

2023-2024

Annual Report

Office of Energy & Sustainability

NYC Public Schools

About This Report

The Annual Report is an overview of the New York City Public Schools' (NYCPS) sustainability programs and partnerships in Fiscal Year 2024 (FY24), spanning July 1, 2023–June 30, 2024, reported by the NYCPS Office of Energy & Sustainability. This report includes information pertaining to energy and climate, waste management and reduction, school gardens, outreach, education, and compliance with local laws and Chancellor's Regulations.

Accessibility: This document has been remediated to be ADA 2.0 WCAG compliant and compatible with end users' installed, dedicated screen reader software. The content has been tagged and ordered to be read in the author's intended logical reading order. Tables are keyboard navigable, and the content architecture is identifiable per the end user's software preference settings. Alt text has been inserted in the metadata of the file to describe graphics and images pertinent to the content.



On the Cover (clockwise from top left):

- Students at P.S. 277 Gerritsen Beach in Brooklyn completing a beach cleanup and waste audit at Jamaica Bay.
- Students in the school garden at I.S. 061 Leonardo Da Vinci in Queens.
- Green Team members in the cafeteria at P.S. 63 Old South in Queens.
- Students at Maspeth High School in Queens on Energy Climate Action Day.

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Letter from the Chief Sustainability & Decarbonization Officer

The 2023–24 school year was another milestone year for the Office of Energy & Sustainability, working across the entire school system to implement sustainability at every level.

Our office is supporting climate action in our agency in an increasingly robust way: in Spring 2024, I assumed the role as the first Chief Sustainability & Decarbonization Officer, and our office was realigned directly under the Deputy Chancellor of Operations and Finance. This is an indicator of significant progress: the agency has elevated our commitment to sustainability. The change allows us to most effectively contribute to the City’s goals to make our schools more resilient and responsive to climate change, while centering our students, educators, staff, and school communities. Our work is essential to learning and living in New York City, and we are deeply committed to representing public schools. We believe that they have the power and ability to serve as models for climate action and sustainability leadership.

While we work on infrastructure and operations, it is the valuable people *inside* our schools who motivate and inspire us every day. In the 2023–24 school year, we implemented new programs to galvanize

action across all school communities. This fulfilled goals set forth in PlaNYC, the citywide strategic climate plan, which included formal, direct language around climate education goals for the first time. We launched Climate Action Days, a series of four days to increase awareness, interest, and engagement in climate action in a bigger way than ever before. These days provide an accessible framework for schools to catalyze action and celebrate solutions, and we are proud that over 1,100 schools adopted this call to action in its very first year! This initiative has enlivened the discourse around the important role of schools in the path to sustainability.

From heatwaves to poor air quality to Tropical Storm Ophelia’s damaging rainfall, the city’s vulnerability to climate change has been more evident than ever. Extreme weather, coupled with ever-evolving political and leadership changes, demonstrate the urgent need to take action. Public schools convene students, staff, families, and communities that are often the most directly impacted by climate change, so we take our work very seriously. We are honored to advocate and represent all our students, dedicated staff in schools and central/field offices, families, and our growing network of

wonderful partner organizations. We invite you to read about their exemplary work in greater detail throughout this year’s Annual Report with note to how much has grown, deepened, and flourished over the years!

Thank you all for your ongoing partnership in building an equitable, sustainable future full of progress, opportunity, and hope for our schools, communities, city, and world.

With gratitude,



Meredith McDermott
Chief Sustainability &
Decarbonization Officer



Members of the Office of Energy & Sustainability team at the Climate Institute.

ACCOMPLISHMENTS AT-A-GLANCE:



Launched **new systemwide climate initiatives**, including Climate Action Days, in support of [PlaNYC](#), NYC's strategic climate plan



Reached **19.7 total megawatts** (mW) of clean energy through 90 solar installations



Completed the **expansion of Curbside Composting** service to **all** K–12 NYC Public Schools buildings



Held the **first Climate Institute**, a multi-day professional learning conference for over 500 educators



Expanded food and plastic waste prevention initiatives with the Office of Food & Nutrition Services, including **increasing Plastic Free Lunch Days** to every three weeks and **implementing Share Table and Food Donation guidelines**



Awarded **over \$840,000** in funding and materials to **182 schools** through our 8th Annual Sustainability Project Grant, the largest sum to date



Completed **368 Energy Efficiency upgrade projects**, leading to **\$8,004,506 in cost savings** and **12,322 tCO₂e*** in greenhouse gas emissions reduction



Hosted **first outdoor Youth Climate Summit** in partnership with the Trust for Governor's Island

*tons carbon dioxide equivalent

Our Partnerships

We achieved these and other accomplishments thanks in large part to our fantastic school-based staff, NYC Public Schools offices, and our network of city agencies and community-based organizations.

SUSTAINABILITY COORDINATORS

Per [Chancellor’s Regulation A-850](#) and [Local Law 41](#), schools designate a staff member as Sustainability Coordinator. As the Office of Energy & Sustainability’s primary school-based champions, they strive to do the following:

- Complete an annual plan at the start of the year to set goals
- Lead schoolwide projects and initiatives throughout the year
- Work with our office and partner organizations for resources and professional development
- Submit a survey at the end of the year to report on their progress



Kalimah Muhammad, Sustainability Coordinator at P.S./I.S. 323 in Brooklyn, used her Sustainability Project Grant win to maintain their school’s garden.

1,656
(89% of all public schools)
designated Sustainability Coordinators*

1,436 (87% of eligible schools)
completed Annual Sustainability & Climate Action Plan**

1,246 (87% of eligible schools)
completed End-of-Year Annual Sustainability Survey**

Over the years, completion of sustainability requirements has remained high, demonstrating the strong relationships we’ve forged with schools since our office’s inception.

*standalone Charter schools and Pre-K centers are not required to designate a Sustainability Coordinator

**only schools who designated a Sustainability Coordinator are eligible to complete a Sustainability & Climate Action Plan; similarly, only schools who completed their Sustainability & Climate Action Plan are eligible to complete the end-of-year Sustainability Survey.

CUSTODIAN ENGINEERS & OFFICE OF FOOD & NUTRITION SERVICES STAFF

Our facilities staff are at the forefront of our waste operations and energy efficiency projects. Read more about the impact of these efforts in the [Waste](#) and [Energy](#) chapters.



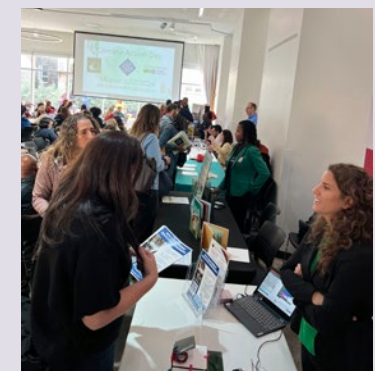
Fireman/Handyman Jason Snead of P.S. 397 Foster-Laurie in Brooklyn discussed their building’s energy grade on Energy Climate Action Day.



Director of Strategic Partnerships and Policy for the Office of Food & Nutrition Services, Stephen O'Brien (now retired), spoke to the winners of our first ever Plastic Free Lunch Day artwork contest at P.S. 031 Samuel F. Dupont in Queens.

PARTNER NETWORK

The 2023–24 school year marked an increase in collaboration with other NYC Public Schools offices, City agencies, and our network of over 50 nonprofit and community-based organizations. Read more about the impacts of these partnerships in the [Education and Engagement](#) section, and see our [full list of partners](#) in the [Appendix](#).



Partners tabling at our Climate Action Days training in Manhattan.

HIGHLIGHTS:

Education and Engagement

Our biggest year for engagement with students and teachers yet.

- Trained over 1,600 educators through professional learning
- Granted over \$840,000 in funds to schools for sustainability projects
- Created and fulfilled new climate education goals in PlaNYC and three brand-new programs to advance sustainability in schools

Climate Action Days Training

We held three trainings to prepare educators to implement the new Climate Action Days initiative.

 **1,046** attendees, our largest cumulative training ever.

The success of this training shows what school communities can accomplish when they have the tools to succeed.


“ It was easily one of the best PDs I’ve ever attended. It was super informative, and I really appreciated all of the real life activities and suggestions. ”

Dana Grskovic

Teacher and Coordinator of Student Activities, Francis Lewis High School in Queens

Climate Action Days

In 2023–24, we launched Climate Action Days, four days throughout the year for schools to highlight sustainability themes: Energy; Waste; Health, Wellness, and Green Space; and Water. With a diverse array of climate-focused lessons and activities, these days offer opportunities for schools to showcase the power of collective action!

1,165  **84%**
schools reported participating in the first year. *of schools said Climate Action Days contributed “some” or “a lot” to continued climate action in their school.*

ENERGY

Students at P.S. 68 Cambridge in Queens created a model city supported by clean energy.



WATER

Students at P.S. 28 Wright Brothers in Manhattan took an educational boat trip on the Hudson River.



HEALTH, WELLNESS, AND GREEN SPACE

P.S. 193 Gil Hodges in Brooklyn had a schoolwide outdoor meditation and yoga event and a community walk to promote health and wellness.



WASTE

Students at Fort Hamilton High School in Brooklyn hosted a clothing swap to promote reuse and upcycling.



See more examples of [Climate Action Days](#).

Annual Sustainability Project Grant

Each year, we offer an opportunity for schools to apply for a grant to fund sustainability projects. In our 8th year of the grant, more projects were funded than ever before!



A student at P.S. 2 Alfred Zimberg in Queens holds an earthworm in their school garden.

\$847,479
in funding & materials

182
schools

NUMBER OF PROJECTS FUNDED:



89

Gardens & Outdoor Learning



24

Sustainability & Climate Education



17

Climate Action & Advocacy



30

Tower Gardens & Training



22

Water Refill Stations

Climate Institute

We offered our first multi-day professional learning conference during the Midwinter Recess for educators from all grades and subjects to bring climate into their classroom. This event was possible thanks to generous support from Deutsche Bank and Teachers College, Columbia University. Over 50 partners took part in keynotes, panels, and workshops, as did members of our Climate Education Leadership Team and students from our Youth Leadership Council.



505 educators attended

including educators from every school district, spanning pre-K through adult education.

Of those who completed our post-event survey, **nearly**



95% of educators agreed

that they now know how to integrate climate change in the subject(s) they teach.



\$1,000 stipend

for all educators who attended.

“Thank you all for an amazing three days. I am very thankful to have been part of this Institute and can’t thank you enough for EVERYTHING! You all had such amazing energy, and all your passion was radiating! Thank you! I can’t wait to use all these amazing resources in my school and see where it takes my students.”

—Ms. Fancy Hung
Dual Language Social Studies and Science K–2 Teacher
P.S. 89 The Jose Peralta School of Dreamers in Queens

6th Annual Youth Leadership Council (YLC)

Our office’s Youth Leadership Council is made up of 30 high school students from across NYC. Students support sustainability initiatives in their own schools and learn about climate action and green careers.

Their signature project is planning and hosting the Youth Climate Summit. They created and led two educational workshops for their peers: “Green Teams & Planning Events” and “Climate Communication,” incorporating local climate policy and civic advocacy.



2023–24 Youth Leadership Council at a field trip to the Climate Museum.

“Thank you so much for such a fantastic program this year! It has been an incredible experience, and I truly appreciate the opportunities provided!”

—Shakira Rimal, junior at Brooklyn Technical High School

Youth Climate Summit



298

high school students and educators

came to this year’s Youth Climate Summit. Our first outdoor Summit was held on Governors Island, home to the Harbor School and nonprofit organizations working on climate solutions. Student teams joined workshops, explored climate career pathways, and learned about environmental justice. At the end of the Summit, they created a Climate Action Plan to take back to their school.



19

partner organizations

hosted workshops, shared information about green careers, and served as mentors for student groups as they created Climate Action Plans for their schools.



[Watch the recap video of the 2024 Youth Climate Summit.](#)



Students worked on a Climate Action Plan for their school, with the help of mentors from partner organizations, then shared out their plans.



Students at the Billion Oyster Project Shell Collection Station at the Youth Climate Summit.



Youth Leadership Councilmembers led a workshop for fellow high school students.

Climate Action Challenge

We introduced a new schoolwide challenge this year, celebrating superstar schools that participated in all four Climate Action Days and took on other rigorous and sustained climate projects.


31 *schools won*
\$2,500

awarded to fund a sustainability-focused project next school year.


CHALLENGE CRITERIA:





Must Participate in all 4 Climate Action Days

Participate in at least 4 Plastic Free Lunch Days 

Create or Maintain a Green Team 

Partner with Custodian on long-term Sustainability Project(s) 

Work with nonprofit or local organization on long-term Sustainability Project(s) 

Workshop or Program Involvement 

Create/Maintain a Garden or Outdoor Learning Space 

pick 4 more

Climate Education Leadership Team

In its 4th year, this group of over 30 teachers and administrators came together from across NYC Public Schools as thought leaders for climate education. We convene and work with CELT throughout the year to enhance school and teacher engagement and integrate climate education in schools.

HIGHLIGHTS:

- Created resources for Climate Action Days, including step-by-step action guides for educators, and curated lessons for each theme by subject and grade band
- Led six workshops at the Climate Institute
- Fostered a working partnership with the United Federation of Teachers (UFT)
- Led a Chancellor’s Day workshop with over 200 attendees
- Shared professional development templates with teachers across the city, so they could turnkey the information to colleagues within their schools



Climate Education Leadership Team educator co-chairs (L-to-R): Jackie Davis, Sean McFadden, Colby Zentner, Deborah Reich

HIGHLIGHTS:

Energy

Achieving emissions reductions across nearly 1,500 school buildings.

We manage energy use in facilities by:

- Securing resources to optimize equipment, systems, and operations
- Supporting programs that drive climate leadership and school engagement
- Partnering with the Department of Citywide Administrative Services (DCAS) Division of Energy Management and School Construction Authority to accelerate progress and collaborate on solutions



In the 2023–24 school year, we reduced greenhouse gas (GHG) emissions by

2%

from the previous year

Since FY08, we've reduced emissions by

13%

GHG EMISSIONS FROM SCHOOL BUILDING OPERATIONS (tCO₂e)*

Emissions by Fuel Type	FY22	FY23	FY24
Electricity	405,517	393,489	391,572
Natural Gas	228,299	201,165	205,678
Municipal Steam	9,289	6,960	7,068
Fuel Oil — All Types	231,580	189,172	168,691
Total tCO₂e	874,685	790,786	773,009

*tCO₂e is tons of carbon dioxide equivalent, the unit of measure for emissions accounting. FY22 and FY23 data were updated from previous reporting years due to ongoing utility billing adjustments and coefficient calculations. For methodology, see Appendix.



Commissioning Engineer Suman Neupane (left) with contractors at Middle College High School and International High School at LaGuardia Community College in Queens, completing an HVAC automation project.

Building Energy Performance

“Energy efficiency” refers to using less energy to achieve the same task or operation, reducing wasted energy. The energy consumption and performance of our school buildings is quantified and assessed annually in two major ways:

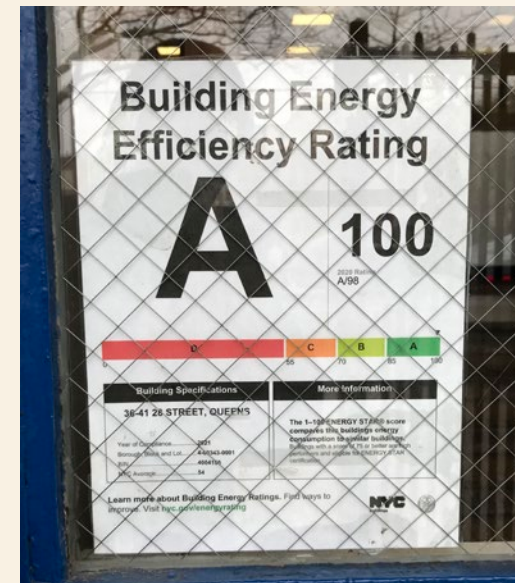
- 1. Energy Benchmarking (Local Law 84):** Energy consumption from non-renewable sources (electricity, fuel oil, steam, natural gas) is evaluated and scored using the EPA's Energy Star Portfolio Manager tool. This tool compares buildings of the same type (i.e. K–12 schools) across the nation to derive scores from 1–100 (higher scores = more efficient).

We use this data to identify buildings with poor energy performance and find causes and solutions. This data helps us prioritize and plan targeted upgrades to decarbonize equipment and systems.

- 2. Building Energy Efficiency Ratings (Local Law 33/95):** City-owned buildings over 10,000 square feet must publicly post Energy Efficiency Ratings, comprised of the following two figures based on energy data from the previous calendar year:

- Energy Efficiency Grade (A to D)
- Energy Efficiency Score (1–100)

Local Law 33 assesses each building’s physical assets, operations, and utility data. Parameters include facilities information (e.g. gross floor area, year built, types/amount of energy used, percentage of space heated and cooled, cooking facilities) and non-facility data (e.g. operating hours, occupancy).



The building energy efficiency rating at co-located schools Energy Tech High School and I.S. 204 Oliver W. Holmes in Queens.

Grade	# of Buildings	% of Buildings
A	251	18.1%
B	387	27.9%
C	299	21.6%
D	409	29.5%
N**	39	2.8%
Grand Total***	1385	

Compliance and reporting for Local Law 33 is by calendar year (this report: 2023).

**Refers to a Building Identification Number (BIN)/Borough, Block, and Lot (BBL) that is not covered under the LL33 criteria.

***Grades & Scores: scores are generated from annual Local Law 84-Energy Benchmarking compliance. Only the buildings benchmarked by NYCPS and included in the Municipal Benchmarking Report are included in this Annual Report.

Building Upgrades

To reduce polluting greenhouse gas emissions and improve learning environments, we oversee decarbonization projects and programs to meet targets set forth in [Local Law 97: NYC’s Climate Mobilization Act](#). Major goals include:

- Reduce greenhouse gas emissions 40% by 2025 & 50% by 2030 from FY06 baseline; achieve carbon neutrality in city operations by 2050 (commitment in OneNYC 2019)
- Reduce energy consumption 20% by 2030
- Lead the City’s solar installations to achieve 100 MW installed on City buildings by 2030
- Make school buildings, surroundings, and communities more resilient
- Leverage climate goals/programs to address critical maintenance needs in partnership with the Division of School Facilities

IN 2023–24:

368 <i>projects completed</i>	12,322 <i>emissions reduction (tCO₂e)</i>	\$8,004,506 <i>annual cost savings</i>
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The Division of Energy Management at the NYC Department of Citywide Administrative Services (DCAS) offers several funding programs including ACE (capital), ExCEL (expense) and Retro-commissioning, which support various energy efficiency projects. We are also working with DCAS and the New York Power Authority to upgrade lighting systems to LED, with controls for enhanced energy efficiency.

TYPES OF PROJECTS

233 HVAC automation projects and mechanical equipment upgrades

to reduce energy consumption, provide more control for temperature and ventilation, create a more comfortable learning environment, and optimize equipment performance.

105 Lighting upgrades (LED and lighting controls)

to reduce energy consumption, provide even lighting for better learning environment, and lower maintenance requirements and costs.

30 Domestic hot water heat pumps (electrification)

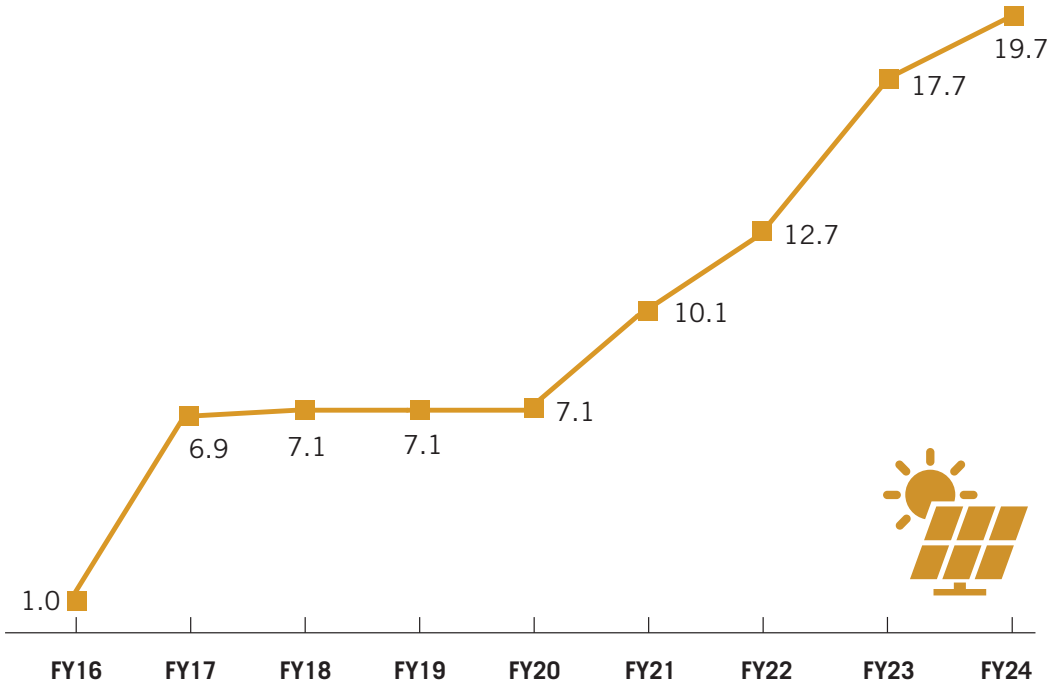
to replace a direct connection to fossil fuels with electricity, as we are “greening the grid” with more clean energy over time.

Selection criteria for projects: We prioritize projects based on a building’s current energy usage, equipment condition, [Economic Need Index \(ENI\)](#), and New York state Disadvantaged Communities Criteria.

Solar

We produce clean energy through our NYC Solar Schools Program. Solar installations on NYC Public Schools make up over 80% of solar on City-owned buildings, more than any other City agency. Cumulatively, these installations reduce emissions by 7,432.58 tons of carbon dioxide equivalent (tCO₂e).

CUMULATIVE MEGAWATTS



The installation of solar panels at J.H.S. 167 Robert F. Wagner in Manhattan.

9

new installations completed in 2023–24, bringing total to 90

733.67

metric tons of CO₂e avoided (GHG emissions reduction)

\$214,819

cost savings

Boiler Conversions

NYC Public Schools launched a pilot program to convert boilers from B20 to B100 biofuel—a renewable alternative to fossil fuels. Two projects, completed in 2023–24, were done in partnership with the Division of School Facilities’ Boiler Compliance (Maintenance) unit to test the feasibility and impact of biofuel as an alternative to higher emissions-intensive heating fuels.

Electric School Buses

A **\$61.1 million grant**

from the U.S. Environmental Protection Agency's (EPA) Clean School Bus Grant Program will add 180 new electric school buses to the city's fleet. This addition will quadruple the number of electric school buses in New York City. Electric school buses will reduce greenhouse gas emissions and improve air quality.



Demand Response

We operate two Demand Response (DR) Programs to ensure the reliability of our regional energy infrastructure during periods of peak demand:



Electricity (445 buildings): Participating buildings reduce electricity usage during heat waves to mitigate the risk of blackouts, which is becoming increasingly critical for resilience as we experience more frequent heat waves.



Natural Gas (78 buildings): Participating buildings with dual fuel boilers help to protect the ability of those who live and work in NYC to have a reliable source of heat during periods of extreme cold.

Participation in these programs saves energy, helps protect New Yorkers from the impacts of climate change, and saves the City money on utility costs. This uniquely benefits schools because we receive a revenue share based on Demand Response performance each year.

TOTAL DEMAND RESPONSE REVENUE

\$5,123,799 *in FY24*

This revenue funds the following:

- **Annual Sustainability Project Grant:** entirely funded by Demand Response
- **Decarbonization Projects:** including lighting upgrades, emergency HVAC repairs and equipment, steam system optimization, and more.

The benefits of Demand Response are made possible through the support of Custodian Engineers, Division of School Facilities partners, and school administrators.

Specialized Climate Programming

OFFICE OF STUDENT PATHWAYS: CAREER EDUCATION & TRAINING PROGRAMS

The Office of Student Pathways (OSP) has been working hard to expand, diversify, and accelerate student program offerings to prepare them with real-world job skills training, career exploration, and technical education in a variety of practical and emerging employment sectors. As climate and sustainability priorities are mobilized through policies, commitments, and programs, upskilling the current workforce and preparing students for jobs in the growing green economy is critical.



CTE students at Boys and Girls High School in Brooklyn during Energy Climate Action Day event with Passive House for Everyone.

From the “greening” of existing Career & Technical Education (CTE) tracks to the growth of FutureReadyNYC and youth apprenticeships, here are two key developments in 2023–2024:

1. Pilot Program: Exploring Sustainability and the Green Economy

In 2023–24, OSP partnered with Solar One and STEMTeachersNYC to develop a career exploratory class. Ten schools participated in the pilot, with teachers engaging in professional learning and focus group workshops to fine-tune curricula.

2. Developing HVAC & Building Decarbonization Pathway

OSP worked to begin the development of a new green pathway that will build off FutureReadyNYC and CTE initiatives and focus on building decarbonization, specifically the energy optimization of Heat/Ventilation/Air Conditioning (HVAC) systems.

Solar Career & Technical Education (CTE)

Our partner program with Solar One integrates clean energy content and hard skills training in construction, engineering, and electrical trades tracks at CTE high schools to prepare students for careers in this high growth sector.

IMPACT IN 2023–2024:

- **553** CTE students reached
- **17** schools participated in customized professional learning planning

Teacher Professional Development: Clean Energy & Education Intensive

In partnership with Solar One, this professional learning series supports educators to integrate standards-aligned clean energy and sustainability content into classrooms. The program has evolved over the last 8 years to include broader climate topics beyond solar in an effort to stay relevant, applicable, and inclusive of teacher feedback. In 2023–24, 70 educators from 55 schools attended these workshops.

HIGHLIGHTS:

Waste Management

**Curbside Composting Expansion:
The largest school composting program
in the country.**

In March 2024, we completed the expansion of Curbside Composting service to all K–12 NYC Public Schools buildings. Schools receive curbside composting pickup five days a week from Department of Sanitation (DSNY). Since food scraps are in containers and picked up daily, composting keeps sidewalks clean and reduces vermin. Diverting food scraps from landfill reduces methane emissions, which is essential for meeting citywide climate goals.

IN 2023–24:



1,175

***schools (in 485 buildings)
added to DSNY Curbside
Composting route***



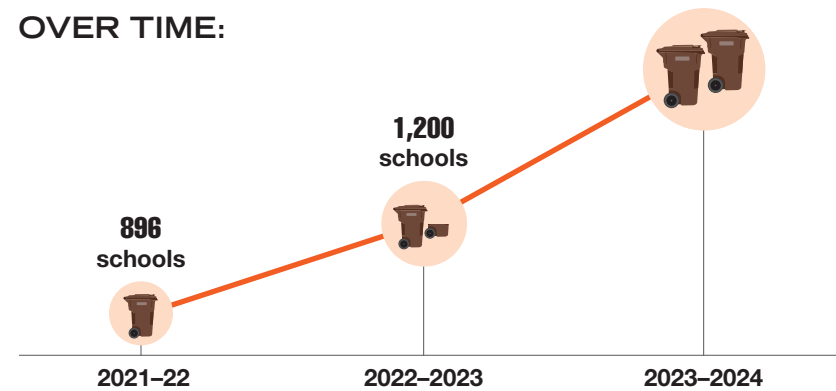
1,000

***administrators,
facilities staff, and
educators trained***

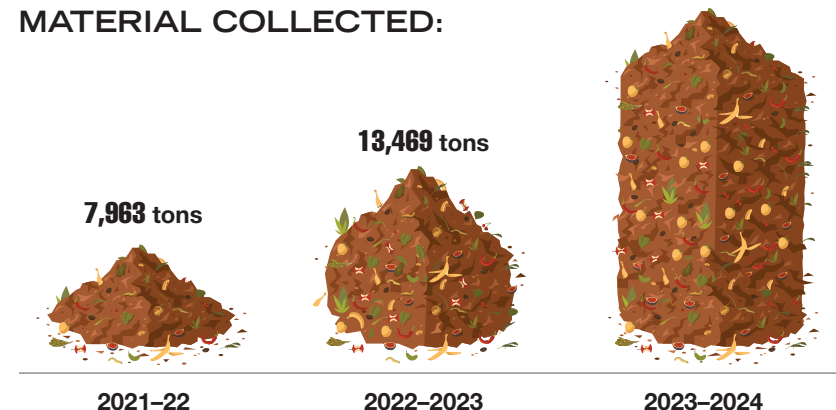


Cleaner Jesse Carrera at East Elmhurst Community School in Queens setting out a tilt truck for curbside composting pickup.

CURBSIDE COMPOSTING SERVICE IN NYC PUBLIC SCHOOLS OVER TIME:



TONNAGE OF COMPOSTABLE MATERIAL COLLECTED:



Rat Mitigation


Waste management not only diverts material from landfill; it also results in cleaner and greener communities. Proper management requires collaboration from all school stakeholders.

INTERAGENCY INITIATIVE FOR RAT MITIGATION



sanitation



 In 2023–2024, we conducted


99

rat mitigation visits

providing resources, training, education, and operational support to school staff and students.



Waste Operations Coordinator Michael Matos gives a presentation to students at P.S. 236 Langston Hughes in the Bronx.

 In the Bronx Rat Mitigation Zone, where all schools received Curbside Composting service in 2023, signs of rat activity

dropped by

38%

compared to before the Curbside Composting program.

Waste Containerization Pilot

Eighteen school buildings in upper Manhattan were part of the city’s first Waste Containerization Pilot Program. The Department of Sanitation installed stationary containers on the street for trash, composting, and recycling. Getting bags off the curb and into containers, along with training and ongoing troubleshooting with facilities staff, drastically reduced signs of rat activity in the vicinity.



Stationary containers outside of P.S. 145 The Bloomingdale School in Manhattan.

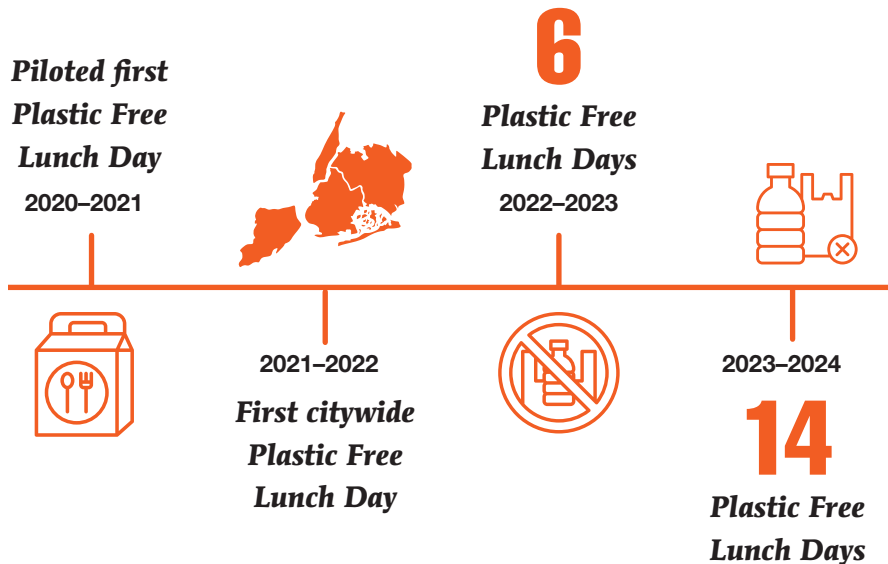
See news article: [Rat czar tasks city agencies to work together to combat infestations.](#)

Plastic Free Lunch Day

In partnership with the Office of Food and Nutrition Services (OFNS) and nonprofit Cafeteria Culture, we expanded Plastic Free Lunch Days to every three weeks. On these days, elementary schools with on-site kitchens prepare and serve meals without plastic.



Students at P.S. 15 in Brooklyn hold up a Plastic Free Lunch Day sign.



Plastic Free Lunch Day Artwork Contest

Using art as a form of climate action, we held our first ever Plastic Free Lunch Day Artwork Contest. Out of 451 submissions from K–8 and District 75 students, we chose 10 winners who illustrated how to reduce plastic in the cafeteria. Winning posters were printed and distributed to schools citywide in Fall 2024.



Winning artwork by 4th grade student Anjha Alighandhi at P.S. 31 Samuel F. Dupont in Queens.

Food Waste Prevention

We work with the Office of Food & Nutrition Services to prevent waste by sharing quality food with students and families. The following programs are part of NYC Public Schools Food Waste Prevention Plan, in compliance with [Local Law 65](#) of 2021:

- 1. Offer vs. Serve:** Students can choose certain items for their meal. Students still receive a full and balanced meal and have a greater choice in choosing what they know they'll eat.
- 2. Share Table:** For certain unopened and non-perishable food, students can leave excess items from their lunch on a table. Other students are welcome to take any items from the table.
- 3. Food Donation:** Schools can opt-in to donate certain unopened and non-perishable food to the school community or a food donation organization.

In 2023–24, OFNS trained all Kitchen Managers on Offer vs. Serve and Share Table policies. Our office worked with OFNS to create official food donation processes. In addition, all OFNS cooks are trained in batch cooking, and use data to prepare the precise amount of food needed, minimizing waste and avoiding excessive leftovers.



The Share Table at P.S. 029 John M. Harrigan in Brooklyn.

Department of Sanitation Clean and Green Schools Award Winners

This year, Custodian Engineers and their teams at 10 buildings were recognized for exceptional commitment to maintaining clean and healthy environments for students to learn. Winning schools received additional waste storage equipment.



DSNY's Pascal Hannou with Custodian Engineer Wilson Caraballo and Fireman Henry Rosa at New Design Middle School and KIPP Infinity Charter School in Manhattan.

HIGHLIGHTS:

Health, Wellness, and Green Space

Over 70% of schools reported having access to a garden, park, or outdoor learning space.

Gardens and outdoor spaces serve as green infrastructure, making our city more resilient to a changing climate and catalyzing opportunities to incorporate STEM, literacy, and physical education.

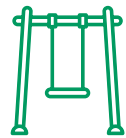
Garden & Outdoor Learning Census

Nearly 2,000 school-based staff and sixteen partner organizations completed our third biannual Garden Census. This self-reported data is useful for understanding the landscape of gardens and outdoor learning.



1,189

schools reported having gardens.



870

schools reported having a designated outdoor yard for outdoor learning, activities, and/or play.



550

schools reported using a nearby park for outdoor learning, activity, and/or play.

TYPES OF GARDENS



804 *Soil-less gardens (aeroponic, hydroponic, or aquaponic-style gardens)*



595 *Outdoor gardens (pollinator gardens, raised beds, and planters)*



557 *Container gardens*



95 *Greenhouses*



48 *Rooftop gardens*

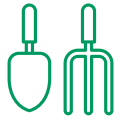


26 *Living walls*

Schools may have more than one type of garden.

This year, we added new questions to the Garden Census to better understand the types and purposes of school gardens in NYC. Here were some of the findings and key takeaways:

GARDEN GOALS



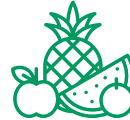
Developing gardening skills



Supporting social-emotional learning



Developing life skills, such as responsibility, problem solving, and teamwork



Promoting healthy lifestyle, nutrition, and wellness



Fostering environmental stewardship



Enhancing curriculum and academic learning



Strengthening connections between schools and communities

VEGETATION TYPES



Culturally-specific (vegetation from educator/family home countries)



Edible



Native



Sensory



Ornamental



Pollinator-friendly



Medicinal



Educational

EDIBLE PLANTS USE

Of the 660 schools that grow edible plants, they reported using them in the following ways:



591 offer to staff and students



204 support a culinary class



88 donate to a food pantry



79 use in cafeteria (such as incorporating into menu or taste testing)



41 run a farmers market

Examples of Gardens and Outdoor Learning

To build a connection between sustainability and health, wellness, nutrition, outdoor learning, and community resilience, we designated a Climate Action Day theme for Health, Wellness, and Green Space. Emphasizing these topics, schools invited families and communities to be part of their efforts.



Students at P.S. 233 Langston Hughes in Brooklyn cooked a healthy meal and connected the activity to the vegetables they are growing in their indoor and outdoor gardens.



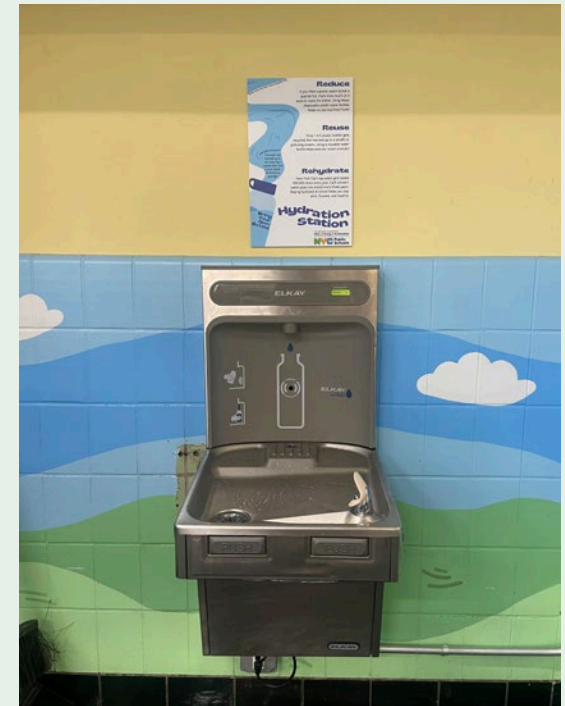
Students at High School for Enterprise, Business and Technology in Brooklyn cleaned up litter and added compost and mulch to street tree beds.



The Richmond Pre-K Center “Cohort A” in Staten Island invited families to do yoga and plant flowers in front of the building with their children.

Water Refill Stations

In addition to supporting school gardens with our Annual Sustainability Project Grant, we awarded 22 schools with water bottle refill stations. Installing these stations bolsters school wellness and reduces plastic pollution from single-use water bottles.



Water refill station at P.S. 111 Jacob Blackwell in Queens, with poster about positive impacts of reusable water bottles provided by our office.

HIGHLIGHTS:

Equity & Inclusion

Each year, our office strives to create more opportunities for our diverse student body and staff. We recognize that equity work involves constant reflection and adaptation, and we tailored our approach to incorporate the needs of different groups of students and staff.

Climate Education Resources in Additional Languages

In 2023–24, we expanded educational opportunities and communication to families:

- Developed Climate Action Days flyers for families in nine additional languages.
- Included a Spanish language session at our Climate Institute.
- Partnered with Division of Multilingual Learners' Project-Based Learning for English Language Learners program to engage schools in sustainability initiatives.

Prioritizing Economic Need Index (ENI) and Disadvantaged Communities Criteria (DAC)

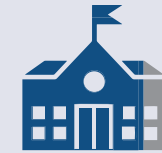
Across our programs, we prioritize schools with higher-than-average Economic Need Index (ENI), a metric that calculates the percentage of students in a school population facing economic hardship. The higher the ENI, the more low-income students a school serves.

- Annual Sustainability Project Grant



*Average ENI
of schools citywide:*

71.8%



*Average ENI of
schools awarded a
2023–24 Grant:*

80.5%

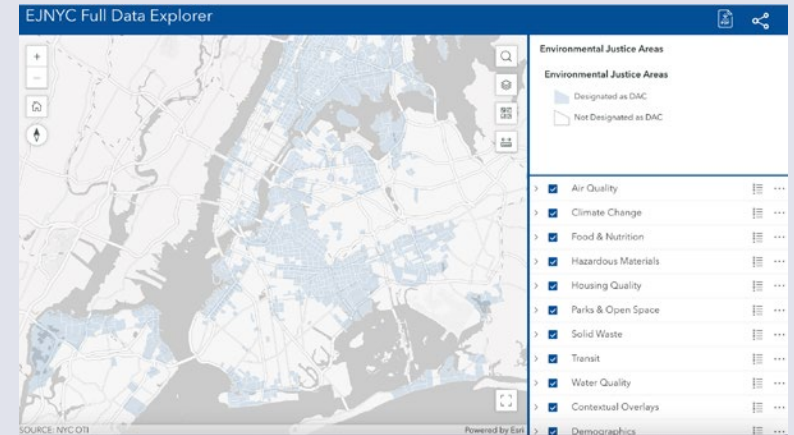
- Facilities upgrades: in addition to ENI, we use New York State's [Disadvantaged Communities Criteria \(DAC\)](#) to prioritize projects. This criteria identifies census tracts of historically disadvantaged communities most impacted by environmental injustice.

Environmental Justice in Workshops & Programs

- *Environmental Justice 101*: At the [Youth Climate Summit](#), our partner organization EcoRise facilitated a learning session to define and explain environmental justice.
- *Climate Institute*: We offered 12 workshops hosted by partner organizations that incorporated environmental justice topics, such as exposure to air and water pollution and food insecurity.
- *Urban Heat Island Effect: Building Community Resilience in a Changing Climate*: a two-part series for educators from Grades 3–12 to explore extreme heat in neighborhoods: causes, data analysis, and impacts.



Students during the Environmental Justice 101 workshop at the Youth Climate Summit.



The EJNYC Mapping Tool.

Environmental Justice NYC (EJNYC)

We joined the Interagency Working Group for the city's [Environmental Justice NYC initiative](#), led by the Mayor's Office of Climate & Environmental Justice. This initiative developed the EJNYC Report and Mapping Tool that identified and mapped economic, racial, and environmental disparities across the city.

Our office, alongside the Department of Citywide Administrative Services (DCAS), added schools to the map to better visualize how specific schools overlap with environmental justice concerns.

We also developed learning opportunities to introduce the EJNYC Mapping Tool to groups of educators, students, and partner organizations.

Appendix

Office of Energy & Sustainability Partners

[Action for the Climate Emergency \(ACE\)](#)

[Adobe](#)

[American Museum of Natural History](#)

[Audubon New York—For the Birds!](#)

[Balcones Recycling](#)

[Billion Oyster Project](#)

[Big Reuse](#)

[Bronx Health Reach](#)

[Bronx River Alliance](#)

[Brooklyn Botanic Garden](#)

[Brooklyn Bridge Park Conservancy](#)

[Brooklyn Museum](#)

[Cafeteria Culture \(CafCu\)](#)

[Children’s Environmental Literacy Foundation \(CELF\)](#)

[Citizens Committee for New York City \(CCNY\)](#)

[City Growers](#)

[City Parks Foundation](#)

[Clean Green Music Machine](#)

[Climate and Resilience Education Task Force](#)

[Climate Generation](#)

[The Climate Museum](#)

[Coalition for Healthy School Food](#)

[Deutsche Bank](#)

[Discovery Education](#)

[Earth Day Initiative](#)

[Earth Matter](#)

[Earth Rangers](#)

[EcoRise](#)

[Edible Schoolyard NYC](#)

[El Puente](#)

[FABSCRAP](#)

[Garden Train](#)

[Gowanus Canal Conservancy](#)

[Green Beetz](#)

[Green Bronx Machine](#)

[Green City Challenge](#)

[Green Schools Alliance](#)

[Greening Forward](#)

[GrowNYC School Gardens & Zero Waste Schools](#)

[The Horticultural Society of NY](#)

[LEGO Education](#)

[Materials for the Arts \(MFTA\)](#)

[National Geographic Society](#)

[National Wildlife Federation Eco-Schools USA](#)

[New Roots Institute](#)

[Newtown Creek Alliance](#)

[New York Botanic Garden](#)

[New York Restoration Project](#)

[NY Hall of Science \(NYSCI\)](#)

[NY Sun Works](#)

[NY State Department of Environmental Conservation \(DEC\)](#)

[NYC Department of Citywide Administrative Services \(DCAS\)—Energy Management](#)

[NYC Department of Environmental Protection \(DEP\)](#)

[NYC Department of Parks & Recreation](#)

[NYC Department of Health and Mental Hygiene \(DOHMH\): Bureau of Environmental Surveillance & Policy and Healthy Living by Design](#)

[NYC Department of Sanitation \(DSNY\)](#)

[NYC Mayor’s Office of Climate and Environmental Justice](#)

[NYC Mayor’s Office of Food Policy](#)

[NYC Public Schools Divisions, Offices, and Programs:](#)

- [Civics for All](#)
- [Computer Science for All](#)
- [Division of Curriculum and Instruction](#)
- [Farm to School](#)
- [Genovesi Environmental Study Center](#)
- [Office of Food and Nutrition Services](#)
- [Office of Library Services](#)
- [Office of Multilingual Learners](#)
- [Office of School Wellness Programs](#)
- [Service in Schools](#)

[NYC School Construction Authority](#)

[NYU Wallerstein Collaborative for Urban Environmental Education](#)

[Passive House for Everyone](#)

[play:groundNYC](#)

[PowerMyLearning](#)

[Queens Botanical Garden](#)

[Repair Shop](#)

[Resilient Schools Consortium Program \(RISC\)](#)

[Sanitation Foundation](#)

[Solar One](#)

[Start:Empowerment](#)

[STEMteachersNYC](#)

[Strawtown Studio](#)

[Teachers College, Columbia University](#)

[Teens for Food Justice](#)

[Transportation Alternatives](#)

[TREEage](#)

[The Trust for Governors Island](#)

[TuTu’s Green World](#)

[United Federation of Teachers \(UFT\)](#)

[Variety Boys and Girls Club of Queens](#)

[Waterfront Alliance](#)

[Wave Hill](#)

[WE ACT for Environmental Justice](#)

[Wearable Collections](#)

[Wellness in the Schools](#)

[WhyMaker](#)

[Wildlife Conservation Society](#)

Energy Management

GHG emissions from school building operations, FY22–FY24*

	FY22			FY23			FY24		
	GHG emissions (tCO ₂ e)	Change year over year	Change from FY08 baseline	GHG emissions (tCO ₂ e)	Change year over year	Change from FY08 baseline	GHG emissions (tCO ₂ e)	Change year over year	Change from FY08 baseline
Electricity	405,517			393,489			391,572		
Natural Gas	228,299			201,165			205,678		
Municipal Steam	9,289			6,960			7,068		
Fuel Oil—All Types	231,580			189,172			168,691		
Total tCO₂e	874,685	19%	-2%	790,786	-10%	-11%	773,009	-2%	-13%

*FY22 and FY23 data were updated from previous reporting years due to ongoing utility billing adjustments and coefficient calculations.

Total Energy Consumption by Source (MMBTUs*), FY22–FY24

Fuel type	FY22		FY23		FY24		Year over year change	Change from FY08 baseline
	Use (MBTU)	Percent of total	Use (MBTU)	Percent of total	Use (MBTU)	Percent of total		
Fuel Oil #2 B20	680	0.0%	52,354	0.5%	62,885	0.6%		
Fuel Oil #2 B10	1,146,312	9.9%	865,825	8.4%	1,108,802	10.9%		
Fuel Oil #2 B5	278,290	2.4%	512,003	4.9%	402,142	4.0%		
Fuel Oil #4 B5	1,857,500	16.0%	1,259,664	12.2%	847,964	8.3%		
Gas	4,291,652	37.0%	3,781,584	36.5%	3,866,411	38.0%		
Electricity	3,742,576	32.2%	3,629,837	35.0%	3,612,151	35.5%		
Steam	257,863	2.2%	212,305	2.0%	215,585	2.1%		
Subtotal non-renewable energy	11,574,874	99.7%	10,313,571	99.6%	10,115,940	99.5%	-2%	-6.9%
Solar	38,507	0.3%	44,169	0.4%	52,356	0.5%		
Subtotal renewable energy	38,507	0.3%	44,169	0.4%	52,356	0.5%	19%	678,465%
Total consumption (mmBTUs)	11,613,381		10,357,740		10,168,296		-2%	-6.4%

M* MMBTU = one million British thermal units of heat

Demand Response – Electricity Programs
(Con Ed and NY Independent Systems Operator)

Schools enrolled	
FY22	366
FY23	453
FY24	445

Demand Response – Natural Gas Program (National Grid)

	Max Schools enrolled	Max Capacity enrolled Dekatherm (Dth)/Event
FY22	45	2,015
FY23	71	2,843
FY24	78	

Energy Use Intensity (EUI)

	Total square footage	EUI (KBTU/sq. ft.)	EUI year over year change	EUI change from FY08 baseline
FY22	162,082,800	71.24	11.1%	-4.0%
FY23	163,144,800	62.90	-12.1%	-15.2%
FY24	164,167,200	61.94	-2.4%	-16.5%
Average	163,131,600	65.69	-0.7%	-11.4%

Energy Use Intensity (EUI) is energy use per square foot per year, as defined by the U.S. Environmental Protection Agency’s Portfolio Manager tool for energy benchmarking.

Energy Star Performance for NYCPS Properties

Score	FY22 (CY21 Rpt)		FY23 (CY22 Rpt)		FY24 (CY23 Rpt)	
	Number of Bldgs*	% of Bldgs	Number of Bldgs*	% of Bldgs	Number of Bldgs*	% of Bldgs
75 or higher	548	39.4%	372	26.9%	538	36.7%
50–74	464	33.4%	520	37.6%	493	33.7%
25–49	211	15.2%	298	21.5%	213	14.5%
24 or below	121	8.7%	154	11.1%	125	8.5%
No score available	47	3.4%	39	2.8%	95	6.5%
Total buildings	1,391		1,383		1,464	

To align with citywide energy efficiency building performance reporting, NYCPS has updated reporting criteria from EPA Energy Star Portfolio Manager property accounting to report only active NYCPS buildings published in Municipal Benchmarking Report. This is based on City Covered Buildings List annually updated by NYC Department of Finance.

NYCPS shifted on reporting Energy Star Performance from number of properties to Borough-Block-Lot or BBLs as required by NYC Departments of Buildings and Finance to align with their naming convention. The Energy Star scores for FY24 (using CY23 data), under this reporting criteria are below as reported in the NYC Municipal Benchmarking Report.

Energy Star Score	# of Borough-Block-Lot (BBLs)	% of School Buildings
A	231	18.5%
B	339	27.2%
C	257	20.6%
D	382	30.7%
N	37	3.0%

ACE Energy Efficiency Projects in FY24

Borough	Building Code	Type of Work	Cost Savings	GHG Savings (tCO ₂ e)
Brooklyn	K018	Steam System Optimization	\$3,487.17	24
Brooklyn	K025	Steam System Optimization	\$5,825.32	40
Brooklyn	K072	Domestic Hot Water Heater	\$22,120.00	83
Brooklyn	K093	Domestic Hot Water Heater	\$18,604.00	75
Brooklyn	K099	Steam System Optimization	\$4,538.00	31.2
Brooklyn	K137	Steam System Optimization	\$4,834.22	14.4
Brooklyn	K221	Domestic Hot Water Heater	\$21,255.00	78
Brooklyn	K270	Domestic Hot Water Heater	\$15,940.00	59
Brooklyn	K273	Domestic Hot Water Heater	\$17,954.00	73
Brooklyn	K290	Domestic Hot Water Heater	\$6,087.00	24
Brooklyn	K306	Domestic Hot Water Heater	\$19,433.00	79
Brooklyn	K318	Domestic Hot Water Heater	\$23,200.00	97
Brooklyn	K391	Domestic Hot Water Heater	\$22,031.00	84
Brooklyn	K486	Steam System Optimization	\$7,384.24	34.4
Brooklyn	K590	Steam System Optimization	\$5,895.86	35.5
Brooklyn	K610	Steam System Optimization	\$5,640.10	38.7
Bronx	X030	Domestic Hot Water Heater	\$14,453.00	62
Bronx	X062	Domestic Hot Water Heater	\$28,541.00	105
Bronx	X109	Domestic Hot Water Heater	\$20,453.00	75
Bronx	X126	Domestic Hot Water Heater	\$20,159.00	82
Bronx	X145	Domestic Hot Water Heater	\$26,348.00	109
Bronx	X161	Domestic Hot Water Heater	\$12,942.00	54
Bronx	X192	Domestic Hot Water Heater	\$31,296.00	116
Bronx	X206	Domestic Hot Water Heater	\$4,089.00	16
Bronx	X600	Domestic Hot Water Heater	\$43,277.00	191

Borough	Building Code	Type of Work	Cost Savings	GHG Savings (tCO ₂ e)
Manhattan	M137	Domestic Hot Water Heater	\$8,701.00	19
Manhattan	M833	Domestic Hot Water Heater	\$43,281.00	95
Manhattan	M894	Domestic Hot Water Heater	\$45,631.00	100
Queens	Q022	Domestic Hot Water Heater	\$11,437.00	49
Queens	Q041	Steam System Optimization	\$4,625.96	28.5
Queens	Q133	Steam System Optimization	\$3,995.00	27.4
Queens	Q179	Domestic Hot Water Heater	\$12,829.00	41
Queens	Q219	Domestic Hot Water Heater	\$14,167.00	57
Queens	Q460	Domestic Hot Water Heater	\$40,631.00	200
Staten Island	R007	Steam System Optimization	\$12,100.32	60.4
Staten Island	R008	Steam System Optimization	\$4,182.36	28.7
Staten Island	R016	Steam System Optimization	\$10,108.28	47.1
Staten Island	R020	Steam System Optimization	\$6,580.56	32.8
Staten Island	R022	Steam System Optimization	\$5,867.28	38.8
Staten Island	R032	Steam System Optimization	\$7,497.17	42.3
Staten Island	R042	Steam System Optimization	\$9,159.16	45.7
Staten Island	R042	Domestic Hot Water Heater	\$11,198.00	45
Staten Island	R045	Boiler Controls Upgrade	\$3,535.74	18.71
Staten Island	R054	Steam System Optimization	\$9,086.13	45.3
Staten Island	R440	Boiler Controls Upgrade	\$6,339.17	33.54

ExCEL Energy Efficiency Projects in FY24

Borough	Building Code	Type of Work	Cost Savings	GHG Savings (tCO ₂ e)
Brooklyn	K001	Steam Trap Replacement	\$7,791.72	47.61
Brooklyn	K022	Boiler Control Upgrade	\$3,220.19	21.1
Brooklyn	K022	Steam Trap Replacement	\$9,107.16	55.66
Brooklyn	K025	Boiler Control Upgrade	\$2,670.00	17.5
Brooklyn	K046	Boiler Fresh Air Damper Replacement	\$9,354.00	25.7
Brooklyn	K051	Steam Trap Replacement	\$22,818.64	62.9
Brooklyn	K052	Boiler Control Upgrade	\$7,609.07	68.6
Brooklyn	K071	Steam Trap Replacement	\$17,936.04	49.5
Brooklyn	K075	Demand Control Ventilation Installation	\$3,254.00	18.1
Brooklyn	K113	Boiler Fresh Air Damper Replacement	\$20,506.00	56.4
Brooklyn	K117	Boiler Control Upgrade	\$10,693.00	135.9
Brooklyn	K131	Boiler Fresh Air Damper Replacement	\$14,017.60	38.5
Brooklyn	K149	Steam Trap Replacement	\$20,601.34	116.52
Brooklyn	K157	Steam Trap Replacement	\$10,789.08	52.32558
Brooklyn	K174	Boiler Control Upgrade	\$4,596.00	28.3
Brooklyn	K186	Boiler Control Upgrade	\$8,622.10	56.3
Brooklyn	K186	Steam Trap Replacement	\$9,242.23	49.095
Brooklyn	K191	Boiler Fresh Air Damper Replacement	\$10,339.20	28.4
Brooklyn	K195	Boiler Control Upgrade	\$2,698.00	17.7
Brooklyn	K203	Boiler Control Upgrade	\$11,262.77	73.6
Brooklyn	K221	Boiler Fresh Air Damper Replacement	\$12,645.20	34.8
Brooklyn	K239	Boiler Control Upgrade	\$5,686.86	37.10
Brooklyn	K243	Boiler Fresh Air Damper Replacement	\$10,688.80	29.4
Brooklyn	K253	Boiler Control Upgrade	\$3,334.85	21.80
Brooklyn	K278	Boiler Fresh Air Damper Replacement	\$12,826.00	35.2

Borough	Building Code	Type of Work	Cost Savings	GHG Savings (tCO ₂ e)
Brooklyn	K292	Boiler Fresh Air Damper Replacement	\$21,072.00	57.9
Brooklyn	K293	Steam Trap Replacement	\$33,061.04	91.16
Brooklyn	K309	Boiler Fresh Air Damper Replacement	\$12,903.60	35.5
Brooklyn	K328	Boiler Control Upgrade	\$3,294.00	17.20
Brooklyn	K332	Boiler Fresh Air Damper Replacement	\$13,306.80	36.6
Brooklyn	K356	Chiller Start Up	\$-	0
Brooklyn	K371	Boiler Fresh Air Damper Replacement	\$2,440.00	6.7
Brooklyn	K391	Boiler Fresh Air Damper Replacement	\$10,005.20	27.5
Brooklyn	K395	Chiller Start Up	\$-	0
Brooklyn	K407	BMS Upgrade	\$4,781.90	27.90
Brooklyn	K420	Boiler Fresh Air Damper Replacement	\$64,423.60	177
Brooklyn	K425	Boiler Fresh Air Damper Replacement	\$38,236.80	105.1
Brooklyn	K425	Steam Trap Replacement	\$66,410.52	183.122
Brooklyn	K425	Steam System Optimization	\$31,676.00	87.344
Brooklyn	K455	Chiller Start Up	\$-	0
Brooklyn	K500	Pipe Insulation	\$290.00	1.7
Brooklyn	K515	B100 Burner Conversion Staten Islandon	\$(87,909.60)	1597.9
Brooklyn	K525	B100 Burner Conversion	\$(78,293.60)	1134.9
Brooklyn	K525	Chiller Start Up	\$-	0
Brooklyn	K540	Boiler Fresh Air Damper Replacement	\$26,652.70	73.2
Brooklyn	K580	Demand Control Ventilation Installation	\$3,463.00	16.3
Brooklyn	K600	Demand Control Ventilation Installation	\$1,562.00	9.1
Brooklyn	K660	Steam Trap Replacement	\$13,772.05	77.2
Brooklyn	K695	Chiller Start Up	\$-	0
Brooklyn	K801	Chiller Start Up	\$-	0

ExCEL Energy Efficiency Projects in FY24 (continued)

Borough	Building Code	Type of Work	Cost Savings	GHG Savings (tCO ₂ e)
Brooklyn	K802	Chiller Start Up	\$-	0
Brooklyn	K874	Steam Trap Replacement	\$1,832.49	9.8
Brooklyn	K914	Chiller Start Up	\$-	0
Brooklyn	K989	Chiller Start Up	\$-	0
Bronx	X033	Pipe Insulation	\$1,364.00	7
Bronx	X056	Pipe Insulation	\$1,147.00	6.1
Bronx	X078	Pipe Insulation	\$766.00	3.8
Bronx	X112	Pipe Insulation	\$24.00	0.1
Bronx	X129	Pipe Insulation	\$328.00	1.9
Bronx	X137	Pipe Insulation	\$46.00	0.2
Bronx	X137	Chiller Start Up	\$-	0
Bronx	X456	Chiller Start Up	\$-	0
Bronx	X167	Chiller Start Up	\$-	0
Bronx	X184	Pipe Insulation	\$10,556.00	50
Bronx	X194	Chiller Start Up	\$-	0
Bronx	X229	Chiller Start Up	\$-	0
Bronx	X362	BMS Upgrade	\$29,109.56	190.4
Bronx	X405	Chiller Start Up	\$-	0
Bronx	X655	Chiller Start Up	\$-	0
Manhattan	M008	Boiler Control Upgrade	\$1,499.00	7.3
Manhattan	M008	Pipe Insulation	\$107.00	0.5
Manhattan	M052	Steam Trap Replacement	\$55,392.24	152.7
Manhattan	M056	Demand Control Ventilation Installation	\$33,653.00	37.1
Manhattan	M056	Pipe Insulation	\$726.00	0.8
Manhattan	M089	Chiller Start Up	\$-	0

Borough	Building Code	Type of Work	Cost Savings	GHG Savings (tCO ₂ e)
Manhattan	M206	Demand Control Ventilation Installation	\$1,319.00	8
Manhattan	M115	Boiler Control Upgrade	\$10,862.00	71.3
Manhattan	M115	Steam Trap Replacement	\$7,288.14	36.3
Manhattan	M118	Steam Trap Replacement	\$20,814.88	57.4
Manhattan	M128	Pipe Insulation	\$2,784.00	11.6
Manhattan	M133	Boiler Control Upgrade	\$5,509.00	30.40
Manhattan	M142	Demand Control Ventilation Installation	\$845.00	5.1
Manhattan	M153	Pipe Insulation	\$3,848.00	20
Manhattan	M158	Pipe Insulation	\$1,381.00	8.2
Manhattan	M165	Boiler Control Upgrade	\$2,380.00	12.20
Manhattan	M165	Pipe Insulation	\$250.00	1.3
Manhattan	M166	Steam Trap Replacement	\$1,708.70	9.77
Manhattan	M848	Pipe Insulation	\$1,548.00	8.2
Manhattan	M199	Pipe Insulation	\$440.00	0.5
Manhattan	M234	Chiller Start Up	\$-	0
Manhattan	M267	BMS Upgrade	\$11,436.18	55.9
Manhattan	M267	Chiller Start Up	\$-	0
Manhattan	M271	Chiller Start Up	\$-	0
Manhattan	M282	Chiller Start Up	\$-	0
Manhattan	M435	Boiler Control Upgrade	\$5,067.00	27.8
Manhattan	M435	Pipe Insulation	\$104.00	0.6
Manhattan	M440	Pipe Insulation	\$384.00	2.1
Manhattan	M465	Pipe Insulation	\$539.00	2.6
Manhattan	M477	Chiller Start Up	\$-	0
Manhattan	M485	Chiller Start Up	\$-	0

ExCEL Energy Efficiency Projects in FY24 (continued)

Borough	Building Code	Type of Work	Cost Savings	GHG Savings (tCO ₂ e)
Manhattan	M488	Chiller Start Up	\$-	0
Manhattan	M490	Chiller Start Up	\$-	0
Manhattan	M520	Chiller Start Up	\$-	0
Manhattan	M535	Chiller Start Up	\$-	0
Manhattan	M620	Chiller Start Up	\$-	0
Manhattan	M625	Pipe Insulation	\$182.00	1
Manhattan	M660	Boiler Control Upgrade	\$2,236.00	12.9
Manhattan	M833	Chiller Start Up	\$-	0
Manhattan	M834	Chiller Start Up	\$-	0
Manhattan	M841	Chiller Start Up	\$-	0
Manhattan	M868	Chiller Start Up	\$-	0
Manhattan	M894	Chiller Start Up	\$-	0
Queens	Q009	LED Lighting Upgrade	\$13,278.44	17.5
Queens	Q010	LED Lighting Upgrade	\$20,962.85	24.5
Queens	Q014	LED Lighting Upgrade	\$48,494.07	82
Queens	Q819	Pipe Insulation	\$1,043.00	6.29
Queens	Q023	LED Lighting Upgrade	\$7,069.05	7.6
Queens	Q026	LED Lighting Upgrade	\$22,646.52	23.5
Queens	Q045	Pipe Insulation	\$12.00	0.08
Queens	Q048	LED Lighting Upgrade	\$5,763.24	11.1
Queens	Q056	Steam Trap Replacement	\$2,615.62	13.9
Queens	Q056	Steam System Optimization	\$44.95	0.0507
Queens	Q058	Chiller Start Up	\$-	0
Queens	Q059	Demand Control Ventilation Installation	\$1,734.00	5.4
Queens	Q062	Pipe Insulation	\$163.00	1.05

Borough	Building Code	Type of Work	Cost Savings	GHG Savings (tCO ₂ e)
Queens	Q067	Demand Control Ventilation Installation	\$1,527.00	10.3
Queens	Q069	Chiller Start Up	\$-	0
Queens	Q082	LED Lighting Upgrade	\$18,661.23	25.1
Queens	Q094	LED Lighting Upgrade	\$11,743.17	11.4
Queens	Q095	LED Lighting Upgrade	\$21,821.72	26
Queens	Q099	Chiller Start Up	\$-	0
Queens	Q104	Pipe Insulation	\$63.00	0.33
Queens	Q104	LED Lighting Upgrade	\$18,789.20	19.8
Queens	Q105	Pipe Insulation	\$8.00	0.04
Queens	Q106	LED Lighting Upgrade	\$11,957.91	15.2
Queens	Q117	LED Lighting Upgrade	\$26,666.96	25.8
Queens	Q123	LED Lighting Upgrade	\$18,499.73	13
Queens	Q133	Demand Control Ventilation Installation	\$1,725.00	9.5
Queens	Q133	Pipe Insulation	\$190.00	0.96
Queens	Q137	Chiller Start Up	\$-	0
Queens	Q141	Demand Control Ventilation Installation	\$3,209.00	17.9
Queens	Q147	Pipe Insulation	\$124.00	0.86
Queens	Q173	LED Lighting Upgrade	\$18,554.82	18.5
Queens	Q198	Chiller Start Up	\$-	0
Queens	Q204	Boiler Control Upgrade	\$2,295.00	11.8
Queens	Q219	Chiller Start Up	\$-	0
Queens	Q226	Chiller Start Up	\$-	0
Queens	Q245	BMS Upgrade	\$4,117.76	24.60
Queens	Q266	Steam Trap Replacement	\$7,128.65	25.5
Queens	Q266	Steam System Optimization	\$7,197.82	25.7

ExCEL Energy Efficiency Projects in FY24 (continued)

Borough	Building Code	Type of Work	Cost Savings	GHG Savings (tCO ₂ e)
Queens	Q287	Pipe Insulation	\$17.00	0.08
Queens	Q322	LED Lighting Upgrade	\$8,011.93	10.3
Queens	Q415	Chiller Start Up	\$-	0
Queens	Q425	Chiller Start Up	\$-	0
Queens	Q452	Pipe Insulation	\$118.00	0.88
Queens	Q460	Pipe Insulation	\$1,341.00	6.75
Queens	Q480	Steam Trap Replacement	\$15,712.16	84.5988
Queens	Q481	Pipe Insulation	\$532.00	2.65
Queens	Q490	Pipe Insulation	\$1,892.00	12.24
Queens	Q499	Pipe Insulation	\$418.00	2.13
Queens	Q505	Chiller Start Up	\$-	0
Queens	Q515	Chiller Start Up	\$-	0
Queens	Q600	BMS Upgrade	\$23,561.92	147.4
Queens	Q690	Chiller Start Up	\$-	0
Queens	Q725	Chiller Start Up	\$-	0
Queens	Q750	LED Lighting Upgrade	\$5,071.47	6.5
Queens	Q848	LED Lighting Upgrade	\$3,652.88	7
Queens	Q858	LED Lighting Upgrade	\$7,039.58	11.3
Queens	Q868	Chiller Start Up	\$-	0

Borough	Building Code	Type of Work	Cost Savings	GHG Savings (tCO ₂ e)
Staten Island	R880	Chiller Start Up	\$-	0
Staten Island	R001	Steam Trap Replacement	\$1,092.92	5.09
Staten Island	R001	Steam System Optimization	\$3,718.80	13.4
Staten Island	R011	Steam Trap Replacement	\$8,940.45	41.73
Staten Island	R011	Steam System Optimization	\$6,424.80	27.9
Staten Island	R034	Steam System Optimization	\$14,276.00	39.4
Staten Island	R816	Pipe Insulation	\$155.00	0.07
Staten Island	R058	Chiller Start Up	\$-	0
Staten Island	R445	Chiller Start Up	\$-	0
Staten Island	R451	Pipe Insulation	\$20,252.00	55.84
Staten Island	R829	Steam System Optimization	\$10,607.44	36.3
Staten Island	R831	Steam Trap Replacement	\$5,354.33	22.38
Staten Island	R831	Steam System Optimization	\$2,464.98	7.93

Retro-commissioning (RCx) Projects in FY24

Borough	Building Code	Cost Savings	GHG Savings (tCO ₂ e)
Brooklyn	K067	\$25,540.00	126.03
Brooklyn	K131	\$5,055.00	21.39
Brooklyn	K135	\$11,435.00	63.17
Brooklyn	K152	\$4,790.00	27.70
Brooklyn	K181	\$2,906.00	18.04
Brooklyn	K218	\$3,953.00	26.22
Brooklyn	K287	\$6,339.00	32.33
Brooklyn	K307	\$20,923.00	105.31
Brooklyn	K331	\$(2,789.00)	-15.59
Brooklyn	K437	\$6,362.00	49.90
Brooklyn	K521	\$5,745.00	32.08
Brooklyn	K814	\$11,954.00	34.95
Bronx	X057	\$186.00	7.27
Bronx	X078	\$9,921.00	49.46
Bronx	X101	\$151.00	0.73
Bronx	X111	\$895.00	5.83
Bronx	X112	\$674.00	0.94
Bronx	X129	\$20,110.00	96.25
Bronx	X177	\$22,328.00	43.34
Bronx	X292	\$(1,354.00)	-6.53

Borough	Building Code	Cost Savings	GHG Savings (tCO ₂ e)
Manhattan	M271	\$(4,653.00)	-34.60
Manhattan	M338	\$21,719.00	41.96
Manhattan	M343	\$9,344.00	61.69
Manhattan	M520	\$6,615.00	7.81
Manhattan	M814	\$(7,514.00)	-37.93
Manhattan	M868	\$(132.00)	1.22
Queens	Q120	\$4,230.50	20.57
Queens	Q205	\$1,926.00	0.00
Queens	Q290	\$(1,684.00)	-4.45
Queens	Q312	\$14,748.00	66.28
Queens	Q313	\$2,870.00	5.45
Queens	Q314	\$6,819.00	31.29
Queens	Q315	\$703.00	9.15
Queens	Q316	\$3,933.00	15.93
Queens	Q320	\$193.00	1.25
Queens	Q339	\$(501.00)	-0.91
Queens	Q404	\$(9,279.00)	-34.19
Queens	Q722	\$(654.00)	-3.66
Staten Island	R056	\$1,339.00	9.35
Staten Island	R071	\$900.00	3.83
Staten Island	R450	\$78,461.00	366.12

Direct Install LED Lighting Projects in FY24

Borough	Building Code	Cost Savings	GHG Savings (tCO ₂ e)
Brooklyn	K029	\$22,272.68	13.02
Brooklyn	K185	\$12,411.89	8.17
Brooklyn	K188	\$21,671.79	16.38
Brooklyn	K217	\$54,387.29	33.77
Brooklyn	K224	\$38,963.74	18.59
Brooklyn	K237	\$58,423.08	41.54
Brooklyn	K241	\$15,593.69	10.17
Brooklyn	K345	\$27,330.28	18.44
Brooklyn	K366	\$20,732.00	13.66
Brooklyn	K395	\$65,112.54	49.35
Brooklyn	K399	\$16,374.33	12.49
Brooklyn	K435	\$61,391.70	39.45
Brooklyn	K458	\$60,797.62	34.39
Brooklyn	K505	\$72,380.29	31.95
Brooklyn	K840	\$2,918.74	1.40
Brooklyn	K842	\$5,019.11	3.46
Brooklyn	K853	\$6,927.87	5.35
Brooklyn	K867	\$2,463.09	1.93
Brooklyn	K905	\$5,140.79	3.89
Bronx	X008	\$16,655.77	11.30
Bronx	X009	\$25,246.92	16.75
Bronx	X024	\$24,833.92	20.44
Bronx	X033	\$20,708.47	15.53
Bronx	X036	\$20,944.13	14.90
Bronx	X037	\$20,506.44	13.50

Borough	Building Code	Cost Savings	GHG Savings (tCO ₂ e)
Bronx	X044	\$20,168.02	12.44
Bronx	X054	\$21,176.79	14.73
Bronx	X073	\$23,902.19	14.61
Bronx	X074	\$43,738.24	31.85
Bronx	X076	\$16,579.51	10.85
Bronx	X102	\$64,180.92	40.84
Bronx	X103	\$23,991.87	14.17
Bronx	X107	\$20,819.29	12.64
Bronx	X109	\$27,900.03	20.53
Bronx	X115	\$46,816.76	28.44
Bronx	X120	\$26,284.87	21.55
Bronx	X141	\$36,036.14	24.11
Bronx	X143	\$34,412.80	23.93
Bronx	X171	\$20,080.28	12.51
Bronx	X235	\$35,817.85	24.01
Bronx	X360	\$25,155.89	15.57
Bronx	X430	\$77,535.35	47.60
Bronx	X600	\$87,890.20	53.99
Bronx	X808	\$3,261.46	3.35
Bronx	X839	\$28,755.96	18.64
Bronx	X899	\$5,052.55	3.26
Bronx	X923	\$7,097.19	4.14
Bronx	X926	\$6,038.70	3.55
Manhattan	M011	\$23,492.27	14.60
Manhattan	M046	\$21,393.83	10.23

Borough	Building Code	Cost Savings	GHG Savings (tCO ₂ e)
Manhattan	M063	\$25,064.86	14.39
Manhattan	M081	\$19,156.42	11.55
Manhattan	M090	\$72,678.98	43.37
Manhattan	M164	\$25,882.46	18.05
Manhattan	M166	\$30,873.06	19.14
Manhattan	M173	\$28,577.61	18.46
Manhattan	M183	\$13,169.68	7.53
Manhattan	M390	\$961.04	0.62
Manhattan	M451	\$19,088.01	17.06
Manhattan	M506	\$41,770.37	31.98
Manhattan	M625	\$82,120.26	57.60
Manhattan	M646	\$50,537.62	34.77
Manhattan	M660	\$21,662.77	13.24
Queens	Q045	\$13,307.00	13.91
Queens	Q062	\$20,907.00	21.85
Queens	Q064	\$13,406.00	14.01
Queens	Q109	\$37,673.70	22.79
Queens	Q120	\$32,827.20	23.11
Queens	Q137	\$51,767.82	31.20
Queens	Q149	\$31,689.06	26.49
Queens	Q212	\$35,900.00	26.54
Queens	Q214	\$20,007.19	12.99
Queens	Q216	\$41,166.40	27.11
Queens	Q231	\$29,359.81	17.65
Queens	Q232	\$21,622.32	19.22

Direct Install LED Lighting Projects in FY24 (continued)

Borough	Building Code	Cost Savings	GHG Savings (tCO ₂ e)
Queens	Q239	\$22,787.00	23.82
Queens	Q251	\$12,461.89	9.58
Queens	Q253	\$35,292.41	25.88
Queens	Q425	\$55,994.47	38.06
Queens	Q426	\$1,838.84	0.83
Queens	Q515	\$86,074.98	60.10
Queens	Q907	\$6,786.72	5.97
Staten Island	R027	\$38,302.67	18.09
Staten Island	R049	\$24,195.05	17.39
Staten Island	R445	\$67,786.19	53.19

WASTE

DSNY Clean and Green Schools Award Winners

Borough	Building Code	Custodial Staff Winners
Brooklyn	K390	Kerry Collymore
Brooklyn	K056	Silas Clark
Brooklyn	K188	Entire Custodial Team
Brooklyn	K541	John Sarno
Manhattan	M218	Edward Irizarry & Will Clarke
Manhattan	M034	Entire Custodial Team
Manhattan	M195	Wilson Caraballo
Manhattan	M153	Entire Custodial Team
Manhattan	M192	Arisleyda Almonte
Queens	Q314	Joseph Maneri

SUSTAINABILITY PROJECT GRANT WINNERS

Category: Climate Action & Advocacy

Borough	Building Code	School Name
Brooklyn	K009	Public School 9 The Sarah Smith Garnet School
Brooklyn	K151	P.S. 151 Lyndon B. Johnson
Brooklyn	K430	Brooklyn Technical High School
Brooklyn	K540	John Dewey High School
Bronx	X064	Lucero Elementary School
Bronx	X085	P.S. 085 Great Expectations
Bronx	X137	Theatre Arts Production Company School
Bronx	X143	The Marie Curie School for Medicine, Nursing, and Health Professions
Bronx	X415	Pelham Preparatory Academy
Manhattan	M009	P.S. 009 Sarah Anderson
Manhattan	M034	P.S. 034 Franklin D. Roosevelt
Manhattan	M152	P.S. 152 Dyckman Valley
Manhattan	M188	P.S. 188 The Island School
Manhattan	M197	P.S. 197 John B. Russwurm
Manhattan	M874	Baruch College Campus High School
Queens	Q002	P.S. 002 Alfred Zimberg
Queens	Q019	P.S. 019 Marino Jeantet

Category: Gardens & Outdoor Learning

Borough	Building Code	School Name
Brooklyn	K020	P.S. 020 Clinton Hill
Brooklyn	K046	Fort Greene Preparatory Academy
Brooklyn	K046	P.S. 046 Edward C. Blum
Brooklyn	K050	J.H.S. 050 John D. Wells
Brooklyn	K059	P.S. 059 William Floyd
Brooklyn	K093	P.S. 093 William H. Prescott
Brooklyn	K106	P.S. 106 Edward Everett Hale
Brooklyn	K110	P.S. 110 The Monitor
Brooklyn	K130	P.S. 130 The Parkside
Brooklyn	K131	P.S. 131 Brooklyn
Brooklyn	K147	Young Women's Leadership School of Brooklyn
Brooklyn	K162	J.H.S. 162 The Willoughby
Brooklyn	K163	P.S. 748 Brooklyn School for Global Scholars
Brooklyn	K166	Van Siclen Community Middle School
Brooklyn	K177	P.S. 177 The Marlboro
Brooklyn	K191	P.S. 191 Paul Robeson
Brooklyn	K193	P.S. 193 Gil Hodges
Brooklyn	K219	P.S. 219 Kennedy-King
Brooklyn	K224	P.S. 224 Hale A. Woodruff
Brooklyn	K240	I. S. 381
Brooklyn	K258	P.S. K140
Brooklyn	K263	P.S./I.S. 323
Brooklyn	K273	P.S. K004
Brooklyn	K275	Brooklyn Democracy Academy
Brooklyn	K286	P.S. K811 Connie Lekas School
Brooklyn	K298	Brownsville Collaborative Middle School

Category: Gardens & Outdoor Learning (continued)

Borough	Building Code	School Name
Brooklyn	K302	Liberty Avenue Middle School
Brooklyn	K328	P.S. 328 Phyllis Wheatley
Brooklyn	K380	P.S. 380 John Wayne Elementary
Brooklyn	K384	P.S. /I.S. 384 Frances E. Carter
Brooklyn	K398	P.S. 398 Walter Weaver
Brooklyn	K450	East Williamsburg Scholars Academy
Brooklyn	K480	The Academy of Urban Planning and Engineering
Brooklyn	K480	The Brooklyn School for Social Justice
Brooklyn	K625	Pathways in Technology Early College High School (P-Tech)
Brooklyn	K655	Brooklyn High School of the Arts
Brooklyn	K722	P.S. K721 - Brooklyn Occupational Training Center
Brooklyn	K746	MS 936 Arts Off 3rd
Brooklyn	K902	P.S. K077
Bronx	X001	P.S. 001 Courtlandt School
Bronx	X011	P.S. 011 Highbridge
Bronx	X015	P.S. 291
Bronx	X026	P.S. 396
Bronx	X057	Frederick Douglass Academy V. Middle School
Bronx	X061	P.S. 061 Francisco Oller
Bronx	X082	Academy for Language and Technology
Bronx	X090	The Family School
Bronx	X109	P.S. 109 Sedgwick
Bronx	X110	P.S. 110 Theodore Schoenfeld
Bronx	X254	I.S. 254
Bronx	X285	The Highbridge Green School

Borough	Building Code	School Name
Bronx	X405	Herbert H. Lehman High School
Bronx	X450	Antonia Pantoja Preparatory Academy: A College Board School
Bronx	X450	Bronx Community High School
Manhattan	M028	P.S. 028 Wright Brothers
Manhattan	M048	P.S. 048 P.O. Michael J. Buczek
Manhattan	M083	P.S. 083 Luis Munoz Rivera
Manhattan	M084	P.S. 084 Lillian Weber
Manhattan	M108	P.S. 108 Assemblyman Angelo Del Toro Educational Complex
Manhattan	M118	P.S. 333 Manhattan School for Children
Manhattan	M176	Muscota
Manhattan	M199	P.S. 199 Jessie Isador Straus
Manhattan	M206	P.S. 206 Jose Celso Barbosa
Manhattan	M323	M.S. 297
Manhattan	M470	The Urban Assembly School for Green Careers
Manhattan	M615	Chelsea Career and Technical Education High School
Manhattan	M751	Manhattan School for Career Development
Queens	Q017	P.S. 017 Henry David Thoreau
Queens	Q037	P.S. Q811
Queens	Q060	P.S. 060 Woodhaven
Queens	Q061	I.S. 061 Leonardo Da Vinci
Queens	Q074	J.H.S. 074 Nathaniel Hawthorne
Queens	Q171	P.S. 171 Peter G. Van Alst
Queens	Q200	P.S./M.S. 200 - The Magnet School of Global Studies and Leadership
Queens	Q228	The Ivan Lafayette Early Childhood School of the Arts

Borough	Building Code	School Name
Queens	Q254	P.S. 254 - The Rosa Parks School
Queens	Q311	Corona Arts & Sciences Academy
Queens	Q339	The Woodside Community School
Queens	Q405	Bayside High School
Queens	Q430	Francis Lewis High School
Queens	Q435	P.S. Q177
Queens	Q505	Hillcrest High School
Queens	Q566	P.S. Q811
Queens	Q570	P.S. Q993
Staten Island	R042	P.S. 042 Eltingville
Staten Island	R061	I.S. 061 William A Morris
Staten Island	R062	The Kathleen Grimm School for Leadership and Sustainability
Staten Island	R086	The Richard H. Hungerford School
Staten Island	R460	Susan E. Wagner High School

Category: Sustainability & Climate Education

Borough	Building Code	School Name
Brooklyn	K073	Brooklyn Environmental Exploration School (BEES)
Brooklyn	K132	P.S. 132 The Conselyea School
Brooklyn	K135	P.S. 135 Sheldon A. Brookner
Brooklyn	K174	Brooklyn Gardens Elementary School
Brooklyn	K176	P.S. 176 Ovington
Brooklyn	K305	Academy of Arts and Letters
Brooklyn	K313	Urban Assembly Institute of Math and Science for Young Women
Bronx	X070	P.S. 070 Max Schoenfeld
Bronx	X095	Ampark Neighborhood
Bronx	X162	I.S. 584
Bronx	X175	P.S. 175 City Island
Bronx	X425	Bronx Aerospace High School
Bronx	X779	P.S. 315 Lab School
Manhattan	M007	P.S. 007 Samuel Stern
Manhattan	M060	East Side Community School
Manhattan	M079	P.S. M079 - Horan School
Manhattan	M164	Community Math & Science Prep
Manhattan	M464	P.S. 150
Manhattan	M475	High School for Health Professions and Human Services
Manhattan	M490	High School for Law, Advocacy and Community Justice
Manhattan	M816	P.S. 527 - East Side School for Social Action
Queens	Q073	I.S. 73 - The Frank Sansivieri Intermediate School
Queens	Q180	Scholars' Academy
Queens	Q777	The Riverview School

Category: Tower Garden & Training

Borough	Building Code	School Name
Brooklyn	K002	P.S. K141
Brooklyn	K174	School of the Future Brooklyn
Brooklyn	K180	P.S. K231
Brooklyn	K190	P.S. 190 Sheffield
Brooklyn	K243	Launch Expeditionary Learning Charter School
Brooklyn	K251	P.S. 251 Paerdegat
Brooklyn	K257	P.S. 257 John F. Hylan
Brooklyn	K366	The Science And Medicine Middle School
Brooklyn	K422	Academy for Young Writers
Brooklyn	K440	Brooklyn School for Music & Theatre
Brooklyn	K450	The High School for Enterprise, Business and Technology
Bronx	X002	Eximius College Preparatory Academy: A College Board School
Bronx	X102	Archer Elementary School
Bronx	X360	P.S. 360
Bronx	X884	Community School for Social Justice
Bronx	X972	Bronx Charter School for the Arts
Manhattan	M045	River East Elementary
Manhattan	M096	P.S. 096 Joseph Lanzetta
Manhattan	M169	P.S. M169 - Robert F. Kennedy
Manhattan	M445	Lower Manhattan Arts Academy
Manhattan	M834	Independence High School
Queens	K458	Pathways to Graduation
Queens	Q035	P.S. 035 Nathaniel Woodhull
Queens	Q075	Robert E. Peary School
Queens	Q080	PS 80 The Thurgood Marshall Magnet School of Multimedia and Communication

Borough	Building Code	School Name
Queens	Q168	P.S. Q255
Queens	Q177	P.S. Q177
Queens	Q460	Queens High School for Language Studies
Staten Island	R600	Ralph R. McKee Career and Technical Education High School
Staten Island	R831	P.S. 74 Future Leaders Elementary School

Category: Water Refill Station

Borough	Building Code	School Name
Brooklyn	K067	P.S. 067 Charles A. Dorsey
Brooklyn	K120	P.S. 120 Carlos Tapia
Brooklyn	K171	I.S. 171 Abraham Lincoln
Brooklyn	K250	P.S. 250 George H. Lindsay
Brooklyn	K260	The Fresh Creek School
Brooklyn	K852	P.S. 326
Bronx	X053	P.S. 053 Basheer Quisim
Bronx	X084	P.S. X811
Bronx	X090	Sheridan Academy for Young Leaders
Bronx	X177	Bedford Park Elementary School
Bronx	X206	I.S. 206 Ann Mersereau
Bronx	X470	Mott Haven Village Preparatory High School
Bronx	X973	East Bronx Academy for the Future
Manhattan	M046	P.S. 046 Arthur Tappan
Manhattan	M092	P.S. 092 Mary McLeod Bethune
Manhattan	M093	P.S./I.S. 210 - Twenty-first Century Academy for Community Leadership
Manhattan	M175	P.S. 175 Henry H Garnet
Manhattan	M185	The Locke School of Arts and Engineering
Manhattan	M460	International High School at Union Square
Queens	Q043	P.S. 043
Queens	Q111	P.S. 111 Jacob Blackwell
Staten Island	R019	P.S. 019 The Curtis School

CLIMATE ACTION CHALLENGE WINNERS

Borough	DBN	School Name	Applicant Name
Brooklyn	13K350	Urban Assembly School of Music and Art	Bahar Brody
Brooklyn	15K015	P.S. 015 Patrick F. Daly	Sara Popow
Brooklyn	15K136	I.S. 136 Charles O. Dewey	Karen Huurman
Brooklyn	16K627	Brighter Choice Community School	Madison Weidner
Brooklyn	17K191	P.S. 191 Paul Robeson	Shirmell A. Dolphin
Brooklyn	20K200	P.S. 200 Benson School	Mei See Yip
Brooklyn	20K201	The Madeleine Brennan School	Cindy Scognamillo
Brooklyn	20K229	P.S. 229 Dyker	Kimberly Petrella
Brooklyn	22K277	P.S. 277 Gerritsen Beach	Jennifer Krol
Brooklyn	32K291	J.H.S. 291 Roland Hayes	Melissa Stagg
Bronx	08X312	Millennium Art Academy	Jennifer Kokiadis
Bronx	09X070	P.S. 070 Max Schoenfeld	Bess Metcalf
Bronx	10X237	The Marie Curie School for Medicine, Nursing, and Health Professions	Jacqueline Davis
Bronx	10X353	World View High School	Deborah Reich
Bronx	10X696	High School of American Studies at Lehman College	Aoife Walsh
Bronx	75X811	P.S. X811	Orlean Sorio
Manhattan	01M539	New Explorations into Science, Technology and Math High School	Joan Christou
Manhattan	02M006	P.S. 006 Lillie D. Blake	Allison Godshall
Manhattan	02M615	Chelsea Career and Technical Education High School	Jennifer Donlan Cretens
Manhattan	03M199	P.S. 199 Jessie Isador Straus	Joellen Schuleman
Manhattan	03M333	P.S. 333 Manhattan School for Children	Shakira Provasoli
Manhattan	05M197	P.S. 197 John B. Russwurm	Rony Delerme
Queens	24Q585	Maspeth High School	Aaron Bell
Queens	25Q024	P.S. 024 Andrew Jackson	Elizabeth Zullo
Queens	26Q133	P.S. 133 Queens	Amanda Arcuri
Queens	26Q172	Irwin Altman Middle School 172	Margaret Borger
Queens	27Q063	P.S. 063 Old South	Marykate Meyer
Queens	27Q317	Waterside Children's Studio School	Susan L Harter
Queens	30Q166	P.S. 166 Henry Gradstein	Leonida Waxman
Queens	75Q075	Robert E. Peary School	Sahar Aziz
Queens	75Q177	P.S. Q177	Jazmin Jurado

Policies and Regulations

NYCPS POLICY

- **Chancellor’s Regulation A-850:** Outlines the roles of the CEO of Division of School Facilities (DSF), Director of Sustainability, Deputy Director of Recycling, Deputy Director of Energy, Principals, Custodian Engineers, and Sustainability Coordinators. Personal appliances that would unnecessarily increase school plug load, such as personal refrigerators and microwaves, are banned from NYCPS offices and classrooms.

ENERGY

- **Local Law 33/95:** Requires that all buildings covered by Local Law 84 (Energy Benchmarking) post the building’s Energy Efficiency Rating (A–D) and score (1–100) near all public main entrances to increase transparency on energy performance. Grade and score are determined by the EPA ENERGY STAR data established by LL84 from the previous calendar year to be posted annually by October 31.
- **Local Law 24:** Outlines NYCPS contribution to solar readiness assessment for NYC municipal buildings.
- **Local Law 45:** Requires the Department of Citywide Administrative Services (DCAS) to report on electricity and fossil fuel usage, real-time metering, and assessments of or improvements made to the envelopes of covered facilities.
- **Local Law 84:** Requires owners of large buildings to measure (benchmark) energy consumption and submit the data to the City.
- **Local Law 85:** Requires building renovation and alteration projects to meet New York City Energy Conservation Code (NYCECC).

- **Local Law 86:** City-funded capital projects with construction costs of \$2 million or more must be designed to LEED Silver or higher ratings; projects with costs of \$12 million or more must reduce energy costs by 20–30% below ASHRAE standards.
- **Local Law 87:** Buildings over 50,000 square feet or larger must undergo audits and retro-commissioning every ten years to determine energy consumption.
- **Local Law 88:** Large non-residential buildings are required to upgrade lighting fixtures to NYCECC code and electrical sub-meters must be installed.
- **Local Law 92/94:** Both new construction and properties that are undergoing replacement of the entire roof deck or roof assembly are required to install a sustainable roofing zone.
- **Local Law 97 – Climate Mobilization Act:** Requires a reduction in emissions by a minimum of 40% by 2025 and 50% by 2030, with One City Built to Last requiring a 63% reduction in building emissions by 2050.
- **Executive Order 26:** New York City’s commitment to Principles and Goals of Paris Climate Agreement.

WASTE

- **Local Law 36:** Every New York City agency, including NYCPS, must submit a waste prevention, reuse, and recycling report.
- **Local Law 41:** Outlines the recycling requirements for NYCPS, including:
 - All buildings owned and leased by NYCPS, including schools and administrative buildings, are to recycle all recyclable materials.

- The Chancellor must appoint a Director of Sustainability to oversee the recycling program, outline goals and policies to promote waste prevention, reuse, and recycling programs in all NYCPS Schools, charter schools, and other facilities and offices under their jurisdiction.
- All school Principals must appoint a Sustainability Coordinator from the school staff. The Sustainability Coordinator cannot be the Principal or the Custodian Engineer.
- All schools and administrative offices must prepare and submit a recycling plan, which at a minimum requires that every class have separate and appropriately labeled bins for trash and recyclable paper, and for school buildings to have recycling bins for metal, glass, and plastic materials as close to the school exit as possible without violating safety codes.
- The school Principal or Sustainability Coordinator must participate in an annual survey conducted by the NYCPS Director of Sustainability; which helps review each school’s and the City’s progress on recycling activities. The Director of Sustainability must submit an annual recycling report to the NYC Department of Sanitation.
- All primary and secondary schools that are not under the jurisdiction of the NYCPS but receive department collection services must also appoint a Sustainability Coordinator and implement a waste prevention and recycling plan.
- **Local Law 65:** Requires NYCPS to develop a plan to reduce food waste.

- **Local Law 77:** Requires the NYC Department of Sanitation to establish a voluntary residential organic waste curbside collection pilot program and school organic waste collection pilot program.
- **Executive Order 42:** City agencies must stop purchasing single-use plastic foodware and replace it with compostable or recyclable alternatives; a small supply of plastic items must be available upon request for people who need them.

GREEN PROCUREMENT

- **Local Law 118 (2005):** Mandated the creation of a Director of Citywide Environmental Purchasing to institute new purchasing standards as according to environmental guidelines. The Director must also update environmental legislative standards and submit an annual report on the City’s purchasing of environmentally sound products.
- **Local Law 119 (2005):** Reviews current usage of energy efficient merchandise and set the water and energy efficiency minimum standards for products purchased by the City.

- **Local Law 120 (2005):** The law formed the standards for acquiring products comprising of hazardous materials, while also developing regulations on reducing the volume of hazardous materials produced from the goods purchased by the City. In addition to the hazardous materials policy, the law also mandates that the City set up a plan to reuse and recycle electronic goods.
- **Local Law 120 (2021):** Requires that all school buses in use shall be all-electric zero emission school buses, subject to availability and reliability of all-electric zero emission buses, and availability of related infrastructure, including charging stations and bus depots.
- **Local Law 121 (2005):** The law revised printer default settings for City offices to print double-sided, while also establishing the minimum recycled content standards for a number of goods set by the Federal Comprehensive Procurement Guideline.

- **Local Law 123 (2005):** The law established that the City of New York develop a program to evaluate the practicability of green cleaning and implement a citywide green cleaning program by 2009.
- **New York State Green Cleaning Law:** Enacted as Chapter 584 of the Laws of 2005, the State Green Cleaning Law requires elementary and secondary schools to obtain and utilize environmentally delicate cleaning and maintenance products. The New York State Office of General Services updated the law in 2010 to include state agencies and public authorities.

WATER

- **MS4 (Municipal Separate Storm Sewer System) Permit:** This permit is required under the Clean Water Act, issued by New York State Department of Environmental Conservation (DEC), and coordinated by the NYC Department of Environmental Protection (DEP). The intent is for the City to implement measures to reduce pollution in stormwater runoff.

Methodology

ENERGY & CLIMATE

To calculate greenhouse gas (GHG) emissions, we examined NYCPS energy bills. Electricity, natural gas and municipal steam consumption data was obtained through the Department of Citywide Administrative Services (DCAS)’s Energy Cost Control and Conservation (EC3) online portal using the latest available data. Fuel oil and biodiesel blend consumption is based on fuel oil delivery bills, as tracked by Division of School Facilities’ Office of Finance, under the assumption that the amount of fuel oil delivered reflects its usage during the year.

Greenhouse gases included in these calculations (carbon dioxide (CO₂), methane (NH₄) and nitrous oxide (N₂O) were normalized into metric tons of

carbon dioxide equivalent (CO₂e), using emission factors and conversion units established by the 2021–2022 NYC City Government GHG Inventories and the Global Protocol for Community-Scale GHG Inventories, per the U.S. Environmental Protection Agency. Emissions factors for fuel oil and biodiesel blends were derived as proportional estimate for respective fuel oil type based on the percentage of biodiesel at each facility.

The emissions profiles described in the Energy and Climate section refer to emissions from all buildings under NYCPS’ operational control, meaning those under the supervision of a Custodian Engineer (under the Division of School Facilities) and for which NYCPS is required to benchmark energy

consumption. These are the sites for which the City pays energy bills under NYCPS and where fuel oil is delivered (where/if applicable).

For energy efficiency projects, estimated energy consumption reductions, cost savings, and emissions reductions were calculated as part of funding applications for the DCAS ACE and ExCEL programs. These applications require calculations for each specific project type because projects are prioritized for funding based on impact potential (i.e. greatest emissions reductions). Solar data is based on two main criteria: (1) new solar installations- system size (capacity); and (2) project completion dates. The Demand Response data comes directly from NuEnergen, the City’s third party program provider.

2023-2024

Annual Report

Office of Energy & Sustainability

