



NextGeneration NYCHA Sustainability Agenda



NYCHA’s Sustainability Agenda is a roadmap for building healthy, sustainable and resilient communities as part of **NextGeneration NYCHA (NextGen NYCHA)**, the Authority’s 10-year strategic plan. The Sustainability Agenda includes 17 targeted strategies (S#), which are meaningful ways NYCHA plans to meet the de Blasio administration’s emission-reduction goals (**One City: Built to Last**) and resiliency and sustainability objectives (**OneNYC**.)

NYCHA SUSTAINABILITY MILESTONES

2016

→ First comprehensive sustainability plan

2015

→ Nation’s largest EPCs for a public housing announced for NYCHA (+\$100M)

→ Smoke-Free housing pledge signed by 85% of 830 Amsterdam Ave. residents

→ Recycling infrastructure installation begins

2013

→ Ground source heat pumps installed at 344 East 28th Street

→ Arbor House (Bronx) first LEED Platinum building constructed on NYCHA property

→ Red Hook urban farm pilot launch

2011

→ \$18 M Energy Performance Contract for 23 developments

NYCHA residents and infrastructure face serious health and safety risks resulting from climate change. The goal of the Sustainability Agenda is to curb the effects of climate change, while also creating healthy and comfortable homes for residents.

NYCHA is committing to the following goals for 2025:

- Systemically eliminate the **root causes of mold** by fixing leaks in roofs, facades, pipes and modernizing ventilation systems
- Ensure **consistent heat and hot water** (prevent unplanned outages and overheating)
- Work to achieve City’s goal of **reducing greenhouse gases** 80% by 2050
- Integrate **resiliency and climate change adaptation** into capital planning
- Incorporate **sustainability into daily management and operations**

ENERGY & EFFICIENCY

Solar & HUD’s Renew300 Commitment

Install commercial-scale (+50kW) rooftop solar projects to provide affordable, reliable power to developments and the grid to generate revenue; NYCHA has pledged to develop 25 MW of renewable energy capacity by 2025 as part of Renew300, a HUD-DOE initiative; and participation in HUD’s Better Buildings Challenge to reduce energy intensity by 20% by 2030 (S2)

Microgrid

Develop distributed clean energy systems (on-site renewable power generation and storage) at Red Hook Houses East and West as part of Sandy reconstruction (S2)

Energy Efficiency Upgrades throughout NYCHA’s Portfolio

Master planned developments: Upgrade heating systems for reliability and efficiency, install new lighting and plumbing fixtures, and modernize ventilation through a series of multi-million EPCs; attract \$300 million in private capital to fund large scale retrofits by 2025 (S9, S1)

Scattered site developments: Leverage the New York State Weatherization Assistance Program and utility-run efficiency programs to reduce energy use with efficiency measures, such as heating, lighting, and window/door upgrades and insulation; secure \$30 million in public and private incentives by 2025 for small buildings at scattered sites (S10, S1)

“Deep” Energy Retrofit

Test a comprehensive whole-building retrofit (compared to retrofits that upgrade one component of the building), which integrates design, multiple air quality and energy efficiencies to the overall building (S17)

Smart Building Technology & Performance Checks

Upgrade existing building automation and energy management systems with integrated utility billing and work order tracking systems; measure the performance of new heating or hot water systems at and after installation, as part of regular inspections to ensure the optimal performance of equipment; and develop enhanced training for heating staff (S4)



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CONSTRUCTION & OPERATIONS

Standards & Planning

Require construction projects to meet design, construction and operation of healthy, energy efficient and environmentally responsible affordable housing standards (Enterprise Green Communities Criteria); provide preference for ultra-low-energy performance proposals; assess climate change associated risks and develop flood resiliency plans to mitigate potential hazards; and identify additional measures to meet the City's emissions reduction goal of 80% by 2050 (S7, S16, S12, S15)

Water & Stormwater Management

Install water meters at all developments; upgrade to water-efficient fixtures; partner with DEP to study water consumption; and connect boilers to automated monitoring systems to detect leaks and other inefficiencies; construct green infrastructure, such as roofs and paving, to manage runoff into sewers; and incorporate stormwater management resiliency measures at Sandy-impacted sites to prevent flooding (S5, S11)

Waste & Integrated Pest Management

Promote NYCHA-wide recycling and study NYCHA waste to create diversion programs as part of the City's goal to reduce waste by 90% by 2030 and eliminate landfill waste by 2050; implement protocols to monitor and address the underlying causes of pest infestation (insects and rodents) with pest-proofing (i.e. plugging holes, managing garbage); and use the least-toxic chemicals for pesticides (S6, S3)

Volatile Organic Compounds (VOC)

Use caulks, paints, varnishes, adhesives and cleaning products with low or no chemicals (VOC) that can easily become airborne and harmful when inhaled (S3)

Healthy Home Turnover Checklist

Implement checklist of measures to eliminate cold air, secondhand smoke, odors and pests in vacant apartments as they are prepared for new tenants (S3)

HEALTHY HOMES & SUSTAINABLE LIVING

Comprehensive Mold Response Initiative

Coordinated inspections and complete mold-case histories in diagnosis of root causes and remediation, including ventilation system and fan upgrades through the EPC, in addition to the \$300 million City-funded roof replacement program to eliminate roof, façade, and plumbing leaks (S3, S8)

Secondhand Smoke

Reduce the exposure to secondhand smoke by improving resident access to support and cessation programs; improve compliance of existing smoking rules; and develop new policies should HUD's smoke-free housing rule be implemented (S3)

Resident/Community Initiatives

Launch an online 'Ideas Marketplace' as a platform to cultivate resident-driven, community-led sustainability projects; strengthen Resident Green Committees through community organization partnerships; expand access to healthy fruits and vegetables through urban gardening partnerships; and connect residents with green job opportunities and sustainable resident-owned business resources (S14, S15)

2011

→ First green infrastructure project at Bronx River Houses

2009

→ Launch of Resident Green Committees with 550 resident participants

2007

→ Compact Fluorescent (CFL) bulb installations begins

2006-11

→ First instantaneous hot water heaters installed at 810 buildings

2001

→ Computerized Heating Automation System (CHAS) pilot program launched

1998

→ \$11.5M Energy Performance Contract for 5 developments

1997

→ NYCHA Energy Department created

1996-99

→ Super-efficient refrigerator competition

1994-2001

→ Low-flow toilet conversion

1988

→ First recycling pilot launched

1974

→ Oil-to-gas fuel conversions

1963

→ First resident gardens at 65 developments

NYCHA Sustainability Milestones