

# Equitable Housing Decarbonization

May 24, 2023

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# Benefits + Risks of Building Electrification

# The Benefits of Equitable Building Electrification



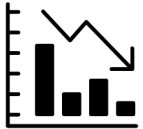
Create thousands of local clean energy sector jobs



Improved indoor and outdoor air quality



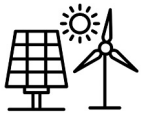
Address longstanding health, safety, and resilience needs



Potentially lower energy bills



Potentially more affordable housing



Invest in creating a local clean energy economy

# Potential Risks of Building Electrification

- Housing/rental cost increases
  - Energy bill increases
  - Tenant harassment/displacement
  - Long-term gentrification and displacement
  - Lack of community trust and buy-in
  - Benefits do not reach tenants or low-income communities
- Pushing smaller landlords out of business
  - Lack of opportunities for minority- and women-owned contracting firms
  - Lack of opportunities for workers of color
  - Inability to create family-sustaining jobs

*...and more*



# Spotlight | Housing and Affordability

**At least 40% of renters are housing cost-burdened\*** in most metro areas across the U.S., and this share is rapidly increasing in many parts of the country.

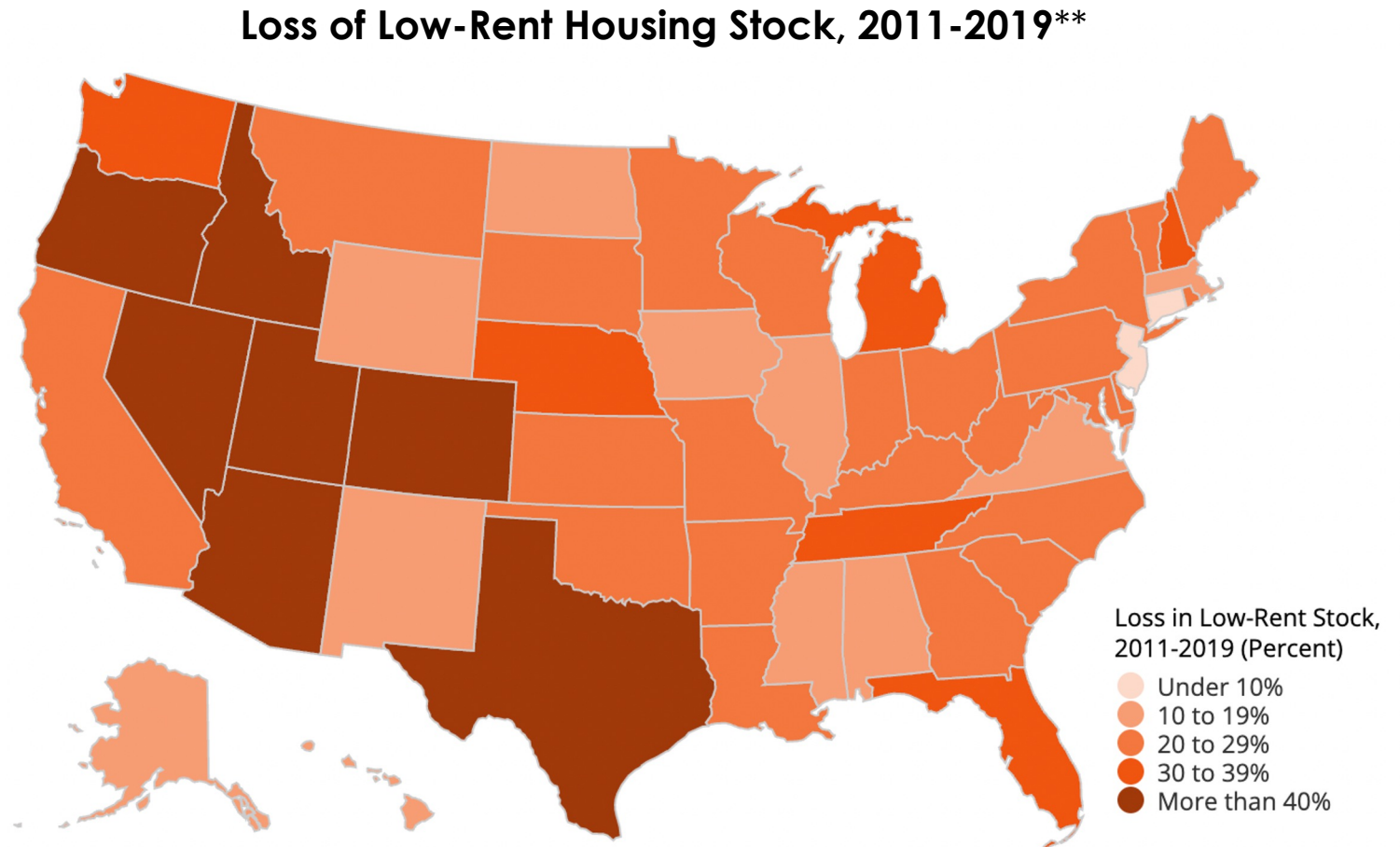


Image Source: Harvard University, Joint Center for Housing Studies

# Spotlight | Health and Safety Needs

**Between 20% to 60% of energy incentive program applicants may be deemed ineligible** for common programs, including the federal weatherization assistance program.\*

**Prevalence of 3+ Maintenance Deficiencies by Housing Type in NYC**

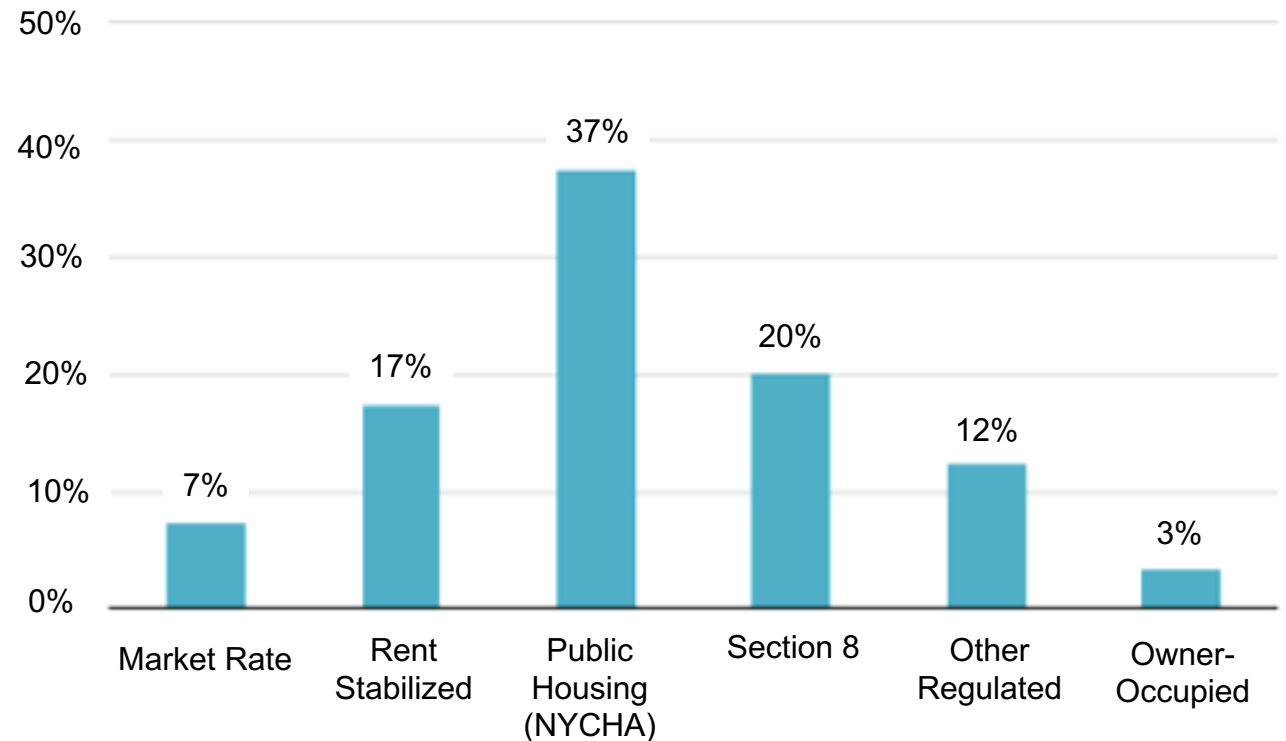
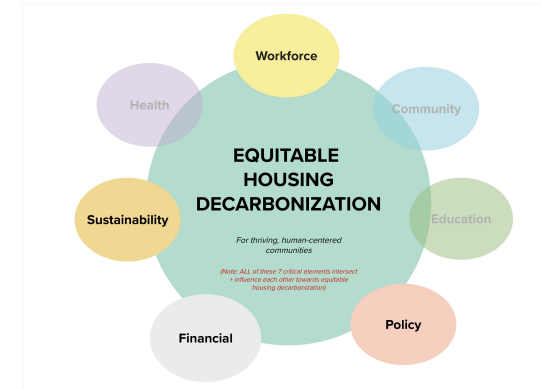


Chart Source: NYC Housing and Vacancy Survey, 2017 vis U.S. Census Bureau and NYC Housing Department of Preservation and Development



# The Need for Existing Building Policy Requirements + Supportive Programs



# Why Create Policies for Existing Buildings?

- Buildings cause public health and safety hazards from air pollution, poor-quality construction, and maintenance deficiencies.
- Buildings contribute substantially to climate change, accounting for up to 70% of GHG emissions in some U.S. cities.
- The current pace of energy improvements in U.S. buildings is inadequate to reach climate goals. Less than 0.3% of multifamily buildings are upgraded annually.\*



# Potential Policy Requirements + Approaches

## For Building Owners:

- Building Performance Standards (BPS)
- Replacement on Burnout Requirement
- Date-certain Equipment Phase-out
- Appliance Emissions Standards
- Rental Efficiency Standards
- Point of Sale Requirements

## Potential Utility-Scale Approaches:

- Electrification Targets
- Strategic Gas Decommissioning
- Utility Scale Geothermal

# Need for Supportive Programs

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- **Public funding is necessary to ensure that retrofit costs are not borne by low-income communities and renters**, which could exacerbate housing affordability and equity concerns.
- **“One-Stop Shop” programs are needed to help building owners complete upgrades and identify funding and financing options.**
- **Electrification retrofits must be paired with energy efficiency, electric readiness, and health and safety retrofits** to holistically address building needs and ensure energy bill savings.

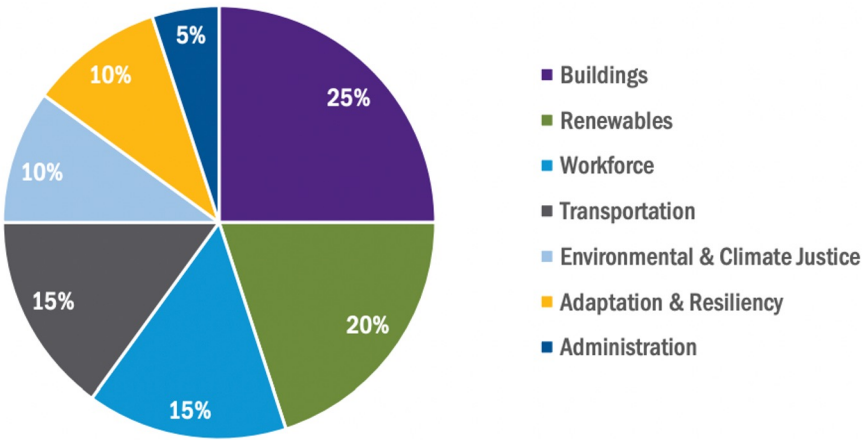
# City Examples

# Denver | Funding for Upgrades

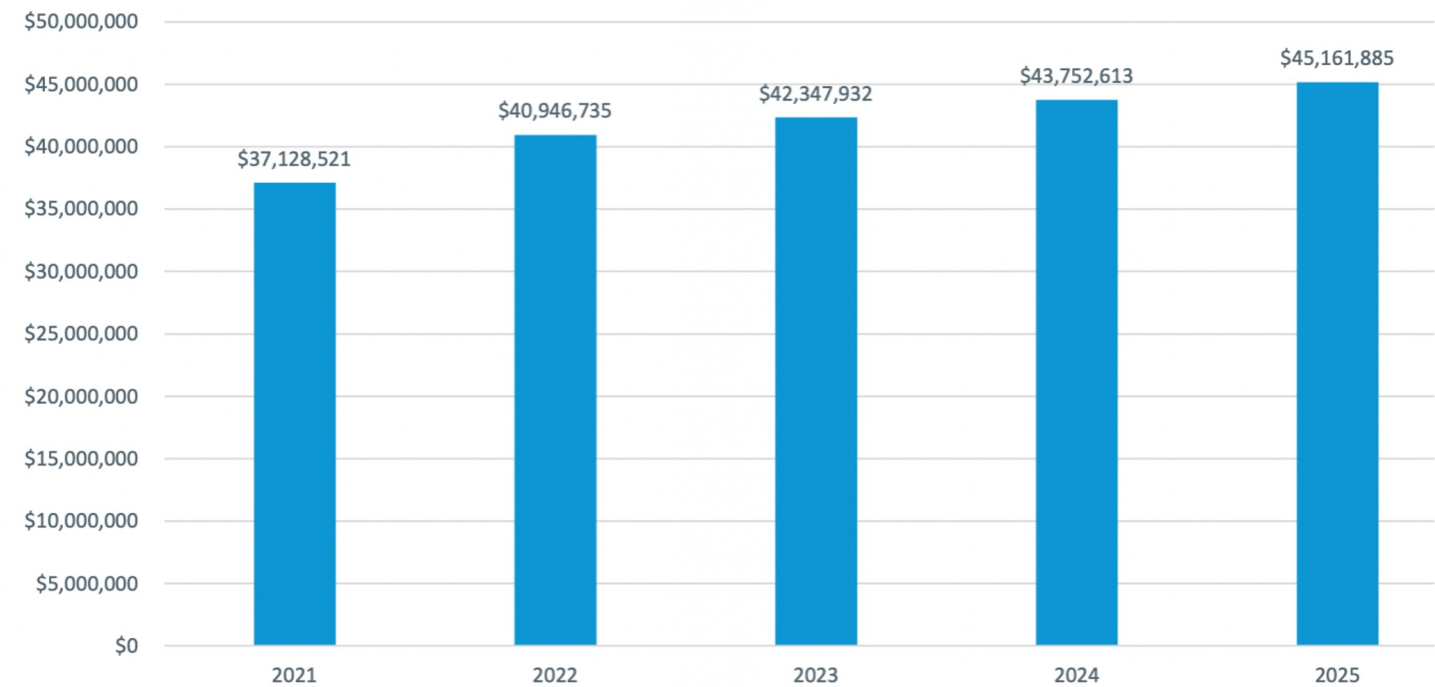
## Denver Climate Protection Fund

**Generates \$40-50 million annually**, with a substantial portion of the funding for building electrification upgrades in under-resourced buildings.

Five-Year Estimated Expenditures by Allowable Use (% of Total)



CPF Revenue Projection



# New York City | Technical Assistance



## Financial & Technical Assistance

Plan, finance, and complete building energy efficiency and renewable energy projects



## Connect with Contractors

Find experienced and qualified contractors in your area



## Understanding Local Laws

Assist building owners and operators to meet LL97 targets and other NYC laws



## Access Incentives

Find incentive awards from local utilities and New York State to help you save costs



## Trainings

Join an online training to improve your skills or learn something new



## Build High Performance

Prepare for the future by building your next project to a High Performance standard





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