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
Buildings of Excellence:
Building 150 at Great Oaks Eco Park

ROSENBLUM
BETTER SPACES

NEW YORK STATE OF OPPORTUNITY. Buildings of Excellence Award Winner
BETTER SPACES

- Place
- Practice
- Performance
  - Envelope, Fenestration
  - Systems, Controls
  - Electrification
  - Renewables
PATH TO NZE
BUILDING 150

- Performance
  - Passive House
  - Solar
- Place
  - Infill / Mixed Use
  - Transit Access
- Practice
  - Green Community
Entries are demarcated with brick portals that puncture the glass curtainwall.

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

- Site Entry
- Bldg 100 Entry
- Elevator + Lobby
- Views out / Light in
- Fitness Center
- Community Room
Envelopes

E.C.M.s

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

- Rent Parity
- Shared Benefits
- Best Practices
- Data Sharing
- Replicability
PORTFOLIO (p)EUI TRACKING

MAP Project EUI Compared to Code EUI

Source EUI (kBTU/sf/yr)


Code EUI
Mean Source EUI
MAP Projects
Project (Source EUI)
BOE Winning Project (Source EUI)
BOE Winning Project (Site EUI)

Rheingold Senior
Linden 3
DeKalb Commons
2050 Grand Concourse
Linden 2
The Rise
Cooper Park

Code Baseline Source: Bright Power
CURRENT CODE

NON-AIRTIGHT ENCLOSURE + EXHAUST ONLY VENTILATION = "FRESH AIR" FROM LEAKY WALLS!

IMAGE SOURCE: BUILDING SCIENCE CORP
AIRTIGHTNESS + BALANCED VENTILATION

Air-tight (and wind tight) Layer: 0.05 cfm^60/ft^2

Factors affected by air|wind tightness:

- Insulation performance
- Moisture performance
- Heat loss/gains through leaks
- Comfort, no drafts!

SOURCE: PHIUS

SOURCE: BEEX BETTER VENTILATION PLAYBOOK
PRINCIPLES OF THE NEW NORMAL

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

- Continuous, Robust Thermal Control
  - Most basic level of energy efficiency. Hold onto the heat you've paid for.

- Air Tightness
  - Next level of thermal control. Necessary to truly ensure energy efficiency.

- Energy Recovery Ventilators
  - Fresh air is critical for air tight buildings. Without this measure owners risk mold and resident respiratory issues. Added benefit: recovers additional energy for use.

- Efficient Electrification and Loads
  - If building an air tight structure and using technologies like ERVs, electrification can be cost effective for developers and healthier for residents.

- Healthy Materials
  - There are good choices and bad ones for materials. Everything from paint and caulk to flooring and countered tops can impact the health of residents and ecosystems.

Vs. CODE MIN

- Without Thermal Control
  - Heat escapes through exterior walls.

- Without Air Sealing
  - Conditioned air escapes through exterior and water/moisture infiltrates causing damage (durability issues) and mold growth (health issues).

- Without Fresh Air Supply
  - Stale/dry air pulled from corridors, other apartments and through exterior walls. "Air change" not achieved. Unhealthy levels of CO2 and poor humidity control.

- Natural Gas
  - Gas combustion produces a variety of pollutants which can lead to and worsen respiratory diseases.

- Unhealthy Materials
  - Materials can leach or off-gas endocrine and hormone disrupting chemicals. They can damage lungs, hearts, nervous and immune systems and increase embodied carbon.
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 kgCO2/sf
LL97- 2030 limit: 4.07 kgCO2/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)

<table>
<thead>
<tr>
<th>Category</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Avg NYC Multifamily Bldg:</td>
<td>112 kBtu/sf/yr</td>
</tr>
<tr>
<td>Code Building (2016):</td>
<td>99 kBtu/sf/yr</td>
</tr>
<tr>
<td>PHIUS Primary Energy:</td>
<td>Approx 34 kBu/sf/yr</td>
</tr>
<tr>
<td>PHI Primary Energy:</td>
<td>Approx 40 kBu/sf/yr</td>
</tr>
<tr>
<td>LL97- 2024 limit:</td>
<td>6.75 kgCO2/sf</td>
</tr>
<tr>
<td>LL97- 2030 limit:</td>
<td>4.07 kgCO2/sf</td>
</tr>
</tbody>
</table>

**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)
REFRIGERANT MANAGEMENT

HORIZONTAL DISTRIBUTION
(ex. heat recovery)

VERTICAL DISTRIBUTION

BAU vs Optimized K kgCO₂e

1,975.4  619.2

6,700 LF

2,100 LF
**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)
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: 65.61 kBtu/sf/yr
1.69 kgCO2/sf
SITE EUI: 23.43 kBtu/sf

Certification: EGC
(All Electric)
ELECTRIFICATION – DOMESTIC HOT WATER STRATEGIES

* Source: American Council for an Energy Efficient Economy
ELECTRIFICATION – DOMESTIC HOT WATER STRATEGIES

* Source: American Council for an Energy Efficient Economy
**SOURCE ENERGY USE INTENSITY (EUI)**
(w/o renewables)

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Avg NYC Multifamily Bldg</td>
<td>112 kBtu/sf/yr</td>
</tr>
<tr>
<td>Code Building (2020)</td>
<td>88.3 kBtu/sf/yr</td>
</tr>
<tr>
<td>PHIUS Primary Energy</td>
<td>Approx 34 kBtu/sf/yr</td>
</tr>
<tr>
<td>PHI Primary Energy</td>
<td>Approx 40 kBtu/sf/yr</td>
</tr>
<tr>
<td>LL97- 2024 limit</td>
<td>6.75 kgCO2/sf</td>
</tr>
<tr>
<td>LL97- 2030 limit</td>
<td>4.07 kgCO2/sf</td>
</tr>
<tr>
<td>Building As Proposed</td>
<td>29.66 kBtu/sf/yr</td>
</tr>
<tr>
<td></td>
<td>0.92 kgCO2/sf</td>
</tr>
<tr>
<td>SITE EUI:</td>
<td>10.59 kBtu/sf</td>
</tr>
</tbody>
</table>

**Certification:**
PHI
(All Electric)
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 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
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
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.
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

<table>
<thead>
<tr>
<th>Category</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quality of Architectural Design</td>
<td>20</td>
</tr>
<tr>
<td>Carbon Neutral Attributes and Energy Efficiency</td>
<td>20</td>
</tr>
<tr>
<td>Reduction in Embodied Carbon</td>
<td>10</td>
</tr>
<tr>
<td>Cost Reduction Strategies and Performance Validation</td>
<td>20</td>
</tr>
<tr>
<td>Resilience, Passive and Active Survivability</td>
<td>15</td>
</tr>
<tr>
<td>Quality of Co-benefits</td>
<td>15</td>
</tr>
<tr>
<td>Bonus Categories</td>
<td>The project is subject to the commercial section of the Energy Conservation Construction Code of New York State.</td>
</tr>
<tr>
<td>------------------</td>
<td>-------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td></td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>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.</td>
</tr>
</tbody>
</table>
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) ≤ 0.91 x 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 14\textsuperscript{th} - 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 12\textsuperscript{th} - 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.

<table>
<thead>
<tr>
<th>Instructions:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General:</strong></td>
</tr>
<tr>
<td>Follow all instructions contained in the RFP and this Data Collection Form. NYSERDA may provide additional instructions in writing, at its sole discretion. 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.</td>
</tr>
<tr>
<td><strong>Project Information tab:</strong></td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td><strong>Building Data tab:</strong></td>
</tr>
<tr>
<td>This tab contains two types of fillable cells. In all 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.</td>
</tr>
<tr>
<td>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.</td>
</tr>
</tbody>
</table>
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

Populate all blue cells throughout the form

Select from drop downs

<table>
<thead>
<tr>
<th>Role</th>
<th>Firm Name</th>
<th>Contact Name</th>
<th>Contact Email</th>
<th>Design Team Lead? (Yes/No)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Developer</td>
<td></td>
<td></td>
<td></td>
<td>&lt;Select one&gt;</td>
</tr>
<tr>
<td>Architect</td>
<td></td>
<td></td>
<td></td>
<td>&lt;Select one&gt;</td>
</tr>
<tr>
<td>MEP Engineer</td>
<td></td>
<td></td>
<td></td>
<td>&lt;Select one&gt;</td>
</tr>
<tr>
<td>Energy Modeler</td>
<td></td>
<td></td>
<td></td>
<td>&lt;Select one&gt;</td>
</tr>
<tr>
<td>Certified Passive House Consultant or Designer (if applicable)</td>
<td></td>
<td></td>
<td></td>
<td>&lt;Select one&gt;</td>
</tr>
<tr>
<td>HERS Rater (if applicable)</td>
<td></td>
<td></td>
<td></td>
<td>&lt;Select one&gt;</td>
</tr>
<tr>
<td>Construction Manager</td>
<td></td>
<td></td>
<td></td>
<td>&lt;Select one&gt;</td>
</tr>
<tr>
<td>General Contractor</td>
<td></td>
<td></td>
<td></td>
<td>&lt;Select one&gt;</td>
</tr>
<tr>
<td>Design Team Lead (if not listed above)</td>
<td></td>
<td></td>
<td></td>
<td>&lt;Select one&gt;</td>
</tr>
<tr>
<td>&lt;Enter Role&gt;</td>
<td></td>
<td></td>
<td></td>
<td>&lt;Select one&gt;</td>
</tr>
<tr>
<td>&lt;Enter Role&gt;</td>
<td></td>
<td></td>
<td></td>
<td>&lt;Select one&gt;</td>
</tr>
</tbody>
</table>

**Bonus Categories (Yes/No)**

- Project is subject to the commercial section of the Energy Conservation Construction Code of New York State
- Project will be an adaptive re-use or gut rehabilitation project as defined in the Eligibility Section II of this RFP
- Project is located in a Clean Energy Community
- Project is located in a New York State Department of Environmental Conservation (DEC) potential environmental justice area
- Project is located in a Downtown Revitalization Initiative (DRI) area
- Project is located in a Disadvantaged Community as defined by New York State
- Project is located in a jurisdiction that has committed to adopting New York Stretch Energy Code 2020

---

**Instructions**:  
**Project Information**:  
**Building Data**:  

---
Attachment A: Building Data tab

**Building Data**

<table>
<thead>
<tr>
<th>Building Data</th>
<th>Application Stage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Above Grade Wall R-value</td>
<td>Not required at application</td>
</tr>
<tr>
<td>Below Grade Wall R-value</td>
<td>-</td>
</tr>
<tr>
<td>Roof R-value</td>
<td>-</td>
</tr>
<tr>
<td>Fenestration Assembly U-value (average)</td>
<td>-</td>
</tr>
<tr>
<td>Fenestration Assembly SHGC (average)</td>
<td>-</td>
</tr>
</tbody>
</table>

**Heating Components**

- Primary System Type
- Primary System Refrigerant

**Building Data**

<table>
<thead>
<tr>
<th>Building Characteristics</th>
<th>Application Stage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Buildings</td>
<td>-</td>
</tr>
<tr>
<td>Number of Stories</td>
<td>-</td>
</tr>
<tr>
<td>Total Gross Floor Area (sq. ft.)</td>
<td>100.0</td>
</tr>
<tr>
<td>Residential Portion (sq. ft.)</td>
<td>30.0</td>
</tr>
<tr>
<td>Interior Parking (sq. ft.)</td>
<td>-</td>
</tr>
<tr>
<td>Commercial Space (sq. ft.)</td>
<td>70.0</td>
</tr>
</tbody>
</table>

- Populate green cells if data is available
- Check orange cells for errors
## Attachment A: Building Data tab

<table>
<thead>
<tr>
<th>Building Data</th>
<th>Application Stage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Certification Pathway</td>
<td>ASHRAE</td>
</tr>
</tbody>
</table>

### Building Data

<table>
<thead>
<tr>
<th>% Source Energy Savings (ASHRAE projects only)</th>
<th>Application Stage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Whole Building: excluding renewable generation (%)</td>
<td>0.00%</td>
</tr>
<tr>
<td>Whole Building: including renewable generation (%)</td>
<td>0.00%</td>
</tr>
<tr>
<td>Residential Portion: excluding renewable generation (%)</td>
<td>0.00%</td>
</tr>
<tr>
<td>Residential Portion: including renewable generation (%)</td>
<td>0.00%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ANSI RESNET Modeling Results (ERI projects only)</th>
<th>Application Stage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average ERI for all dwelling units: excluding renewable generation</td>
<td></td>
</tr>
<tr>
<td>Average ERI for all dwelling units: including renewable generation</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Passive House Modeling Results (PHI projects only)</th>
<th>Application Stage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Whole Building Treated Floor Area (TFA)</td>
<td></td>
</tr>
<tr>
<td>Residential Portion TFA</td>
<td></td>
</tr>
<tr>
<td>Whole Building: excluding renewable generation (kBtu/TFA/yr)</td>
<td></td>
</tr>
<tr>
<td>Whole Building: including renewable generation (kBtu/TFA/yr)</td>
<td></td>
</tr>
<tr>
<td>Residential Portion: excluding renewable generation (kBtu/TFA/yr)</td>
<td></td>
</tr>
<tr>
<td>Residential Portion: including renewable generation (kBtu/TFA/yr)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Passive House Modeling Results (Philus projects only)</th>
<th>Application Stage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Occupants</td>
<td></td>
</tr>
<tr>
<td>Whole Building: excluding renewable generation (kWh/person/yr)</td>
<td></td>
</tr>
<tr>
<td>Whole Building: including renewable generation (kWh/person/yr)</td>
<td></td>
</tr>
<tr>
<td>Residential Portion: excluding renewable generation (kWh/person/yr)</td>
<td></td>
</tr>
<tr>
<td>Residential Portion: including renewable generation (kWh/person/yr)</td>
<td></td>
</tr>
</tbody>
</table>

- 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

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

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

Zero Place
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.
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
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
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
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.
thank you.