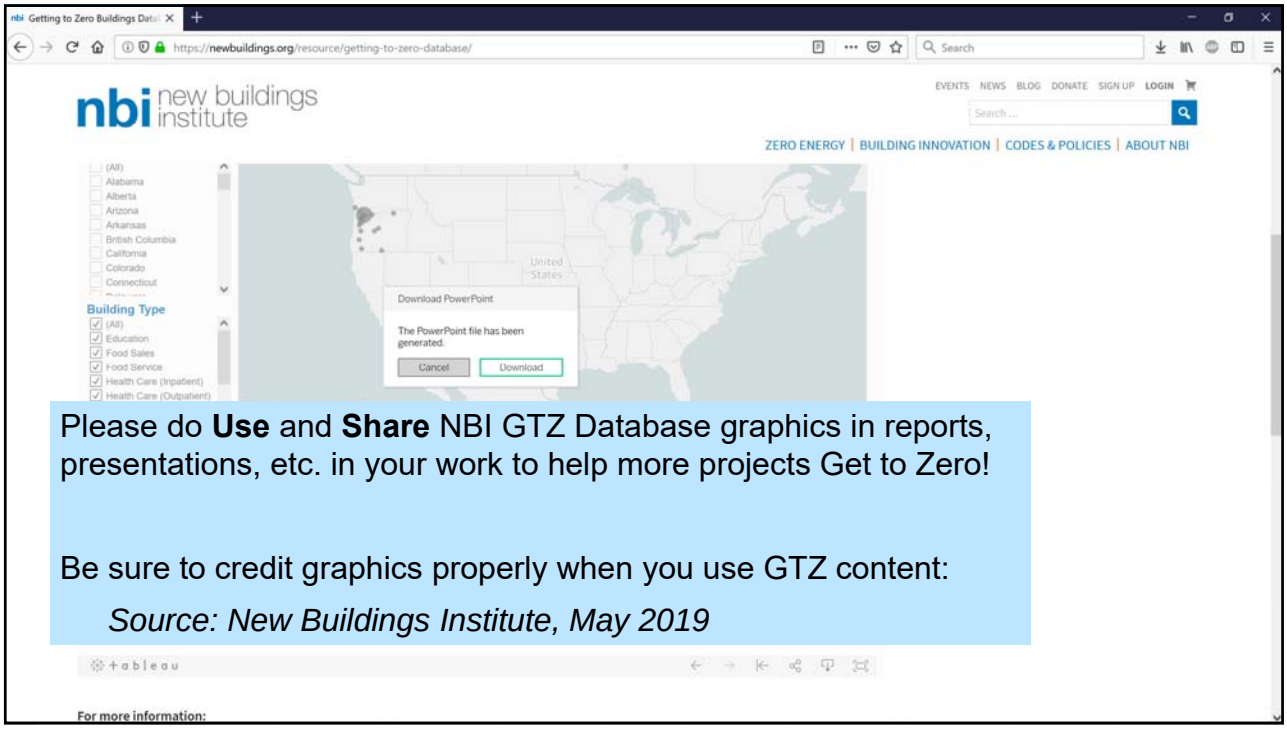
ZERO ENERGY | BUILDING INNOVATION | CODES & POLICIES | ABOUT NBI
Processing...
Cancel
Building Type
Search
© New Buildings Institute
ZE Status | State or Province | Name | Certifications | City | Building Type | Size (sf) | Total Site EUI | Net Site EUI
Verified | OR | Hood River Middle School Net-Zero Addition | LEED, ILFI | Hood River | Education | 5,331 | 27 | 0
Verified | OR | Pringle Creek Painter's Hall | LEED, ILFI | Salem | Public Assembly | 3,595 | 11 | -4
Emerging | OR | Ankeny Row Townhomes | | Portland | Multifamily | 8,500
Emerging | OR | Bend Science Station | | Bend | Education | 3,750
Emerging | OR | Blanchet House of Hospitality | LEED | Portland | Multifamily | 35,000 | 22
Emerging | OR | Chemeketa Community College Health Science Com.. | | Salem | Education | 70,000
Emerging | OR | Clatsop Community College - Patriot Hall | | Astoria | Education | 36,000
Emerging | OR | Cowhorn Vineyard | | Jacksonville | Other | 2,200
Emerging | OR | Durham Education Center | | Tigard | Education | 17,000 | 19 | -10
Emerging | OR | EcoFlats Building | | Portland | Multifamily | 19,860
tableau
For more information:





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Be sure to credit graphics properly when you use GTZ content:

Source: New Buildings Institute, May 2019

What's your number?

Submit your zero energy project information and have your numbers shared!

newbuildings.org/project-registry/

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newbuildings.org

zHome in Issaquah, WA, has an EUI of

21

significantly lower than the CBECS average* for multifamily housing of 59.6.

*CBECS-Commercial Buildings Energy Consumption Survey

zHome | Issaquah, WA
Credit: Ichijo USA

Resources and Events

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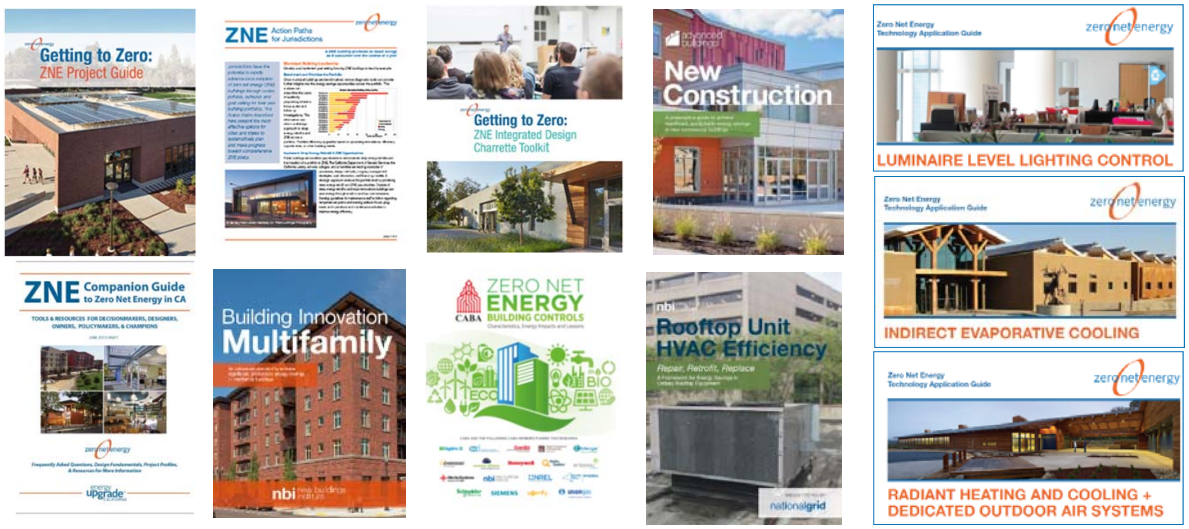
West Berkeley Public Library, Berkeley, CA

NBI ZE and Energy Efficiency Resources



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Questions?


California Lottery, Santa Fe Springs, CA | Credit: LPAS Arch + Design

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