NYS Climate Leadership and Community Protection Act (CLCPA)

New York's Nation-Leading Climate Targets

85% Reduction in GHG Emissions by 2050

100% Zero-emission Electricity by 2040

70% Renewable Energy by 2030

9,000 MW of Offshore Wind by 2035

3,000 MW of Energy Storage by 2030

6,000 MW of Solar by 2025

22 Million Tons of Carbon Reduction through Energy Efficiency and Electrification

NEW YORK'S CLIMATE LEADERSHIP and COMMUNITY PROTECTION ACT

New York's landmark new law, the Climate Leadership and Community Protection Act (Climate Act), is demonstrating to the nation how to confront the greatest threat facing life as we know it a rapidly changing climate. Signed into law in July 2019, the Climate Act will empower every New Yorker to fight climate change and provide the opportunity to improve all our daily lives.

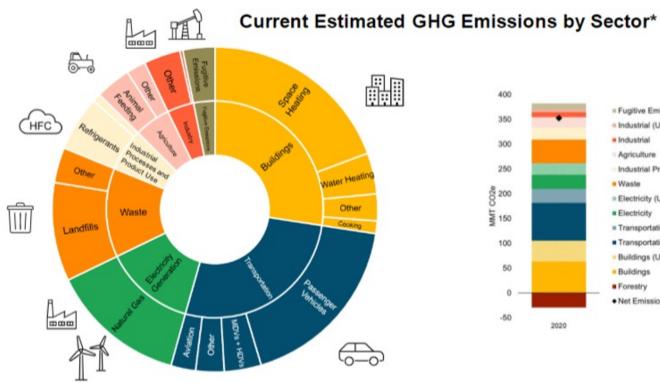
This is our planet. This is our time to fight for it.

By 2040: achieve 100% zero-emission electricity | By 2050: reduce emissions at least 85% below 1990 levels

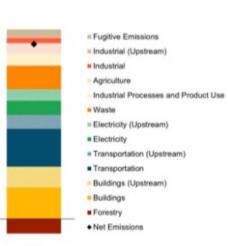
Achieving the ambitious goals of this law will mean transforming the way we generate and use electricity, the way we heat our homes, and the way we get to school and work. New Yorkers will tackle climate change and create new opportunities for our children and grandchildren. Through thoughtful planning, this effort will breathe life into our economy with well-paying clean energy jobs, new industries and business opportunities, and improved health and quality of life for New York families and communities. New York's course on climate action also means spending less on fossil fuels and keeping our energy dollars in the local economy, and in the pockets of hardworking New Yorkers.



Climate Leadership and Community Protection Act (CLCPA)

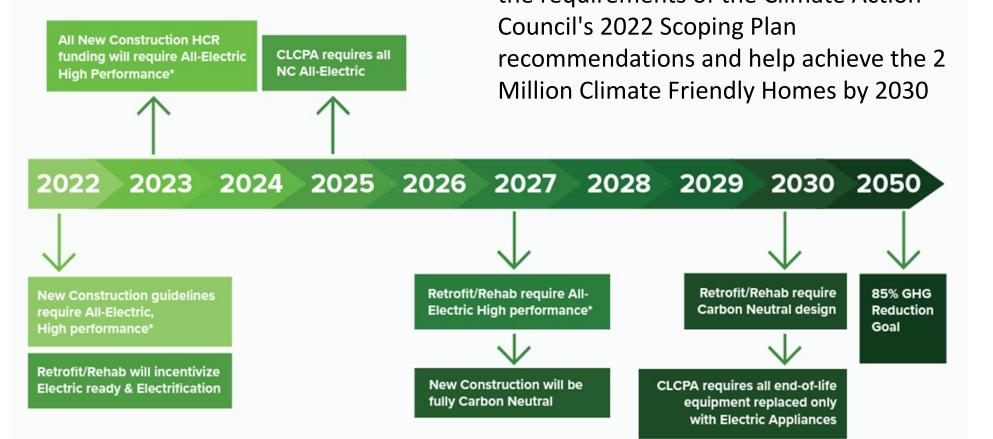


*Draft 2020 results in line with DEC CLCPA accounting including upstream emission factors, 20-year GWP, and estimates from NY PATHWAYS





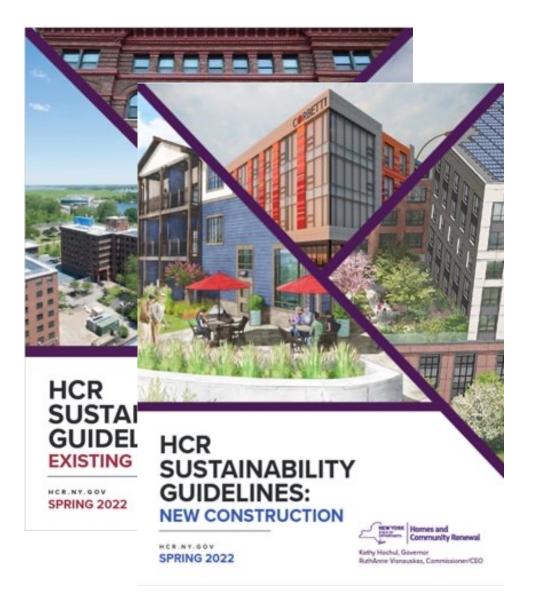
HCR Sustainability Goals



Housing Alignment CLCPA

Ensure HCR's housing standards meet the requirements of the Climate Action

Sustainability Unit: HCR Resources



Clean Energy Initiative (CEI): Provides additional funding to LIHTC projects reaching Stretch goals aligned with decarbonization & efficiency measures. CEI is funded through a partnership and commitment of \$100M from NYSERDA

Climate Friendly Homes Fund (CFHF): Funded through the HTFC capital budget at HCR, this program will provide \$250M to electrify 10,000 units of small multifamily programs. The program will be administered by the Community Preservation Corporation (CPC) and their community and CDFI partners.

Weatherization Assistance Program (WAP): Provides weatherization services to LMI households through a network of non-profit community action agencies. Funded through DOE and LIHEAP programs annually about \$60M serving around 8,000 units

Technical Support: The Sustainability Unit provides support to HCR's F&D and SAMU teams for IPNA review, Sustainability Guidelines compliance, and other decarbonization scopes of work

Homes and

Community Renewa

Overview NYS CEI: Current Available Funding

Phase	New Construction	Adaptive Reuse	Existing Buildings
Funding	\$5,500/unit Max Project awards: \$1.375M NC Boost: \$7,500/Unit, Max Project awards: \$1.5M	Adaptive Reuse: \$12,500/unit Max Project Award: \$2.5M*	If all three eligible scopes are selected: \$25,000/unit Max Project Award: \$5.625M*
Eligible Projects	Meets ONE of the Stretch goals in Section 1 of the Sustainability Guidelines (LEED BD+C Gold AND LEED Zero, PHI/PHIUS Certification, OR EGC+)	Meets one of the stretch goals in Section 1 of the Sustainability Guidelines (LEED BD+C Gold AND LEED Zero, PHI/PHIUS Certification, OR EGC+)	Selects at least one of the eligible scope item: 1. Electrification of space heating 2. Electrification of DHW systems 3. Building Envelope & ventilation
Notes	 Boost Eligibility: 1. <60 units AND >4 stories 2. Project team has not certified a passive at time of application 3. >20 stories above grade 4. Total energy cost is less than \$1,000/unit (modeled) 	*If SHPO designation, an Adaptive Reuse may follow the Existing Building term sheet, with a waiver, for funding and scope	Details of each scope criteria on the next slide
Requirements	Cannot receive NYSERDA MPP, NC-H, or funds when accepting CEI funds	Benefit Charge) through their local utility BOE funding for construction, Existing Build of UP TO \$1,000/unit for soft cost, as part o	

Existing Buildings Three Eligible Funding Goals

Phase	Goal 1: Electrification of Heating System	Goal 2: Electrification of DHW system	Goal 3: Building Envelope Improvement & Ventilation
Funding	\$8,500/unit max	\$4,000/unit max	\$12,500/unit max
Scope of Work	Replace existing fossil-fuel (e.g., gas, oil, propane fired) based heating equipment or electric resistance baseboard systems with high-efficiency, all-electric heat pumps	Replace existing domestic hot water systems with high performance all-electric heat pump system	 Envelope: Pursue Envelope Stretch Goals listed in Section 2 of the Existing Building Sustainability Guidelines (p23-24) Ventilation: Pursue Ventilation Stretch Goals listed in Section 2 of the Existing Building Sustainability Guidelines (p31)
Requirements	 Required Building Envelope Conditions A high-performance envelope is required when electrification of heating is being pursued. 	Equipment must comply with the Adaptive Reuse Baseline Requirements for Domestic Hot Water equipment listed in Section 2 of the Existing Building Sustainability Guidelines (p 30	 Envelope improvements that contribute to an overall building envelope that is at least 15% more energy efficient than 2020 ECC Implementation of an engineered natural ventilation system in compliance with ASHRAE 62.1 Section 6.4 Natural Ventilation Procedure Existing buildings with natural ventilation systems installing through-wall exhaust fans in kitchen and bathrooms Installation of energy recovery ventilator (ERV) or heat recovery ventilator (HRV) equipment

Climate Friendly Homes Fund

Eligible Use of Funds

- CFHF hard costs will cover systems upgrades and limited energy conservation measures to support:
 - Heating system replacement with high-efficiency heat pumps for heating and . cooling
 - DHW system replacement with high-efficiency heat pump water heaters •
- CFHF funds can be used to cover associated engineering/consultant costs, originations fees, closing costs, and legal fees
 - Proposed cost share for energy audit and scoping ahead of loan closing ٠
 - Projects that close and move to construction would be reimbursed for their share of audit costs
 - Borrower will be responsible for benchmarking fees for a total of 5 years ٠
- Estimated available funding to cover hard costs: \$18-\$22k/unit

Ineligible Use of Funds

- Solar PV or other on-site renewables .
- Health & Safety or deferred maintenance items ٠
- Energy efficiency measures outside of designated scope ٠
- Cannot be combined with mortgage financing to fund additional updates .

Program staff and partners will work with participants to identify incentives, rebates, and other sources of capital to cover ineligible scope items that improve building operations and further reduce carbon emissions

CLIMATE FRIENDLY HOMES FUND

The Climate Friendly Homes Fund (CFHF), administered by The Community Preservation Corporation, provides financing for existing, 5-50-unit buildings in New York State with a focus on replacing older and less energy-efficient systems with all-electric, high-performance heating, cooling, and hot water heating systems.

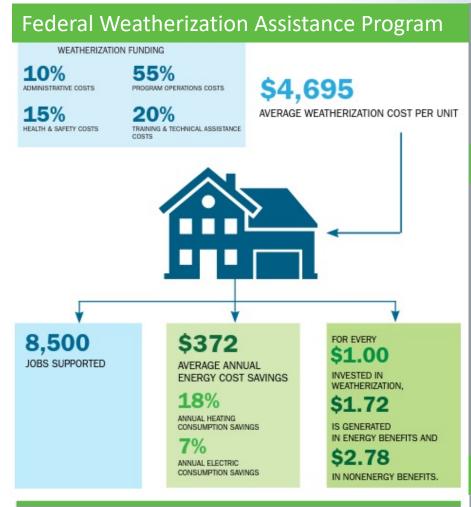
With \$250 million in New York State funding, CPC and New York State Homes and Community Renewal aim to finance electrification retrofits in at least 10,000 units of multifamily housing that serve economically disadvantaged communities. These funds will empower small building owners to identify and execute a scope of work to improve the energy efficiency of their buildings and decrease their greenhouse gas emissions.

By catalyzing the adoption of new, energy-efficient technologies, the program will advance New York State and CPC's commitments to supporting multifamily building owners in their transition to a green economy and delivering the benefits of climate friendly homes to residents of lowand moderate-income neighborhoods.

In order to maximize impact and the reach of the program, CPC has identified like-minded green lending institutions, CDFIs, and other community-based partners to collaborate on the identification and screening of building

			 The existing property uses either fuel oil, natural gas.
Program Summ Program Size Property Eligibility	\$250,000,000 fi 10,000 multifar Multifamily resid reductions throw either:		 propane or electric resistance for the primary space heating. Existing building envelope performance; either via an existing I/PNA or a Property Condition Assessment completed by a consulting engineer engaged by Program Administrator to perform services in connection with Program and aligned with the States decarbonization goals. Existing energy efficiency; based on average annual energy usage of most recent past 2 years
	1. Regula 2. Locater defined		Existing owner and tenant meter structure Date and scope of last major refinance
	(HUD) 3. Located State's	Payment Structure	 Property owners will receive funds in the form of a forgivable loan. No payments of principal or interest; fully forgiven after the loan term. Property owner shall enter into a Promissory Note and Loan Agreement.
Other Eligibility Requirements	1. Owner •		 Property owner shall execute a Restrictive Covenant which shall impose certain requirements, and shall be recorded against the improved property. Properties which are sold or refinanced without state written consent, which shall not be unreasonably delayed or withheld, within 10 years (or for projects with either: 15 units or less or, loan/grant amounts of \$375,000 or less, 5 years) of receiving funding may trigger repayment of a portion of the funding, unless explicitly stated otherwise.
	2. Eligible	Security	Restrictive Covenant recorded against the property.
	rental p	Loan Amount	Up to \$24,200 per unit, which will cover the eliqible scope of work and eligible program delivery costs (soft costs).
	• 3. CPC or	Term	10 Years: Projects with 15+ units OR Loan amounts greater than \$375,000 5 Years: Projects with less than 15 units OR Loan amounts less than \$375,000
		Interest Rate	N/A
		Loan Origination Fee	25 basis points of loan amount multiplied by number of years in servicing period (10 years, or for projects with either: 15 units or less or, loan amounts of \$375,000 or less, 5 years) Projects with 15 units or less or, loan amounts of \$375,000 or less: Servicing fee to be paid in full by borrower at closing (calculated
			based on discounted cash flow analysis). Projects with greater than 15 units or, loan amounts greater than \$375,000: Borrower to be given two options for payment: Option 1: Servicing fee to be paid in full by borrower at closing (calculated based on discounted cash flow). Option 2: Servicing fee to be paid annually by borrower.
		Reserves	Reserves will be established at loan closing from funds provided by the eligible building owner for the following:
			 Required benchmarking fees (3 years collected up front)

Weatherization Programs



Weatherization services improve existing homes building envelope through air sealing, HVAC improvements, & health and safety improvements

NYS Weatherization Assistance Program

- WAP+ LIHEAP funds for NYS WAP
- Our average cost per unit: \$8,006/unit
- On average 7,000/units or homes a year
- Work on Single Family & Multifamily
- A network of 50 Subgrantees, or Community
 Action Agencies (Non-Profit community

NYSERDA EmPower Program

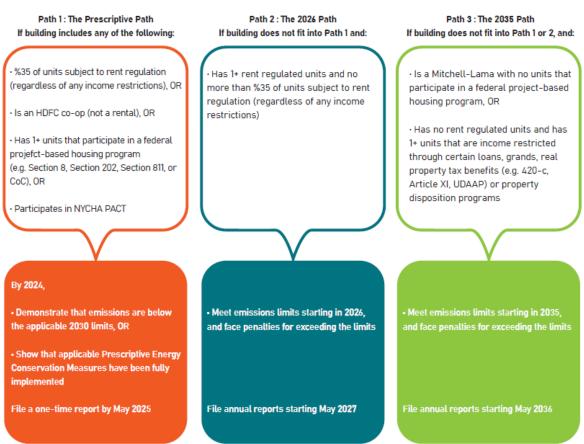
- Serves ~ 5,000 units a year, + new funding!
- Works with 1–4-unit homes
- Able to decarbonize properties through electrification



Weatherizing a home has multiple benefits. In addition to the main goal of creating a more energy-efficient dwelling, an investment in weatherization also has a positive impact on local employment and energy costs and generates energy and nonenergy benefits for the community.



Local Law 97 & Affordable Housing:





LL97 Guidance for Affordable Housing - HPD (nyc.gov)

Local Law 97 – Prescriptive Measures (updated)

Must implement or show compliance with all applicable measures:

- Adjusting temperature set points for heat and hot water
- Repairing visible heating system leaks
- Confirm heating systems are in good operating condition
- Temperature controls (TRV) or insulated radiator enclosures (all radiators or based on a survey of overheated apartments)
- Insulation of exposed pipes for heating and/or hot water
- Insulation of steam system condensate tank or water tank
- Heating system sensors & boiler controls for steam/ hydronic heating
- Replacement or repair of all steam traps as needed*
- Steam system master venting upgrades as needed*
- Installing timers on intermittent exhaust fans*
- Installing radiant barriers behind certain radiators*
- Ensure common area lighting installed between 2010 and 2024 comply w/ Energy Code in effect at the time of installation
- Confirm or fix weatherstripping/ caulking/ etc. in common area

LL97 PRESCRIPTIVE MEASURES: COSTS FOR AVG. DWELLING UNIT (1.5 BR - 700 sf)					
Scope	Cost/ DU	Incentives	Net Costs Annual Savings/ DU		Payback (Years)
Low (e.g. non-steam building)	\$1,540	\$525	\$1,015	\$85	11.9
High (e.g. all PECMs required)	\$4,620	\$2,000	\$2,620	\$255	10.3
Average	\$3,080	\$1,263	\$1,818	\$170	11.1



Local Law 97 – Meeting 2030 Limits

RANGE OF BUILDINGS	SAMPLE SCOPES TO MEET 2030 LIMITS	GHG REDUCTIONS
Buildings already performing close to 2030 targets	 -Invest in maintenance -Install low flow fixtures -Air seal building -Heating distribution system upgrades 	up to 29%
Buildings that are significantly underperforming	All of the above PLUS: -Roof insulation & air sealing -Upgrade to high efficiency heating equipment -Heating system controls & sensors -Lighting upgrades	29-48%
The worst performing buildings (the worst 20 th percentile, many are oil buildings)	All of the above PLUS: -Install heat pump hot water heaters -Upgrade old windows	44-63%

Most buildings subject to the "2035 Pathway" will need to make deeper improvements to meet 2035 limits but won't need to electrify until after 2040 (see the Decarbonization Roadmap for further information)



Local Law 97 – Rules Coming

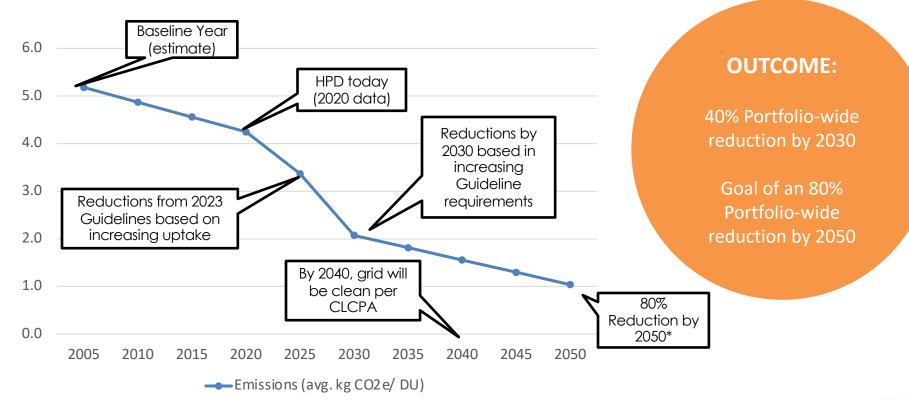
- Rules expected summer 2023
- Rules will include penalties for failure to report and for non-compliance
- Rules will include clarification of the PECMs
- Rules will likely include an alternative pathway for Article 321 (the Prescriptive Pathway)
- Rules will likely include a covered buildings list, or required documentation to prove status
- Rules will likely include information about change in compliance status





HPD's Design Guidelines

HPD's Plan for Decarbonization





HPD's Design Guidelines



Department of Housing Preservati & Development

Design Guidelines: Key Criteria

	CRITERIA	Mod Rehabs	Sub & Gut Rehabs	New Construction
1	Core Requirements	No 3 rd Party Certification Meet 2030 LL97 targets Reach: Exceed LL97 requirements	EGC or LEED Gold or Above Meet longer term LL97 targets Reach: EGC+ and/or meet LL97 2050 targets	EGC or LEED Gold Meet 2050 LL97 targets* Reach: EGC+ and/or Passive House
2	Resiliency	New equipment above 2050s flood zone Cool roofs Reach: Cooling for Senior Housing	New equipment above 2050s flood zone Cooling for seniors* Reach: No residential uses below grade	Design to 2080's flood zone, Place of Refuge in Senior Housing Reach: Shaded open space for all buildings
3	HVAC	Limited Electrification* Clean/ seal balance existing ventilation Reach: Install mechanical ventilation	Strategic Electrification* New Performance Standards for HVAC Reach: Full electrification	Full Electrification* New Performance Standards for HVAC Reach: Geothermal/ Heat Recovery
4	Envelope & Efficiency	Prescriptive requirements	Covered by EGC	Covered by EGC
5	Health & Wellness	Prescriptive requirements Aging in place, accessibility	Most items covered by EGC Aging in place, accessibility	Covered by EGC New open space requirements
6	Broadband	Broadband in common areas	Broadband in common areas	Broadband required
7	Operations	Project manuals and staff/ resident training	Most items covered by EGC	Covered by EGC

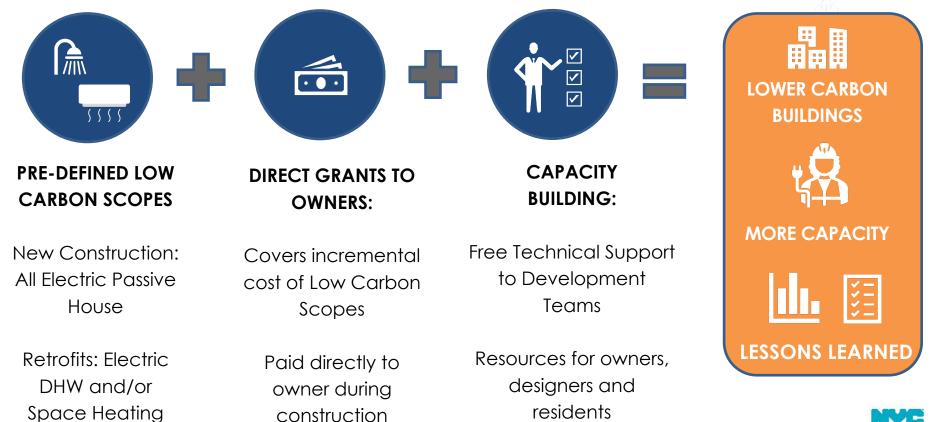
*Signifies that a Design Waiver is available

Financial Resources

HPD Pilot Funding Overview

Phase	\$15 Million Future Housing Initiative: Phase 1	\$24 Million Retrofit Electrification Pilot
Scope Requirements	 All Projects must include: All Electric Heating, Hot Water & Appliances AND Certification w/ PHI/ PHIUS, ECG+ or LEED BD+C Gold & LEED Zero 	 Two Scopes available (may be combined): Scope 1: Electrification of Hot Water Heating + Low Flow Fixtures + Pipe Insulation Scope 2: Electrification of Space Heating + Roof & Window Upgrades + Air-Sealing. Ventilation Upgrades and Electric Cooking are encouraged but not mandatory.
Funding	 Base Funding: up to \$5,500/unit Base + Boost*: up to \$10,000/ unit Max per project: \$1.375M Max with Boost*: \$1.5M Boost Eligibility includes Prevailing Wage projects, difficult to develop sites, first-timers, etc. Additional innovation funds may be available 	 Scope 1 (DHW): up to \$2,300/ unit Scope 2 (Space Heating): up to \$24,000/ unit Scope 1+2: up to \$26,300/ unit Max per project: \$1M* Additional funds may be available for multi-building projects on oil
Eligibility Requirements	 Competitive Application Must be a project in HPD's pipeline Must be closing within 1-2 years 	 First-come-first-served Must be a project in HPD's pipeline Preference for 10 to 50-unit buildings on oil/ electric resistance or with equipment in flood zones Scope 2 is only available for Sub Rehabs
Other Sources	All projects must pay into SBC (Systems Benefit Charge) through t Projects must seek Clean Heat Funding where available Projects may not receive NYSERDA MPP, NC-H, BOE, or Low Carbo any building that is part of a Pilot)	heir local utility on Pathways funding for construction or utility AMEEP funding (for

HPD-NYSERDA Pilot Structure



Department of Housing Preservati & Development

HPD's Retrofit Electrification Pilot: Status



OUTCOME:

Closed Projects: 3 projects w/ 153 units

Current Pipeline: 26 buildings w/ 769 units

Target: Up to 1,500 units

Up to 3,000 tons GHG emissions abated



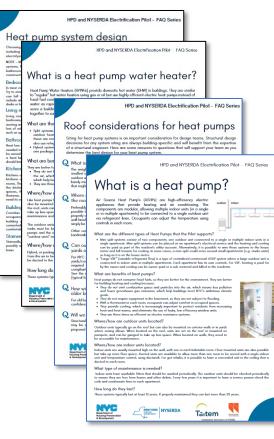
Additional Resources





Additional Resources

Retrofit Electrification Pilot: Tools & Resources



HPD ELECTRIFICATION PILOT: TECHNICAL REQUIREMENTS

Hot Water Heat Pump (HPWH) Technical

REQUIREMENTS

The following practices shall be followed for all projects. These are in addition to all requirements outlined in NYC codes, zoning, NYS Clean Heat Program Requirements and the HPD specifications.

Hybri

Solit:

HPD-NYSERDA Retrofit Electrification Pilot: TECHNICAL REQUIREMENTS

Heat Pump Technical Requirements April 2022

- The following practices shall be followed for all projects. These are in addition to all
- requirements outlined in NYC codes, zoning, NYS/ConEd Clean Heat Program Requirements, and the HPD specifications. In some cases, these requirements are more stringent than required by codes or by the NYS/ConEd Clean Heat requirements, and in those cases, these requirements shall be followed.

Split Systems

- Must meet or exceed NVS Clean Heat requirements
- Minimum to-year parts warranty, t-year warranty on labor.
- Design requirements
 - System shall be designed to meet Clean Heat "Full Load" requirements (heat pumps serve >= gots of building load).
 - Locate outdoor units to minimize length of outdoor piping
 - Electric resistance backup shall not be used Heat pump shall have a variable speed compressor.
 - Size the heat pump to the heating load.
 - Electric resistance backup heat is not permitted.

 - Consider best practices as outlined in HPD/NYSERDA best practices, including: 1. Roof Considerations for Heat Pumps
 - 2. Electrification Space Strategies

These can be found at the following web site:

https://www1.nyc.gov/site/hpd/services-and-information/hpd-nyserda-retrofitelectrification-pilot.page

- · Comply with all relevant codes and standards. A compilation of many of these will be provided at the above web site when available.
- · Consider design to use gravity drainage of condensate from indoor units. Where gravity drainage is not possible, pumps are acceptable. Pumps should preferably be concealed. Ensure that drainage is located such that it does not cause condensate to land on balconies or other appurtenances below. Condensate discharge to building drainage, shall be through indirect waste connection by means of an air gap.
- · Size systems to an indoor design heating temperature of 72 degrees, as allowed by the Energy Code. Note that NYC requires that systems be capable of ensuring that the indoor temperature is at least 68 degrees.
- Size systems to a design outdoor temperature of 13 degrees.



MAINTENANCE SERVICE CONTRACT CHECKLIST Get the most out of your heat pump ANNUAL OL

Tips to maximize comfort and minimize cost

Programming tips

For programmable thermostats, system settings should be pre-set by the contractor, but you always adjust them to fit your own lifestyle. The the up/down arrows let you temporarily override settings as needed.

MODE

ATTACHMENT 1

Service Contra

GENERAL

· Check

· Clean

REFRIGERAN

Visual

refrigere are four

· Check

ELECTRIC /

Visually

Lubrico

CONTROLS

Inspect,

Review

OUTDOO

Every 5 ve

Verify t

Replace

Inspect

suspec

Inspect

Visually

· Control

UNIT COS

Contractor

Annual

· Annual

· Cost fo

equipme

therms

at the c

Clean

operat

Inspect

clean/

from re

SYSTEM: Program the heat pump mode to "Heat" in winter and "Cool" in	
summer rather than using Auto mode.	1

FAN: Program the fan to "Auto" and adjust the vanes to direct airflow where you need it the most.

TEMPERATURE

IN WINTER: Program thermostat to 70-72° during the day and reduce by 2-4 degrees while you are sleeping. You can override the settings (using the up/down buttons) to increase comfort if your schedule changes or

PRO TIPS

feel cooler than

Heat pumps can be

forget they are on.



On the coldest days/nights, it does not make sense to reduce the temperature

IN SUMMER: Program thermostats to 74-76 while you are at home, and to 78 degrees when you are not. You can always override the settings (using the up/ down buttons) to increase comfort

IN SPRING & FALL, or when the weather is nice, turn off the system and open the windows for free cooling!

Conditioning the space

Try not to make big changes in the temperature programming. Turning the heat pumps off and on uses a lot of energy. Instead, find settings at which you are comfortable and stick with them.

When a room will not be in use for extended periods of time close the door to the space and turn the indoor unit off in the unoccupied

Keep the heat pump clean

Heat pumps work most efficiently when dust filters are clean. Vacuum or rinse dust filters when the indicator light comes on or if they become visibly dirty.

Wash or replace allergen cartridges according to manufacturer recommendations. Most experts recommend dust filters are cleaned at least once every season and more if you have alleraies or pets.



Department of

Housing Preservati & Development

Heat Fan Auto

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Have guestions? Need Help?

Contact your building's super at



Local Law 97 – Act Now! Campaign w/ KC3

Local Law 97 and **Affordable Housing**

Act Now! Climate Week 2022

The Climate Mobilization Act of 2019 included Local Law 97 (LL97), which sets increasingly stringent caps on greenhouse gas emissions from the city's largest buildings starting in 2024. Most buildings over 25,000 square feet will be subject to LL97, and building that exceed their annual emissions limits will face financial penalties.

Buildings that include affordable and rent-regulated housing are not exempt. LL97 provides affordable and rent-regulated housing a number of different compliance pathways. 2024 is approaching quickly and we recommend that building owners Act Now! to start on a path to compliance.

To learn more about LL97, compliance pathways for affordable housing, resources and events, visit nyc.gov/LL97forHousing.

Connect with the NYC Accelerator

KC3, an affiliate of the NYC Accelerator, is providing free technical assistance to building owners to understand LL97, develop an appropriate work scope. Identify Incentives, and assemble a team to Implement the work.

Contact KC3 at affordable@kc3.nvc or visit calendly.com/affordablenyca to connect with or request training from a dedicated affordable housing account manager.

- Upcoming NYC Accelerator **Events during Climate Week**
- Decarbonizing Our Community: Navigating Local Building Energy Law Compliance 9/21/22 8:30am-10:30am
- Ask Me Anything: LL97 and Affordable Housing
- Ask Me Anything: Financing and Incentives 9/28/22 11:00am-12:00pm



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ECMs

Prescriptive

1. Adjust temperature

and hot water

2. Repair heating

system leaks

3. Maintain heating

4. Install individual

radiator enclosures

system condensate

tank or water tank

system sensors and

5. Insulate heating and

hot water pipes

6. Insulate steam

7. Install heating

boiler controls

temperature

set points for heat

Local Law 97 – Building Emissions

Under NYC Local Law 97 (LL97), buildings larger than 25,000 square feet must meet increasingly stringent carbon emissions caps starting in 2024. This law helps New York City reach its goal of carbon neutrality by 2050.

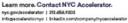
Understanding Alternative Compliance Pathways for Affordable Housing

LL97 provides several different compliance pathways for affordable housing buildings. This document focuses on Article 321, which provides an alternative compliance pathway for certain affordable housing buildings." By 2024, covered buildings must meet one of the following conditions;

- The annual building emissions did not exceed the carbon limits for 2030-2034. (Report certified by a registered design professional due by May 1, 2025).
- 7 The building implemented the applicable Prescriptive Energy Conservation Measures (ECMs) by December 31, 2024. (Report certified by a retro-commissioning agent due by May 1, 2025).

"Buildings in which more than 35 percent of units are rent regulated, regardless of whether they contain units with income restriction; HDFC cooperatives; and buildings that include HUD project-based assistance (s.g., Section 8, 202, 811, CoC), including buildings on NYCHA lend that participate in the PACT/RAD program.





NYC Accelerator is a program of the NYC Mayor's Office of Climate and Statute ability



Limited-Time Offer: **NYC HPD Multifamily Buildings**

Get help installing the measures required by Local Law 97 (LL97) today.

NYC Accelerator is partnering with Con Edison and the NYC Department of Housing Preservation & Development (HPD) to help HPD-financed buildings navigate LL97.

This is a limited-time offer.¹ Eligible buildings will receive incentives per dwelling unit and per measure installed. The incentives will be paid on a first-come, first-served basis. If you do not qualify for this offering, other multifamily incentives may still be available. Building Heating System Type

	(Incentive Per Residential Unit)		
Measures		2-Pipe Steam	Hydronic
Boller Clean & Tune: Maintaining the heating system, including but not limited to ensuring that system component parts are clean and in good operating condition	\$34	\$45	\$30
Thermostatic Radiator Enclosure (TRE): Insulating radiator enclosures with temperature controls	\$800	\$800	
Pipe Insulation: Insulating all pipes for heating and/or hot water	\$100	\$100	\$100
Fank Insulation: Insulating all steam system condensate tanks ind/or water tanks	\$100	\$200	
Energy Management Systems (EMS): Installing indoor and outdoor seating system sensors and boiler controls to allow for proper set-points	\$280	\$300	\$350
iteam Traps: Replacing or repairing all steam traps so all are in rorking order	\$500	\$750	
Aaster Venting: Installing or upgrading steam system master venting t the ends of mains, large horizontal pipes, and tops of risers, vertical ipes branching off a main	\$70	\$40	
Common Area Lighting: Upgrading lighting to comply with the tandards for new systems set forth in section 805 of the New fork City Energy Conservation Code and/or applicable standards aferenced in such energy code on or prior to December 31, 2024	\$6	\$6	\$6
Air Sealing: Weatherizing and air sealing where appropriate, including windows and ductwork, with focus on whole-building insulation	Free	Free	Free
nsulation – Roof & Wall: Weatherizing and air sealing where ppropriate, including windows and ductwork, with focus on whole-building insulation	\$350	\$350	\$350
Jnitary Controls: Installing timers on exhaust fans	\$100	\$100	\$100



NYC Accelerator is a program of the NYC Mayor's Office of Climate & Environmental Justice

info@accelerator.nyc | linkedin.com/company/nycaccelerator

Building Eligibility Requirements

- NYC HPD-subsidized housing
- Buildings between 25,000 and 75,000 sq. ft.
- Buildings with 5+ units
- · Con Edison gas customer • Buildings subject to Article 321 of LL97,
 - o Greater than 35% rent regulated units
 - o HDFC co-op
 - o Buildings with HUD project-based assistance (Section 8, 202, etc.), including buildings on New York City Housing Authority land that
 - 2030 limits Buildings that meet Con Edison's

How It Works

- · Complete survey to identify which of the Prescriptive Energy Conservation Measures are applicable to your building · Select a Participating Contractor to b and install your package Submit your application to Con Ed and schedule a pre-inspection Install the package within two years

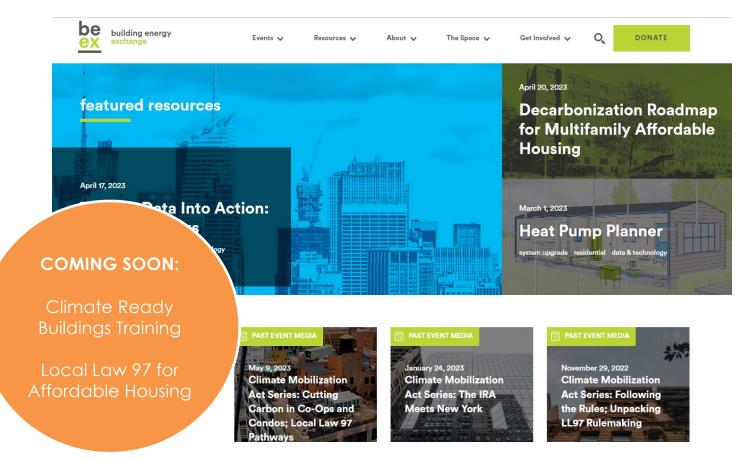
- Receive your incentive payment

NYC

Additional guidance on LL97 can be found on the Department of Buildings website: https://www1.nyc.gov/site affordable-housing.page

ConEdison

Collaboration w/ BE-Ex (and others)



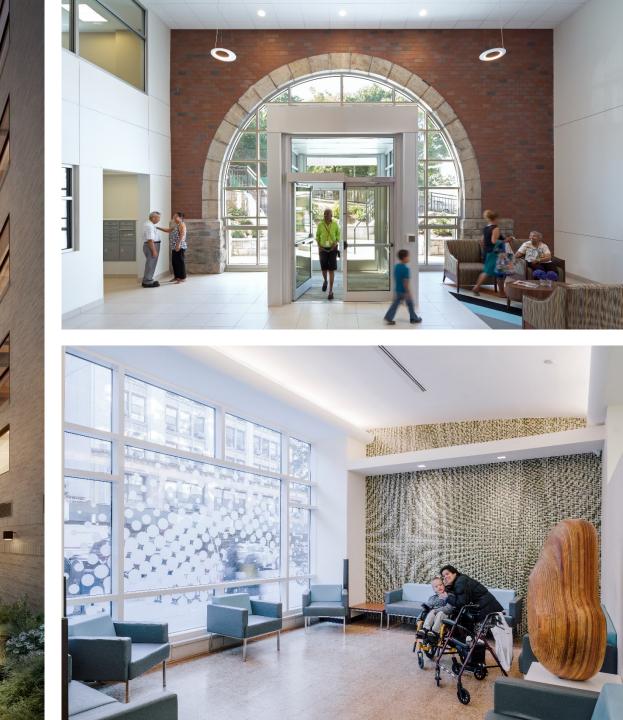


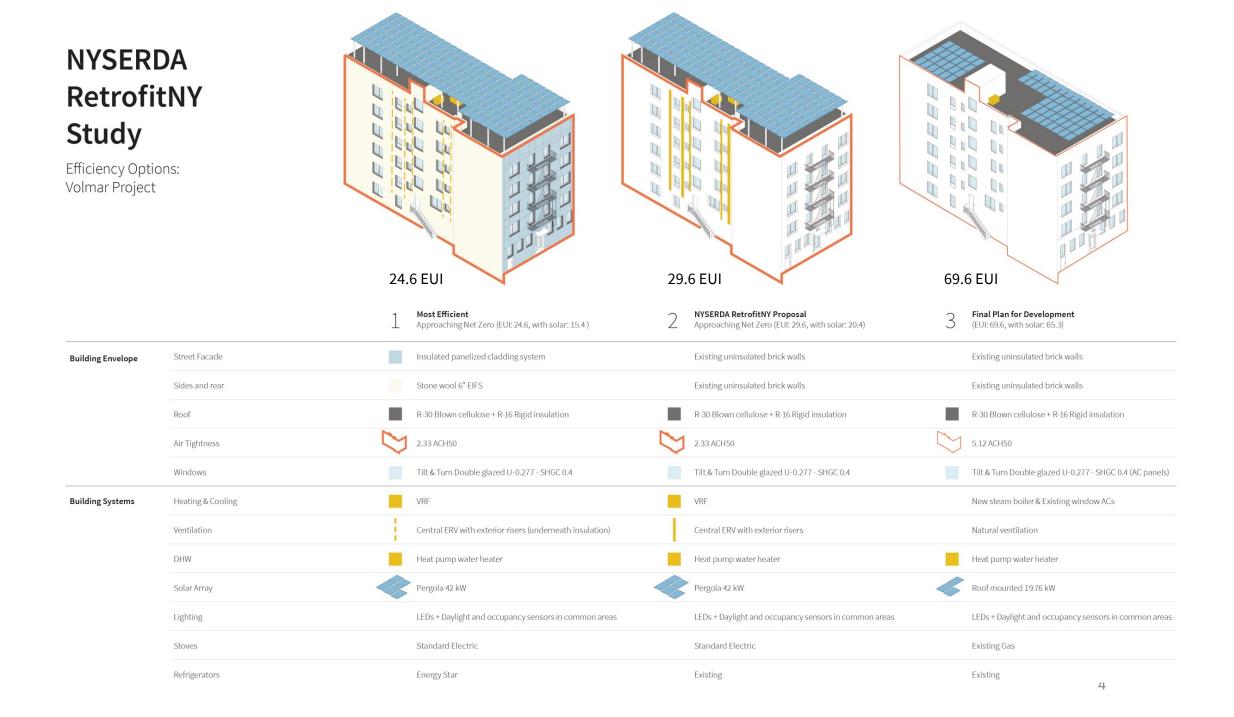
Sustainable, Inclusive Communities.











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



Continuous, Robust Thermal Control Most basic level of energy efficiency. Hold on to 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.

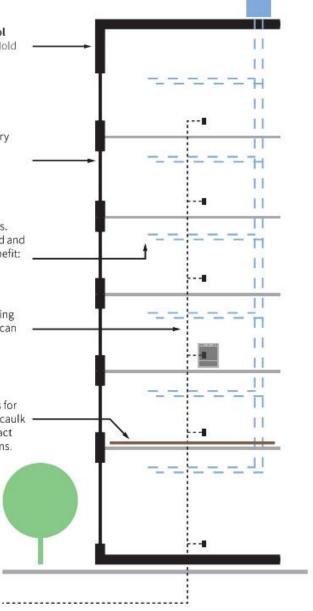
Efficient Electrification

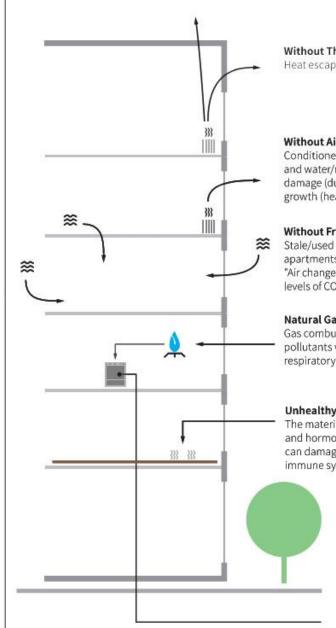
If building an air tight structure and using technologies like ERVs, electrification can be cost effective for developers and healthier for residents.



Healthy Materials

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





Without Thermal Control Heat escapes through exterior.

Without Air Sealing

Conditioned air passes through exterior and water/moisture infiltrates causing damage (durability issues) and mold growth (health issues).

Without Fresh Air Supply

Stale/used 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

The materials leach or off-gas endocrine and hormone disrupting chemicals. They can damage lungs, hearts, nervous and immune systems.

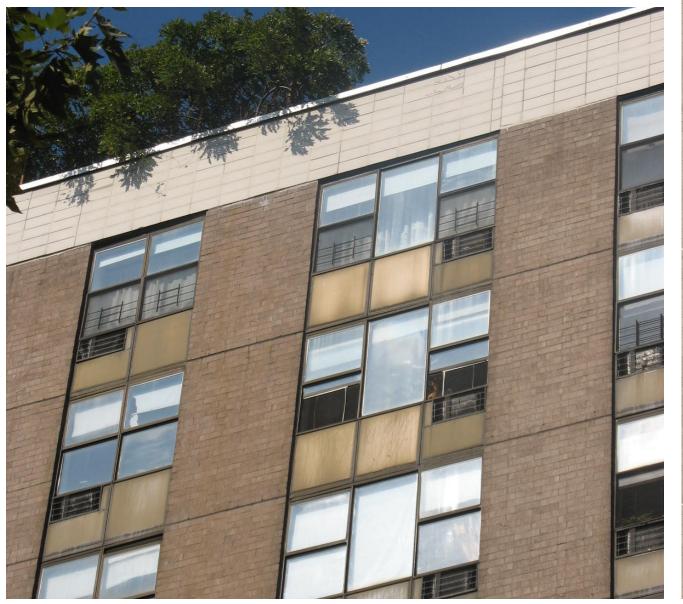
Thermal Control and Air Tightness

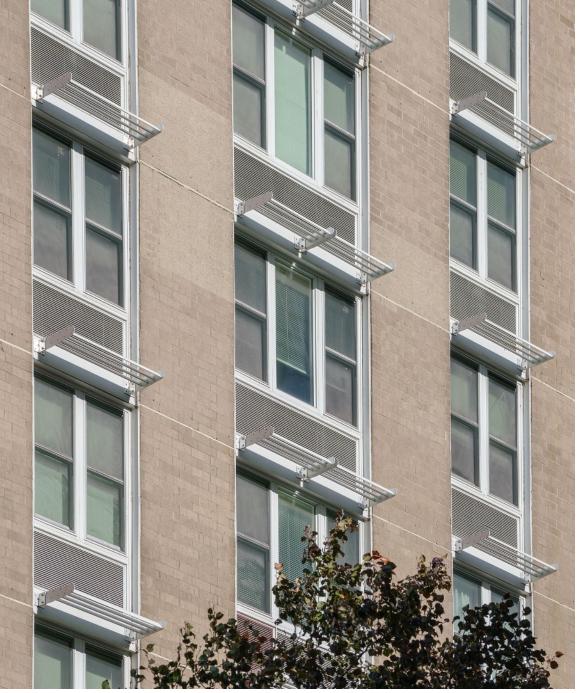






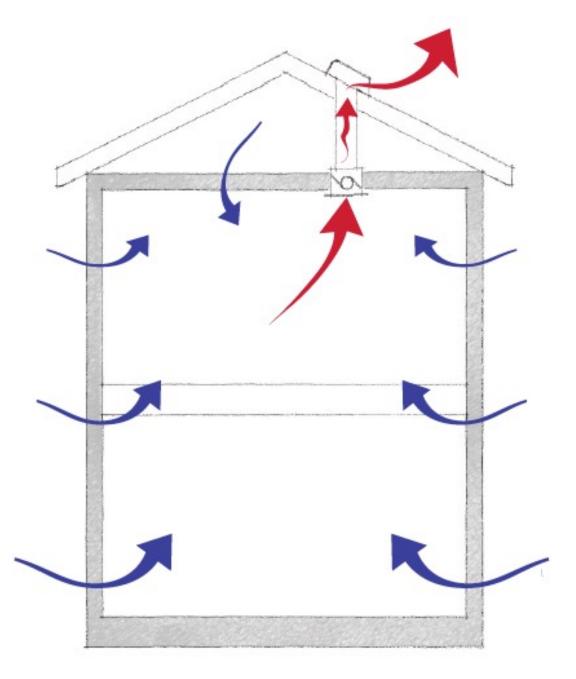
Thermal Control and Air Tightness





Energy Recovery Ventilation

Non-airtight enclosure with exhaust only ventilation means "fresh" air comes from leaky walls!



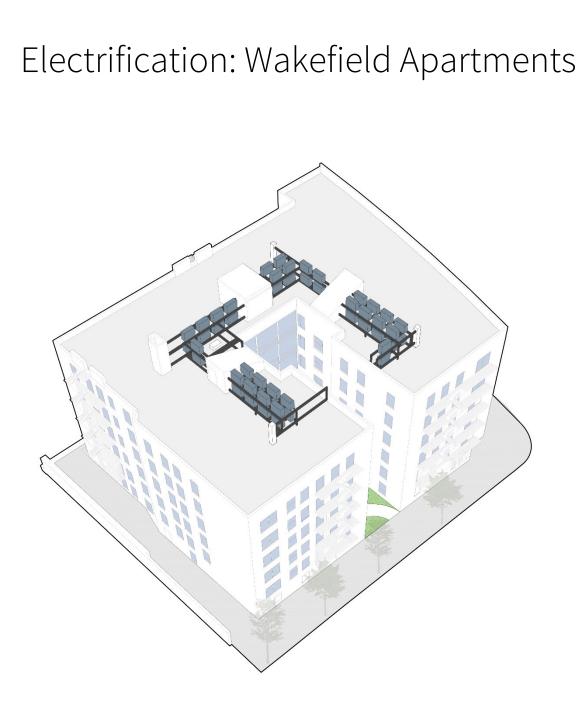
Energy Recovery Ventilation

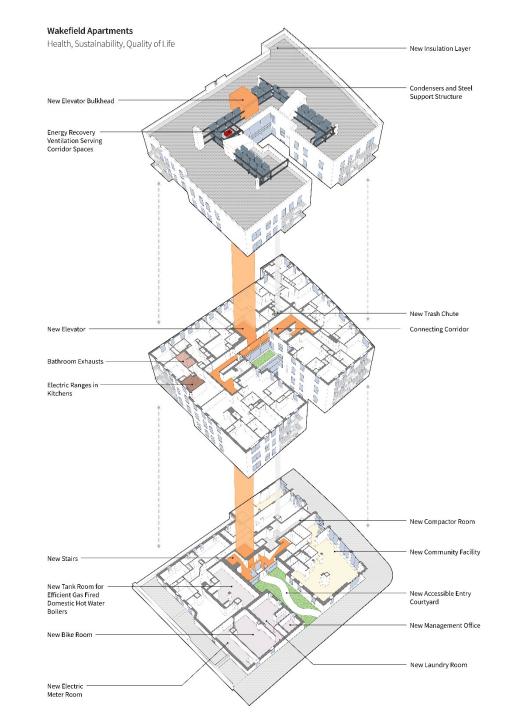


EXISTING (above) Exhaust in-line fans from Kitchen, Baths + Corridors

NEW (right) ERV's on roof to serve corridor (pressured hallways)





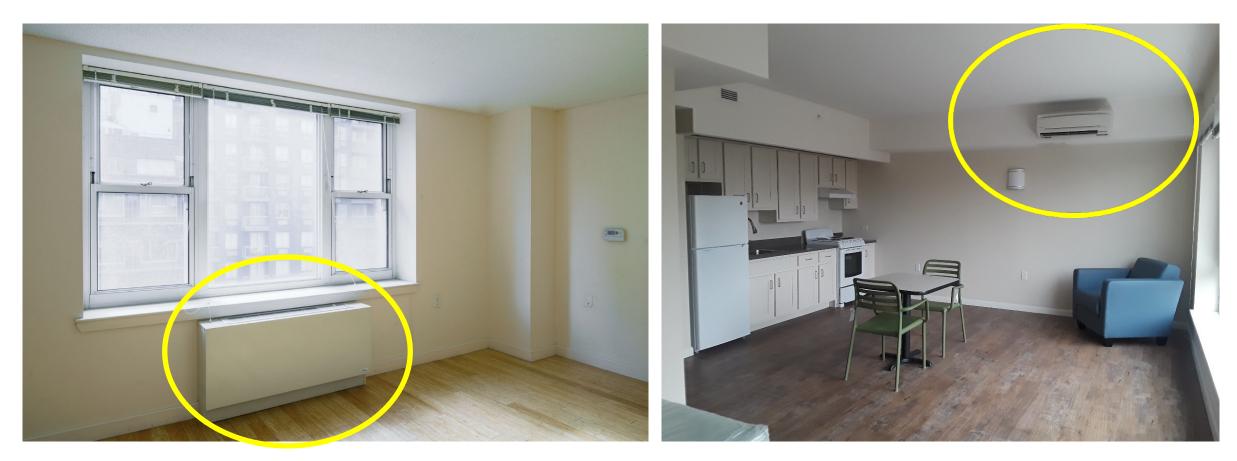


Electrification: heating and cooling



Through wall/window combined unit

Electrification: heating and cooling



Condenser in existing sleeve + evaporator on wall

Electrification: air source heat pump to fan coil units

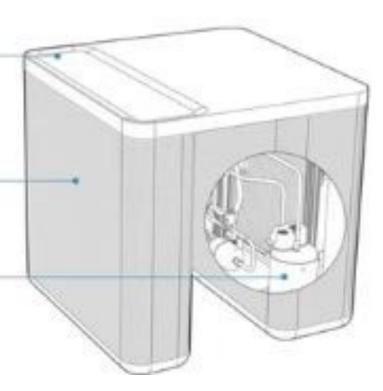


Electrification: heating and cooling

Top surface serves as functional shelf, carries water/glycol lines and power between units

> Interior unit contains water-to-air heat exchanger and fan

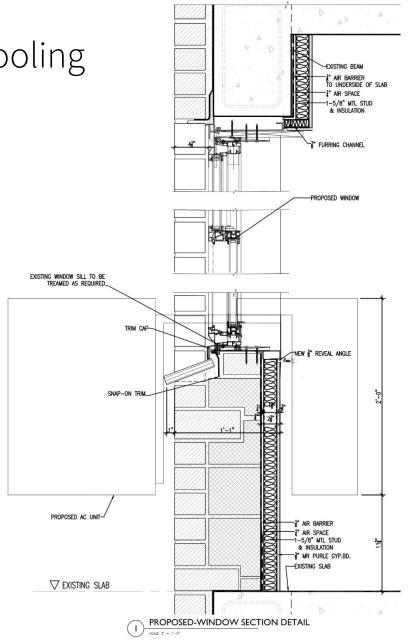
Exterior unit contains vapor compression cycle and refrigerant-towater heat exchanger





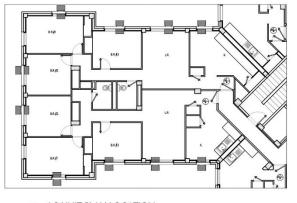
Saddle combined unit

Electrification: heating and cooling





WINDOW INTERIOR ELEVATION 3 SCALE: 1/2" = 1'-0"



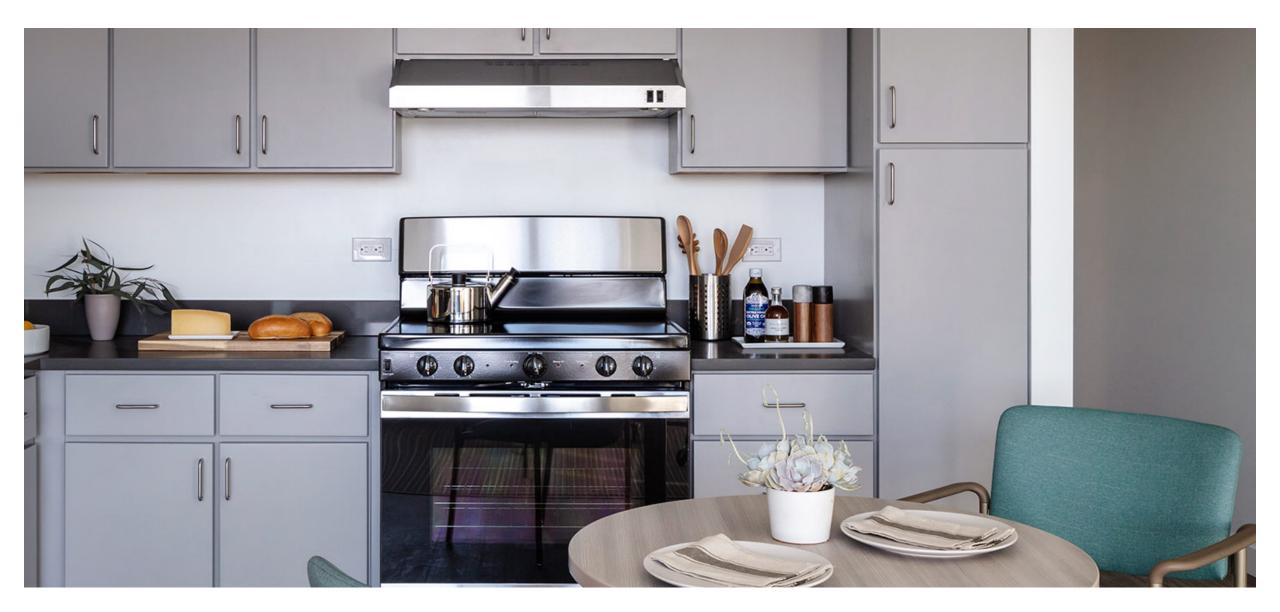
AC UNIT PLAN LOCATION (4)SCALE: 1/4" = 1'-0"

Electrification: domestic hot water





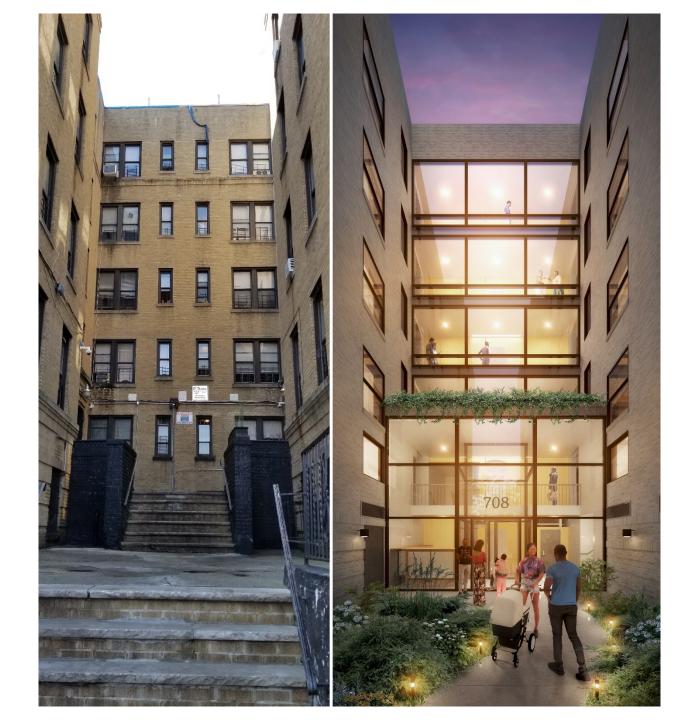
Electrification: stoves and indoor air quality



Sustainability, health and inclusivity

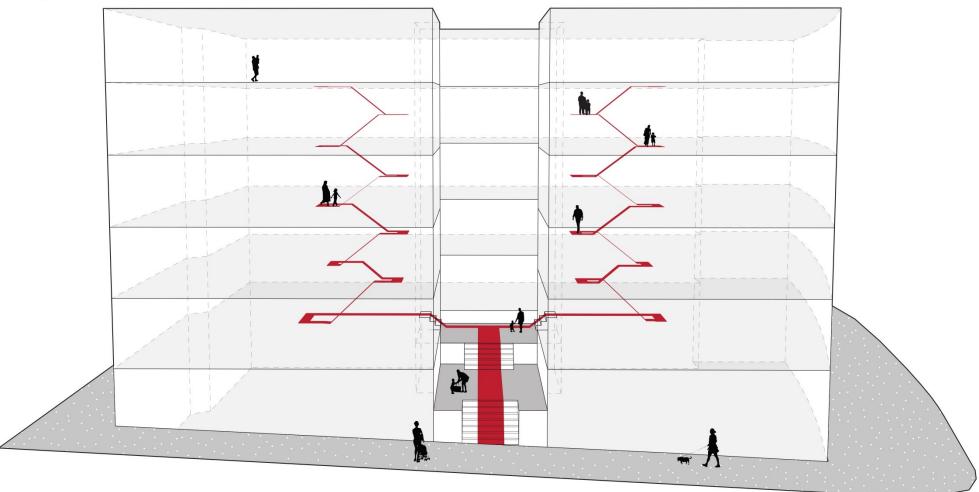
Wakefield Apartments

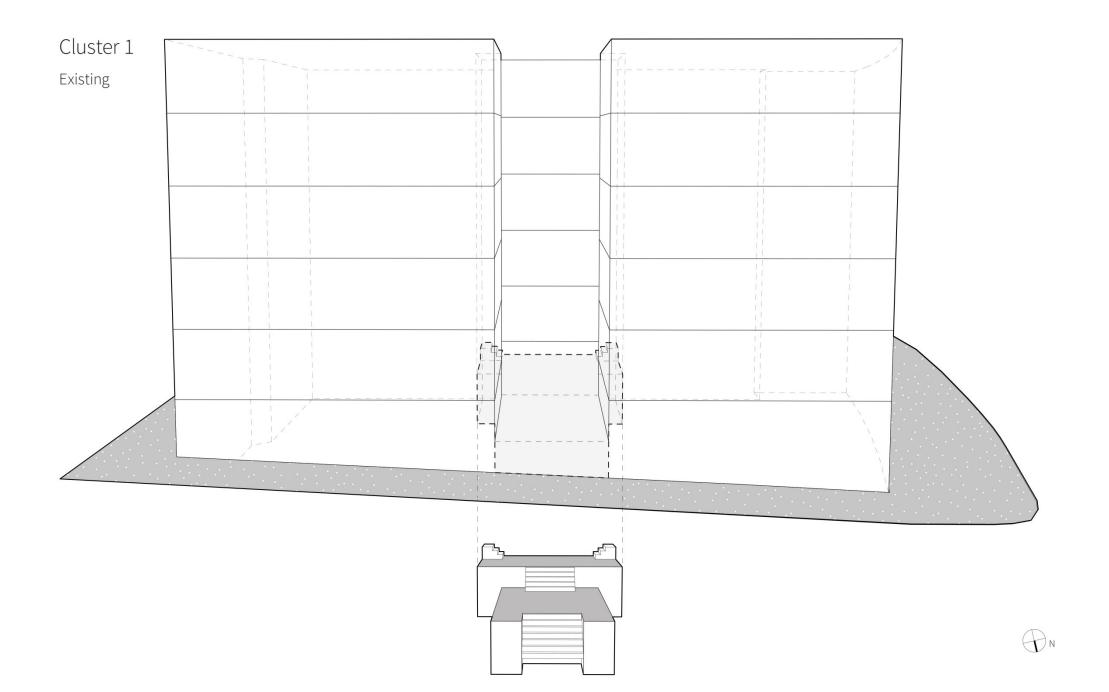
Existing entry on the left and proposed entry on the right .



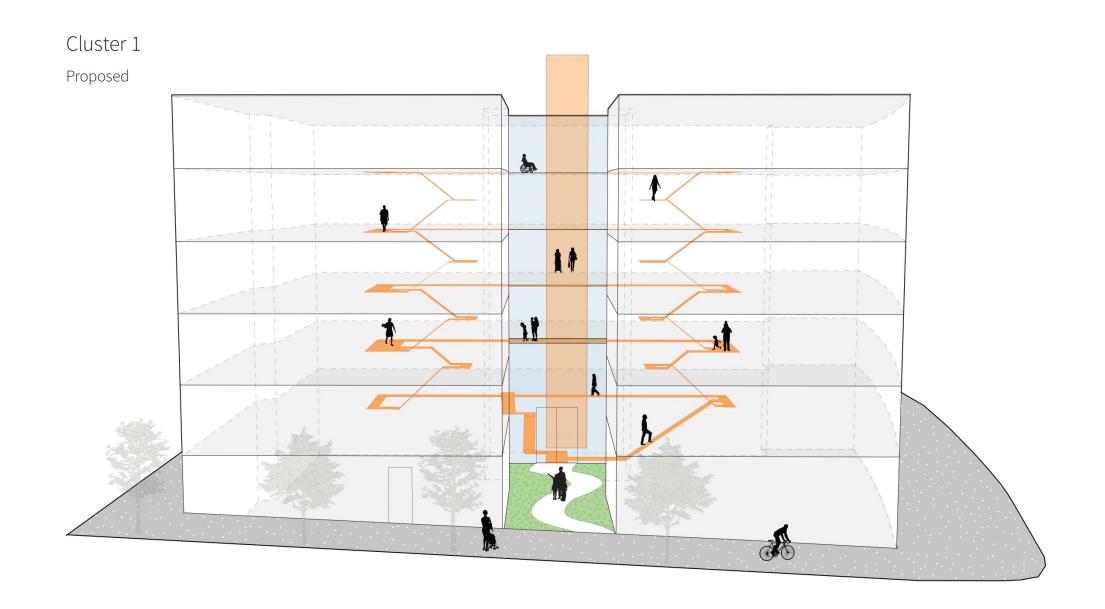
Cluster 1

Existing











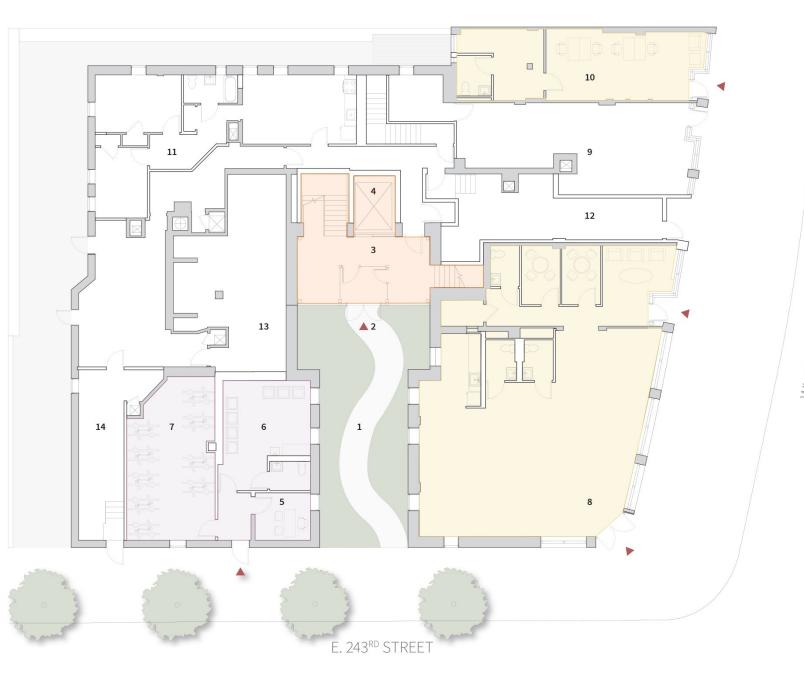
- Entry Courtyard
 Residential Entrances
 Residential Utility &
- Storage Rooms
- 4. Retail 1
- 5. Retail 2
- 6. Retail 3
- 7. Retail 4
- Super's Unit
 Existing Fuel Oil Boiler
- Room 10. Existing Fuel Oil Tank
- Room 11. Existing Meter Room



Proposed Ground Floor

- Residential Courtyard
 Residential Entrance
- 3. Residential Lobby
- New Elevator
 Management Office
- 6. Laundry Room

- Launary Room
 Bike Room
 Community Room
 Existing Retail
 Social Serivces Offices
 Super's Unit
 New Compactor Room
 New Tank Room
- 14. New Electric Meter Room



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Recommendations: Modeling and Testing/Monitoring

