



be
ex

Turning Data into Action

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building
energy
exchange

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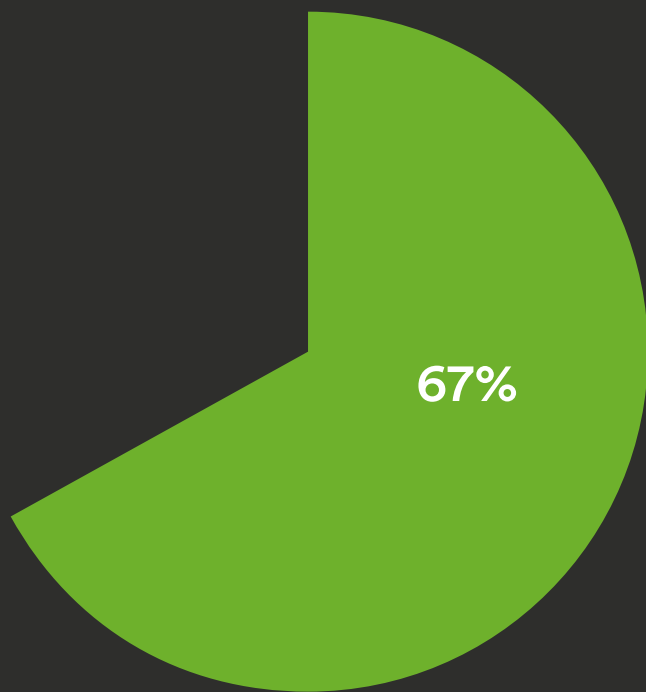


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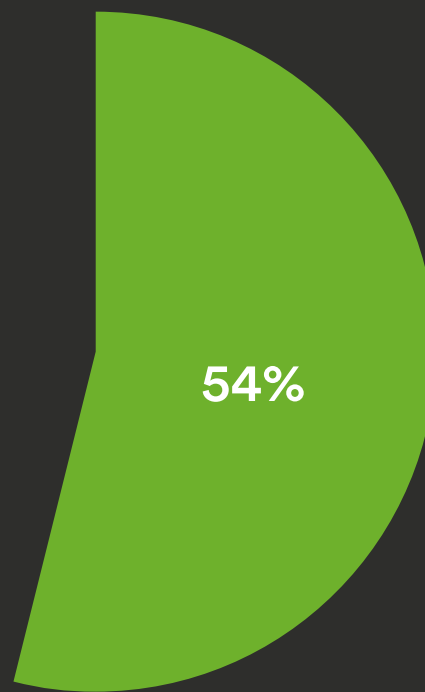


New York City's **multifamily buildings** are a diverse collection of properties that will **play a pivotal role** in meeting our climate change and affordability challenges.

Residential buildings are the majority of 'large' properties in NYC

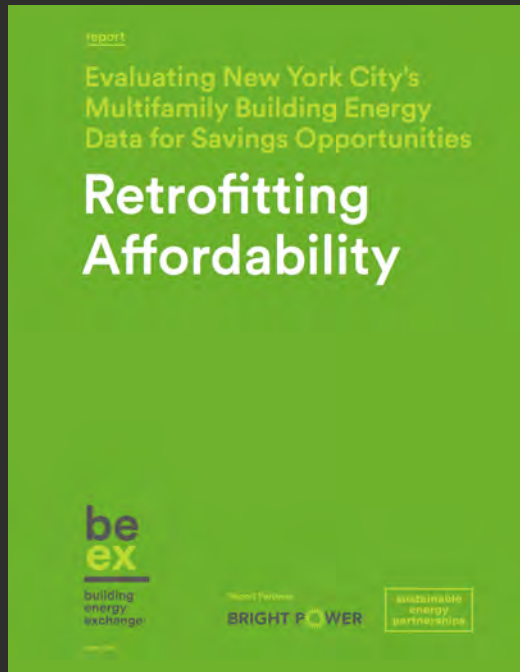


Area



Source Energy

retrofitting affordability



Benchmarking (LL84) & Energy Audit (LL87)

- 1.5 B SF of large multifamily buildings must submit energy data

Savings Opportunity

- 10% energy savings
- 11% reduction in GHG emissions
- \$350 million savings, annually

ECM Opportunities

- 50% of ECM savings in 2 categories:
 - Domestic Hot Water
 - Heating & Distribution Communities
- South Bronx and central Brooklyn concentration of affordable housing stock and big savings opportunities

Post-war Buildings

- More than 50% of citywide savings

data into action

Savings Opportunity

- 11% energy savings
- 11% reduction in GHG emissions
- \$360 million savings, annually

Payback

- Over 50% of ECMs pay back < 5 yrs

ECM Opportunities

- ≈ 50% of ECM savings in 2 categories: Domestic Hot Water Heating & Distribution

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ECM Packages

- Packages of ECMs based on “touchpoints” in a building’s lifecycle

Equipment Replacement

- ECMs to implement when a major piece of equipment fails or needs replacing

Tenant Turnover

- ECMs to implement at time of unit vacancy

methodology



methodology

Segments

age



Pre-war
 < 1947



Post-War
 ≥ 1947



Post-1980
 ≥ 1980

height



Low-rise
 ≤ 7 floors



High-rise
 ≥ 8 floors



Very large

heating
fuel



Electric



Gas



Oil



District Steam