

Buildings of Excellence Competition – Round 3 Informational Session

Building Energy Exchange and NYSERDA are pleased to host this informational session celebrating the third round of the Buildings of Excellence competition. During this informational session, learn about the vision of this round of the challenge and learn from Round 1 and Round 2 Buildings of Excellence Competition winners who are leading by example with innovative and highly effective strategies for achieving carbon neutral buildings.

Opening Remarks & Moderator

Patrick O'Shei, Director of Market Development, NYSERDA

Speakers

Sara Bayer, Associate Principal & Director of Sustainability, Magnusson Architecture & Planning (MAP)

Jeff Mirel, Principal, The Rosenblum Companies

Patrick Fitzgerald, Senior Project Manager, New Construction, NYSERDA

Kristin Graham, Project Manager, NYSERDA

Gwen McLaughlin, Project Manager, NYSERDA

May 5, 2022 | 11am to 12:30pm

Building Energy Exchange | be-exchange.org



NYSERDA

**be
ex**

building
energy
exchange

Buildings of Excellence: Building 150 at Great Oaks Eco Park



BETTER SPACES



**Buildings of
Excellence**
Award Winner



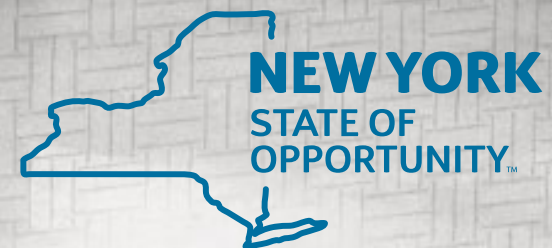
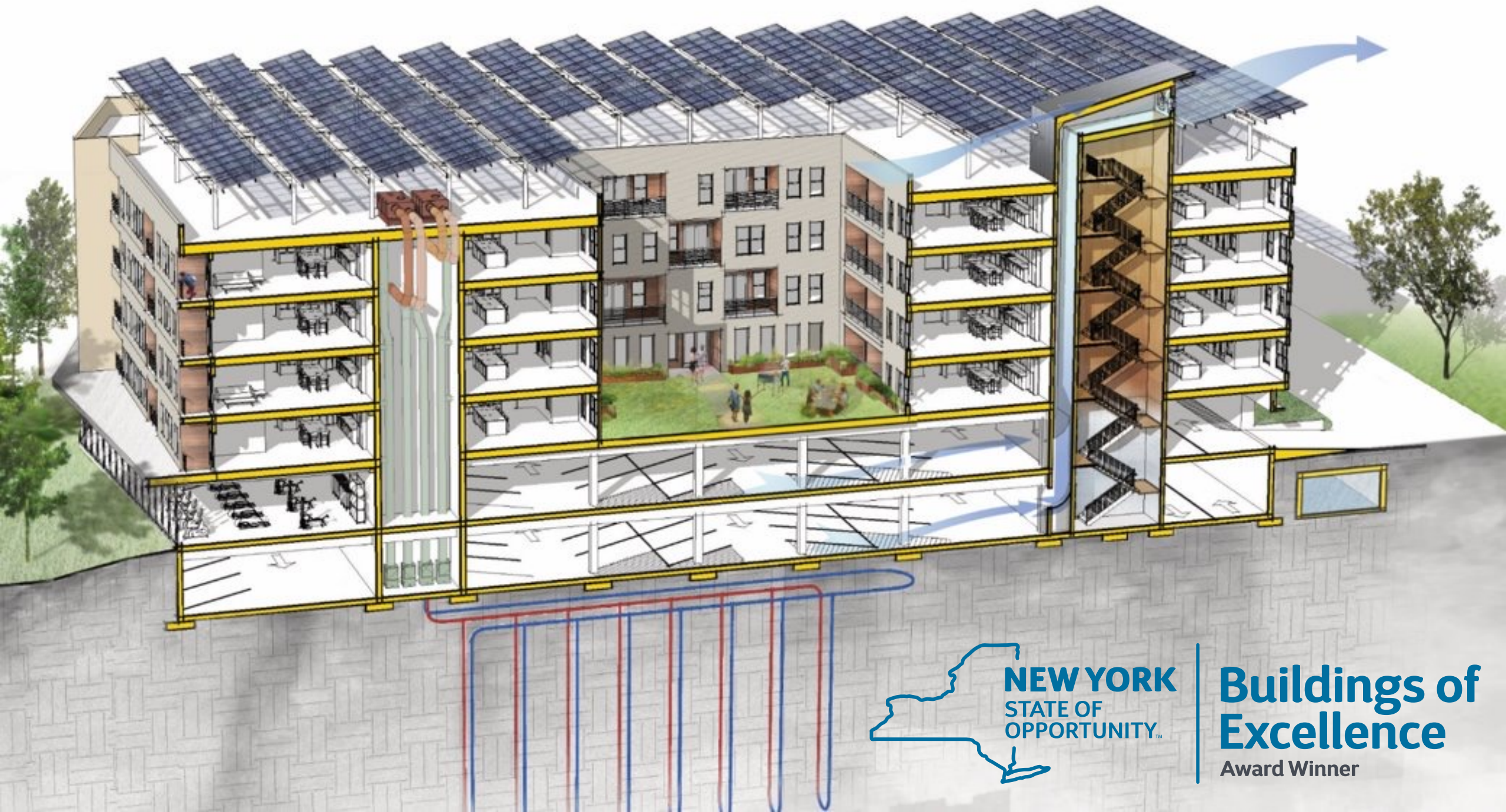
BETTER SPACES

- **Place**
- **Practice**
- **Performance**
 - **Envelope, Fenestration**
 - **Systems, Controls**
 - **Electrification**
 - **Renewables**



PATH TO NZE





**Buildings of
Excellence**
Award Winner

An aerial photograph of a city landscape. In the foreground, a large, modern, multi-story building with a dark facade and many windows is highlighted. It is surrounded by green trees and a parking lot. In the background, other city buildings and a highway are visible under a clear sky.

BUILDING 150

- **Performance**
 - **Passive House**
 - **Solar**
- **Place**
 - **Infill / Mixed Use**
 - **Transit Access**
- **Practice**
 - **Green Community**

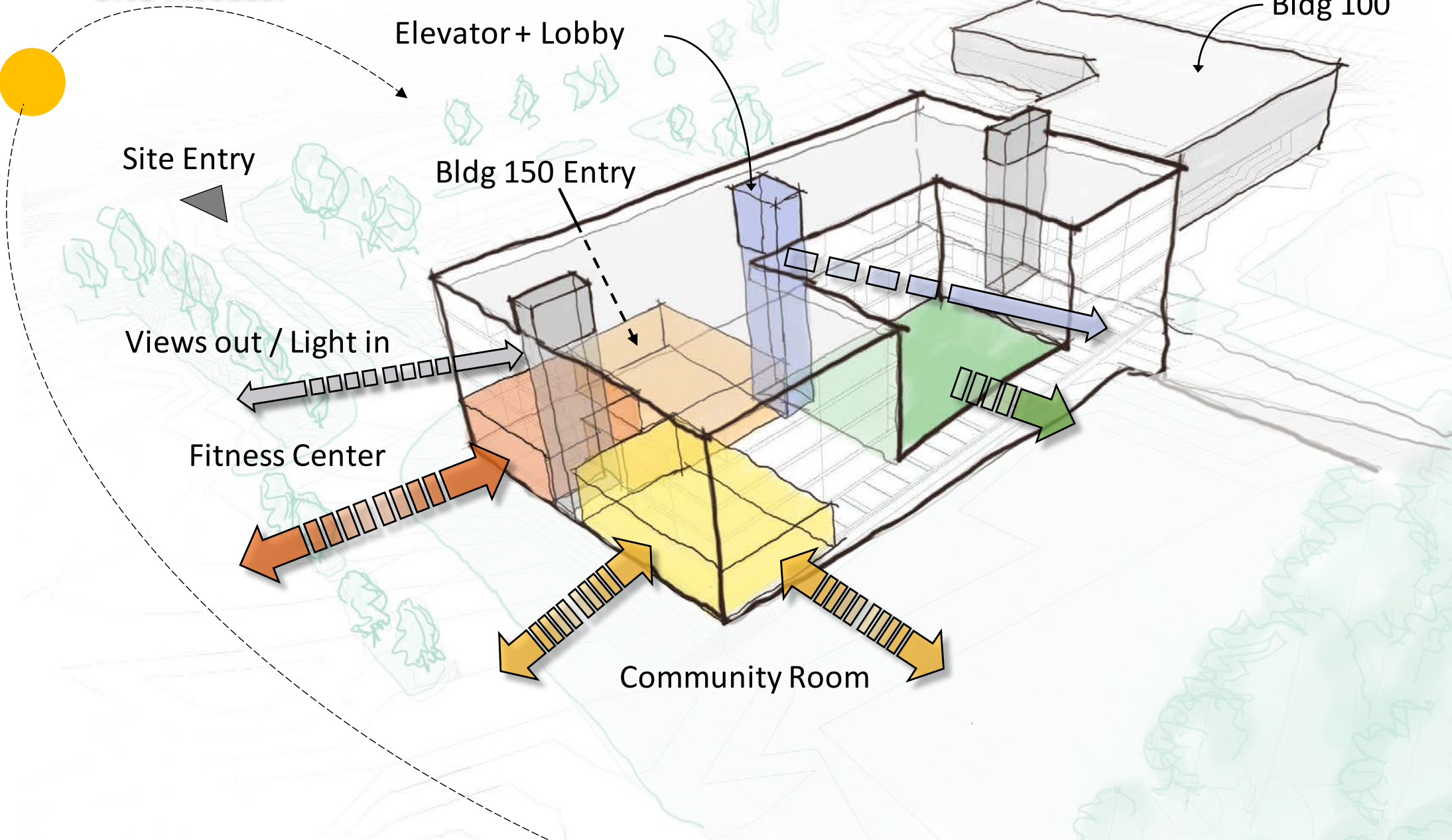
CONTEXT & BIOPHILIC DESIGN

Minimalist Detailing:
Metal Accents at typical transitions
such as parapet caps and
windowsills



Entries are demarcated with
brick portals that puncture
the glass curtainwall

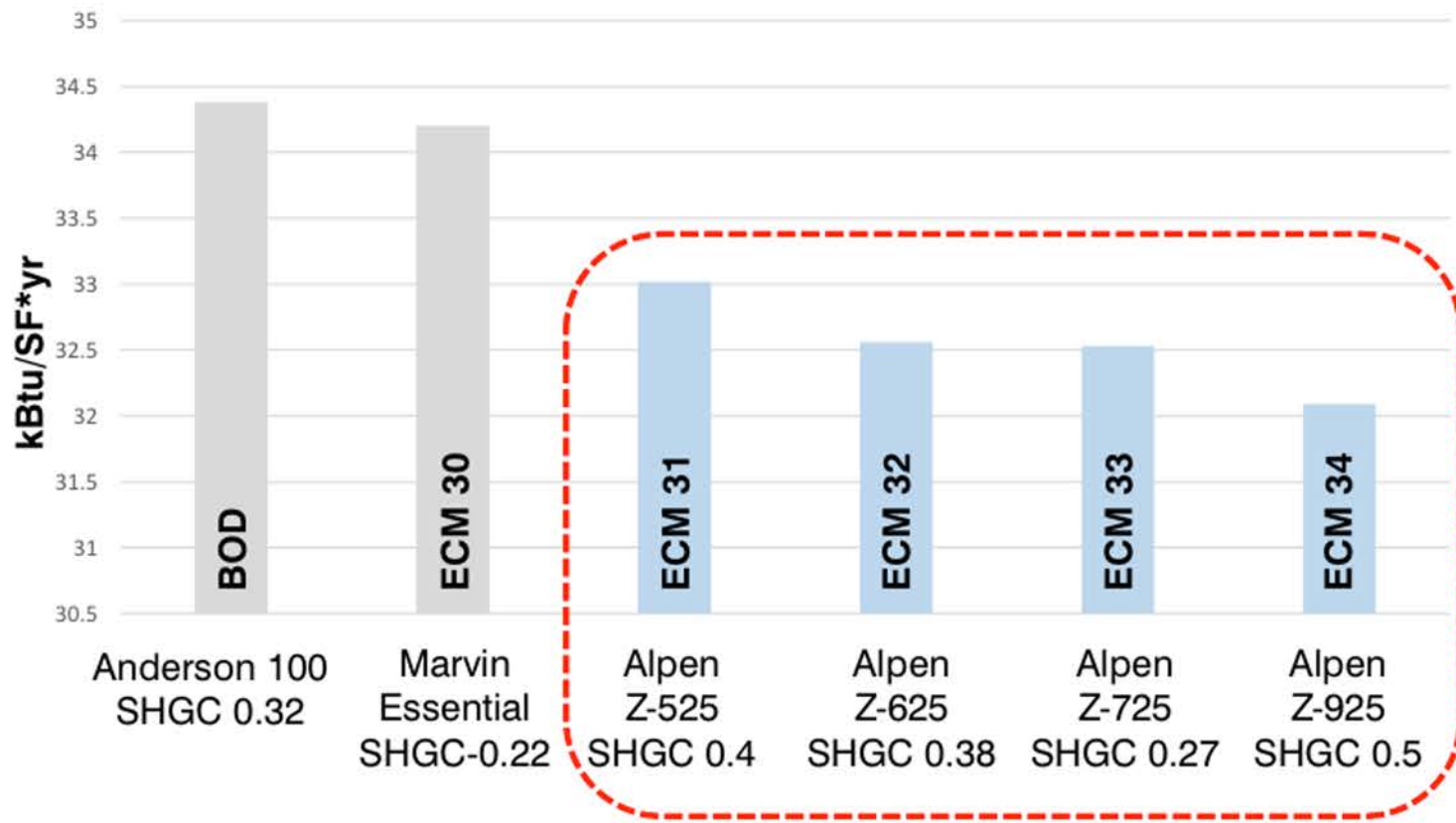
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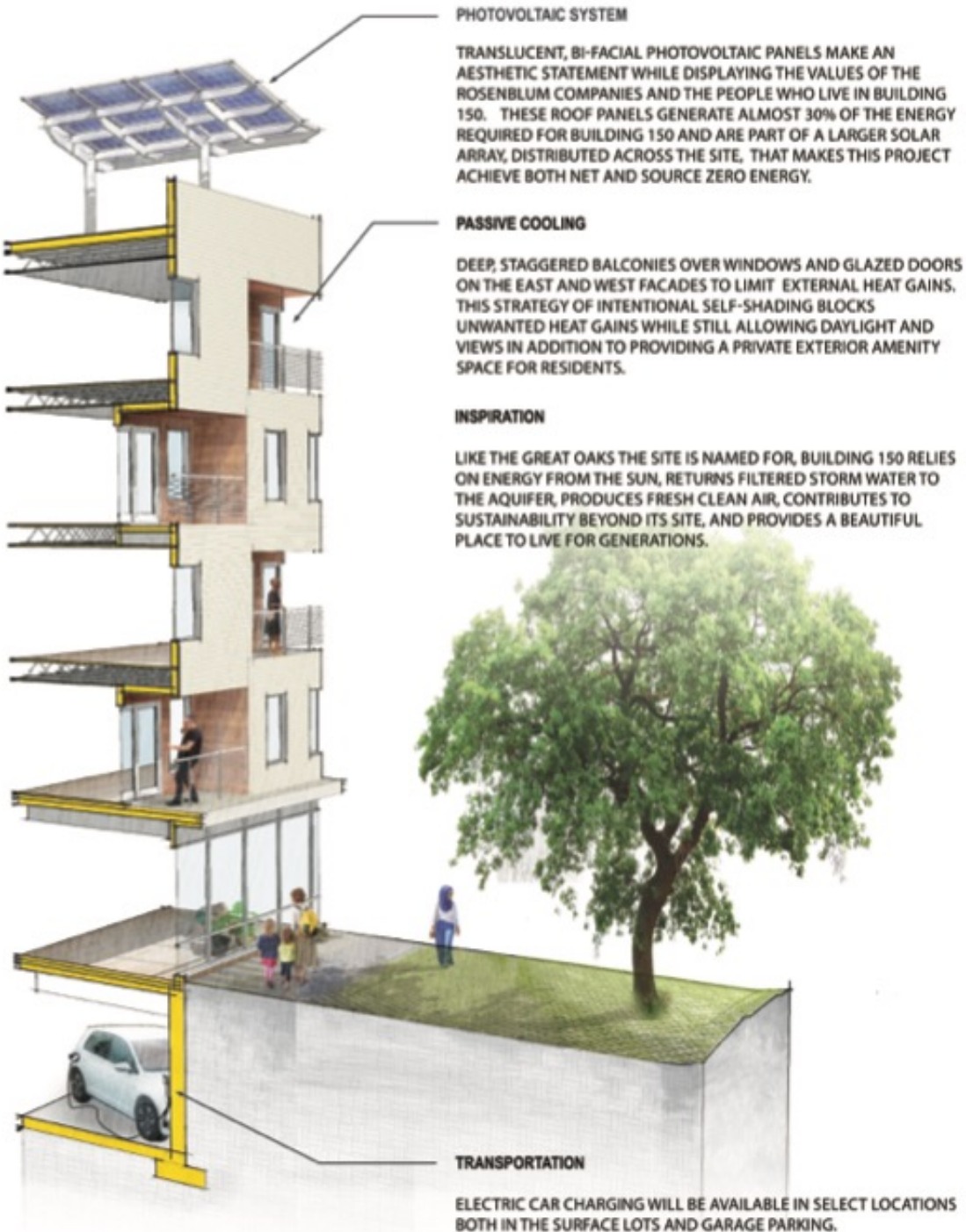
E.C.M.s



Punched Openings



Material	Anderson 100 SHGC 0.32	Marvin Essential SHGC-0.22	Alpen Z-525 SHGC 0.4	Alpen Z-625 SHGC 0.38	Alpen Z-725 SHGC 0.27	Alpen Z-925 SHGC 0.5
U-Value	U-0.33	U-0.29	U-0.217	U-0.167	U-0.149	U-0.141
Energy Savings over BOD (kBtu/SF*yr)		0.18	1.36	1.82	1.85	2.29



SUSTAINABLE SUSTAINABILITY

- Rent Parity
- Shared Benefits



**Buildings of
Excellence**
Award Winner

- Best Practices
- Data Sharing
- Replicability

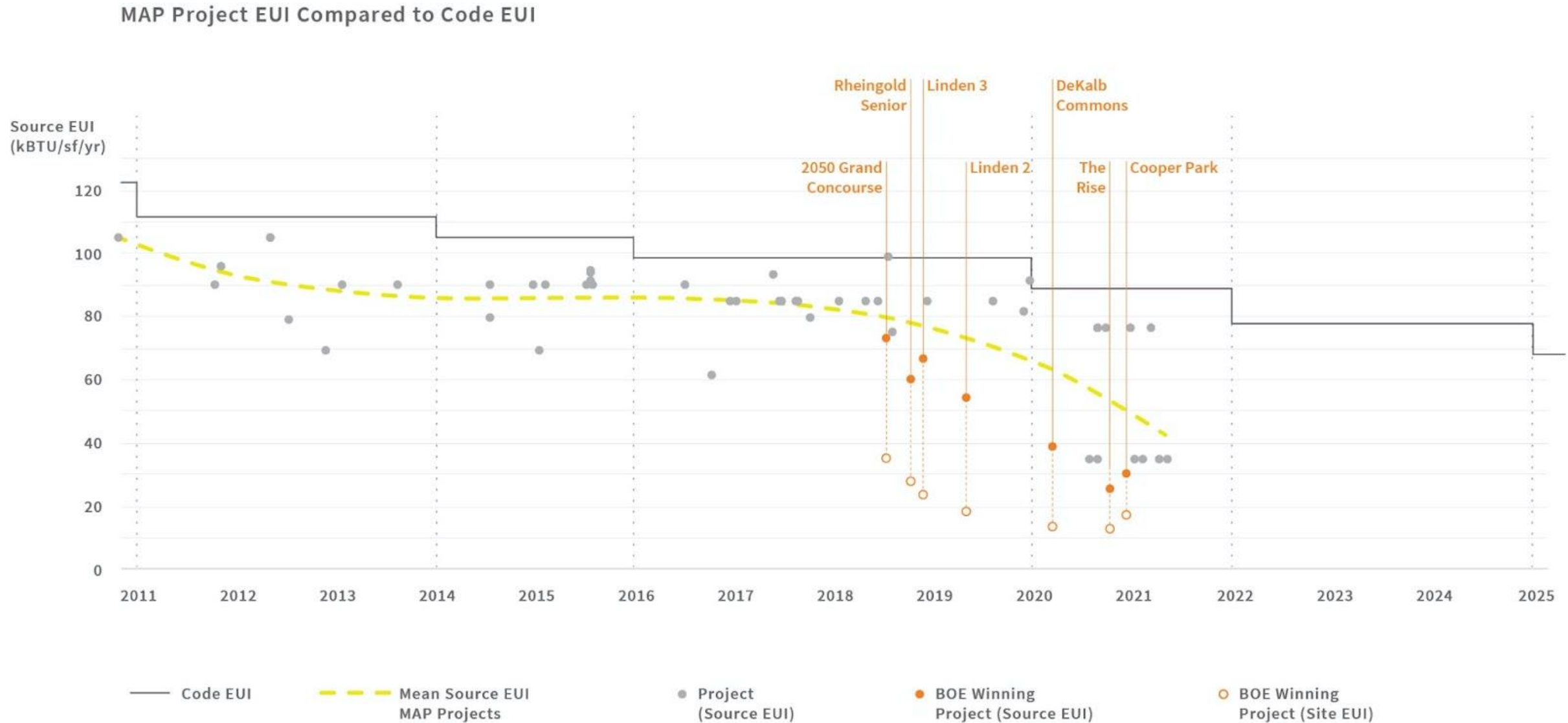


**NYSERDA
BUILDINGS OF
EXCELLENCE**



MAGNUSSON ARCHITECTURE AND PLANNING

PORTFOLIO (p)EUI TRACKING





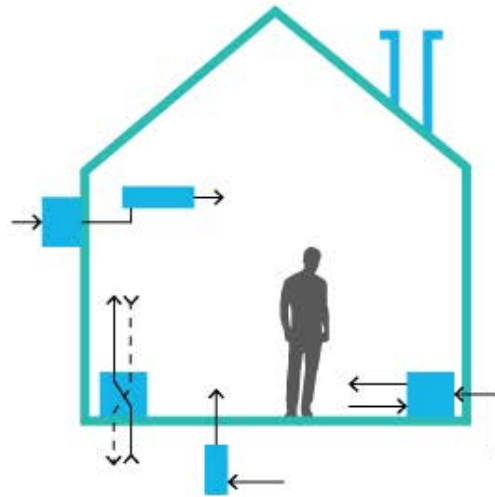
NEW YORK
STATE OF
OPPORTUNITY.

**Buildings of
Excellence**
Award Winner

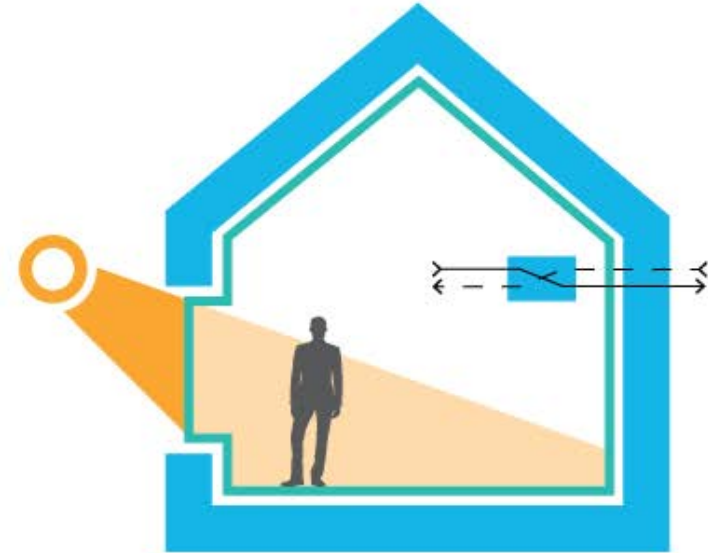




19th Century



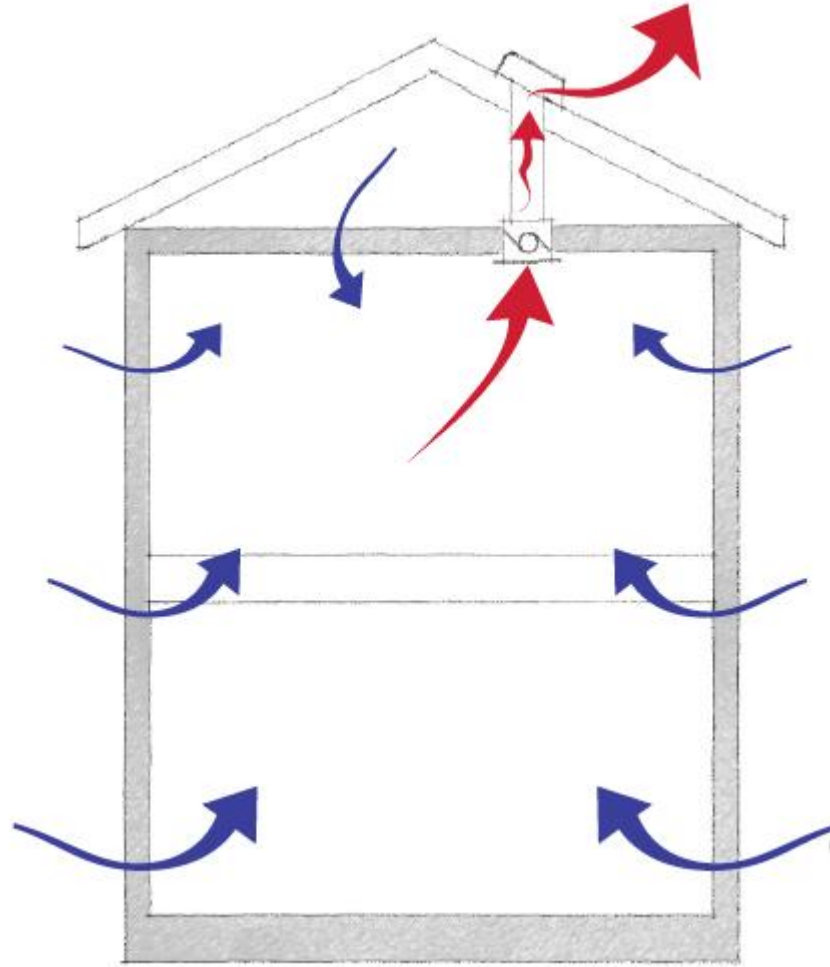
20th Century



21st Century

IMAGE SOURCE: PASSIVE HOUSE SCHOOL

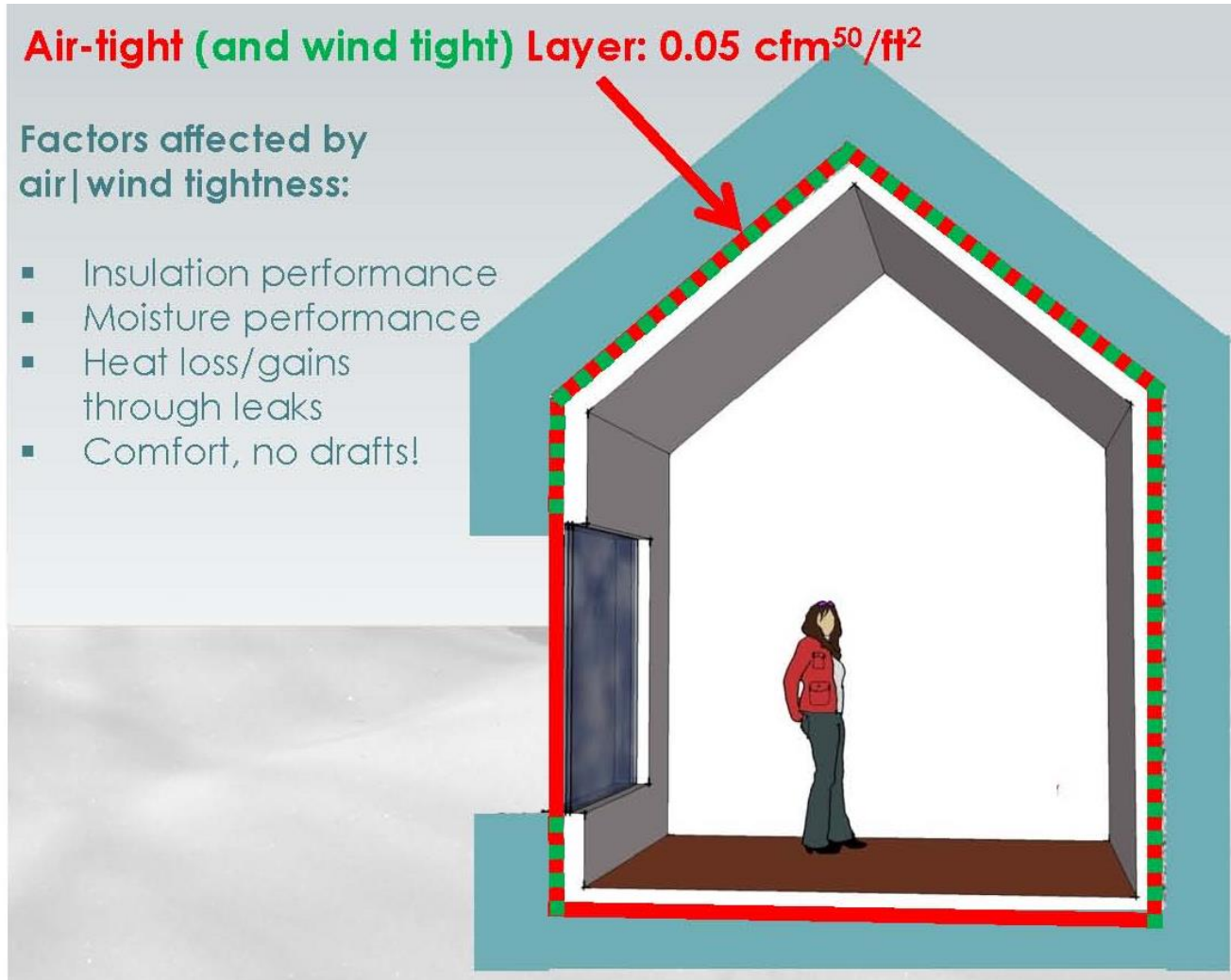
CURRENT CODE



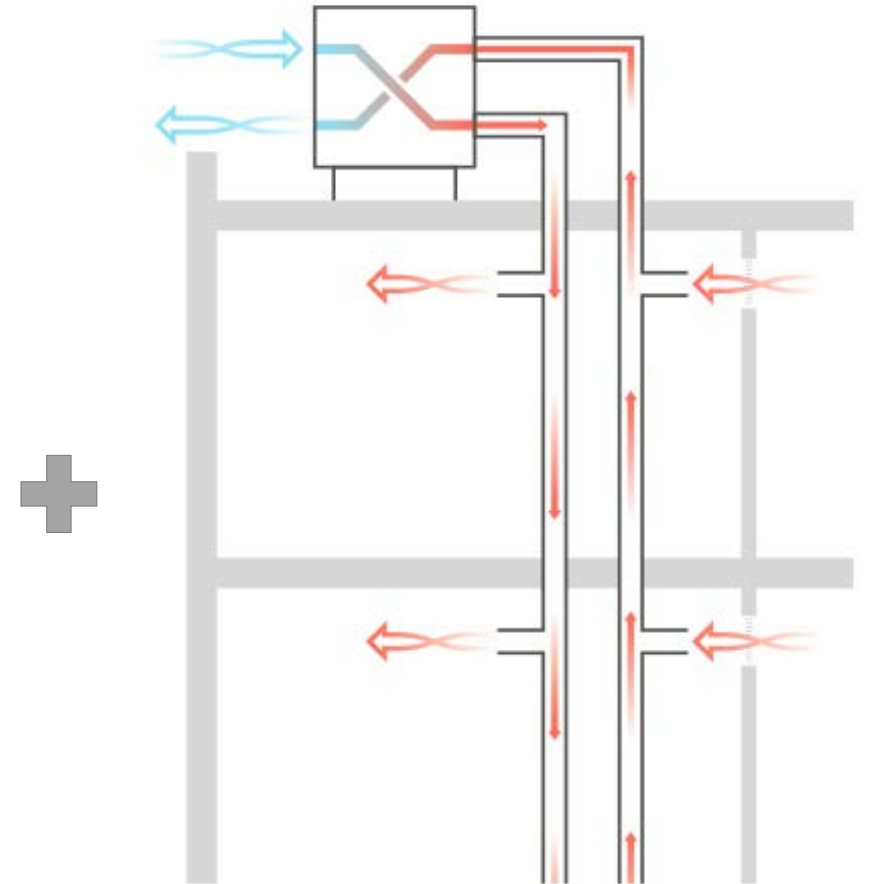
NON-AIRTIGHT ENCLOSURE + EXHAUST ONLY VENTILATION =
“*FRESH AIR*” FROM LEAKY WALLS!

IMAGE SOURCE: BUILDING SCIENCE CORP

AIRTIGHTNESS + BALANCED VENTILATION



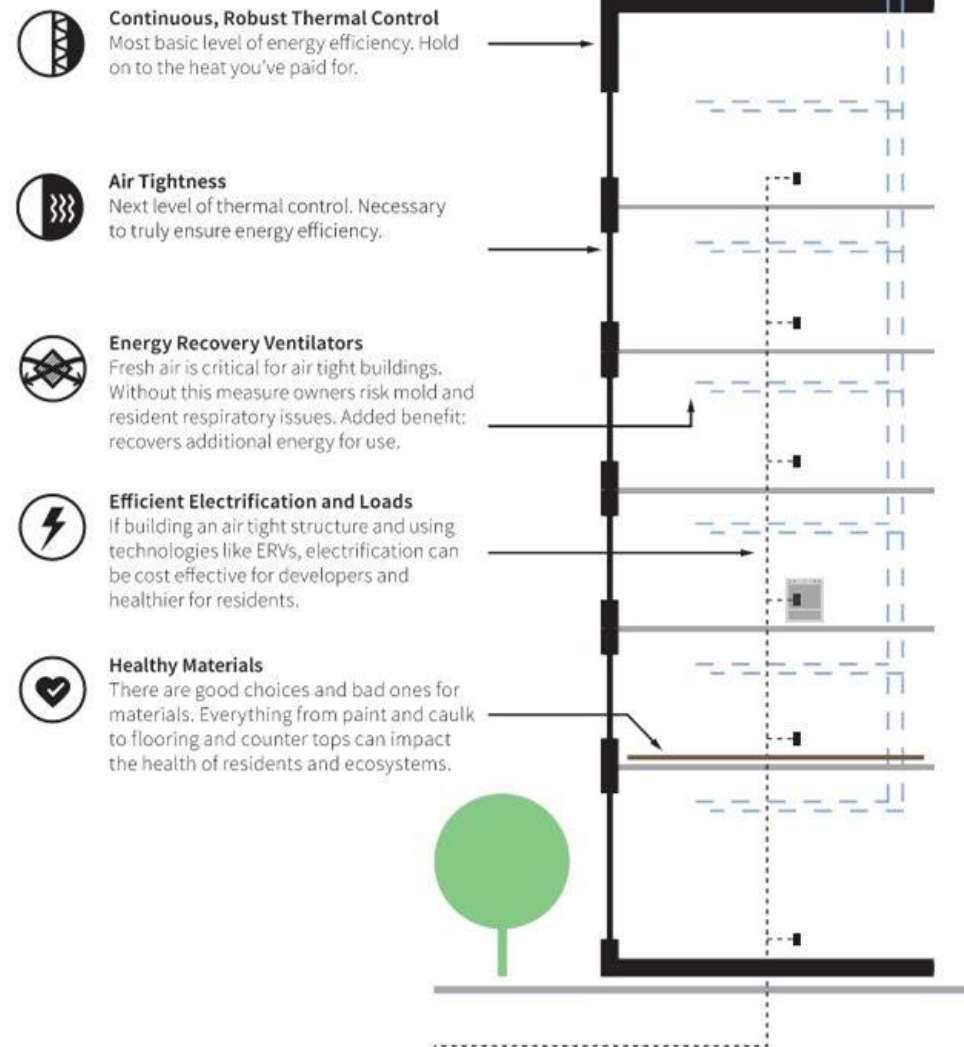
SOURCE: PHIUS



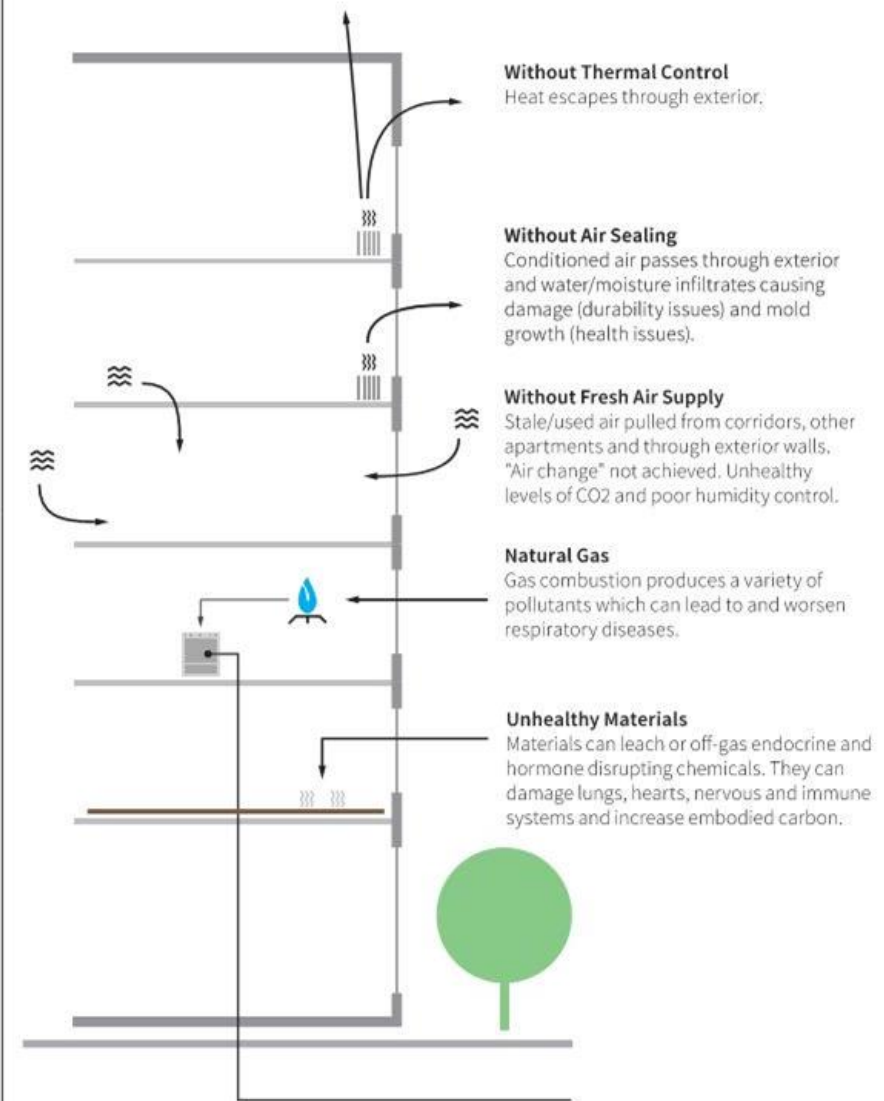
SOURCE: BEEHIVE BETTER VENTILATION PLAYBOOK

PRINCIPLES OF THE NEW NORMAL

5 CORE PRINCIPLES OF HEALTHY, EFFICIENT, DURABLE, AND SUSTAINABLE BUILDINGS:



Vs. CODE MIN



RHEINGOLD SENIOR

SOURCE ENERGY USE INTENSITY (EUI)

(w/o renewables)

Avg NYC Multifamily Bldg:	112 kBtu/sf/yr
Code Building (2016):	99 kBtu/sf/yr
PHIUS Primary Energy:	Approx 34 kBtu/sf/yr
PHI Primary Energy:	Approx 40 kBtu/sf/yr
LL97- 2024 limit:	6.75 kgCO ₂ /sf
LL97- 2030 limit:	4.07 kgCO ₂ /sf
Building As Proposed:	60.4 kBtu/sf/yr
	1.8 kgCO₂/sf
	SITE EUI: 28.03 kBtu/sf
Certification:	Target PHIUS 2015
	NCP Tier III
	(All Electric)



THE “REAL COST”

WINDOWS:

Whole Window U
SHGC
Air Infiltration
Installation Details

DOORS & STOREFRONT:

Whole Storefront U
SHGC
Air Infiltration
Installation Details
Thresholds
Opaque Doors U

INSULATION:

Exterior Walls
Below Footings
Roof
Parapets
Below Cellar Slab
Slab on Grade
Hot Water Pipes
Cold Water Pipes
Ducts (Supply/Return)

THERMAL BRIDGES:

Cladding Girts
Canopy Details
Roof Equipment
Solar Structure

AIR BARRIER:

Exterior Walls
Vertical Ducts
Windows
Rough Openings
Hot Water Room
Trash Chute & Rm
Stair Exhaust
Elevator Exhaust
Trash Room Cellar
Gas Meter Room
Apt Compartmentalization

VRF:

Size (Capacity
of Condensing Units

ERV:

CFM flow Rates
SHGC
MERV Filters
Performance Efficiency

LOAD:

Stove
Hoods
Refrigerator
Fixture Flow Rate
Metering for Leaks
Lighting & Controls

DESIGN/

SOFT COSTS:

Energy Model
PHIUS Cert
GC Quals

TESTING:

Commissioning
Vertical Ducts
Envelope
Apartments
Air Barrier Inspect
Insulation Inspect

PHIUS 2015 vs NYSERDA Tier II = Less than 1% cost difference

Source EUI: 60.4 vs 74.0

Annual Cost Savings: \$52,199

2050 GRAND CONCOURSE

SOURCE ENERGY USE INTENSITY (EUI)

(w/o renewables)

Avg NYC Multifamily Bldg:	112 kBtu/sf/yr
Code Building (2016):	99 kBtu/sf/yr
PHIUS Primary Energy:	Approx 34 kBtu/sf/yr
PHI Primary Energy:	Approx 40 kBtu/sf/yr
LL97- 2024 limit:	6.75 kgCO2/sf
LL97- 2030 limit:	4.07 kgCO2/sf
Building As Proposed:	74.5 kBtu/sf/yr 2.52 kgCO2/sf SITE EUI: 34.3 kBtu/sf
Certification:	LEED Homes Platinum (Goal) NCP Tier II



DEKALB COMMONS

SOURCE ENERGY USE INTENSITY (EUI)

(w/o renewables)

Avg NYC Multifamily Bldg:	112 kBtu/sf/yr
Code Building (2020):	88.3 kBtu/sf/yr
PHIUS Primary Energy:	Approx 34 kBtu/sf/yr
PHI Primary Energy:	Approx 40 kBtu/sf/yr
LL97- 2024 limit:	6.75 kgCO2/sf
LL97- 2030 limit:	4.07 kgCO2/sf
Building As Proposed:	39.21 kBtu/sf/yr
	1.21 kgCO2/sf
	SITE EUI: 14.01 kBtu/sf
Certification:	PHIUS 2015
	(All Electric)



Near Net Zero Operational Energy



Robust Thermal Enclosure

- Passive House - Continuous R-values and airtightness
- Effective R-Values: Roof R50 / Walls R30 / Cellar Walls + Slab on Grade R12 / Sub Slab R5
- Window U-value = 0.27 (whole window)
- Window SHGC = 0.40 (glazing only)
- Straightforward, cost effective and 95% thermally efficient rain screen cladding design
- All thermal bridges mitigated
- High albedo roofs
- Window placement within wall reduces thermal bridging PSI value and provides partial shading



Efficient Energy Load

- All low flow fixtures
- All LED lighting
- Each apartment sub-metered
- Efficient heating, cooling and ventilation (VRF/ERV)
- Maximized daylight in circulation areas
- Smart plugs for each living room, lowering resident electric bill
- Above code insulation at hot water piping
- Enhanced commissioning and on site training of property management

Decarbonized and All-Electric



Renewable Energy & Grid Smart

- Maximized Area for solar, with pergola and ballasted systems
- Photo-voltaic Panels (PVs) are visible from the street to highlight renewable energy production
- Battery ready infrastructure
- Heat pump hot water serves as renewable energy storage



All Electric Systems

- Centralized energy recovery ventilators (ERVs) serving all spaces
- Air source heat pumps for all space conditioning
- All electric appliances and laundry equipment
- Heat pump domestic hot water production

Healthy and Resilient Living



Healthy Interiors

- No/Low Volatile Organic Compounds (VOCs)
- No Formaldehyde and no spray polyurethane foam
- No PVCs nor vinyl flooring with phthalates
- Consistent filtered fresh air to living rooms and bedrooms provides healthy relative humidity and oxygen levels
- Comfortable space throughout, including at exterior wall due to robust thermal enclosure
- Electric stoves (no combustion in the living spaces)
- Air-tight, compartmentalized apartments and dedicated fresh air, reduces pathogens transfer



Biophilia & Active Design

- Green roofs at all setbacks provide a visual connection to nature
- Planted privacy buffers at ground floor apartments
- Pollinator friendly and native plants to support local ecosystems
- Rear yard is visible through the building which builds community and visually shares planted outdoor space
- Daylight in each stair encourages physical activity
- Bioswales and maximized permeable lot area protect water ecosystem health
- Rear yard provides safe space for outdoor activity
- Daylit community room and elevator lobbies provide opportunity for socialization

Mitigated Embodied Carbon



Low Global Warming Potential Materials

- Stone wool (non petroleum low GWP) insulation at walls and roofs
- 100% recycled foam glass sub slab insulation (in lieu of high GWP XPS/EPS)
- Cladding Design minimizes waste and material
- Refrigerant Management and leak detection
- Efficient refrigerant distribution and shorter piping runs
- 35% embodied carbon reduction potential in Concrete, Structural Steel, Cold formed Steel, and Drywall per EC3 tool
- EPD's requested of all materials
- High recycled content basis of design in: Drywall and Steel
- Carbon Neutral Certified apartment flooring
- CMU requested to incorporate Carbon Cure & Pozzotiv



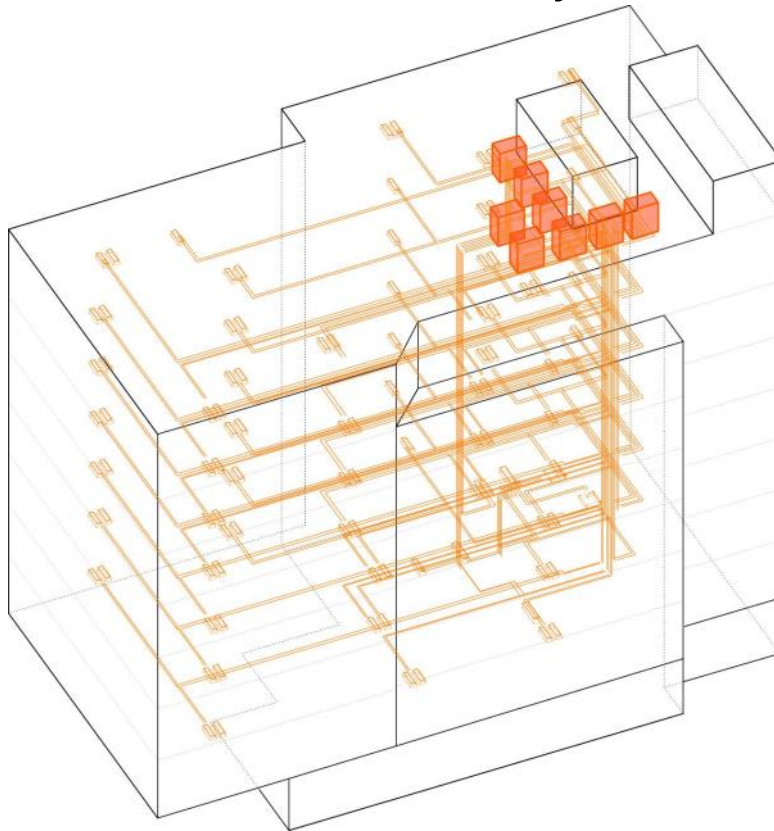
REFRIGERANT MANAGEMENT

BAU vs Optimized K kgCO₂e

1,975.4

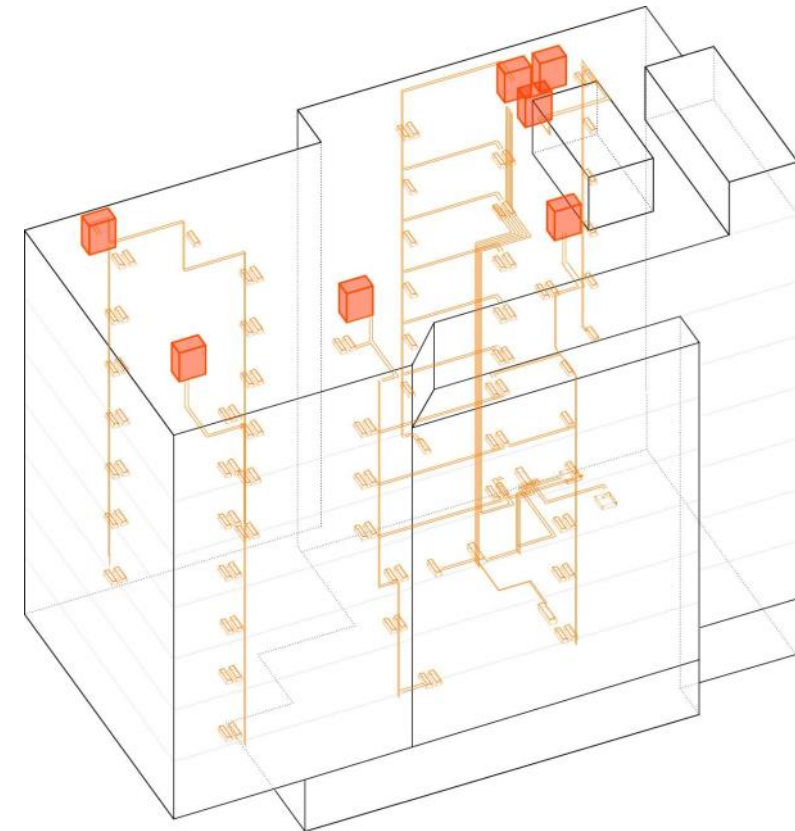
619.2

HORIZONTAL DISTRIBUTION
(ex. heat recovery)



6,700 LF

VERTICAL DISTRIBUTION



2,100 LF

LINDEN II

SOURCE ENERGY USE INTENSITY (EUI)

(w/o renewables)

Avg NYC Multifamily Bldg: 112 kBtu/sf/yr

Code Building (2016): 99 kBtu/sf/yr

PHIUS Primary Energy: Approx 34 kBtu/sf/yr

PHI Primary Energy: Approx 40 kBtu/sf/yr

LL97- 2024 limit: 6.75 kgCO₂/sf

LL97- 2030 limit: 4.07 kgCO₂/sf

Building As Proposed: 53.72 kBtu/sf/yr

1.45 kgCO₂/sf

SITE EUI: 19.19 kBtu/sf

Certification: EGC

(All Electric)



LINDEN III

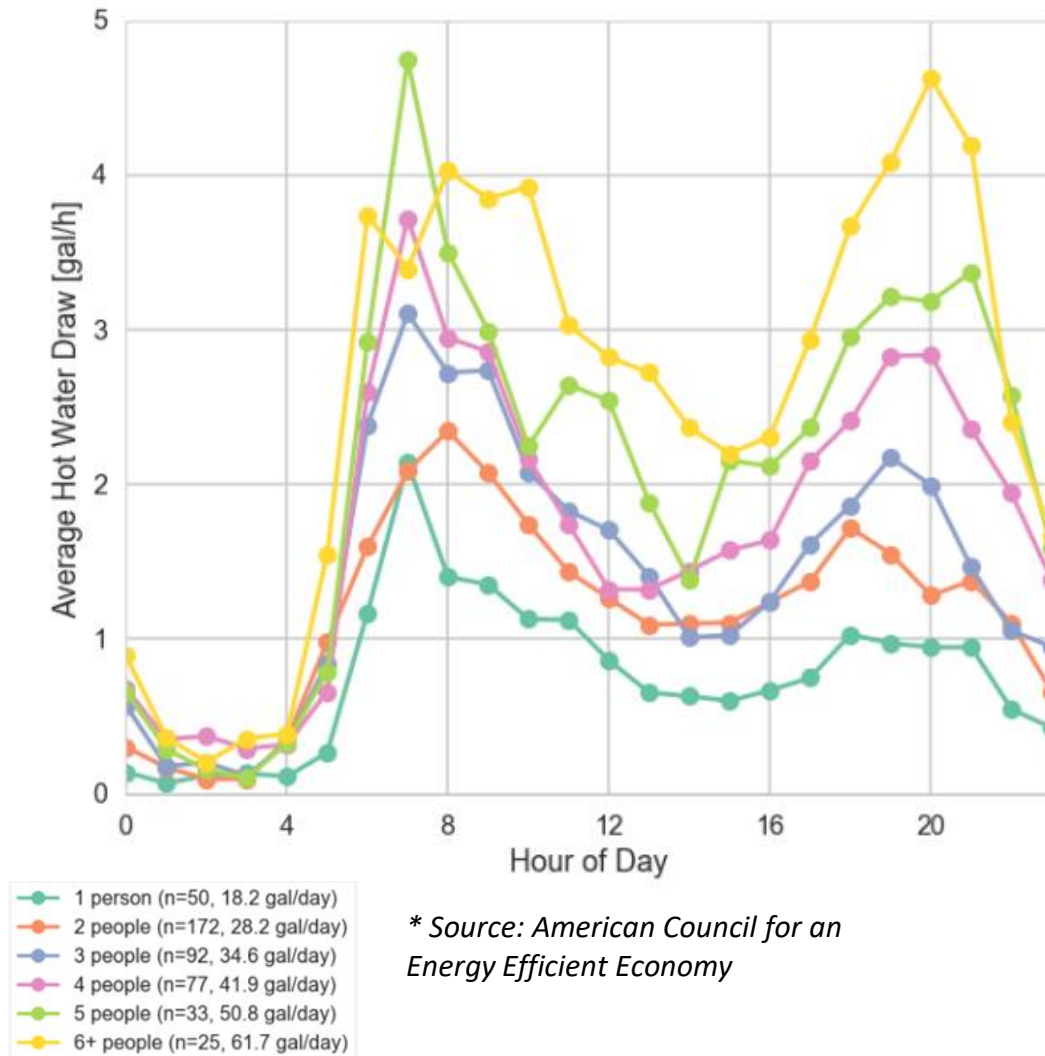
SOURCE ENERGY USE INTENSITY (EUI)

(w/o renewables)

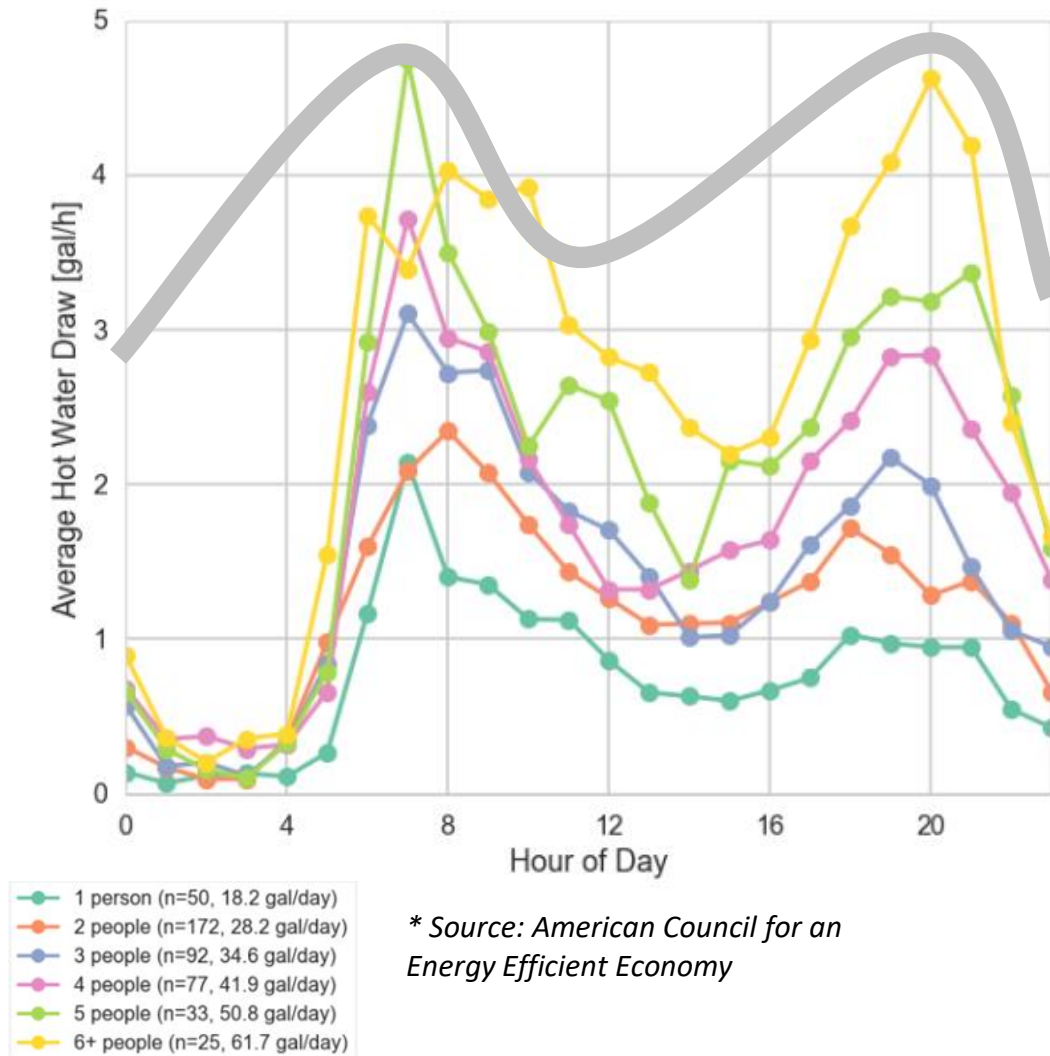
Avg NYC Multifamily Bldg:	112 kBtu/sf/yr
Code Building (2020):	88.3 kBtu/sf/yr
PHIUS Primary Energy:	Approx 34 kBtu/sf/yr
PHI Primary Energy:	Approx 40 kBtu/sf/yr
LL97- 2024 limit:	6.75 kgCO ₂ /sf
LL97- 2030 limit:	4.07 kgCO ₂ /sf
Building As Proposed:	65.61 kBtu/sf/yr 1.69 kgCO₂/sf SITE EUI: 23.43 kBtu/sf
Certification:	EGC (All Electric)



ELECTRIFICATION – DOMESTIC HOT WATER STRATEGIES



ELECTRIFICATION – DOMESTIC HOT WATER STRATEGIES



AIR SOURCE HEAT PUMP
HOT WATER HEATERS



INSULATED STORAGE TANKS

COOPER PARK

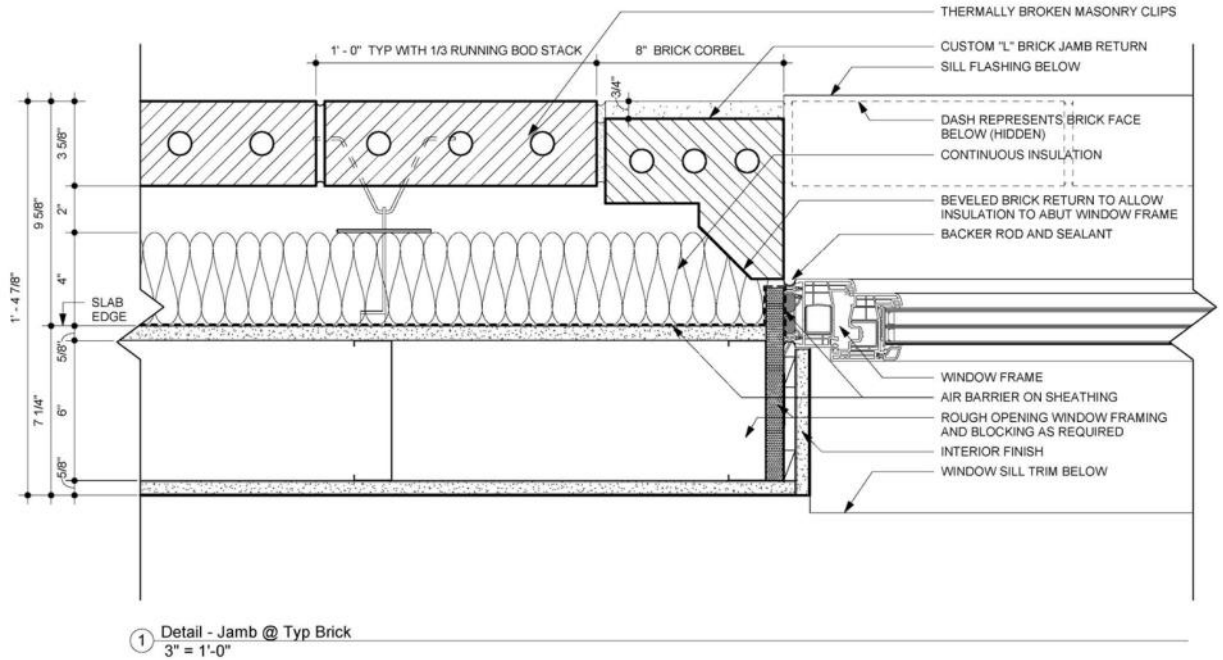
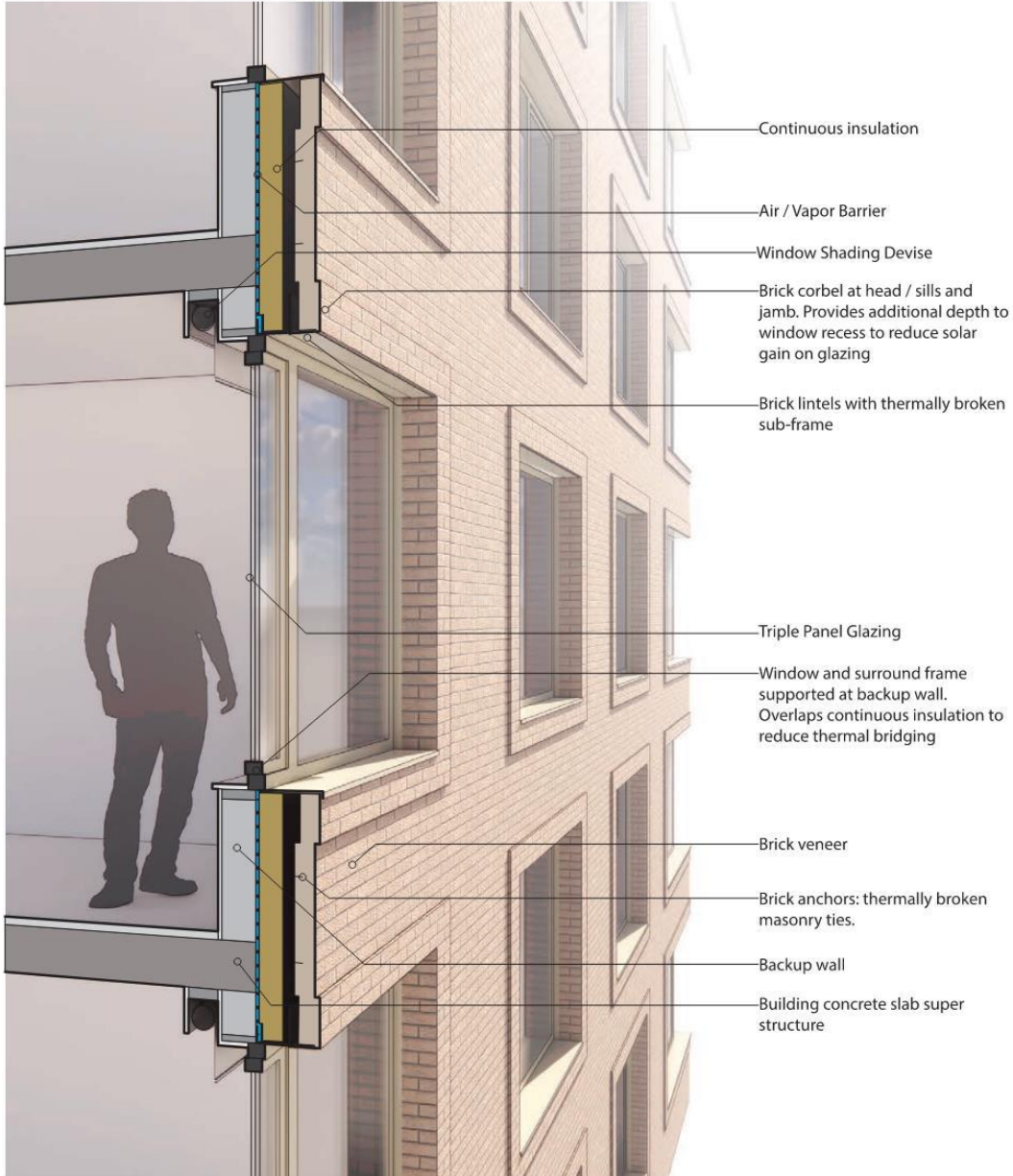
SOURCE ENERGY USE INTENSITY (EUI)

(w/o renewables)

Avg NYC Multifamily Bldg:	112 kBtu/sf/yr
Code Building (2020):	88.3 kBtu/sf/yr
PHIUS Primary Energy:	Approx 34 kBtu/sf/yr
PHI Primary Energy:	Approx 40 kBtu/sf/yr
LL97- 2024 limit:	6.75 kgCO2/sf
LL97- 2030 limit:	4.07 kgCO2/sf
Building As Proposed:	29.66 kBtu/sf/yr
	0.92 kgCO2/sf
	SITE EUI: 10.59 kBtu/sf
Certification:	PHI
	(All Electric)



TYPICAL BRICK WALL DETAIL



CREDIT: ARCHITECTURE OUTFIT

CREDIT: ARCHITECTURE OUTFIT

THE RISE / SITE J

SOURCE ENERGY USE INTENSITY (EUI)

(w/o renewables)

Avg NYC Multifamily Bldg:	112 kBtu/sf/yr
Code Building (2020):	88.3 kBtu/sf/yr
PHIUS Primary Energy:	Approx 34 kBtu/sf/yr
PHI Primary Energy:	Approx 40 kBtu/sf/yr
LL97- 2024 limit:	6.75 kgCO2/sf
LL97- 2030 limit:	4.07 kgCO2/sf
Building As Proposed:	21.26 kBtu/sf/yr 1.80 kgCO2/sf SITE EUI: 17.25 kBtu/sf
Certification:	PHI (All Electric)



MATERIALS/EMBODIED CARBON

Locally produced as much as possible

- Aggregate for concrete

Recycled content as much as possible

- Gypsum – Recycled content info
- Structural Steel – 50% Recycled Content

Construction waste management

- Min. 75% diversion rate

Alternate Materials

- Foam glass in lieu of high psi foam
- Stone wool and in lieu of typical XPS insulation
- Reduce the cement in concrete, CMU and precast plank: Increase curing time, Alternate SCMs

Material Transparency

- Calling for EPD in specs



REPLACE CEMENT WITH GROUND GLASS MATERIAL



FOAM GLASS GRAVEL



GREENGUARD GOLD CERTIFIED
ACOUSTIC INSULATION



STONE WOOL INSULATION



SUSTAINABLE GYPSUM BOARD WITH RECYCLED
GREEN FACE AND BROWN BACK PAPERS



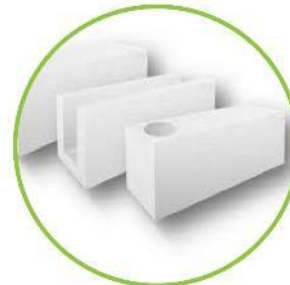
STRUCTURAL STEEL MANUFACTURED IN NORTH
AMERICA WITH MIN 50% RECYCLED CONTENT



GREEN LABEL PLUS CERTIFIED CARPET TILE



HFO XPS INSULATION



AUTOCLAVED AERATED CONCRETE BLOCKS



CMU WITH LOWER GWP



FLOORSCORE CERTIFIED LUXURY VINYL TILE



CALLING FOR EPD IN SPECS



be
ex

building
energy
exchange

discuss.

send questions via Zoom Q+A

Moderator

*Patrick O'Shei, Director of Market Development,
NYSERDA*

Speakers

*Sara Bayer, Associate Principal & Director of
Sustainability, Magnusson Architecture & Planning
(MAP)*

Jeff Mirel, Principal, The Rosenblum Companies

Buildings of Excellence Competition Round 3

Demonstration Projects & Early-Stage Design Support

Pat Fitzgerald

Gwen McLaughlin

Kristin Graham



NYSERDA

Buildings of Excellence Competition

Demonstration Projects

The Competition seeks proposals for demonstration projects that will achieve carbon neutral performance while being beautiful and functional, providing healthy, safe, comfortable, and resilient living spaces for their occupants.

Successful proposers will demonstrate:

- How they will be profitable for the project's developers and owners,
- How they will achieve realistic cost reductions in design and construction of carbon neutral buildings,
- How they offer the greatest potential for success and replication in the market.

Buildings of Excellence Competition

Demonstration Projects

The Proposer to Round 3 of the Demonstration component of the Competition:

- **The Proposer must be** the owner or developer and have the authority to select and direct all other members of the project team. The proposer must demonstrate their project team has the capabilities to perform and successfully complete the proposed project as a multidisciplinary and integrated project delivery team.
- **The Proposer must select and indicate** who will serve as the design team lead in support of their project.

Buildings of Excellence Competition

Demonstration Projects

Round 3 of the Demonstration component of the Competition:

- Focuses support for projects in the early schematic design through the design development phase as of the date their proposal is submitted to NYSERDA.
- Focused on mid- to high-rise multifamily and mixed-use projects that incorporate multifamily occupancy as the primary use. (> 50%)
- Proposers may be eligible for an award of \$20 per square foot of gross floor area, up to \$1,000,000.
- Projects intended to primarily serve market-rate occupancy will be evaluated separately from projects primarily serving Low- to Moderate-Income households or located in disadvantaged communities.

Buildings of Excellence Competition

Scoring Criteria – Primary Categories

<i>Category</i>	<i>Points</i>
Quality of Architectural Design	20
Carbon Neutral Attributes and Energy Efficiency	20
Reduction in Embodied Carbon	10
Cost Reduction Strategies and Performance Validation	20
Resilience, Passive and Active Survivability	15
Quality of Co-benefits	15

Buildings of Excellence Competition

Scoring Criteria – Bonus Categories

Bonus Categories	The project is subject to the commercial section of the Energy Conservation Construction Code of New York State.	10
	Adaptive re-use or gut rehabilitation projects as defined in the Eligibility Section II of this RFP may be eligible to receive these bonus points. To be eligible, the project must establish that the solutions and attributes are replicable at scale, and applicable to other projects with similar existing conditions attributes.	10
	An additional (2) bonus points will be awarded to projects for each of the following attributes: the project will be in a Clean Energy Community; or in a NYS DEC potential environmental justice area; or in a Downtown Revitalization Initiative area; or in a Disadvantaged Community as defined by New York State; or in a jurisdiction that has committed to adopting NY Stretch Energy Code 2020.	Up to 5 points, maximum.

Buildings of Excellence Competition

Carbon Neutral-ready is an Expectation

Carbon Neutral-ready (carbon neutral) - A project that excludes all fossil fuels from the building systems and equipment qualifies as carbon neutral. Building systems and equipment at a minimum refers to building heating, ventilating and air conditioning (HVAC), domestic hot water (DHW), kitchen, laundry, and other appliances. Projects that rely on a fossil fuel-fired generator for emergency use only, or projects which are served by an off-site fossil fuel-fired central heating plant, may at NYSERDA's sole discretion qualify as carbon neutral if fossil fuel use is excluded from all other building systems and equipment. NYSERDA, at its sole discretion, will consider exemptions to the carbon neutral rule for process and other unregulated loads on the site on a case-by-case basis.

Buildings of Excellence Competition

Exceptional Building Performance is an Expectation

Proposers must rely on one of the following 3rd party standards to establish that the minimum energy efficiency and building performance for the project's residential-associated space:

- **Appendix G of ASHRAE Standard 90.1:** Proposers intending to rely on this standard must commit to designing and constructing a project that will achieve a minimum modeled source (primary) energy savings of 20% when compared with a project design that complies with the relevant Energy Conservation Construction Code of New York State (ECCC of NYS).
- **Meet certification requirements as published by:** Phius (Passive House Institute U.S.) or the Passive House Institute (PHI).
- **Commit to achieving an average Energy Rating Index (ERI) $\leq 0.91 \times \text{MFNC v1.1 ERI Target}$** without inclusion of renewable energy generation for all residential dwelling units, calculated in accordance with the Standard ANSI / RESNET / ICC 301 - 2019, entitled "Standard for the Calculation and Labeling of the Energy Performance of Dwelling and Sleeping Units Using an Energy Rating Index" or the relevant version of this standard as updated in accordance with the ANSI/RESNET/ICC protocols.

NYSERDA Procurement Requirements

For Demonstration Projects, Proposal Due Date: July 14th - [RFP 3928 - Rd3](#)

Contact Information: For technical questions, contact Patrick Fitzgerald (designated contact) at PatrickNC@nyserda.ny.gov or (518) 862-1090 ext. 3385; or Matt Brown (designated contact) at MatthewNC@nyserda.ny.gov or (518) 862-1090 ext. 3336. For contractual questions concerning this solicitation, contact Venice Forbes (designated contact) at VeniceSolicitations@nyserda.ny.gov or (518) 862-1090 ext. 3507.

For Early-Stage Design Support, Proposal Due date: July 12th - [RFP 3928 - Rd3 - D](#)

Contact Information: For technical questions, contact Kristin Graham (designated contact) at KristinNC@nyserda.ny.gov or (518) 862-1090 ext. 3069; or Matt Brown (designated contact) at MatthewNC@nyserda.ny.gov or (518) 862-1090 ext. 3336. For contractual questions concerning this solicitation, contact Venice Forbes (designated contact) at VeniceSolicitations@nyserda.ny.gov or (518) 862-1090 ext. 3507.

No communication with NYSERDA staff intended to influence this procurement is permitted. Contacting anyone other than the designated personnel (either directly by the proposer or indirectly through a lobbyist or other person acting on the proposer's behalf) in an attempt to influence the procurement may disqualify the proposer from consideration.

Attachment A – Data Collection Form

All proposers must submit the Attachment A to this RFP titled Data Collection Form

- Proposers will populate *all required data* in the submitted form
- Review all 3 tabs before filling out the workbook

Application Submission

- [Apply Online](#)
- [Application Instructions and Portal Training Guide \[PDF\]](#)

Associated Documents

- [RFP 3928 - Rd3 \[PDF\]](#)
- [Attachment A - Data Collection Form - RFP 3928 Rd3](#)
- [Attachment B - Sample Agreement - RFP 3928 Rd3 \[PDF\]](#)
- [Disclosure Statement \[PDF\]](#)



Attachment A: Instructions tab

- Follow all instructions throughout the form:
 - **Instructions table:** general instructions for each data entry tab
 - **Key:** instructions related to color coding
 - **Comments:** instructions related individual rows in the data entry tabs
- Enter all data manually. Do not paste any data into the form.

Instructions:	
	Follow all instructions contained in the RFP and this Data Collection Form. NYSERDA may provide additional instructions in writing, at its sole discretion.
General:	Enter all data manually, either by typing directly into the cell or by selecting from the provided drop down lists. To maintain the cell formatting, no data should be pasted into any cell and no cells should be dragged across or down.
Project Information tab:	In the blue cells only, enter the project name and address and the project team contacts, and select Yes or No to indicate which Bonus Categories apply to the project.
Building Data tab:	This tab contains two types of fillable cells. In <u>all</u> blue cells, enter project data. In the green cells, enter project data if it is available at the time of application (if the data requested in the green cells is not available, the green cells can be left blank). No data should be entered in the white unprotected cells.
	If the cell color changes to orange, conditional formatting has been triggered. For further instructions, consult the comment in the corresponding cell in column B by hovering over the red corner.

Attachment A: Instructions tab

Key:	
grey fill	Table Heading, protected cell
blue fill	Fillable cell, project team will populate
<blue fill>	Fillable cell with instructions, project team will populate per the instructions
<Select all that apply>	Fillable cell with instructions, project team will populate per the instructions. To select multiple options from the drop down, expand the drop down, click to select an option, repeat until all applicable options are selected. A comma will separate multiple options in the cell.
green fill	Fillable cell, project team will populate if data is available at the time of Application
orange fill	Conditional formatting has been triggered. See cell with no fill with red corner in the same row to determine next steps.
no fill	Protected cell, do not fill
<no fill>	Protected cell, will auto populate, do not fill
no fill with red corner	Protected cell with comment, do not fill
grey fill with diagonal pattern	Protected cell, do not fill. Change the Certification Pathway selection to make cell fillable

1. Fillable cells:

- **Blue:** required data
- **Green:** populate if data is available
- **Orange:** check for errors, data entered does not meet BOE requirements

2. Protected cells:

- **White:** will auto-populate, do not edit
- **Grey fill with diagonal pattern:** macros enabled

Attachment A: Project Information tab

Project Information				
Project Name				
Street Address				
City, State, Zip				
County				
Role	Firm Name	Contact Name	Contact Email	Design Team Lead? (Yes/No)
Developer				<Select one>
Architect				<Select one>
MEP Engineer				<Select one>
Energy Modeler				<Select one>
Certified Passive House Consultant or Designer (if applicable)				<Select one>
HERS Rater (if applicable)				<Select one>
Construction Manager				<Select one>
General Contractor				<Select one>
Design Team Lead (if not listed above)				<Select one>
<Enter Role>				<Select one>
<Enter Role>				<Select one>
Bonus Categories (Yes/No)				
Project is subject to the commercial section of the Energy Conservation Construction Code of New York State.				<Select one>
Project will be an adaptive re-use or gut rehabilitation project as defined in the Eligibility Section II of this RFP				<Select one>
Project is located in a Clean Energy Community				<Select one>
Project is located in a New York State Department of Environmental Conservation (DEC) potential environmental justice area				<Select one>
Project is located in a Downtown Revitalization Initiative (DRI) area				<Select one>
Project is located in a Disadvantaged Community as defined by New York State				<Select one>
Project is located in a jurisdiction that has committed to adopting New York Stretch Energy Code 2020				<Select one>

Populate all blue cells throughout the form

Select from drop downs

InstructionsProject InformationBuilding Data

Attachment A: Building Data tab

Building Data	
	Application Stage
Above Grade Wall R-value	-
Below Grade Wall R-value	-
Roof R-value	-
Fenestration Assembly U-value (average)	-
Fenestration Assembly SHGC (average)	-
Heating Components	
Primary System Type	<Select one>
Primary System Refrigerant	"Other" was selected above, specify here>

Populate green cells if data is available

Building Data	
	Application Stage
Building Characteristics	
Number of Buildings	-
Number of Stories	-
Total Gross Floor Area (sq. ft.)	100.0
Residential Portion (sq. ft.)	30.0
Interior Parking (sq. ft.)	-
Commercial Space (sq. ft.)	70.0
Number of Dwelling Units	
Studio	

Check orange cells for errors

Attachment A: Building Data tab

Building Data	
	Application Stage
Certification Pathway	ASHRAE

Building Data	
	Application Stage
% Source Energy Savings (ASHRAE projects only)	
Whole Building: excluding renewable generation (%)	0.00%
Whole Building: including renewable generation (%)	0.00%
Residential Portion: excluding renewable generation (%)	0.00%
Residential Portion: including renewable generation (%)	0.00%
ANSI RESNET Modeling Results (ERI projects only)	
Average ERI for all dwelling units: excluding renewable generation	-
Average ERI for all dwelling units: including renewable generation	-
Passive House Modeling Results (PHI projects only)	
Whole Building Treated Floor Area (TFA)	-
Residential Portion TFA	-
Whole Building: excluding renewable generation (kBtu/TFA/yr)	-
Whole Building: including renewable generation (kBtu/TFA/yr)	-
Residential Portion: excluding renewable generation (kBtu/TFA/yr)	-
Residential Portion: including renewable generation (kBtu/TFA/yr)	-
Passive House Modeling Results (Phius projects only)	
Number of Occupants	-
Whole Building: excluding renewable generation (kWh/person/yr)	-
Whole Building: including renewable generation (kWh/person/yr)	-
Residential Portion: excluding renewable generation (kWh/person/yr)	-
Residential Portion: including renewable generation (kWh/person/yr)	-

Select Certification Pathway from drop downs

Enter modeling results or minimum threshold of the Performance Standard

Other Performance Standards will grey out. Change the Certification Pathway to make these cells fillable.

Buildings of Excellence Competition

Early Design Stage Support Request for Proposal RFP 3928-D



The Rise - Imagery Credit: Rendering by Nighthurse Images courtesy of Magnusson Architecture and Planning



Bethany Terraces Senior Housing - Imagery Credit: Paul A. Castrucci, Architects PLLC



Zero Place



NYSERDA

Buildings of Excellence Competition

Early Design Stage Support RFP 3928-D

The Buildings of Excellence Competition aims to accelerate the design, development, construction, and operation of carbon neutral-ready multifamily buildings that:

- ✓ Exhibit quality architectural and urban design and innovation.
- ✓ Demonstrate how to enhance interest in and demand for carbon neutral or carbon neutral-ready.
- ✓ Are capable of withstanding increased risks and are more resilient.
- ✓ Integrate quality non-energy co-benefits that ensure occupant comfort, health, productivity, and safety.
- ✓ Commit to sharing information related to the project's design, costs, and performance.

The Buildings of Excellence Competition offers:

- ✓ Up to \$40 million available over three rounds.
- ✓ Over \$31 Million has been awarded through rounds 1 and 2.



Buildings of Excellence Competition

Early Design Stage Support RFP 3928-D

Design Firm Partners to provide early-stage design support for:

- ✓ New construction and adaptive reuse projects that will achieve carbon neutral-ready performance.
- ✓ Beautiful and functional buildings.
- ✓ Living spaces that are healthy, safe, comfortable, and resilient for their occupants.
- ✓ Projects that will be profitable for the project's developers and owners.

Early Design Stage Funding RFP offers:

- ✓ Up to \$250,000 per project.
- ✓ Support for initiatives focused on reducing energy use, building resiliency, improving occupant living experiences, broad marketing, and public awareness.



Cooper Park Commons - Building 2 – Imagery Credit: Architecture Outfit and Magnusson Architecture and Planning

Buildings of Excellence Competition

Early Design Stage Support RFP 3928-D

Market Development:

- ✓ Build the practice of design firms in the carbon neutral space.
 - ✓ Within a firm, push the design of a singular project and then transition the firm's portfolio to be carbon neutral
 - ✓ Number of firms practicing in the space
- ✓ Reduce barriers and soft costs that design firms may face.
 - ✓ Inject funding at the very early design phase when decisions are being made, to help reduce upfront risks
- ✓ Assist in convincing more developers in buildings more carbon neutral-ready projects.

Additional Focus:

- ✓ Age friendly communities
- ✓ Downtown Revitalization Initiatives
- ✓ Disadvantaged Communities



Linden Boulevard Phase III – Imagery Credit: Magnusson Architecture and Planning

Buildings of Excellence Competition

Early Design Stage Support RFP 3928-D

Design Firm Partner Selection: Looking at the firm and project experience and market transformation capabilities

- ✓ Proposals need to demonstrate how the firm is engaged in the multifamily market:
 - ✓ High impact influence
 - ✓ Scalable
 - ✓ Replicable, ready for broad-based adoption
 - ✓ Marketing and promoting
 - ✓ Education and disseminating information to the market
- ✓ Proposals need to demonstrate experience in projects that exhibit:
 - ✓ Architectural design quality
 - ✓ Carbon Neutral-Ready design
 - ✓ Integrating non-energy co-benefits
 - ✓ Cost effective strategies
 - ✓ Interest and demand



Colonial II Apartments – Imagery Credit: RIDA Architecture PLLC

Buildings of Excellence Competition

Early Design Stage Support RFP 3928-D

Established Design Firm Partners:

- ✓ Can submit up to 4 projects.
- ✓ Use early design stage support funding for:
 - ✓ Research and additional modeling
 - ✓ Applications for third party standards and certifications
 - ✓ Additional economic analysis
 - ✓ Promotion and publicity plan

Project Eligibility:

- ✓ Multifamily building
- ✓ Located in New York State and pays into the System Benefits Charge (SBC)
- ✓ Carbon Neutral-Ready
- ✓ New Construction or Adaptive Reuse
- ✓ Programming, concept, or early schematic design phase
- ✓ An early design stage funded project can also be submitted for the Demonstration Project RFP.



St. Marks Passive House – Imagery Credit: Cycle Architecture LLC and BQE

Buildings of Excellence Competition

Early Design Stage Support RFP 3928-D

Early Design Stage Support Project proposals: Looking at the project design, goals, and further exploration of key components

- ✓ Project proposals need to include project details and demonstrate how design partners will further exploration of:
 - ✓ Architectural design quality
 - ✓ Aesthetics
 - ✓ Functionality
 - ✓ Community and Site Context
 - ✓ Innovation
 - ✓ Carbon Neutral-Ready and Energy Efficiency Attributes
 - ✓ Resilience, Passive and Active Survivability
 - ✓ Quality of Non-energy Co-benefits
 - ✓ Market Transformation Capability
 - ✓ Reduction in Embodied Carbon
 - ✓ Cost Reduction Strategies

Full Proposal Requirements and Format for both the Design Firm Partner and Early Design Stage Funding Project Proposal are in the RFP



425 Grand Concourse – Imagery Credit: Dattner Architects / Synoesis, LLC



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energy
exchange

discuss.

send questions via Zoom Q+A

Moderator

Patrick O'Shei, Director of Market Development, NYSERDA

Speakers

Patrick Fitzgerald, Senior Project Manager, New Construction, NYSERDA

Kristin Graham, Project Manager, NYSERDA

Gwen McLaughlin, Senior Project Manager, TRC Companies, Inc.



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thank you.

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