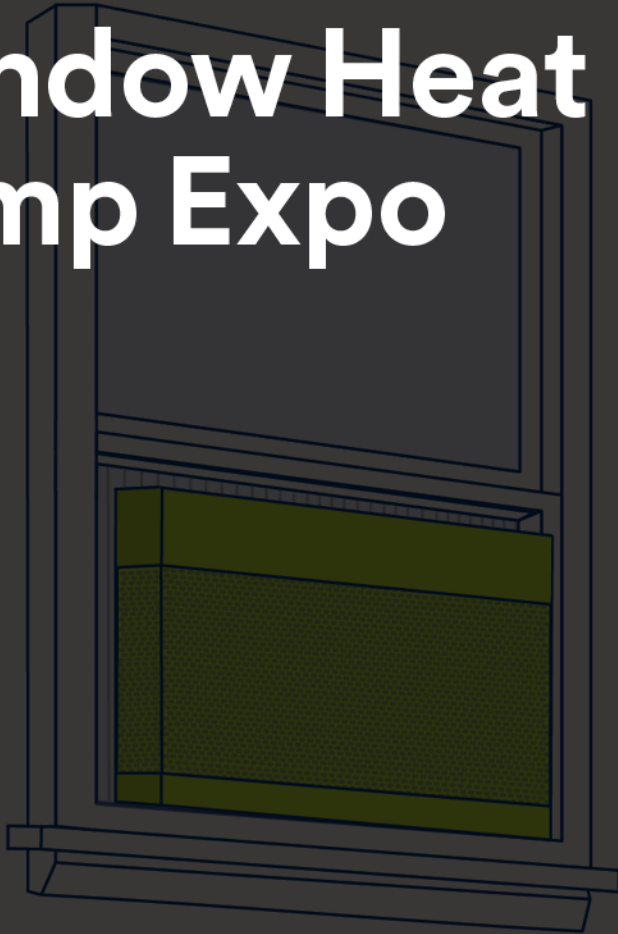


Window Heat Pump Expo



**be
ex**

building
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exchange



SUPPORTED BY

NYSERDA
New York State Energy Research
and Development Authority

Join Building Energy Exchange for an engaging Window Heat Pump Expo, sponsored by NYSERDA and in partnership with Steven Winter Associates (SWA), The Council of New York Cooperatives & Condominiums (CNYC), the Real Estate Board of New York (REBNY).

Ideal for multifamily building owners, condo and co-op owners, and residential real estate partners, this Expo will bring together heat pump manufacturers and industry stakeholders to spotlight current packaged window heat pump products.

speakers:

Evie Bauman, Program Manager, Market Scaling, NYSERDA

Cody Glavey-Weiss, Project Manager, Advanced Efficiency Solutions, NYSERDA

Elihu Dietz, Senior Building Systems Consultant, Steven Winter Associates

Jordan Bonomo, Senior Project Manager, New York City Housing Authority

Laura Humphrey, Senior Director of Energy and Sustainability, L+M Development Partners

31 Chambers Street
New York, NY

June 17, 2026
1:00 to 7:00pm

Clean Heat for All

Room Heat Pump Program

Window Heat Pump Expo

June 17th, 2026



NEW
YORK
STATE

NYSERDA

New York's heating and cooling needs will be very different in 2040

The need for air conditioning will increase over the next 15 years:

- NY climate will be hotter and more humid
- Landlords will be required to provide air conditioning to their tenants
- New learning will increase awareness of the importance of air quality

With this need comes a market opportunity for room heat pumps

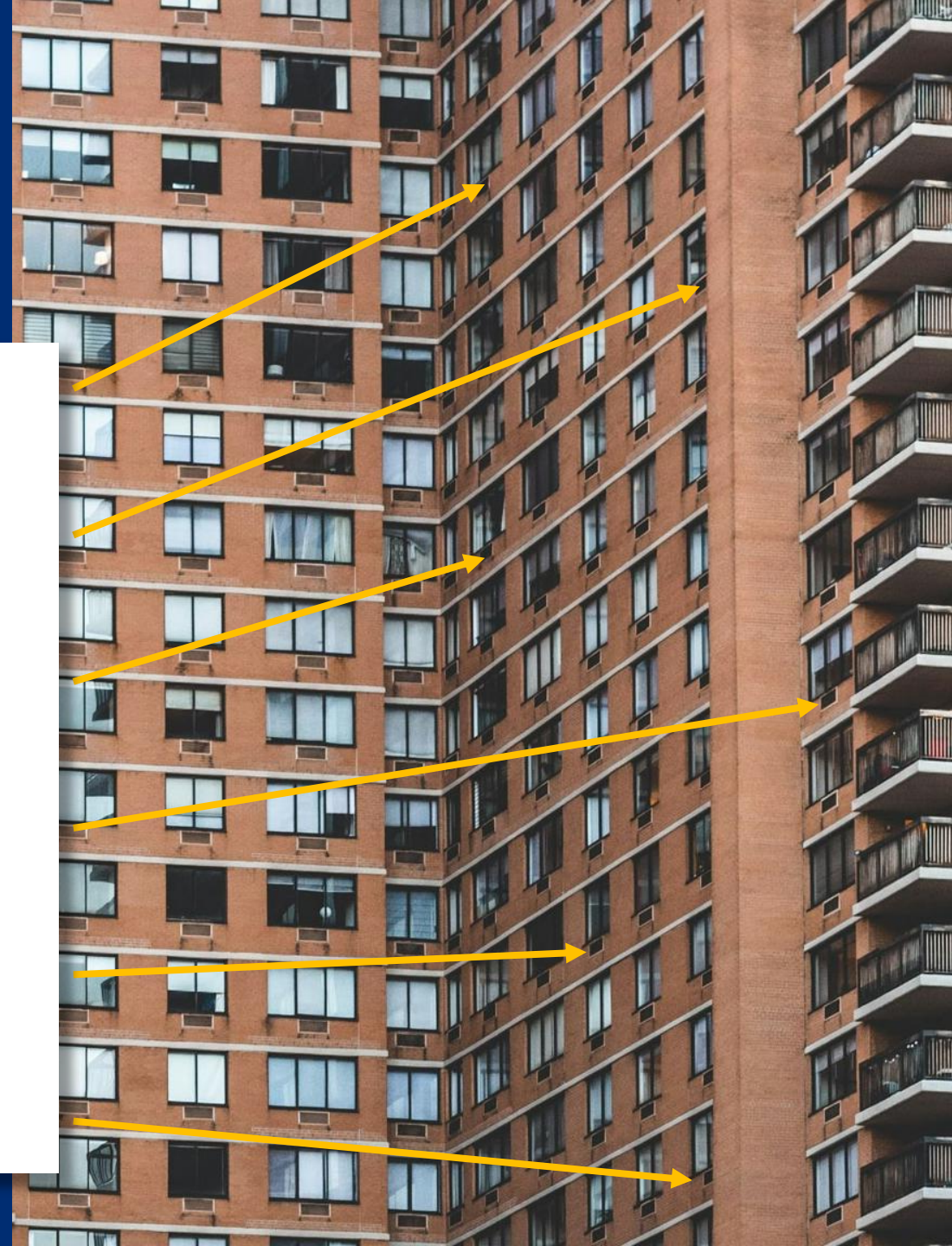


Why Wait?

NYSERDA is working with manufacturers to build the superior products that meet the performance and feature needs of the market, now.

- High-efficiency heating and cooling
- Do not require major electrical upgrades
- Improve indoor air quality
- Quiet operation

..now we're working to get them into as many New Yorker's homes as possible - as quickly as possible.



What is the Room Heat Pump Program?

Cold climate, unitary packaged heat pumps that can be installed in less than 3 hours, and to the greatest extent possible, don't require electrical upgrades.



\$10 Million Is Now Available for Field Installations of Window Heat Pumps in Multifamily Buildings

\$7.5 Million Awarded to Five Manufacturers To Accelerate Development and Demonstration of Through-Wall Heat Pumps

Plug-and-Play Solutions To Increase Energy Efficiency, Reduce Energy Consumption and Save New Yorkers Money

Categories of Room Heat Pumps:

Window Heat Pumps (120V)



Standard Size PTHPs



Hydronic Heat PTHPs



Through-the-Wall HPs



The Original Clean Heat for All Challenge



The Clean Heat for All: Room Heat Pump Program builds off the success of the Clean Heat for All Challenge.

This challenge was a partnership between the **New York City Housing Authority** (NYCHA), the New York Power Authority (NYPA) and **NYSERDA**.

The packaged window heat pumps developed for the challenge at NYCHA's Woodside apartments delivered over **75%** heating energy savings per square foot in the first winter heating season.

The success of the NYCHA demonstration helped to validate the potential for decentralized, cold-climate heat pump solutions and inspired the PTHP Program.

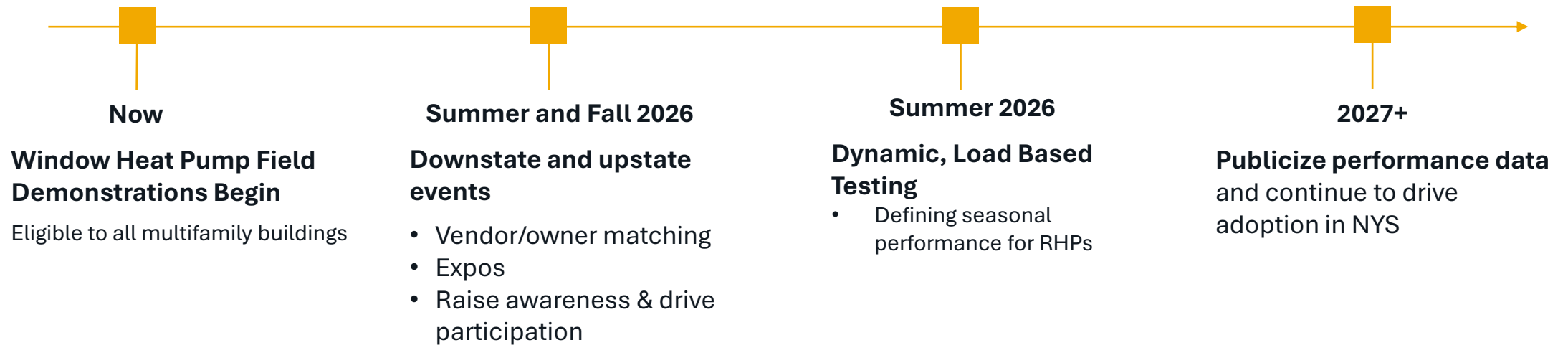


**NEW YORK CITY
HOUSING AUTHORITY**



**NEW YORK
STATE OF
OPPORTUNITY.** | **NY Power
Authority**

What's on the Horizon?



Program Specifics

Incentives

- \$2,250/PWHP for LMI demonstration sites
 - \$1,500/PHWHP for market rate demonstration sites
-

Demonstration Site Eligibility

- NYS Multifamily buildings (5+ dwelling units)
 - Minimum of 10 PWHPs installed per project
 - LMI Projects must not result in tenant cost-shifting
-

Performance Monitoring

- Selected sites
-

Timeline

- Accepting project applications now! **Closes June 30th, 2027**
-

Application

- Online application



Application Process

1. Submit Phase II Online Application



3. Implementation



5. Performance Monitoring



2. Contract Execution



4. Payment



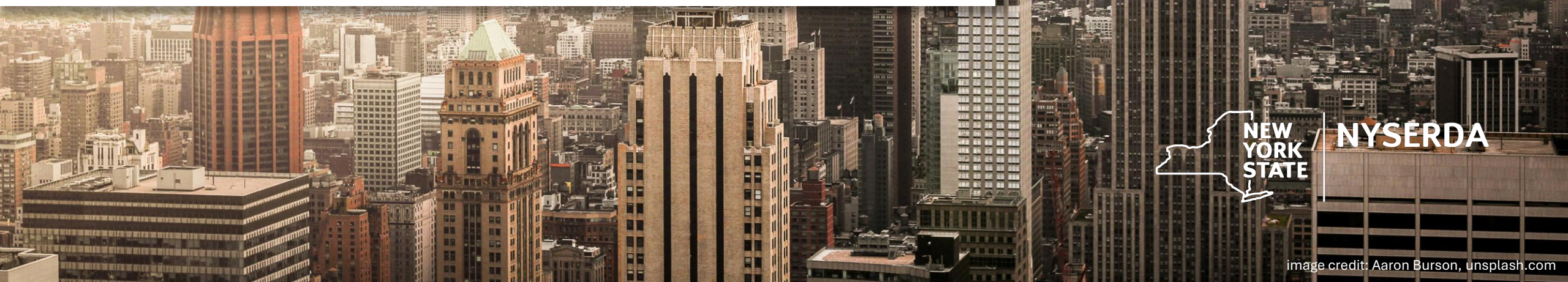
100% of INCENTIVE PAID

Contact us

RoomHeatPumps@nyserda.ny.gov



www.nyserda.ny.gov/All-Programs/Room-Heat-Pump-Program



NEW
YORK
STATE

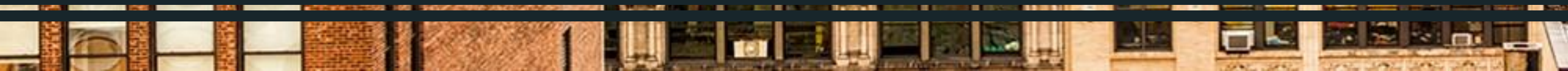
NYSERDA

image credit: Aaron Burson, unsplash.com



Scaling Low-Disruption Electrification with PWHPs

Elihu Dietz, Steven Winter Associates, NYSERDA Program Support





Packaged Window Heat Pumps





Why are PWHP promising?

Simple installation



Tenant Support





Which buildings are the best fit?

Physical Characteristics

- Double hung windows
- Sufficient electrical capacity in apartment
- Outlets near windows



Strategic Characteristics

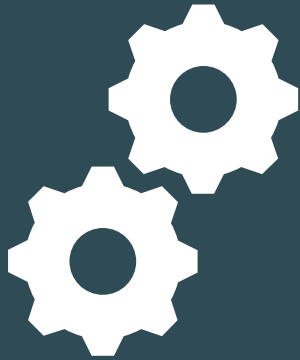
- Existing system needs to be replaced
- Preference for phased electrification
- Willingness to embrace hybrid system





SWA's Role: Pilot to Scale

De-Risk Projects



Technical Reviews
of Applications



Develop Tools,
Guidelines

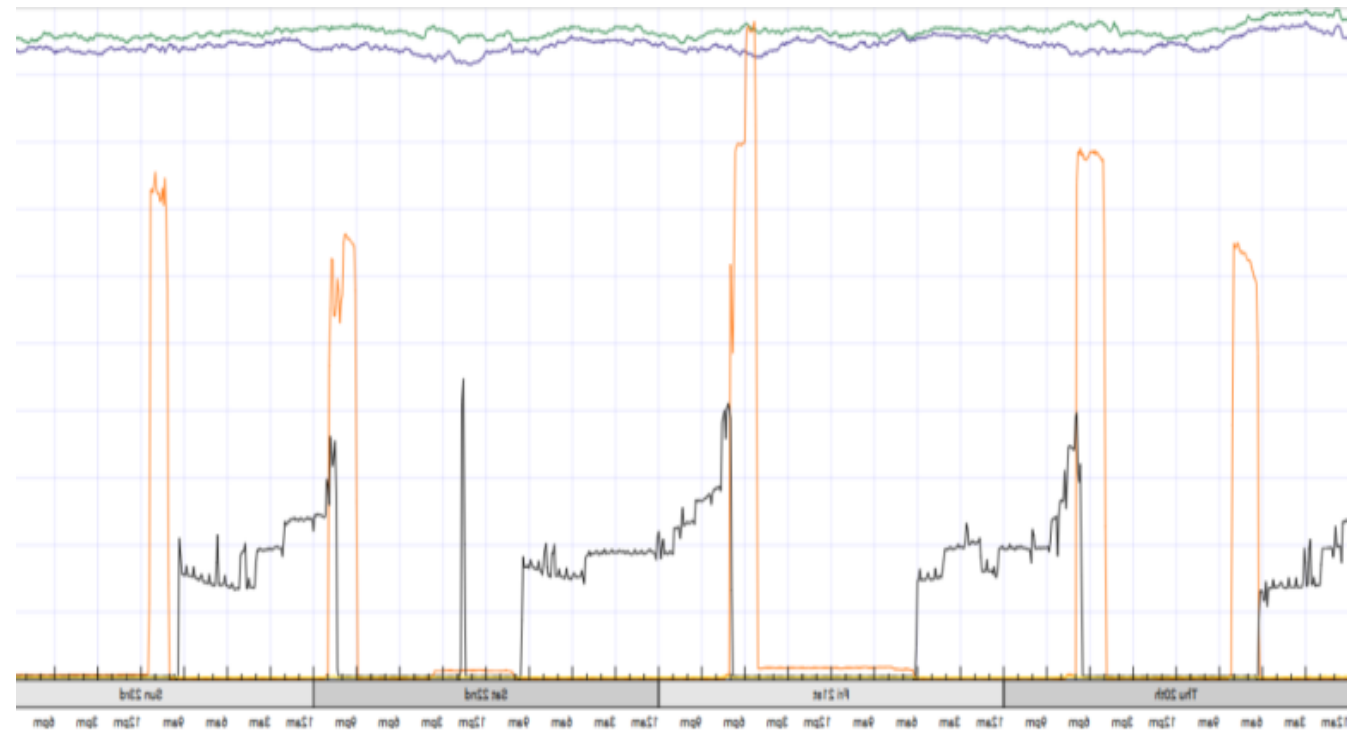


Market Feedback

What works



- Real-world performance data
- Stakeholder feedback:
 - Tenants
 - Installers
 - Building owners





Considerations

Considerations



- Central system impacts
- Cost allocation for heating
 - Owner pays vs. Tenant pays
- Apartment layouts



Thank you

Elihu Dietz

edietz@swinter.com

swinter.com

Manhattan

Queens

NYCHA Clean Heat for All

Window Heat Pump Expo

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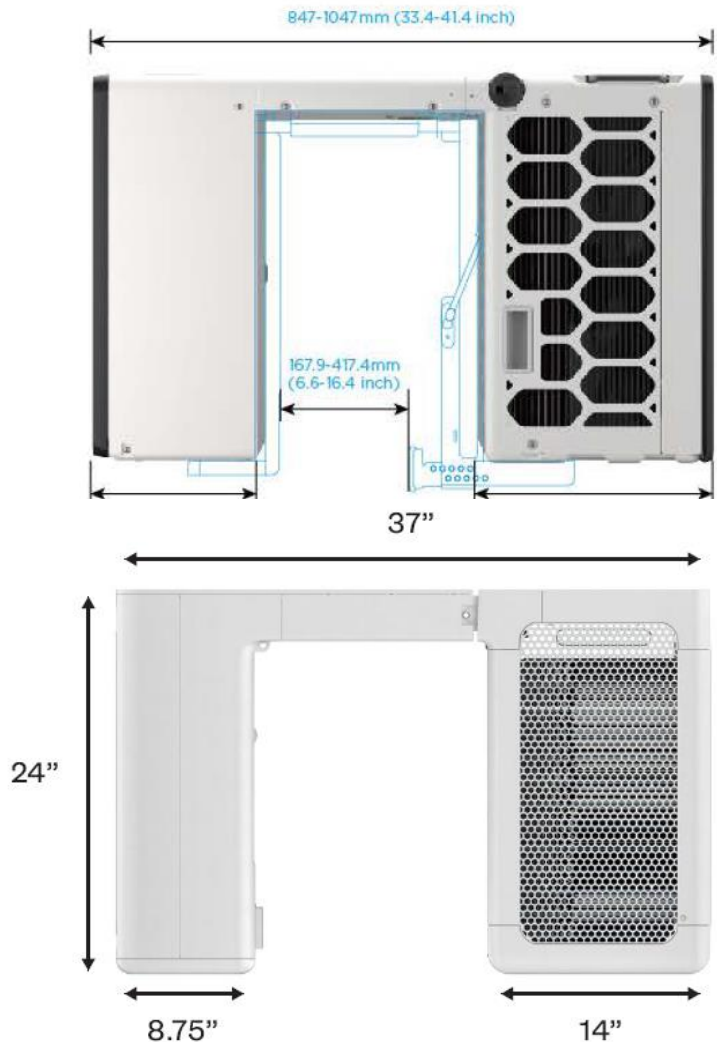
NEW YORK CITY
**HOUSING
AUTHORITY**



NYCHA/NYPA/NYSERDA issued RFP for a through-window cold climate heat pump in 2021

RFP Spec Requirements

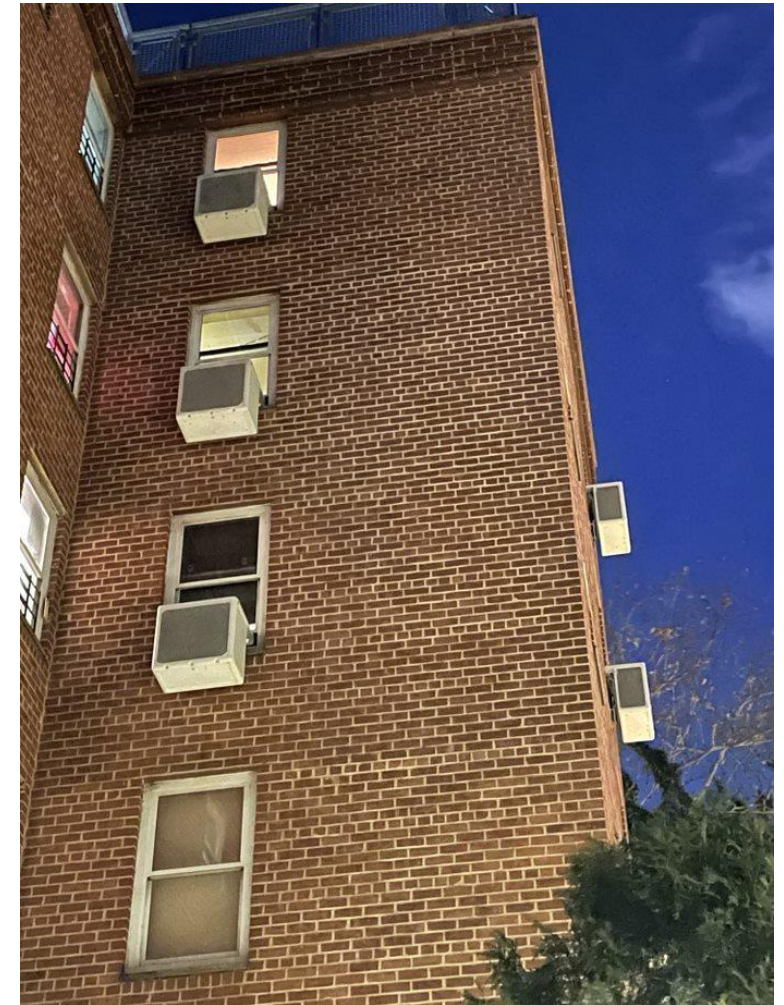
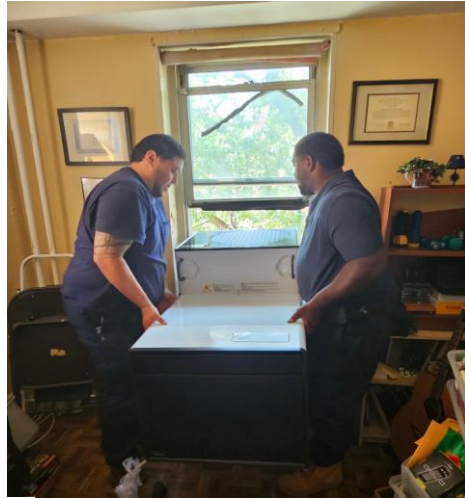
- Run on 120V single phase on 15A circuit
- Minimum efficiency of 1.87 COP @ 17°F and 9,000 btu heating
- Operate down to 0°F or lower
- Internal condensate disposal mechanism, i.e. no plumbing
- Can be installed by unskilled labor in under 2 hours



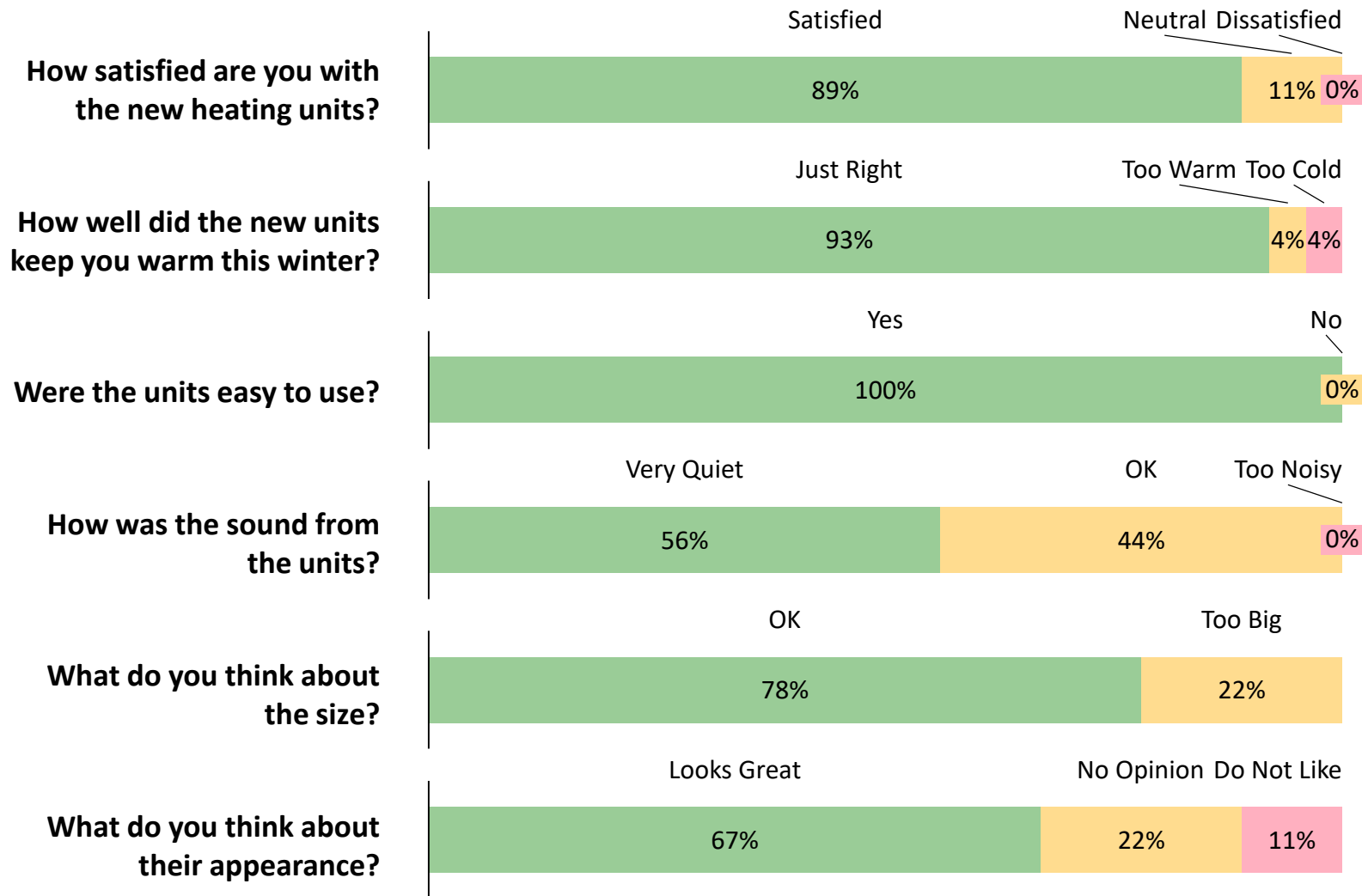
Metric	Rated Value
Power supply	115V, 1Ph, 60Hz
Rated Cooling Capacity	9,150 btu/hr
Rated EER/CEER	13.0/17.0
Heating 47°F (COP)	9,000 (3.92)
Heating 17°F (COP)	9,000 (2.44)
Heating 5°F (COP)	8,100 (2.03)
Heating -13°F (COP)	6,600 (1.32)
Heating -22°F (COP)	5,000 (1.19)
Refrigerant type	R-32
Indoor noise level	30 – 50 dB(A)

Note: Values shown are average of the two manufacturers

Pilot installation completed by NYCHA maintenance staff with 24 apartments completed in 8 days (excluding outlets)



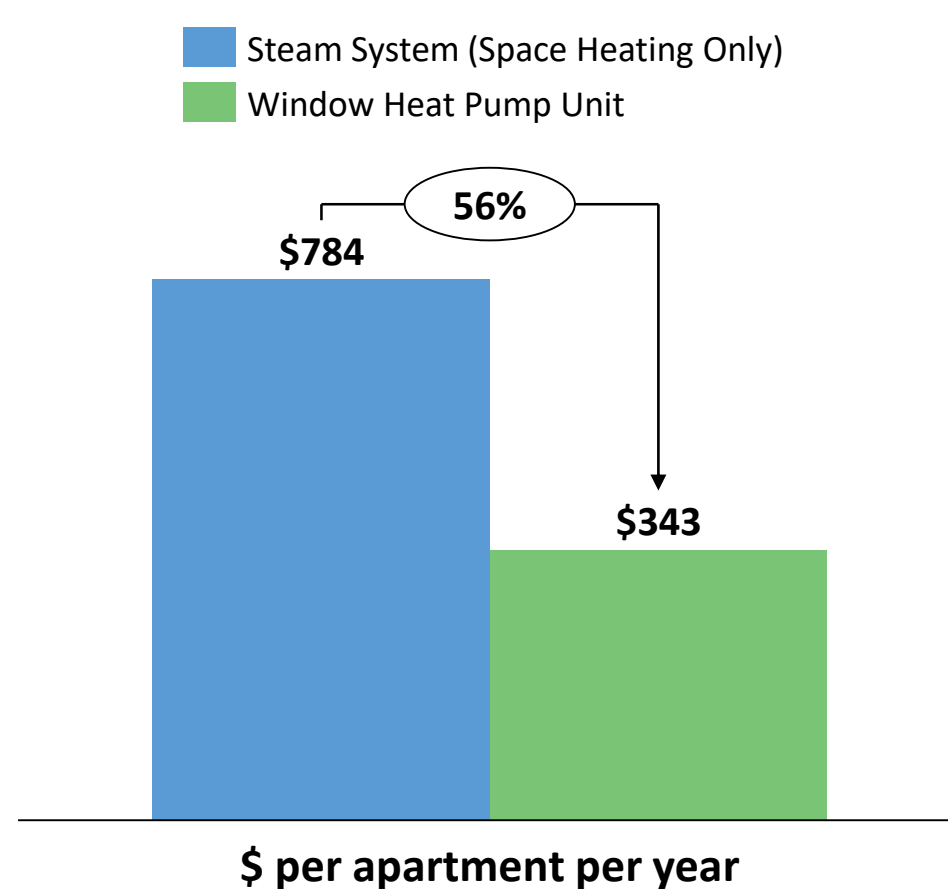
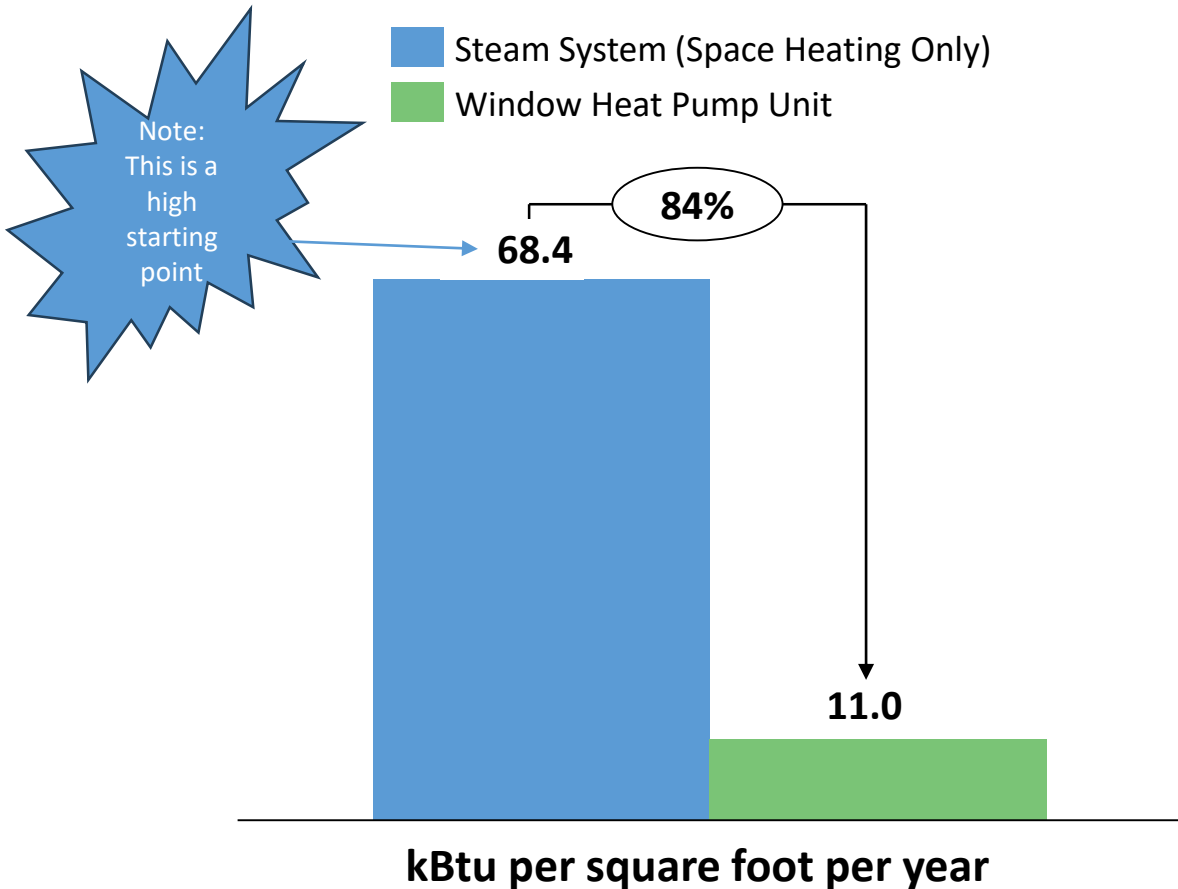
NYCHA held early resident engagement meetings and performed surveys throughout the pilot period



Pilot results: 84% decrease in site energy use and 56% decrease in energy costs

2.9 btu/sf/HDD

~1,000 kWh/hp/year



Average therms per apt = 874
 Average kWh per 2BR apartment for heat = 2,285
 Averages over the 2023 – 2025

To get to fully electric buildings, NYCHA is including additional measures

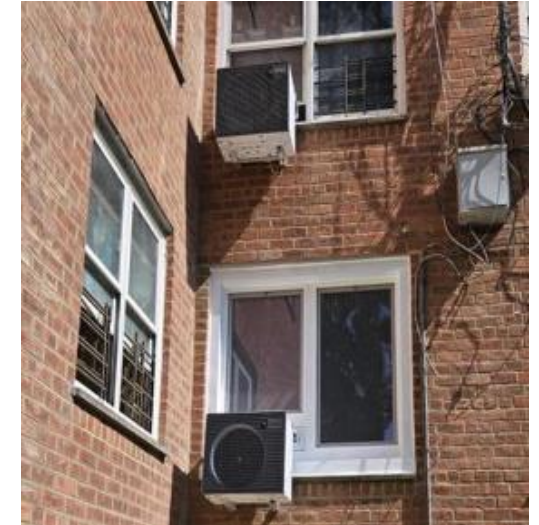
Packaged heat pump*

- Install new dedicated 120V 15A outlet in each bedroom and living room. Standard AC outlet.
- Remove each bedroom and living room radiator and cap at riser.
- Install new heat pump through custom window sleeve in each bedroom and living room.



Windows

- Installation of Intus triple pane uPVC casement windows with custom gasketed sleeves for new heat pumps further improves performance of heat pump (U Value of 0.21).

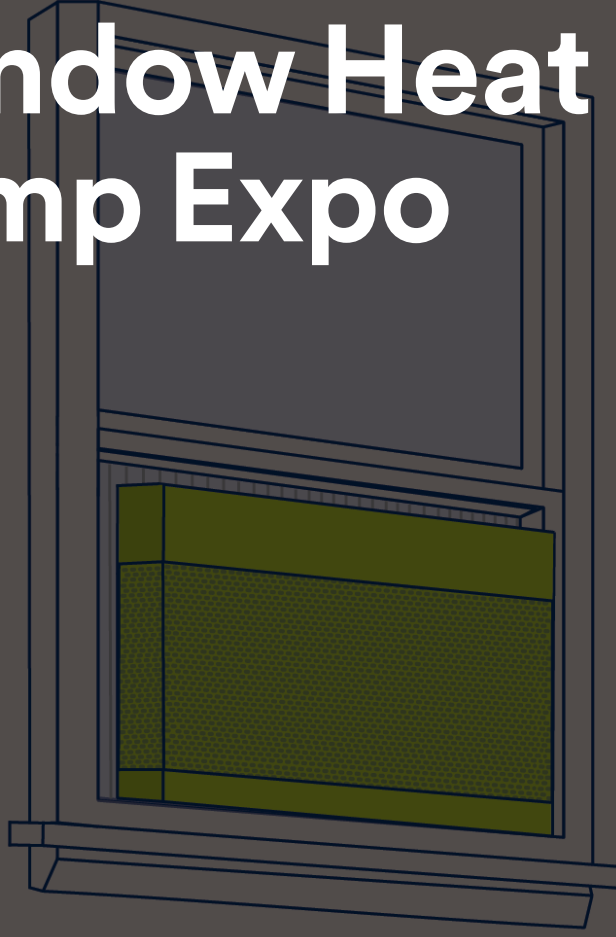


DHW Electrification

- Installation of pre-fab domestic hot water pods for electrification.
- With DHW electrification, building is fully electrified aside from cooking gas .



Window Heat Pump Expo



moderator:

Katie Schwamb, Managing Director, Building Energy Exchange

panelists:

Elihu Dietz, Senior Building Systems Consultant, Steven Winter Associates

Jordan Bonomo, Senior Project Manager, New York City Housing Authority

Laura Humphrey, Senior Director of Energy and Sustainability, L+M Development Partners

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New York State Energy Research
and Development Authority

31 Chambers Street
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June 17, 2026
1:00 to 7:00pm

Upcoming Events

This summer, join the global social media campaign by turning off your lights for one hour to reduce energy use and raise awareness of energy efficiency!

Register your office today at daylighthour.org!



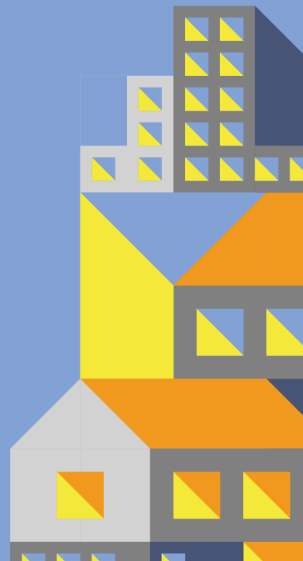
Daylight Hour

lights off, daylight on!

June 24, 2026

12 - 1 pm

(local time)



Upcoming Events

WISE x DLH: Summer Solstice Celebration

June 24th, 2026 | 5:30 pm to 7:30 pm

Join BE-Ex's Women in Sustainability & Energy (WISE) Series next week for our upcoming summer solstice event!

Bring friends or join a team for our lighting-themed trivia and featured summer cocktail.

