

| Total Commitments | 134 |
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| Completed | 9 |
| In Progress | 90 |
| Not Started | 32 |
| Canceled | 3 |

| | Commitment | Status | Progress (April 2022) | |
|------------|--|------------------------|--|--|
| Goal 1 | Goal 1 Reduce greenhouse gas emissions by 80 percent by 2050 | | | |
| Strategy 1 | Implement NYCHA's GHG reduction roadmap | | | |
| 1.1 | Achieve near-term carbon savings through EPCs | | | |
| 1.1.1 | Finance \$300M in EPC projects | In Progress | Submitted a \$62 million EPC project to U.S. Department of Housing and Urban Development (HUD) in April 2022. | |
| | | | GHG Reduction - NYCHA's annual 2021 GHG emissions dropped 13% from 2005 levels. | |
| 1.2 | Participate in programs that drive innovation | | | |
| 1.2.1 | Participate in EDC's RFP for the Proptech program | In Progress | In 2021, NYCHA worked with New York City Economic Development Corporation (EDC) to award JLL and UrbanSense a contract to vet and source new Proptech vendors for pilots at NYCHA buildings. NYCHA is now working with EDC to procure a program management vendor who will implement the selected technologies at NYCHA properties. | |
| 1.3 | Ramp up energy usage intensity reductions as pa | rt of the Better Build | ings Challenge | |
| 1.3.1 | Improve energy efficiency by 20% over 10 years | Not Started | Not started. | |
| Strategy 2 | Advance electrification and deep energy retro | ofits | | |
| 2.1 | Complete RetrofitNY net-zero energy project | | | |
| 2.1.1 | Design and construct RetrofitNY project at Ravenswood | In Progress | In 2021, NYCHA completed the design phase of its RetrofitNY pilot. Cycle Architecture provided design for a net Zero-Energy retrofit at Ravenswood building 12. In March 2022, NYCHA released a procurement for construction services to make the design a reality. Bids are due at the end of June 2022, and an award is expected soon after. Construction is expected to start in Fall 2022. | |
| 2.2 | Deliver a design-build program to electrify building | g heating systems | | |
| 2.2.1 | Complete Heating Design-Build projects at 11 developments | In Progress | In the Sustainability Agenda, NYCHA committed to completing Design-Build projects at 8 developments; however, the number has increased to 11. Seven of the 11 developments Design-Build agreements have been executed: - Brownsville - Saratoga Village - Ocean Hill - Eastchester - Jackson - Tilden - Pink | |
| 2.2.2 | Identify innovative future-looking heating and hot-water-making technologies | In Progress | NYCHA's Decarbonization Map was updated in April 2022. NYCHA plans on updating the map every 6 months as better applications are established. | |



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| Goal 1 | Reduce greenhouse gas emissions by 80 percent by 2050 | | |
| Strategy 2 | Advance electrification and deep energy retro | ofits | |
| 2.3 | Complete the Packaged Window Heat Pump Chall | enge with NYPA and | NYSERDA |
| 2.3.1 | Complete Clean Heat for All Challenge | In Progress | In the Sustainability Agenda, the implementation was originally titled: "Complete the Packaged Window Heat Pump Challenge with NYSERDA"; the change was made to include New York Power Authority (NYPA). In 2021, NYCHA worked with NYPA and NYSERDA to issue an RFP to manufacturers seeking a cold climate heat pump that can be installed through a window. In March 2022, six proposals were received. They will be reviewed by a scoring committee made up of the three agencies and a purchase order for 24,000 units will be awarded in the Summer 2022. |
| 2.3.2 | Launch industrial design competition to improve in-unit & outdoor appearance of cold climate air-source heat pumps | Not Started | Not started. |
| 2.4 | Implement optimal heating and hot water upgrade | s | |
| 2.4.1 | Prioritize developments based on heating system replacement needs and geographic suitability | In Progress | NYCHA's Decarbonization Map was updated in April 2022. NYCHA plans on updating the map every 6 months as better applications are established. |
| 2.5 | Identify buildings that can be fully electrified quickly | | |
| 2.5.1 | Determine buildings that are suitable for heat pump conversions with existing technology | Complete | NYCHA's Decarbonization Map released with the Sustainability Agenda in September 2021, and identifies locations suitable for heat pump conversions. The first update was released in April 2022, with further updates happening every 6 months. |
| 2.5.2 | Obtain funding to retrofit & electrify buildings | In Progress | NYCHA is investigating financing water and energy saving from CompMod funding. |



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| Goal 1 | Reduce greenhouse gas emissions by 80 percent by 2050 | | |
| Strategy 2 | Advance electrification and deep energy retrofits | | |
| 2.6 | Leverage PACT Program to drive investment in el | ectrification and dee | p energy retrofits |
| 2.6.1 | Prioritize energy efficiency and sustainability by including electrification and deep energy retrofits | In Progress | PACT Round 8 and 9 required greenhouse gas reduction and electrification analyses. PACT Round 10, 11, and 12 RFEIs have required partners to include electrification and deep energy retrofit scenarios in their proposals, along with long-term electrification plans where electrification at the time of conversion is not feasible. As of PACT Round 10, RFEI requirements to prioritize as a baseline decoupling space heating from domestic hot water production, incorporating back-up power, and decentralizing have been strengthened. Deep energy retrofit scope prioritized includes envelope upgrades with continuous insulation and cladding at the exterior, or insulation at the interior to meet or exceed code, including installation of high-performance windows and integrated shading; roof replacement to meet or exceed code; comprehensive air-sealing; installation of efficient mechanical systems, whether fuel fired or electric; installation of electric stoves; Enterprise Green Communities certification is required of all projects entering the PACT program since a base sustainability program requirement was implemented in 2017. LL97 compliance is required of all projects entering the PACT program. |
| 2.6.2 | Pursue aggressive emissions reductions measures | In Progress | PACT Brooklyn Bundle (Project completion 2021): upgrades to hydronic condensing boilers. Williamsburg (PACT Round 8, Under Construction): upgrade to centralized hydronic condensing boilers with updated distribution Penn Wortman Houses (PACT Round 8, Under Construction): centralized VRF heat pumps for decoupled Domestic Hot Water Linden Houses (PACT Round 8, Under Construction): Brick repair with new EIFS cladding and window wall façade system at existing breezeways Boulevard Houses (PACT Round 8, Under Construction): centralized VRF heat pumps for decoupled Domestic Hot Water Harlem River Houses (PACT Round 8, Under Construction): centralized VRF heat pumps for heating and cooling and Harlem River II (PACT Round 8, Under Construction): unitized heat pumps (Ephoca HPAC) for heating and cooling, brick repair with new EIFS cladding Audubon, Bethune, and Marshall (PACT Round 8): centralized VRF heat pumps for heating and cooling, brick repair with new Fundermax duromer high-pressure laminates (HPL) cladding at Marshall Plaza |
| 2.6.3 | Explore implementing the proper infrastructure to seamlessly switch to electricity as a fuel source | In Progress | PACT Round 10, 11, and 12 RFEIs have required partners to include and price electrification-ready infrastructure in their long-term electrification plans where electrification at the time of conversion is not feasible. |
| 2.6.4 | Require to submeter all residential units in master-metered buildings | Canceled | NYCHA has required this in prior PACT projects but will not be requiring this going forward until a program that incentivizes changes in resident behavior to lower energy usage justifies the capital investment |



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| Goal 1 Reduce greenhouse gas emissions by 80 percent by 2050 | | | | |
| Strategy 3 | Expand distributed energy resources | | | |
| 3.1 | Expand the Community Shared Solar progran | 1 | | |
| 3.1.1 | Install 30MW of solar | In Progress | Construction has completed for NYCHA's first two solar leases, totaling 3 MW of capacity across 5 developments. Up to an additional 8 MW of solar leases are currently in development. | |
| | | | At PACT sites, 2.216MW of solar power have been installed at 7 developments, and 1.483MW are under construction at another 2 developments. | |
| 3.1.2 | Update estimates for NYCHA's rooftop solar potential | In Progress | NYCHA is currently in the process of updating its information on solar-ready roofs. | |
| 3.1.3 | Release solar RFPs | In Progress | NYCHA is planning on releasing its third solar solicitation later in 2022. | |
| 3.1.4 | Strengthen renewable energy commitments in PACT solicitations | In Progress | RFEI Language has been updated and REDD requires Electrification & Solar Analysis and Long-Term Emissions Reduction Plan for each PACT development prior the designation to analyze the feasibility of replacing fossil fuel-powered systems such as those used for space heating, water heating, cooking, laundry with electrified technologies and on-site generation. | |
| 3.2 | Invest in battery storage | | | |
| 3.2.1 | Explore methods to use solar power and battery storage to help provide on-site resilience | Complete | In 2021, NYCHA engaged two Environmental Defense Fund (EDF) fellows to explore the feasibility of incorporating on-site battery storage into future projects. This study explored: - Financing options - Technologies - Permitting processes | |
| | | | It modeled how batteries could either be used to provide backup power to critical loads such as elevators and health equipment or provide financial benefits in the form of demand response participation. | |
| 3.2.2 | Assess potential projects for implementation | In Progress | NYCHA is working with NYPA and NREL on a study to assess the cost and feasibility of installing solar plus storage for critical loads (focusing on elevators and the community center) at two buildings at Borinquen Plaza. This study will result in an RFP for NYCHA's first solar plus storage project to be released this year. | |
| Strategy 4 | Expand electric vehicle program | | | |
| 4.1 | Expand electric vehicle adoption and charging | g infrastructure | | |
| 4.1.1 | Purchase additional electric vans and trucks as outlined in NYCHA's Clean Fleet plan | In Progress | NYCHA's General Services department is going over its current budget to incorporate pure EVs that are available through OGS or State contracts that will meet replacement needs as necessary - such as SUVs, cargo vans etc. as they become available. | |
| 4.1.2 | Double NYCHA's EV fleet | In Progress | NYCHA placed an order for 15 Chevy Bolts in 2021; this order will be received by the end of 2022. | |
| 4.1.3 | Install its first EV chargers available for public use | In Progress | NYCHA has identified Cypress Hills and Baisley Park as pilot sites for the Authority's first public EV chargers and is working with ConEd to make the necessary electrical upgrades. | |



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| Goal 2 | Cultivate healthy and resilient communities based on design excellence | | |
| Strategy 5 | Update the NYCHA Design Guidelines and adopt sustainability standards | | |
| 5.1 | Update the Design Guidelines | | |
| 5.1.1 | Update the 2016 Design Guidelines | In Progress | NYCHA is working with Imaginit to update and unify CAD/BIM standards across the Design department. The CAD/BIM Standards initiative is aimed at improving the consistency of design documentation, automating standard tasks, aligning print protocols and documentation for internal and external consultants. It will also streamline our methods for sharing and setting requirements for design documentation with consultants. |
| | | | NYCHA is in the early stages of updating our Design Standards - currently meeting with internal stakeholders to gather information. |
| 5.2 | Incorporate health and sustainability-related | elements into Physic | al Needs Assessments |
| 5.2.1 | Consider "green" costing opportunities for potential energy conservation and beneficial electrification measures at every development | In Progress | New PNA contract anticipated award is Spring 2022, which includes costing for energy savings and decarbonization opportunities. |
| Strategy 6 | Ensure healthy and hazard-free indoor environments | | |
| 6.1 | Expand mold management program to address water infiltration through capital upgrades | | |
| 6.1.1 | Identifying buildings that require large-scale capital upgrades to eliminate water intrusion and resulting mold growth | In Progress | NYCHA, in collaboration with Independent Data Analyst (IDA), is working to adopt the Building Line Tool (developed by IDA) to identify the most impacted building lines, initiate the repair work (e.g.: Building Line Initiative by OMAR) and prioritize capital work based on the highest needs. |
| 6.1.2 | Establish a capital flag feature in work orders | In Progress | NYCHA continues to work with IDA develop the process to flag capital needs on development level and inform Capital Projects Division (CPD). Once adopted, the capital flag solution will allow: NYCHA property management staff to identify and flag capital needs during the initial inspection. Create a follow up review by the certified mold professional. Provide an interim repair or enable temporary resident relocation while pending completion of work (when feasible). Notify the Capital Project Division (CPD) of capital needs. Utilize the Building Line Tool to prioritize capital work. |



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| Goal 2 | Cultivate healthy and resilient communities based on design excellence | | |
| Strategy 6 | Ensure healthy and hazard-free indoor environment | onments | |
| 6.2 | Upgrade mechanical ventilation systems for r | nold prevention | |
| | | | Roof Fan Replacement Program - NYCHA's Office of Mold Assessment and Remediation (OMAR) completed 93% of work. Of 8,441 roof fans assigned to OMAR, 5,672 roof fans were installed and 2,208 roof fans were retained. |
| 6.2.1 | Perform portfolio-wide ventilation upgrades | In Progress | Clean Ventilation Initiative - OMAR completed the cleaning in 70% of the units with mechanical ventilation assigned to OMAR. Of 104,821 units assigned to OMAR, 17,708 (17%) were confirmed as not having mechanical ventilation and 61,044 units were cleaned To date, OMAR attempted to clean 100% of assigned to it units 25,758 units were attempted but were not able access. OMAR is returning to these units as part of the 3rd attempt to clean in-unit vents |
| 6.2.2 | Publish a new standard procedure for monthly roof fan inspections | Complete | On July 30, 2021 NYCHA has published the Roof Fan Inspections at NYCHA Residential Buildings Standard Procedure (SP 050:21:1) |
| 6.3 | Replace roofs and parapets | | |
| 6.3.1 | Replace leaking roofs and parapets at 135 developments | In Progress | For roof and parapet replacement: - 35 Developments 203 Buildings in Design Phase - 8 Developments 28 Buildings in Procurement Phase - 5 Developments 73 Building in Bidding Phase |
| 6.4 | 6.4 Test new cost-saving technologies to reduce water infiltration and seal façades to prevent leaks | | |
| 6.4.1 | Test breathable mineral coating technologies to coat façades that will prevent leaks and water infiltration | Not Started | Not started. |



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| Goal 2 | Goal 2 Cultivate healthy and resilient communities based on design excellence | | | | |
| Strategy 6 | 6 Ensure healthy and hazard-free indoor environments | | | | |
| 6.5 | Implement a standard procedure for leaks | | | | |
| 6.5.1 | Create a NYCHA-wide standard procedure for leaks to address the root causes of floods, leaks, and excessive moisture | In Progress | In December 2021, NYCHA launched the Leak Standard Procedure pilot 2.0 at Brevoort, Low, Roosevelt I and II Houses. The pilot introduced: - Enhanced intake process for leaks to help a resident better document the condition and severity when submitting a work order in Siebel (CCC) and MyNYCHA. - Enhanced leak inspection workflow to capture NYCHA compliance with 24 and 48 hour requirements, document the root cause(s) of the condition and select appropriate repair method, and link any repair needed for additional unit to the initial (parent) work order. - Updated procedure for performing wall breaks, pipe insulation and fire-stopping work developed in collaboration with Independent Mold Analyst (IMA). | | |
| 6.6 | Implement an informational campaign for res | idents on mold awar | eness | | |
| 6.6.1 | Roll-out an information campaign to educate residents to identify, prevent, and report mold growth | Complete | NYCHA's Resident Engagement Department (RED) continued to proactively engage with residents during 2021 by undertaking the following activities: - Conducted outreach during the months of October-December 2021 to various developments that were engaged in the Tenant Associations election process. - Engaged a total of 21 residents with the mold booklet and collected information for follow up with development staff. - Mold Busters website (https://on.nyc.gov/mold-busters) is being promoted through social networks weekly to ensure residents are continuously aware of NYCHA efforts to tackle mold and leaks. - All of the mold collateral is made available on the website for residents to review. | | |
| 6.7 | Perform lead outreach and remediation | | | | |
| 6.7.1 | Develop a project execution plan that will take a phased systematic approach to remove lead | In Progress | NYCHA is development of a plan to perform lead remediation. | | |
| 6.7.2 | Remove lead-based paint in 50% of apartment units and common interior areas | In Progress | See 6.7.1. | | |
| 6.8 | Complete XRF testing and lead-based paint re | eporting | | | |
| 6.8.1 | Perform X-ray fluorescence (XRF) testing of 134,084 units built before 1978 | In Progress | On December 1, 2021, the New York City Department of Housing Preservation and Development (HPD) issued a regulation changing the definition of lead-based paint from paint with lead content measured at 1.0 mg/cm2 to paint with lead content measured at 0.5 mg/cm2 for purposes of New York City's Local Law 1. The XRF testing initiative was based on the old standard of 1.0 mg/cm2. To date, LHCD has attempted 5,285 units and complete an inspection in 5,080 units out of the 32,225 child under 6 units. | | |



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| Goal 2 | Goal 2 Cultivate healthy and resilient communities based on design excellence | | | | |
| Strategy 6 | Ensure healthy and hazard-free indoor enviro | nments | | | |
| 6.9 | Perform gut rehabs to address mold and lead | comprehensively | | | |
| 6.9.1 | Renovate entire developments to bring them to a state of good repair at sites where mold is pervasive | In Progress | Resident Engagement has started for both Saint Nicholas and Todt Hill. | | |
| 6.10 | Eliminate elevator outages | | | | |
| 6.10.1 | Replace 275 of the worst-performing elevators | In Progress | NYCHA is in progress of replacing its elevators. | | |
| 6.10.2 | Repair or replace 1,000 elevators through the PACT program | In Progress | Elevator modernization is a requirement of the PACT program and assumed for all projects that enter the PACT program. 209 elevators have been replaced/being replaced: 112 elevators have been installed, and 97 are under construction. | | |
| 6.10.3 | Study solar power, battery storage, and regeneration measures to ensure service continuity and reap energy savings | In Progress | NYCHA is prioritizing backup power to elevators in its study for solar plus battery storage at Borinquen Plaza. | | |
| 6.11 | Adopt Integrated Pest Management | | | | |
| 6.11.1 | Adopt Integrated Pest Management | Complete | Enhance IT Systems - In November 2021, NYCHA launched a Handheld Enhancements webinar for staff. The webinar focused on improving efficiency of executed Extermination Work Orders in Maximo and obtain compliance with federal mandates. Provide Guidance to all staff - Quarterly, the Pest Control department hosts an Introduction to Integrated Pest Management to newly hired staff across the Authority in an effort to bring awareness to the Authority's approach to Pest Management. Quick reference guides - The department has launched a Toolkit in the NYCHA Portal that is accessible to all staff. The portal provides reference guides on the following: - Integrated Pest Management Overview - Door Sweep Installation - Burrow Collapsing - Moveouts - Frequently asked Questions - Preventing Pests at Home - Pesticide labels - HEPA Vacuum Guidance - IPM supplies IT fixes and training are continuous, but the commitment is complete. | | |



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| Goal 2 | Goal 2 Cultivate healthy and resilient communities based on design excellence | | | | |
| Strategy 6 | Ensure healthy and hazard-free indoor envir | onments | | | |
| 6.12 | Reduce exposure to secondhand smoke | | | | |
| 6.12.1 | Promote resident leaders and activate the Smoke-Free NYCHA Liaison team | In Progress | Expanded Smoke-Free Liaison services to all 5 boroughs - 83 on site events - Hosted 5 virtual resident leadership events with partners - Conducted proactive outreach to 194 households with a recorded smoke-free policy violation Closed out installation of approx. 8,000 signs in support of Smoke-Free policy and goals Retrained 360 property management staff members in policy enforcement | | |
| 6.13 | Ensure every NYCHA family with a newborn | or infant has a safe h | ome and is connected to available supportive resources | | |
| 6.13.1 | Implement a program to identify and address potential hazards in apartments of expecting families or with a child under one | Complete | The Healthy Start @ NYCHA program was launched at a Baby Shower Resource Fair event held on March 5, 2022. | | |
| 6.13.2 | Evaluate the conditions of apartments for key environmental hazards | Not Started | Not started. | | |
| 6.13.3 | Provide educational information on best practices for maintaining a hazard-free environment, babyproofing tips and other additional resources | In Progress | Starting in January 2022, NYCHA residents who are expecting can voluntarily disclose a pregnancy via the Authority's Self-Service Portal. This information helps NYCHA create safer homes for children and keep families up to date with information and available resources. | | |
| 6.14 | 6.14 Partner with health care and community based health organizations to improve asthma outcomes of NYCHA residents | | | | |
| 6.14.1 | Expand targeted collaboration with health partners to ensure residents are optimally connected to education and services | In Progress | NYCHA is advancing a series of community health worker partnerships under the NYCHA Health Works initiative umbrella. NYCHA Health Works helps create pathways for NYCHA residents into preventive health careers and brings partner-led health resources to targeted NYCHA developments. NYCHA will launch recruitment for a Health Care Partnership Manager in April 2022. The person in this role will be responsible for implementing this commitment. | | |



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| Goal 2 | 2 Cultivate healthy and resilient communities based on design excellence | | | |
| Strategy 7 | Expand the Green Infrastructure program | Expand the Green Infrastructure program | | |
| 7.1 | Continue to expand green infrastructure inve | stments in CSO area | s | |
| | | | Phase I - All sites continue to receive routine bi-weekly maintenance. The bioretention area at Hope Gardens will be replanted in spring 2022. | |
| 7.1.1 | Complete green infrastructure projects at 42 developments with DEP | In Progress | Phase II - 15 of 19 sites have reached substantial completion and are in the closeout phase 1 site is in active construction. Substantial completion is expected in Spring 2022 3 sites are in pre-construction and expected construction kickoff is in Spring 2022. | |
| | | | Phase III - All 16 sites have reached 75% or 100% design - Design review meetings have been conducted at all but 3 sites - Bid packages for all sites are being developed and will be released by NYCHA | |
| 7.2 | Address flooding beyond CSO areas | | | |
| | | | South Jamaica Houses cloudburst - 100% designs have been completed - Bid packager is being developed and will be released by NYCHA | |
| 7.2.1 | Mitigate flooding and water infiltration on properties citywide | In Progress | Clinton House cloudburst - PDM grant has been completed and submitted and NYCHA is in the process of receiving reimbursement from FEMA - Dewberry Engineering was hired by DEP to develop full project design - Dewberry Engineering and Grain Collective will work with NYCHA to conduct community engagement that informs final design | |
| 7.2.2 | Ensure compliance with new Unified Stormwater Rule (USWR) and understand implications for future projects | In Progress | NYCHA is working to ensure that USWR is incorporated into all green infrastructure projects - discussions have been underway with DEP. | |
| 7.2.3 | Develop a standard operating procedure for cleaning storm sewers | Not Started | Not started. | |



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| Goal 3 | Goal 3 Empower residents through community activation and workforce development | | | |
| Strategy 8 | Connect residents to workforce developmen | t and entrepreneur | ship opportunities | |
| 8.1 | Expand service-learning programs to connec | t youth to emerging | jobs in sustainability | |
| 8.1.1 | Work with Green City Force (GCF) to expand youth workforce development opportunities | In Progress | GCF is working with NYCHA Capital Projects, Energy Programs to on the potential to transition heat sensor work from Energy Service learning to workforce opportunities. In March 2022, GCF launched EmPower at NYCHA, developing a 10 site pilot with the goal of keeping a long-term partnership. Aiming to employ 12 GCF alumni for a 10 month period. Partnered with REES to place alumni in union apprenticeship with Local 1, had 2 referred and start, 1 successfully continuing beyond initial training. | |
| 8.1.2 | Place 80% of GCF participants employment opportunities within the green economy or advanced education opportunities, including either post-secondary degree programs, national certifications, or a combination of both | In Progress | In the Sustainability Agenda, NYCHA and GCF committed to placing 90% GCF participants in clean energy roles. GCF is now committed to placing 80% of participants in employment opportunities in the green economy. Summer - Fall 2021 launched Cleanup Corps projects: - Compost Power - increasing and improving composting capacity at EcoHubs, in addition to building and supporting community-led composting - Tree Inventory - completed another round of tree inventory and presented findings to key stakeholders. Leveraging funds from The Nature Conservancy to start another round of inventory in April 2022. Alumni received citizen pruner certification. Long-term, aiming to leverage ongoing support of The Nature Conservancy to support a fall tree inventory project focused on expanding NYCHA's tree canopy - providing training on tree planting and care, in addition to tree plantings and increased resident education | |
| 8.1.3 | Double GCF's program offerings including AmeriCorps recruitment, employment opportunities, and national program placement | In Progress | See 8.1.2. | |
| 8.2 | Expand resident hiring through Community S | Shared Solar workfor | ce development program | |
| 8.2.1 | Increase resident hiring on solar projects as projects are added to pipeline | In Progress | No update. | |



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| Goal 3 | Goal 3 Empower residents through community activation and workforce development | | | | |
| Strategy 8 | Connect residents to workforce development | and entrepreneur | rship opportunities | | |
| 8.3 | Support resident-led businesses and entrepre | eneurship | | | |
| 8.3.1 | Connect resident-owned firms with business opportunities | In Progress | In partnership with the Fund for Public Housing, NYCHA engaged a consultant to create a framework for a future NYCHA Business School. NYCHA REES also resumed resident business development orientations to learn about resident business interests and to connect them to the appropriate services and continued to connect Business Pathways alumni with market access opportunities in the food and childcare industries. | | |
| 8.3.2 | Connect residents to business development programming to provide support with business planning and education to grow ideas | In Progress | NYCHA launched Construction Business Pathways, an accelerated business development program for NYCHA residents who seek to start or grow their construction business. The first cohort launched in October 2021 with 29 enrollees. | | |
| 8.3.3 | Revise NYCHA procurement language to improve access to opportunities for resident- owned businesses | In Progress | As per the Procurement Policy Manual (PPM) and in compliance with 24 CFR 963.10(d), NYCHA is permitted to solicit contracts with public housing resident-owned businesses, providing the business has not received one or more contracts with a total combined dollar value of \$1,000,000 as a result of the alternative procurement process to preference resident-owned businesses. NYCHA will look to create pre-qualified list of resident-owned businesses by category to solicit through this process. | | |
| 8.3.4 | Support resident entrepreneurship through cultivating and supporting GCF alumni entrepreneurs | In Progress | Continue to leverage the Social Enterprise to build capacity for the alumni-led entrepreneurship. Current example being Compost Power - accomplished in 2022 and ongoing. Collaborated with the Inner City Green Team at Wagner Houses to support increasing resident recycling - accomplished in 2022 and ongoing. | | |
| 8.4 | 8.4 Establish a NYCHA Clean Energy Academy | | | | |
| 8.4.1 | Work with partners to secure funding for the Clean Energy Academy | In Progress | NYCHA is working on finalizing a funding agreement for the Clean Energy Academy. NYCHA and FPH are developing a final scope of work and confirming additional funding support. | | |
| 8.4.2 | Implement the NYCHA Clean Energy Academy and train 250 residents in green jobs | Not Started | Not started. | | |



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| Goal 3 | Goal 3 Empower residents through community activation and workforce development | | | |
| Strategy 9 | trategy 9 Mobilize community activation through resident-led sustainability programming | | | |
| 9.1 | Implementation of a resident-led recycling pro | ogram at Wagner Ho | uses | |
| 9.1.1 | Implement Inner City Green Team (ICGT)'s recycling program at Wagner Houses | In Progress | NYCHA is is contract negotiation with ICGT and discussing drop off location options. | |
| 9.2 | Implementation of a sustainability grant progr | ram for residents | | |
| 9.2.1 | Implement a grant program to fund resident-led sustainability projects | In Progress | In partnership with FPH, NYCHA is identifying funding to support resident sustainability projects. | |
| 9.2.2 | Organize programming to help build a community around environmental activism | In Progress | NYCHA is surveying and re-engaging current social infrastructure for climate action across NYCHA; reached out to Climate Action Network, Resident Green Committees, and Youth Leadership Council groups. | |
| 9.3 | Implementation of a Campaign for a Clean NY | СНА | | |
| 9.3.1 | Roll-out Campaign for a Clean NYCHA at 5 pilot developments | Complete | Evaluation completed December 2021 . | |
| 9.3.2 | Evaluate pilot roll-out and make modifications | In Progress | Results are being drafted and post-evaluation resident survey being conducted. Results expected spring 2022, suggestions on edits to follow. | |
| 9.3.3 | Deploy program to all developments | Not Started | Not started. | |
| 9.4 | Improve transparency and improve resident e | ngagement through | public procurement | |
| 9.4.1 | Engage residents in the planning phase of the procurement process to enable more equitable outcomes | Not Started | Not started. | |
| 9.4.2 | Share drafts of key Energy and Sustainability department procurements for public review and comment | Not Started | Not started. | |
| 9.4.3 | Share forecasts of upcoming Energy & Sustainability procurements annually | Not Started | Not started. | |
| 9.4.4 | Facilitate small businesses participation in NYCHA procurements | In Progress | NYCHA vendors are contractually obligated to adhere to Section 3 requirements. For certain types of vendors that are exempt from Federal Section 3 requirements and that do not project labor hours for Section 3 workers or Targeted Section 3 workers, NYCHA requires that they complete an Other Economic Opportunity (OEO) Plan. In addition, NYCHA will be implementing the Request for Qualifications procurement method to pre-qualify vendors for inclusion on a Pre-Qualified List (PQL) for various categories. This will provide an opportunity for vendors to submit qualifications earlier in the procurement process and if pre-qualified, receive both small and large contracting opportunities via solicitations released exclusively to PQL vendors. NYCHA intends to establish PQLs at the borough or neighborhood level and preference will be given to Section 3 and Minority-and Woman-owned Business Enterprises on small procurements solicited via the PQL. | |



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| Commitment | | Status | Progress (April 2022) | | |
|-------------|---|--------------------|---|--|--|
| Goal 3 | Goal 3 Empower residents through community activation and workforce development | | | | |
| Strategy 10 | Expand NYCHA farms, gardens, and urban ag | griculture program | s | | |
| 10.1 | Expand NYCHA farms and gardens | | | | |
| | | | NYCHA currently has 7 operational farms. The 7 Farms at NYCHA sites have provided food security support throughout the pandemic. In 2021, farm achievements included the distribution of over 22,000 pounds of free, fresh produce grown by and for residents at farm sites, and collection of nearly 3,600 pounds of food scraps for composting. | | |
| 10.1.1 | Expand the number of farm sites to 15 ensuring | In Dragrage | NYCHA is in discussions to create its first Farms at NYCHA in Queens in 2022. | | |
| 10.1.1 | at least two farms in each borough | In Progress | In April 2022, the Astoria Houses Hydroponic Lab/Classroom opened. This classroom will be in Astoria Houses' Community Center and was created by the Environmental Justice Program at NYPA, who worked with partners to create a new food production resource. | | |
| | | | NYCHA is currently working with public and private partners to secure funding and other infrastructure to support the planned Farms at NYCHA expansion. | | |
| 10.1.2 | Expand GCF's programming at farm sites they operate to focus on "Eco-Hubs" | In Progress | Continue to strengthen EcoHubs powered by GCF with closed looped operating systems and increasing community engagement. Developing a plan to bring WIFI and solar incrementally to each site along with expansion. | | |
| 10.2 | 10.2 Construct urban agriculture education center | | | | |
| 10.2.1 | Construct a new urban agriculture education center at Marlboro Houses | In Progress | Marlboro Greenhouse was funded by City Hall NYCHA has agreed upon terms with non profit operator, The Campaign Against Hunger (TCAH) DDC and NYCHA are currently working out an interagency MOU. DDC with be selecting the Design Builder during 2022 Planned space to have Aquaponics and Hydroponics systems for growing vegetation and protein for local consumption and well as soil based green space for plant growth | | |



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|---|---|---------------------|--|
| Goal 3 Empower residents through community activation and workforce developed | | ctivation and wo | rkforce development |
| Strategy 11 | Develop resident stewardship programs for I | NYCHA's resilient l | andscapes |
| 11.1 | Develop Resilient Landscapes Stewardship p | rogram | |
| 11.1.1 | Develop a Resilient Landscapes Stewardship program | In Progress | In collaboration with the Resident Association, Bronx River Senior Center, and Youth Ministries for Social Justice, a butterfly garden is planned at Bronx River Houses. There will be a butterfly hatching and release event coordinated with the Bronx River Alliance. |
| 11.1.2 | Scale program to all sites with vegetative green infrastructure | Not Started | Not started. |
| 11.2 | Adapt groundskeeping procedures to meet no | ew staffing models | |
| 11.2.1 | Improve soil health and resiliency of existing lawns by raising awareness among residents and staff | Not Started | Not started. |
| 11.2.2 | Adapt groundskeeping procedures to meet new staffing models | In Progress | NYCHA and DSNY are collaborting to create a Caretakers Recycling Guidebook to centralize recycling processes and procedures and to inform staff of the importance of recycling. The document is currently being drafted with anticipated release in 2022. |



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|-------------|---|-------------------|--|--|--|
| Goal 4 | Goal 4 Ensure efficient building operations and resource management | | | | |
| Strategy 12 | Ensure proper maintenance and longevity of | investments | | | |
| 12.1 | Enroll staff in training programs | | | | |
| 12.1.1 | Continue to encourage and enroll staff in DCAS training programs | Not Started | Not started. | | |
| 12.1.2 | Enroll staff in NYSERDA's Energy Efficiency and Clean Technology Training program | Not Started | Not started. | | |
| 12.1.1 | Track training outcomes, as part of NYCHA's reporting to HUD | Not Started | Not started. | | |
| 12.1.2 | Train staff on using new waste management equipment | In Progress | NYCHA's Waste Management Department is in the process of reviewing janitorial and supervisors Standard Procedures - recycling procedures and new equipment procedures (cardboard balers) will be incorporated. | | |
| 12.2 | Continue sustainability-focused recognition p | rograms for staff | | | |
| 12.2.1 | Create an annual sustainability-focused recognition program for staff | In Progress | NYCHA's Sustainability team and Waste Management Department held a cardboard baler competition for the participating sites in Fall 2021. NYCHA held two pizza parties for the Sedgwick and Dyckman Houses for generating the most cardboard bales. | | |
| | recognition program for stair | | NYCHA is working on future recognition programs - such as competitions, staff of the month, and shout-outs in the Waste Management quarterly newsletter. | | |
| Strategy 13 | Strategy 13 Re-envision waste management and recycling at NYCHA | | | | |
| 13.1 | Increase capacity for effective waste manager | ment | | | |
| 13.1.1 | Increase the capacity for effective waste handling and to improve recycling rates | In Progress | NYCHA is working on improving staffing procedures for managing multiple waste streams. | | |
| 13.1.2 | Purchase and manage rearloading compactor trucks | In Progress | NYCHA's Waste Management department (WMD) bought 2 trucks for Brooklyn collection. The WMD team is in discussion with Fleet to weigh leasing compared to purchasing of trucks. | | |
| 13.1.3 | Negotiate enhanced bulk waste removal procedures | In Progress | New bulk contracts to be expanded to 6 day,to include Saturday pickup, currently with borough contract admins. | | |



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| Goal 3 | Empower residents through community a | ctivation and wo | rkforce development | |
| Strategy 13 | 3 Re-envision waste management and recyclin | g at NYCHA | | |
| 13.2 | Develop tools for accountability to assure cle | anliness of grounds | and buildings | |
| 13.2.1 | Implement a waste management and recycling scorecard | In Progress | Data collection and analysis is ongoing from the recycling programs and initiatives currently in place at NYCHA, including the Recycle First initiative, cardboard baler and cardboard compactor usage, and the mattress recycling program. Further analyzing with DSNY data will provide a preliminary NYCHA recycling diversion rate. | |
| 13.2.2 | Update existing recycling infrastructure inspections to reflect industry best practices and lessons learned | Not Started | Not started. | |
| 13.2.3 | Integrate building management systems (BMS) to acquire real-time data on waste management equipment usage | In Progress | Pilot connection to 2 interior compactors at Farragut Houses currently out to bid, proposals due April 2022. Pilot connection of 1 hydraulic compactor at Vladeck Houses under way. Estimated connection by Fall 2022. | |
| 13.2.4 | Implement waste management planning tools based on data | In Progress | A management tool utilizing a scoring matrix is in the process of being created to prioritize site selections for infrastructure upgrades and better allocate waste management assets. Various sources of data include the HUD Individualized Waste Management Action Plans, NYCHA's Performance Tracking & Analytics Department, DSNY Collections, waste & recycling programs and initiatives, and the waste management scorecard. | |
| 13.3 | 13.3 Re-envision waste infrastructure | | | |
| 13.3.1 | Install new convenient outdoor recycling centers at all developments | In Progress | Request for Information for a mechanical collection pilot released in March 2022; responses received in April 2022. | |
| 13.3.2 | Overhaul the centralized waste yards at 107 developments | In Progress | NYCHA has selected a vendor for its Design-Build Waste Yard Redesign project at 7 developments. Additionally, 16 sites are in design procurement with anticipated award in 2022. | |



NYCHA's Sustainability Agenda Progress Report 2022

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|---|--|-------------|--|
| Goal 3 Empower residents through community activation and workforce development | | | rkforce development |
| Strategy 13 | Re-envision waste management and recyclin | g at NYCHA | |
| 13.4 | Invest in innovative approaches to waste man | agement | |
| 13.4.1 | Retrofit Polo Grounds Towers and Rangel Houses with a pneumatic waste collection system | In Progress | NYCHA has selected a vendor and anticipated award is Spring 2022. |
| 13.4.2 | Assess the cost and scalability of retrofitting campuses with pneumatic collection | In Progress | Rough order of magnitude (ROM) estimates for best-value clusters across portfolio completed. |
| 13.5 | Establish a Zero Waste NYCHA program | | |
| 13.5.1 | Implement a Zero Waste NYCHA (ZW) program to create meaningful improvements in recycling for all waste streams | In Progress | NYCHA launched Recycle First in Fall 2021 at all 10 Staten Island developments, a stepping stone towards a Zero Waste program, with the goal to shift staff mentality and update procedures on managing recyclables. |
| 13.5.2 | Expand ZW Program to 30 developments | In Progress | The program will expand to Queens in 2022. |
| 13.5.3 | Deploy ZW Program to entire portfolio | Not Started | Not started. |



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|-------------|---|-----------------------|---|--|
| Goal 4 | Goal 4 Ensure efficient building operations and resource management | | | |
| Strategy 14 | Strategy 14 Design for circularity and recycle construction and demolition waste in Capital Projects | | | |
| 14.1 | 14.1 Implement tree reuse program | | | |
| 14.1.1 | Explore potential ways to identify opportunities to reuse tree wood | In Progress | NYCHA has reached out to local mills to assess interest in re-using NYCHA trees. City Bench, a maker of wooden benches made from reclaimed urban trees, milled several oak trees that had to be removed at NYCHA's Red Hook campus. To facilitate larger scale reuse, NYCHA is coordinating with members of the Forest For All coalition working on developing a citywide urban tree reclamation program. | |
| 14.1.2 | Investigate opportunities to sell or donate trees and reuse them as part of garden beds and mulch | In Progress | See 14.1.1. | |
| 14.1.3 | Incorporate tree reuse into pre-construction planning in parallel with C&D waste management plans | Not Started | Not started. | |
| 14.2 | Construction and demolition waste requireme | nts for Capital Proje | ects | |
| 14.2.1 | Revise NYCHA Division I specifications to require that projects meet a C&D waste diversion rate of at least 75% by weight | Not Started | Not started. | |
| 14.2.2 | Investigate C&D waste tracking through project management tools and incentivizing certified recycling facility usage | Not Started | Not started. | |
| 14.3 | 14.3 Design for circularity | | | |
| 14.3.1 | Raise awareness of circular economy principles among staff | Not Started | Not started. | |
| 14.3.2 | Identify opportunities to minimize waste during projects and throughout the life of the building | Not Started | Not started. | |
| 14.3.3 | Identify for circularity opportunities in operational work | Not Started | Not started. | |



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|---|--|----------------|---|
| Goal 4 | Ensure efficient building operations and r | esource manage | ment |
| Strategy 15 Improve water management in buildings | | | |
| 15.1 | Install water-saving fixtures | | |
| 15.1.1 | Install high efficiency fixtures at 63,743 units | In Progress | Water saving fixtures will be installed as part of the next batch of EPC work. See 1.1.1 for more information. |
| 15.1.2 | Retrofit 60 spray showers with push buttons | Not Started | Not started. |
| 15.2 | Stop and prevent building plumbing systems | leakage | |
| 15.2.1 | Advance efforts to stop and prevent building plumbing leaks to improve water management and reduce instances of mold | In Progress | NYCHA is working to pilot the installation of cure in place piping to cost-effectively seal roof drain pipes and stop leaks |
| 15.2.2 | Submeter make-up water usage | Not Started | Not started. |
| 15.2.3 | Connect to BMS to monitor both boiler make-up water, condensate tanks, and pumps to identify leaks | In Progress | Current BMS sites are monitoring make up water. |
| 15.3 | Conserve water through reclamation and reus | e | |
| 15.3.1 | Implement scalable water reclamation and reuse projects | In Progress | NYCHA is studying the potential to reuse groundwater at sites where groundwater is expressing itself in basements, and will begin further studies on graywater reuse in 2023. |
| 15.3.2 | Identify a delivery method and complete water reuse systems installations | Not Started | Not started. |
| 15.3.3 | Replicate the water reuse application in substantial renovations | Not Started | Not started. |
| 15.4 | Complete a water monitoring study | | |
| 15.4.1 | Complete a water monitoring study to understand water consumption patterns, help identify leaks, reduce utility costs, decrease consumption, and streamline operations | In Progress | NYCHA is conducting a water monitoring study at Vladeck building 24. |
| 15.4.2 | Develop a measurement and verification report | Not Started | Not started. |
| 15.5 | Identify and remedy laundry facility "deserts" across the portfolio | | |
| 15.5.1 | Identify "laundry deserts" or locations lacking convenient access to a laundromat | In Progress | NYCHA has started research. |
| 15.5.2 | Plan investments in new in-building laundry facilities or upgrades to buildings to accommodate in-unit appliances | Not Started | Not started. |



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|--|---|----------------------|---|--|
| Goal 5 | Leverage all funding and financing toward | d healthier and de | ecarbonized buildings | |
| Strategy 16 Retain ownership of energy and water savings | | | | |
| 16.1 | Access full rate reduction benefit from all utili | ties | | |
| 16.1.1 | Work with HUD to retain all rate reduction savings | In Progress | NYCHA began discussions with HUD. Awaiting official response from HUD OGC. | |
| 16.2 | Establish water usage baselines | | | |
| 16.2.1 | Use newly installed meters to establish water baselines to inform financing decisions for projects that will reduce water leakage | In Progress | An EPC has been submitted to HUD with water baseline methodology and includes an ECM for identifying and repairing water leaks. | |
| 16.3 | Change policies around energy and water cor | sumption and opera | ational funding | |
| 16.3.1 | Work with HUD to retain the full financial benefit of utility and waste reduction projects | In Progress | NYCHA began discussions with HUD. Awaiting official response from HUD OGC. | |
| 16.4 | Use savings from reduced operations and ma | intenance costs to f | und sustainability projects | |
| 16.4.1 | Fund labor-saving and innovative technologies from reduced operations and maintenance costs | In Progress | NYCHA began discussions with HUD. Awaiting official response from HUD OGC. | |
| 16.5 | Remove restrictions on EPC incentives | | | |
| 16.5.1 | Work with HUD to remove restrictions on EPC incentives | In Progress | NYCHA began discussions with HUD. Awaiting official response from HUD OGC. | |
| 16.5.2 | Establish a new financing instrument that integrates EPC work with PACT projects/Trust | Not Started | Not started. | |
| 16.6 Extend the Maximum Allowable Term for the EPC Program from 20 to 25 Years | | | 0 to 25 Years | |
| 16.6.1 | Extend the Maximum Allowable Term for the EPC Program to 25 Years | In Progress | NYCHA began discussions with HUD. Awaiting official response from HUD OGC. | |
| Strategy 17 | Strategy 17 Bring in more funding through the Preservation Trust | | | |
| 17.1 Generate funding through the establishment of the Public Trust | | | | |
| 17.1.1 | Procure and expedite large capital works | Not Started | Not started. | |
| 17.1.2 | Gain access to federal Tenant Protection Vouchers (TPVs) | Not Started | Not started. | |



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|---|--|-------------|---|--|
| Goal 5 Leverage all funding and financing toward healthier and deca | | | ecarbonized buildings | |
| Strategy 18 Bring in more funding through PACT | | | | |
| 18.1 | Attract financing through PACT | | | |
| 18.1.1 | Convert 62,000 units to the project-based Section 8 program to address \$12.8B in capital upgrades | In Progress | NYCHA is currently in PACT Round 12. | |
| Strategy 19 | Earn revenue through energy and sustainability incentives and demand management programs | | | |
| 19.1 | Participate in demand response programs | | | |
| 19.1.1 | Study the potential of battery storage for peak load shaving | Complete | See 3.2.1. | |
| 19.1.2 | Explore and participate in emerging utility demand response programs | In Progress | NYCHA received approximately \$ 1.7 million in incentive and demand management programs from utilities. | |
| Strategy 20 | Establish Green Revolving Fund | | | |
| 20.1 | Establish the Green Revolving Fund | | | |
| 20.1.1 | Establish the Green Revolving Fund (GRF) | Complete | NYCHA has established the green revolving Fund with incentives and demand management programs from utilities. | |
| 20.1.2 | Set aside savings such as the utility incentive and demand response programs into the GRF | In Progress | See 20.1.1. | |
| Strategy 21 Advocate for equitable investment in NYCHA | | | | |
| 21.1 | Shape the development of equitable investme | ent | | |
| 21.1.1 | Shape the implementation of the LL97 through participation in industry working groups | In Progress | NYCHA is a part of the LL97 Advisory Board and the Multi-Family Working Group advocating for streamlined implementation and equitable investment in NYCHA properties. | |
| 21.1.2 | Guide the integration of environmental justice into the design of a potential carbon market | Canceled | After further review of available options, NYCHA will not pursue the carbon trading market. | |
| 21.1.1 | Assess how carbon offsets could help finance necessary energy and water efficiency investments | Canceled | After further review of available options, NYCHA will not pursue the carbon trading market. | |