



June 21, 2022

Sustainable Retrofits in NYC (affordable housing)



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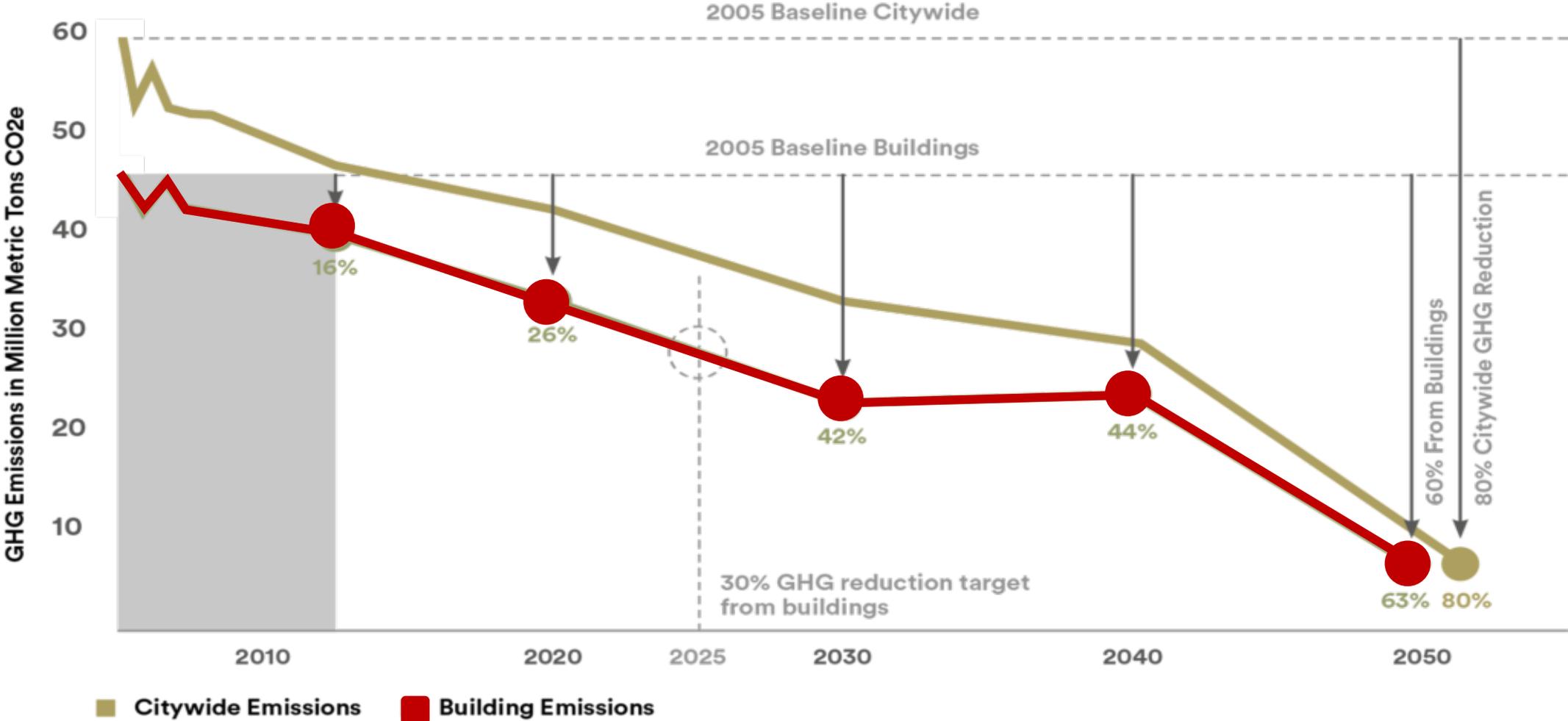
Background

**In 2019, as part of NYC's Commitment to reduce emissions 80% by 2050,
The city passed the Climate Mobilization Act - one of the most ambitious pieces of climate
legislation in the world to set carbon emissions limits on buildings > 25,000 sf.
Other laws have followed, including a ban on fossil fuels in new construction...**

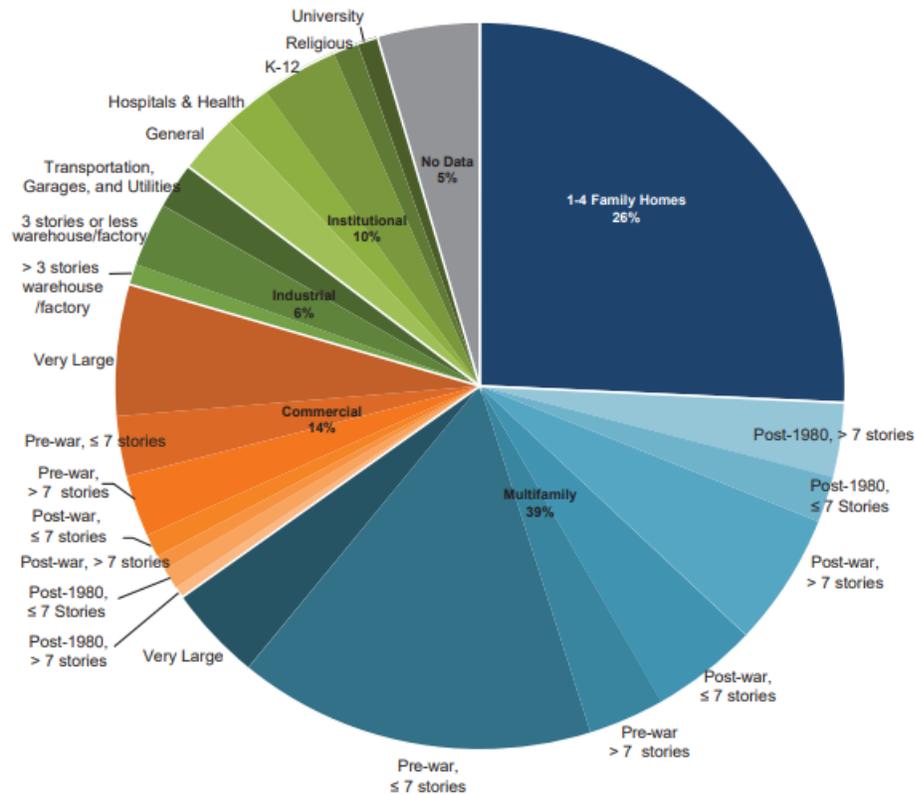
NEW YORK CITY'S ROADMAP TO

00% BY 50

NYC's Climate Mobilization Act



NYC's Climate Mobilization Act



1-4 Family Home

Citywide Building Area: 25.7%	Citywide Building-based GHG: 18.9%
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Commercial, Very Large

Citywide Building Area: 5.9%	Citywide Building-based GHG: 11.7%
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Commercial, Pre-war, ≤ 7 Stories

Citywide Building Area: 2.7%	Citywide Building-based GHG: 5.4%
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Multifamily, Pre-war, ≤ 7 Stories

Citywide Building Area: 15.8%	Citywide Building-based GHG: 11.5%
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Commercial, Pre-war, > 7 Stories

Citywide Building Area: 2.7%	Citywide Building-based GHG: 5.5%
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Multifamily, Post-war, > 7 Stories

Citywide Building Area: 5.9%	Citywide Building-based GHG: 4.3%
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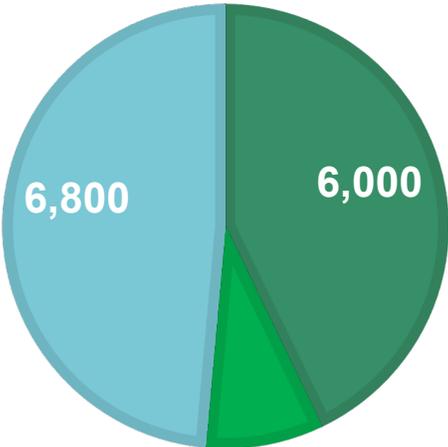
Commercial, Post-war, > 7 Stories

Citywide Building Area: 0.7%	Citywide Building-based GHG: 1.3%
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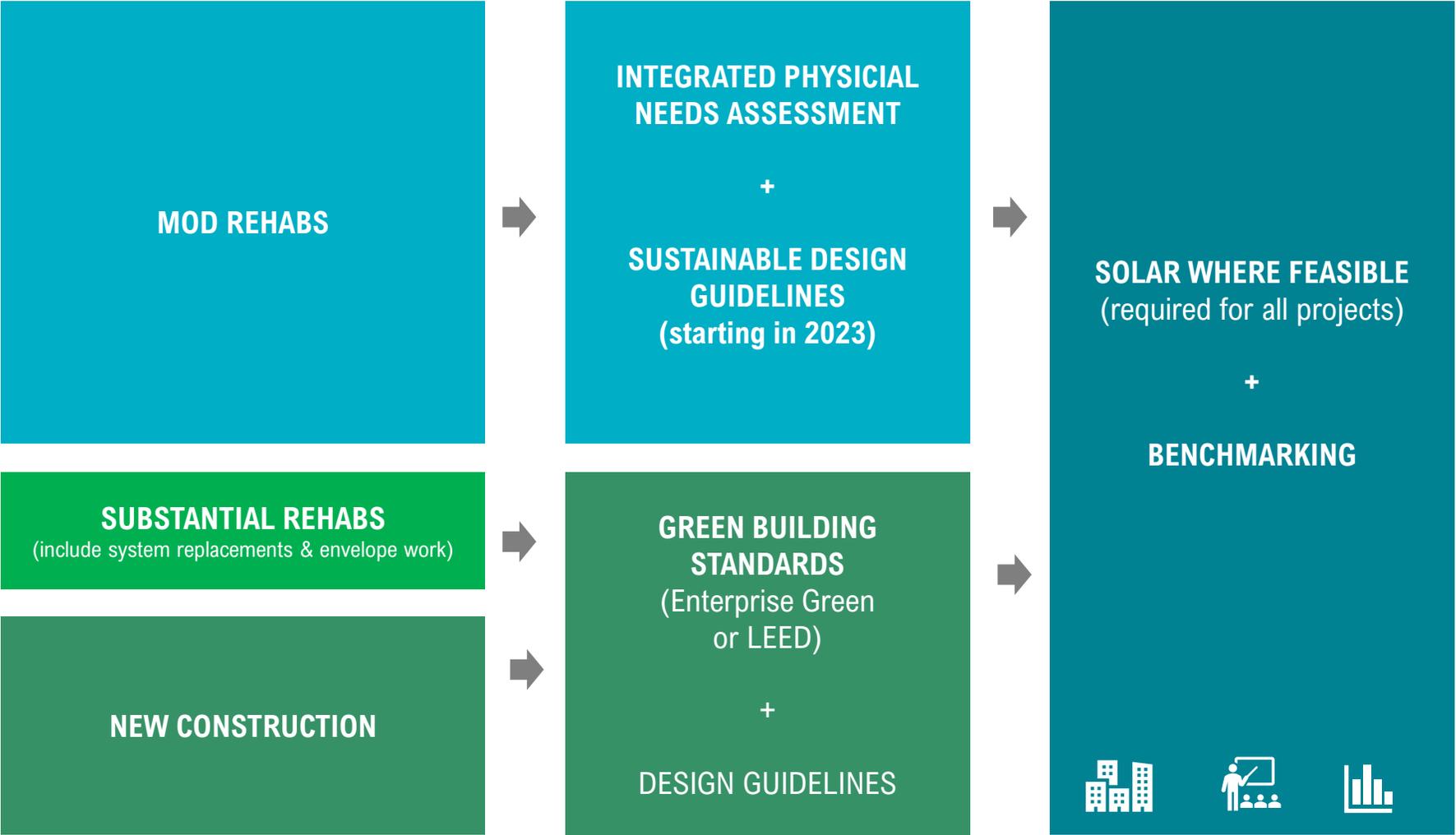
Multifamily, Post-1980, > 7 Stories

Citywide Building Area: 3.3%	Citywide Building-based GHG: 2.4%
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HPD's Sustainability Framework



- New Construction
- Substantial Rehabs
- Moderate Rehabs



2

Solutions

HPD's Green Housing Preservation Program

The **Green Housing Preservation Program (GHPP)** provides low- or no-interest loans to finance energy efficiency and water conservation improvements, lead remediation, and moderate rehabilitation work.

- Projects must reduce energy use by 20% or more
- Participants enter into an affordability agreement with HPD.



HPD-NYSERDA's Retrofit Electrification Pilot

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Design Guidelines

HPD-NYSERDA Retrofit Electrification Pilot



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Building owners receiving HPD financing for rehabilitations of multifamily buildings up to 7 stories that are interested in electrification of Hot Water Heating and/or Space Heating and Cooking may be eligible for funding and technical support through the HPD-NYSERDA Electrification Retrofit Pilot. Projects must meet the criteria listed in the Program Requirements to be considered. Funding will cover incremental costs for electrification and will be granted on a first-come, first-served basis. Funding may be capped on a per-project basis and will be limited to \$1 million per project.



Retrofit Pilot: Samaritan

- 1st Project to Close (this week)
- Tenant-in-Place Retrofit
- Electrification of Heating/ Cooling System
- Envelope upgrades include new windows, and air-sealing
- New ventilation system



NYSERDA's RetrofitNY Program



New York State is taking the next step toward a carbon neutral future, and your building retrofit projects are needed to help make that happen. Under a \$30 million program, RetrofitNY is announcing a second round of funding of \$5 million, through PON 4878, for all electric deep energy retrofit pilot projects targeting the affordable housing stock, that will demonstrate a pathway to carbon neutral buildings through replicable whole building solutions.

[Explore Funding Opportunity](#)

With the development of replicable whole building solutions, these pilot projects will help pave the way to lower costs and increase the adoption of all electric whole building retrofits in the years ahead. Pilot participants will be able to receive \$100,000 in funding for design, and up to \$40,000 per dwelling unit for construction.

In order to apply for funding through PON 4878, building owners need to be qualified through Request for Qualifications RFQL 4552. They will then need to partner with a solution provider qualified through RFQL 4553 and providing an all-electric whole building solution comprised of components qualified through RFQL 4551.

[Building Owner RFQL](#)

[Component Manufacturer RFQL](#)

[Solution Provider RFQL](#)



RetrofitNY: Casa Pasiva

- Phase 1 of Program
- Passive House retrofit of 8 pre-war affordable housing buildings in Brooklyn
- Exterior insulation conceals HVAC ductwork and refrigerant piping
- Tenants remain in place
- 1st Passive House Retrofit for HPD



RetrofitNY: Harlem Retrofit

- Phase 1 of Program
- Proposed tenant-in place Passive House retrofit of 2 adjacent pre-war affordable housing buildings
- Fully Electric w/ exterior insulation & Solar Canopy
- Could not meet cost criteria and had to exit program



RetrofitNY: NYCHA Ravenswood

- Phase 1 RetrofitNY Program
- Exterior insulated panel cladding w high performance windows & roof
- Heat pumps for heating/ cooling ar hot water
- Whole-building Energy Recovery Ventilation
- LED lighting, electric stoves
- Rooftop solar



RetrofitNY: Ravenswood Housing

- Phase 2 RetrofitNY Program
- Exterior insulated panel cladding w/ high performance windows & roof
- Heat pumps for heating/ cooling and hot water
- Whole-building Energy Recovery Ventilation
- LED lighting, electric stoves
- Rooftop solar



NYC's Housing Blueprint of 2022

