



NY Power
Authority

Canal
Corporation

Building the Path to a **Sustainable Energy Future**

2023 INTEGRATED REPORT

Table of Contents

INTRODUCTION

3

A Message from the Chairman
A Message from the President and CEO

ABOUT US

6

NYPA by the Numbers
New York Power Authority
New York State Canal Corporation
Our 2023 Performance
About Our 2023 Integrated Report

GOVERNANCE

12

Maintaining Sound Governance
Sustainability Governance
Risk Management

STRATEGY AND VALUE CREATION

21

VISION2030: Our Strategic Plan
Strategic Priorities and Foundational Pillars
Key Goals and Targets
NYPA's Expanded Authority and Related Directives
Stakeholders
Understanding Our Value Creation Process
Sustainability and Our ESG Material Matters

PERFORMANCE AND OUTLOOK

33

Preserve Hydropower
Decarbonize Electricity Generation
Lead Transmission Expansion
Partner with Customers and the State
Revitalize the Canal System
Integrating Sustainability
Looking Forward

DISCLOSURES INDEX

59

FINANCIAL STATEMENTS

85



01

INTRODUCTION

—
A Message from
the Chairman

—
A Message from
the President and CEO

A Message from **the Chairman**

As we navigate the dynamic landscape of energy and climate, NYPA remains steadfast in its commitment to leading New York State's ambitious decarbonization efforts. Our intent—which is spelled out in detail in this report—is clear: to drive the state's transition to a low-carbon future while ensuring this transformation is just, equitable and inclusive.

New York's Climate Leadership and Community Protection Act (CLCPA) sets forth some of the most aggressive decarbonization goals in the nation. These goals—achieving 70% renewable energy by 2030 and a zero-emission electricity sector by 2040—are woven into our strategic initiatives. We are dedicated to embedding sustainability in every facet of our operations, from the generation and transmission of power to the development of innovative customer solutions that pave the way for a greener future.

We are making significant progress in operationalizing the goals of the CLCPA—NYPA is putting steel in the ground. Our commitment is exemplified through projects like Smart Path and the 20-megawatt Northern New York Energy Storage Project, which were both completed in 2023. These initiatives enhance the reliability and resilience of our grid, enabling the efficient flow of renewable energy across the state, and reducing congestion costs and delivery expenses. By modernizing our infrastructure, we ensure that clean energy is not only generated but also accessible to all New Yorkers.

Innovation is the cornerstone of our strategy. Through significant capital investments like Next Generation Niagara, we are optimizing our hydropower facilities, ensuring they remain a reliable source of clean energy for decades to come. Our Advanced Grid Innovation Laboratory for Energy is another example of our innovative spirit, providing the research and development tools needed to accelerate the transformation of New York State's energy infrastructure.

A critical aspect of our mission is ensuring that the benefits of decarbonization are equitably distributed. This includes our work with the Metropolitan Transportation Authority to electrify public transit, reducing emissions in some of the state's most densely populated areas. We are also dedicated to managing New York's waterways responsibly through New York State Canal Corporation initiatives that promote recreational tourism and support local economies while preserving our natural resources for generations to come.

NYPA's issuance of green bonds underscores our financial commitment to sustainable development. These bonds enable us to fund projects that align with our environmental goals, ensuring that our investments contribute to a cleaner and more resilient energy system.

Our dedication to diversity, equity and inclusion is fundamental to our existence and is essential to our employees' on-the-job experiences. We are proud to invest in NYPA's Supplier Diversity Program, fostering partnerships with minority- and women-owned businesses. This strengthens our supply chain and ensures our economic impact is felt across all communities.

The just transition is about more than shifting away from fossil fuels; it is about creating opportunities and ensuring no one is left behind. Our work generates value for all New Yorkers, contributing to a sustainable, inclusive and prosperous future.

As we reflect on our accomplishments and look toward the future, we are inspired by the progress we have made and the possibilities that lie ahead. Our expanded authority to pursue renewable generation projects marks a significant milestone in our journey. It further empowers us to deliver on Gov. Kathy Hochul's energy vision and drive New York towards a cleaner, greener and more equitable energy future.

The road ahead is filled with challenges, but it is also brimming with potential. I have no doubt that NYPA will once again rise to the occasion, this time by ushering in an era of clean energy with lasting benefits for our great state.

Sincerely,



John R. Koelmel
Chairman



A Message from **the President & CEO**

There are moments and actions in the New York Power Authority's 93-year history that—because of their importance to New York State and its people—cannot be overlooked when making a list of our greatest accomplishments.

Some are historical, like the construction of our large hydropower projects. Others are underway today, especially in transmission, where projects like Central East Energy Connect and Smart Path Connect are expanding our asset base and making it easier to bring much-needed power into the electric grid.

We are also at the start of an exciting phase in which NYPA is preparing to build, own and operate new renewable generation sources. By bringing more renewables to the marketplace, NYPA will help New York State meet its ambitious clean energy goals.

These anticipated renewable generation projects will enhance our existing roster, which reliably provides more than 20% of the state's energy, with more than 80% of that total coming from clean, low-cost hydropower. We continue to invest in the long-term success of those power projects; in 2023, we celebrated another milestone in our 15-year, \$1.1 billion Next Generation Niagara capital improvement program with the first of 13 turbine unit refurbishments at the Robert Moses Power Plant.

Our determination to decarbonize New York's energy system is more than a technical endeavor; it is a moral imperative. NYPA is working to ensure the clean energy transition is just, equitable and inclusive so that all New Yorkers benefit from the environmental and economic advantages of renewable energy.

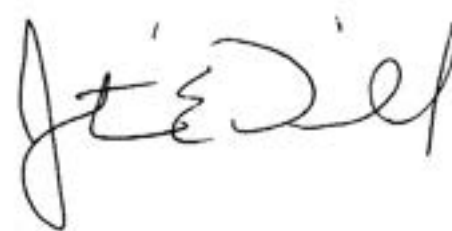
With the state's support, we are ensuring a sustainable future for our subsidiary, the New York State Canal Corporation. A \$50 million capital investment included in the state's Fiscal Year 2025 Enacted Budget will help NYPA keep the Canal System safe and ensure it continues to act as an economic driver for the communities along its banks.

We have also applied NYPA and Canals' engineering expertise to keep the waterways resilient. In 2023 we conducted a comprehensive dam safety initiative to reinforce earthen embankments; and performed detailed assessments of 125 Canal System dams to inform short- and long-term planning.

As we look ahead, we are inspired by our many past successes and the enormous potential that lies before us. As you will read in this report, the expanded authority that NYPA received from state lawmakers in 2023—which will allow us to pursue renewable generation projects, promote clean energy workforce development and decarbonize state facilities—will strengthen our ability to lead New York towards a cleaner, greener and more equitable energy future.

We are united in our excitement and commitment to these challenges. We are poised to deliver on this vision with innovation, determination and a deep sense of purpose that will bring lasting benefits to all who live and work in New York State.

Sincerely,



Justin E. Driscoll

President &
Chief Executive Officer



02

ABOUT US

NYPA by the
Numbers

New York
Power Authority

New York State
Canal Corporation

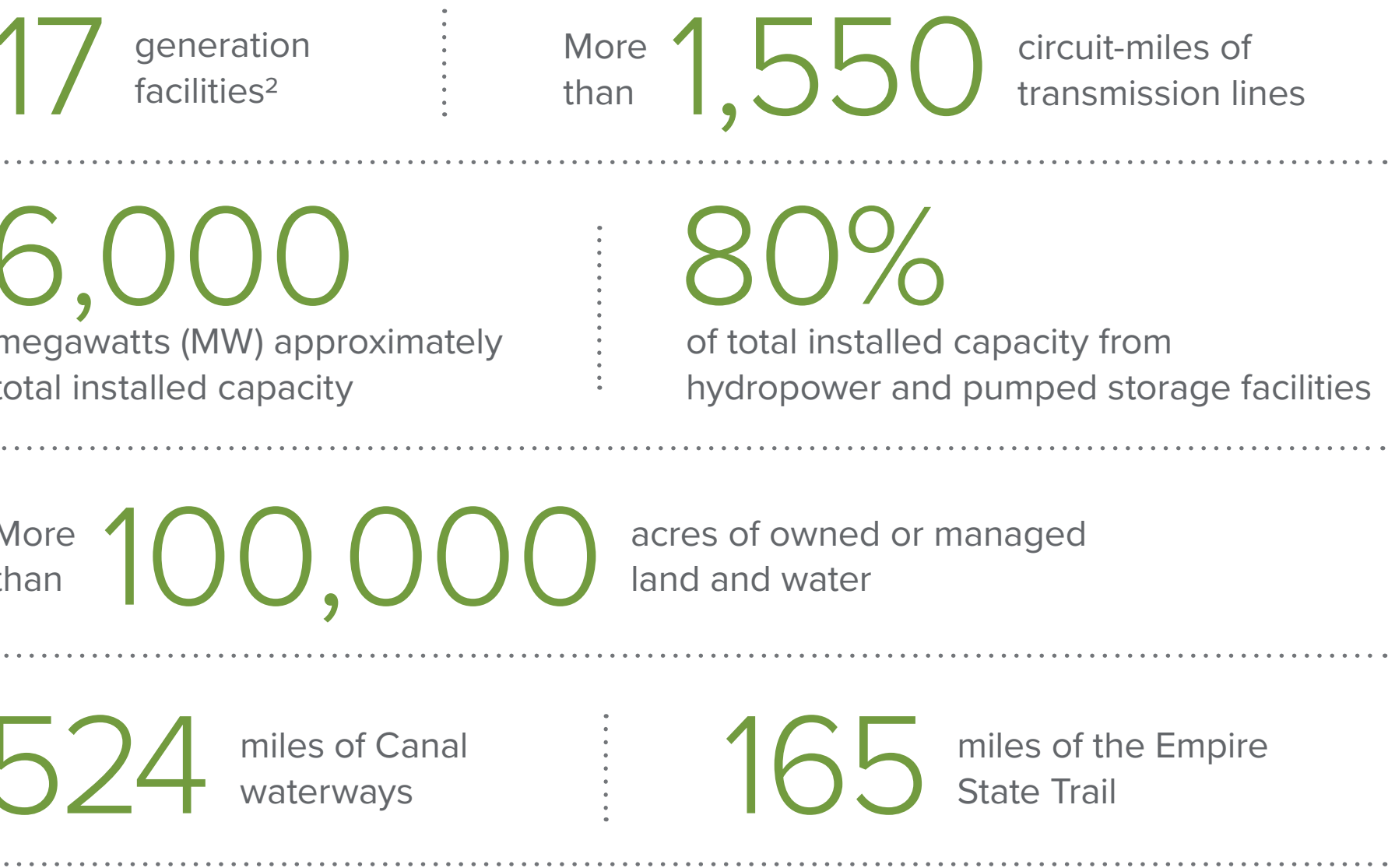
Our 2023
Performance

About Our
2023 Integrated Report

NYPA by the Numbers

The New York Power Authority (NYPA) and New York Canal Corporation (Canals)¹ provide clean, renewable energy and economic opportunity for New York State.

Assets



Operations

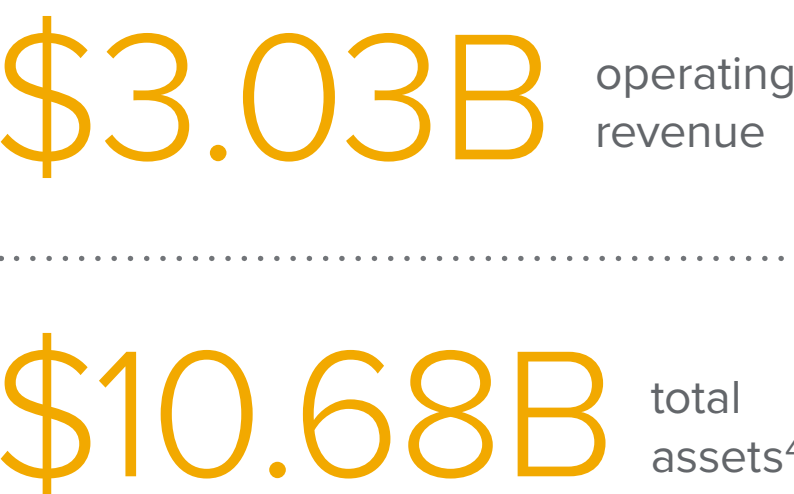


¹Canals became a subsidiary of NYPA in 2017
²Includes a new utility-scale battery energy storage system
³NYPA's carbon-free energy is hydropower. Statewide carbon-free energy resources include hydropower, wind, solar, and nuclear.
⁴Includes deferred outflows

Customers



Financials



New York Power Authority

Through customer partnerships, innovative energy solutions and the responsible supply of affordable, clean and reliable electricity, NYPA is leading the transition to a carbon-free, economically vibrant New York State.

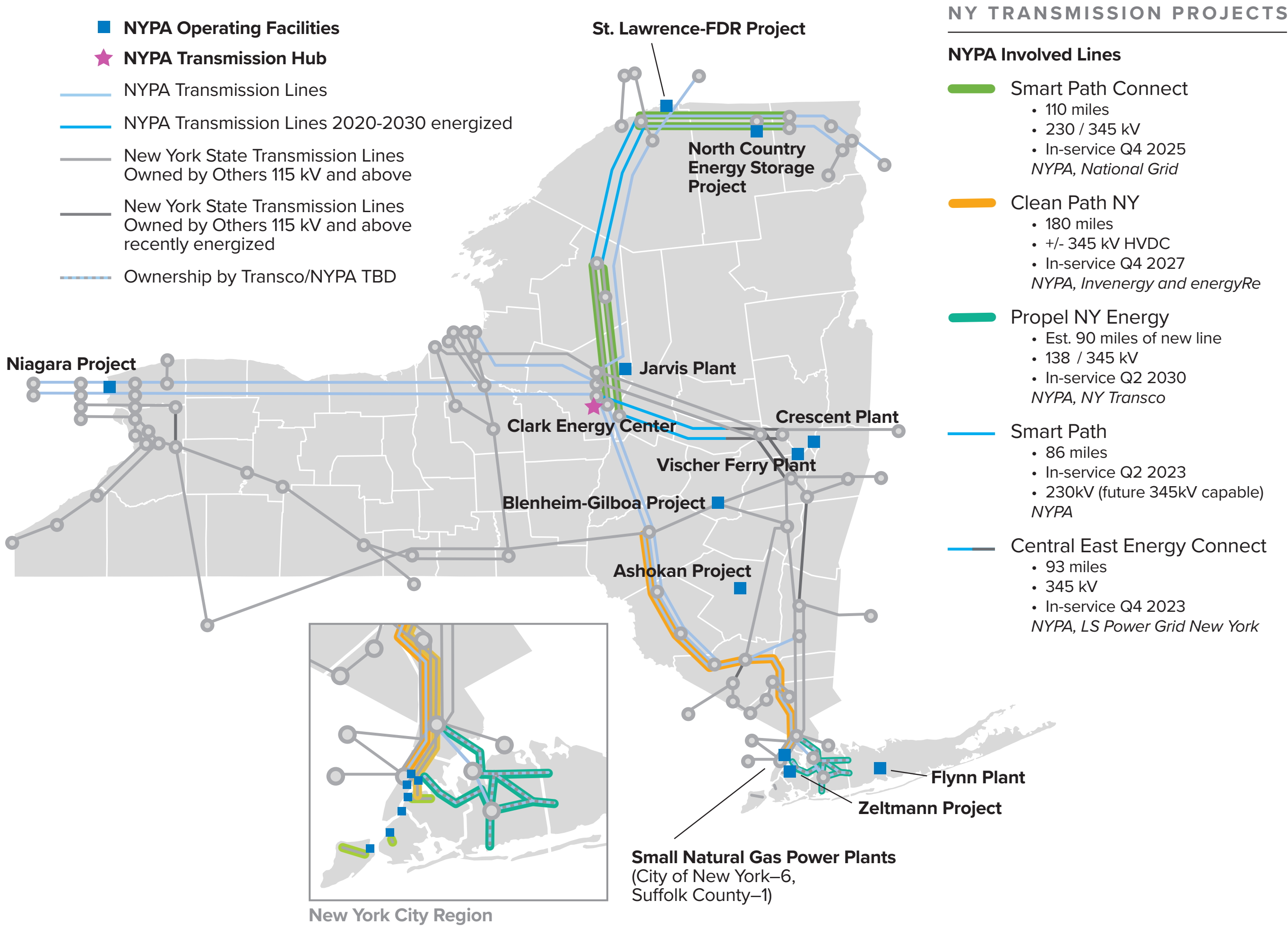
NYPA was founded in 1931 and is the largest state electric utility in the United States. We own and operate two large hydropower generating facilities; one pumped storage project; two fossil fuel-powered generating facilities; seven small natural gas power plants (SNGPPs), including four dual units; four small hydroelectric facilities; and one utility-scale battery energy storage system. We provide customers with low-cost electricity without receiving any tax money or state credit to support our work. In 2023, 84% of our power generation was clean, renewable hydropower, helping make New York State a national clean energy leader.

Our customers include municipal and rural electric cooperatives; investor-owned utilities; high-load factor industrial customers; commercial/industrial and not-for-profit businesses; public entities; local towns, villages, school districts and fire departments; and neighboring states. We provide our customers with electricity and offer energy services to help them achieve their decarbonization and electrification goals. Our low-cost, clean hydropower promotes economic development and supports more than 455,000 jobs in New York State.

The 2023-24 Enacted State Budget included four new areas of responsibility for NYPA, one of which expanded our authority to develop, own and operate renewable energy generation projects to help meet the state’s clean energy targets. This builds on our efforts of the past decade to upgrade our hydropower projects and supply the state with carbon-free electricity, expand New York’s transmission system and more. Learn more on [our website](#).

NYPA’s Captive Insurance Company

In 2023, we formed the NYPA Captive Insurance Company (the Captive), a wholly owned subsidiary of NYPA that provides coverage for risks not insurable in traditional commercial markets or which are prohibitively expensive to insure. NYPA expects Captive will create an efficient and effective claims handling process that allows us to manage risks more effectively and reduce costs as we expand clean energy development. For more on the Captive, please see our [2023 Financial Statements](#).



New York State Canal Corporation

The mission of the New York State Canal Corporation (Canals) is to operate and maintain a premier waterway and trail system that honors the historic legacy of the Erie Canal and offers unique recreational and tourism opportunities while promoting sustainable economic development throughout the canal corridor.

Canals, a subsidiary of NYPA, operates, maintains and promotes the New York State Canal System. The Canal System includes the Erie, Champlain, Oswego and Cayuga-Seneca canals, and links the Hudson River with the Great Lakes, the Finger Lakes and Lake Champlain. It also includes the 365-mile Canalway Trail, which follows original towpaths running from Albany to Buffalo and from Albany to Whitehall—and is part of the 750-mile Empire State Trail, the nation’s longest multi-use recreational trail network.

Our Canals revitalization initiatives focus on strengthening the resilience of the Canal System’s historic infrastructure and conserving the natural environments in which the Canals are located for generations to come. Our programs offer unique recreational and tourism opportunities to promote sustainable economic development throughout the canal corridor. Learn more about our revitalization efforts on [our website](#).



Canals Infrastructure



LOCKS

57 concrete chambers with gates on both sides that fill up with or release water to enable vessels to transit changing elevations.



EMBANKMENTS

Over 130 miles of water-impounding embankments carrying the canal above surrounding communities.



UPLAND DISPOSAL SITES

Upland disposal sites (UDS) to store fill from dredging, ensuring navigable depth.



LIFT BRIDGES

17 lift bridges and more than 100 other types of bridges that carry traffic and pedestrians over the Erie Canal while providing clearance to allow transiting vessels to pass.



MOVABLE DAMS

Eight movable dams that artificially raise the water level of the Mohawk River to support navigation. In addition to movable dams, there are about 100 fixed dams.



VESSELS

More than 100 vessels for positioning buoys during navigation season, removing debris, moving large equipment and more.

Our 2023 Performance

Preserve Hydropower & Decarbonize Electricity Generation

84%	\$1.431B
of electricity generated by hydropower and pumped storage facilities	investments in net plant hydropower generation, including modernization
22.6M	1.8M
megawatt hours (MWh) of hydropower generated	metric tons carbon dioxide equivalent (CO ₂ e) Scope 1 emissions ¹
39,063	6.8M
metric tons CO ₂ e market-based Scope 2 emissions ²	metric tons CO ₂ e reported Scope 3 emissions ²

Partner with Customers & the State

28%	\$53.8B	455,000+
savings across all power supply customers ³	in customer capital investment commitments	customer job creation/retention commitments
\$233M	40,360	20,227
in energy-efficiency projects implemented at customer facilities	MWh conserved through customer energy-efficiency projects	metric tons CO ₂ e avoided through customer energy-efficiency projects
47%	\$121M	
of total spend with local suppliers	spent with minority- and women-owned businesses	

Invest in Our People

47.4%	female and	21.1%	people of color (POC) representation in executive leadership
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120,897	hours of training provided to employees (regulatory, skill and developmental)
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Support Our Communities

4M	visitors to the Canals for tourism, recreation and education
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¹**Scope 1 emissions:** The New York Independent System Operator (NYISO) controls the dispatch of New York State generating assets. NYPA's Scope 1 emissions fluctuate as our generating assets are selected for dispatch by the NYISO.

²Reported Scope 3 emissions include upstream fuel- and energy-related activities not included in Scope 1 or Scope 2 (category 3), employee business travel (category 6) and employee commuting (category 7).

³Savings relative to estimated applicable local supply and delivery rates

Scopes 1, 2 and 3 emissions: The CLCPA directs state entities to use 20-year Global Warming Potential (GWP) values from the Intergovernmental Panel on Climate Change Fifth Assessment Report (AR5; see page 6 in the New York State Department of Environmental Conservation [NYS DEC] 2023 Statewide GHG Emissions Report). Read the full [Statement of Greenhouse Gas Emissions with Independent Accountants' Review Report \(limited assurance, Scopes 1, 2 and certain Scope 3 Emissions, 2023\)](#) thereon.

About Our 2023 Integrated Report

This report provides an overview of the operations and activities carried out by NYPA and its subsidiary, Canals, from Jan. 1, 2023, to Dec. 31, 2023.¹ Sections 1-6 of the report apply the International Integrated Reporting Framework of the IFRS Foundation (<IR> Framework). These sections also aim to address the 15 environmental, social and governance (ESG) material matters identified in NYPA’s 2020 ESG materiality assessment. Section 7 of the report presents NYPA’s 2023 audited financial statements.

Basis of Preparation for Sections 1 to 6

NYPA’s 2023 Integrated Report applies the latest version of the <IR> Framework issued in Jan. 2021 and aims to align with the most recent Global Reporting Initiative (GRI) Standards and the Sustainability Accounting Standards Board (SASB) standards for electric utilities and power generators. Unless otherwise noted, this report and the data presented encompass the 2023 calendar year.

The report follows leading methodologies, such as those developed by the Greenhouse Gas Protocol (GHGP), the Climate Leadership and Community Protection Act (CLCPA) and the New York State Department of Environmental Conservation (NYSDEC). We are also compliant with Part 496 of the New York Codes, Rules and Regulations.

Nonfinancial and ESG data: The data in this report was collected by representatives from departments and facilities across NYPA. Estimations, exclusions and additions are noted where applicable. All disclosures are validated, reviewed and approved by the respective data owners, and approved by the Executive Management Committee (EMC). NYPA has obtained independent limited assurance for Scopes 1, 2 and and certain disclosed Scope 3 greenhouse gas (GHG) emissions data but other nonfinancial information is not subject to audit by a third party.

About materiality: The terms “materiality” and “material matters” refer to ESG matters identified in NYPA’s 2020 ESG materiality assessment as having the greatest potential impact on the business and the greatest importance to our stakeholders. This definition of materiality within an ESG context aligns with the definitions established by GRI and the <IR> Framework. NYPA does not use materiality terms as they are used in securities laws or other laws in the U.S. or any other jurisdiction or as used in the context of financial statements and financial reporting.

Reporting uncertainties: Nonfinancial information is subject to measurement uncertainties inherent in the methods used for determining such data. The selection of different but acceptable measurement techniques and estimations can result in materially different measurements. The precision of different measurement techniques may also vary.

Forward-looking statements: Forward-looking statements in this report, including the message from the president and CEO, may contain statements that, to the extent they are not recitations of historical fact, may constitute “forward-looking statements.” In this respect, the words “may,” “will,” “could,” “should,” “plan,” “predict,” “schedule,” “estimate,” “project,” “anticipate,” “expect,” “intend,” “believe,” “potential,” “continue” and similar expressions or terminology, and the negative of

these terms, are intended to identify forward-looking statements.

Any such forward-looking statements are subject to a variety of risks and uncertainties that could cause actual results to differ materially from those that have been projected. Some of the factors that could cause actual results to differ materially are discussed in NYPA’s Financial Report for the year ended Dec. 31, 2023, available in Section 7 of this report, and other reports filed with New York State, and include effects of pandemics, changes in economic conditions, mandates from other governments, reduced governmental allocations and various other events, conditions and circumstances, many of which are beyond the control of NYPA.

These forward-looking statements represent NYPA’s expectations only as of the date of this report, and NYPA disclaims any obligation or undertaking to release publicly any updates or revisions to any forward-looking statement contained herein to reflect any changes in NYPA’s expectations with regard thereto or any change in events, conditions or circumstances.

Intended Use: Sections 1 to 6 of the 2023 Integrated Report were not prepared with a view to investment decisions by investors in any of NYPA’s securities; Sections 1 to 6 of the 2023 Integrated Report are not

suitable to serve as the basis for making any such investment decisions. Like other reports and documents posted on NYPA’s website, Sections 1 to 6 are provided to interested stakeholders for general information only. NYPA makes no representation concerning the accuracy or completeness of the information contained in this Report for the purpose of making investment decisions. Investment decisions by investors in any of NYPA’s securities should rely solely on the specific disclosure document prepared in connection with the applicable NYPA offering.

Abbreviations: The Power Authority of the State of New York (“NYPA”) is a corporate municipal instrumentality of the State of New York. NYPA has two subsidiaries: the New York State Canal Corporation (the “Canal Corporation”) and NYPA Captive Insurance Company (“Captive”). In Sections 1-6 of this report, NYPA, the Canal Corporation and Captive are collectively referred to as “NYPA.” References to organization-specific goals, strategies and programs are indicated where relevant.

03

GOVERNANCE

—
Maintaining Sound
Governance

—
Sustainability
Governance

—
Risk Management



Maintaining Sound Governance

Our governance framework ensures we operate effectively and hold ourselves accountable for our actions.

We define roles and responsibilities at NYPA in line with New York State regulations as well as the Public Authority Act (2005), the Public Authority Reform Act (2009) and other public authorities reform legislation. Our governance structure includes sustainability oversight and internal risk management controls that provide transparency and promote compliance as we progress towards our strategic objectives.

Our Trustees and Directors

The NYPA Board of Trustees, Canals Board of Directors and Captive Board of Directors (Trustees and Directors, or Board) oversee strategy, policies, programs, performance and management of risks, and authorize certain expenditures, including those related to VISION2030.

Trustees and Directors are appointed for staggered, limited terms by New York State’s governor with the advice and consent of the State Senate. Following their appointments, Trustees and Directors must take an oath of office and file the Independent Board Member Status and Fiduciary Duties Acknowledgement. They have one year to complete Price-Anderson Amendments Act reporting training with the Authorities Budget Office. They must also complete annual New York State Ethics Financial Disclosure filing through the New York State Commission on Ethics and Lobbying in Government. Annually, the Trustees and Directors review and certify their compliance with the Ethics Code of Conduct and Board Conflict of Interest Procedure.

In 2023, the Board updated the following joint bylaws and charters: NYPA/Canal Bylaws, Finance Committee Charter, Governance Committee Charter, Risk and Resiliency Charter.



John R. Koelmel
Chairman Since 2012

- Chair: Finance Committee
- Member: Audit, Governance and Risk and Resiliency committees



Cecily L. Morris
Since 2023

- Chair: Risk and Resiliency Committee
- Member: Finance and Governance committees



Lewis M. Warren, Jr.
Since 2023

- Member: Finance, Audit and Governance committees



Michael J. Cusick
Since 2023

- Member: Finance, Audit and Risk and Resiliency committees



Dennis G. Trainor
Since 2017

- Chair: Audit Committee
- Member: Governance and Finance committees



Laurie Wheelock
Since 2023

- Member: Finance, Audit and Risk and Resiliency committees



Bethaida González
Since 2021

- Chair: Governance Committee
- Member: Finance and Risk and Resiliency committees

Board Committees

Trustees and Directors serve on multiple NYPA and Canals joint committees. In addition to fulfilling the purposes and responsibilities outlined here, these committees perform such other responsibilities as the Trustees/Directors may assign to them.

The **Finance Committee** provides guidance to the Trustees/Directors and management concerning financial matters, including proposals for the issuance of debt, certain contracts that have a financial implication, or other financial initiatives.

The **Governance Committee** keeps the Trustees/Directors informed of current best governance practices; recommends updates to corporate governance principles; examines ethical and conflict of interest issues; and reviews and recommends bylaws for conduct of business.

The **Risk and Resiliency Committee** assists NYPA’s Trustees and Directors with fulfilling responsibilities for risk and resiliency management oversight.

The **Audit Committee** oversees the work of the Internal Audit Department and monitors all internal audits and external audits as well as management’s corrective action and implementation plans for audit findings. The Senior Vice President, Internal Audit serves on the Committee and reports directly to the Trustees and Directors.

Board and EMC Diversity



Executive Management Committee

The Executive Management Committee (EMC) is led by the president and chief executive officer, who is appointed by the trustees and confirmed by the State Senate. The EMC is responsible for upholding NYPA’s integrity as well as our commitments to our stakeholders by driving the execution of our strategy, promoting a culture of accountability and applying best practices across our operations.



Justin E. Driscoll
President and Chief Executive Officer
Since 2021



Joseph Kessler
Executive Vice President and Chief Operating Officer
Since 2016



Adam Barsky
Executive Vice President and Chief Financial Officer
Since 2019



Daniella Piper
Executive Vice President and Chief Innovation Officer
Since 2023



Lori Alesio
Executive Vice President and General Counsel
Since 2021



Karina Saslow
Senior Vice President, Human Resources
Since 2022



Robert Piascik
Senior Vice President and Chief Information and Technology Officer
Since 2018



Yves Noel
Senior Vice President and Chief Strategy Officer
Since 2019



Alexis Harley
Senior Vice President and Chief Risk and Resilience Officer
Since 2023



Charles Imohiosen
Senior Vice President, Communications and External Affairs
Since 2024



Carley Hume
Chief of Staff and Vice President Policy
Since 2021

2023 Board Meeting Resolution Highlights

Our Trustees and Directors discuss and approve key resolutions year-round. See summaries of select 2023 resolutions below. All Board resolutions and discussion topics are publicly available in the meeting minutes published on [our website](#).



In May 2023, NYPA and the Utility Workers Union of America arrived at an agreement for a 64-month contract, which the Board approved at the May meeting. In September, the Board approved a five-year contract between the Canal Corporation and the Public Employees Federation.



In May 2023, the NYPA Captive Insurance Company was established as a wholly owned subsidiary of NYPA. The Captive is intended to be used as a risk financing vehicle and will maximize the flexibility and effectiveness of NYPA’s insurance programs.



In September 2023, NYPA issued \$734 million of Green Transmission Project Revenue Bonds, Series 2023A to:

- (i) pay for capital expenditures related to the Smart Path Connect Project, including reimbursement for prior capital spending;
- (ii) fund a debt service reserve fund;
- (iii) pay capitalized interest;
- (iv) fund an operating reserve account; and
- (v) pay the costs of issuance.



In December 2023, the Board adopted a budget for 2024-2027 that consists of expenditures for operations and maintenance and capital expenditures. The NYPA budget and financial plan for 2024-2027 include Canal-related expenditures totaling \$577,000,000, of which approximately \$300,000,000 is anticipated to be funded from external sources. The budget and financial plan are contingent upon receipt of these external funds.



Over the course of 2023, the Board approved 82 MW of Western New York Hydropower and Preservation Power allocations for a term of ten years. In addition, the Board approved 169 MW of new Recharge NY Power allocations for a term of seven years.

Sustainability Governance

Managing Our Impact Responsibly

We recognize the importance of strong governance to achieving our sustainability goals, and rely on clear policies, procedures and controls to guide our efforts. NYPA’s Sustainability Policy defines relevant planning, execution, monitoring and reporting responsibilities, and requires us to create long-term and annual action plans.

Escalation & Oversight Structure



Risk Management

Risk Governance & Culture

NYPA faces a range of uncertainties due to the level and pace at which the energy industry is changing. In this dynamic environment, we seek to execute our strategy and meet the CLCPA goals and other regulatory directives in a manner that both mitigates threats and strengthens opportunities to create value for us, our stakeholders and the state.

We employ a variety of risk management techniques to promote a resilient, safe and compliant culture. Our goal is not to eliminate or avoid all risks but to leverage opportunities while reducing threats to maximize NYPA's ability to meet its mission and objectives.

Our Risk and Resilience Policy and Risk Appetite Statement provide a common framework, consistent approach and clear escalation path for addressing risks across the organization. Our programs are guided by the principles of the International Organization for Standardization (ISO) 31000 Risk Management and Committee of Sponsoring Organizations (COSO) Enterprise Risk Management frameworks.



Risk & Resilience Lifecycle

NYPA incorporates risk management and resilience strategies into our day-to-day operations as well as our long-term planning activities. We employ a consistent process across the organization that is designed to support risk-informed decision-making.



We use a variety of internal and external tools, such as workshops, audit results, benchmarking, surveys and horizon scanning to identify risks.



We assess risk across multiple risk types (operational, asset, project and enterprise) using a standardized methodology that rates the likelihood and potential impact of each risk.



Our risk-response plans typically seek to accept, avoid, transfer, share or mitigate risk through varying means such as internal controls, insurance or partnerships.



Through key risk metrics, audit reports and trends analysis, we gain visibility into shifts in our risk profile. We also scan the horizon to look for developing or emerging risk issues and maintain a holistic view of internal and external risk drivers.



Comprehensive risk reporting provides leadership with visibility into opportunities while escalating risks that have the greatest potential impact and/or that are most likely to occur.

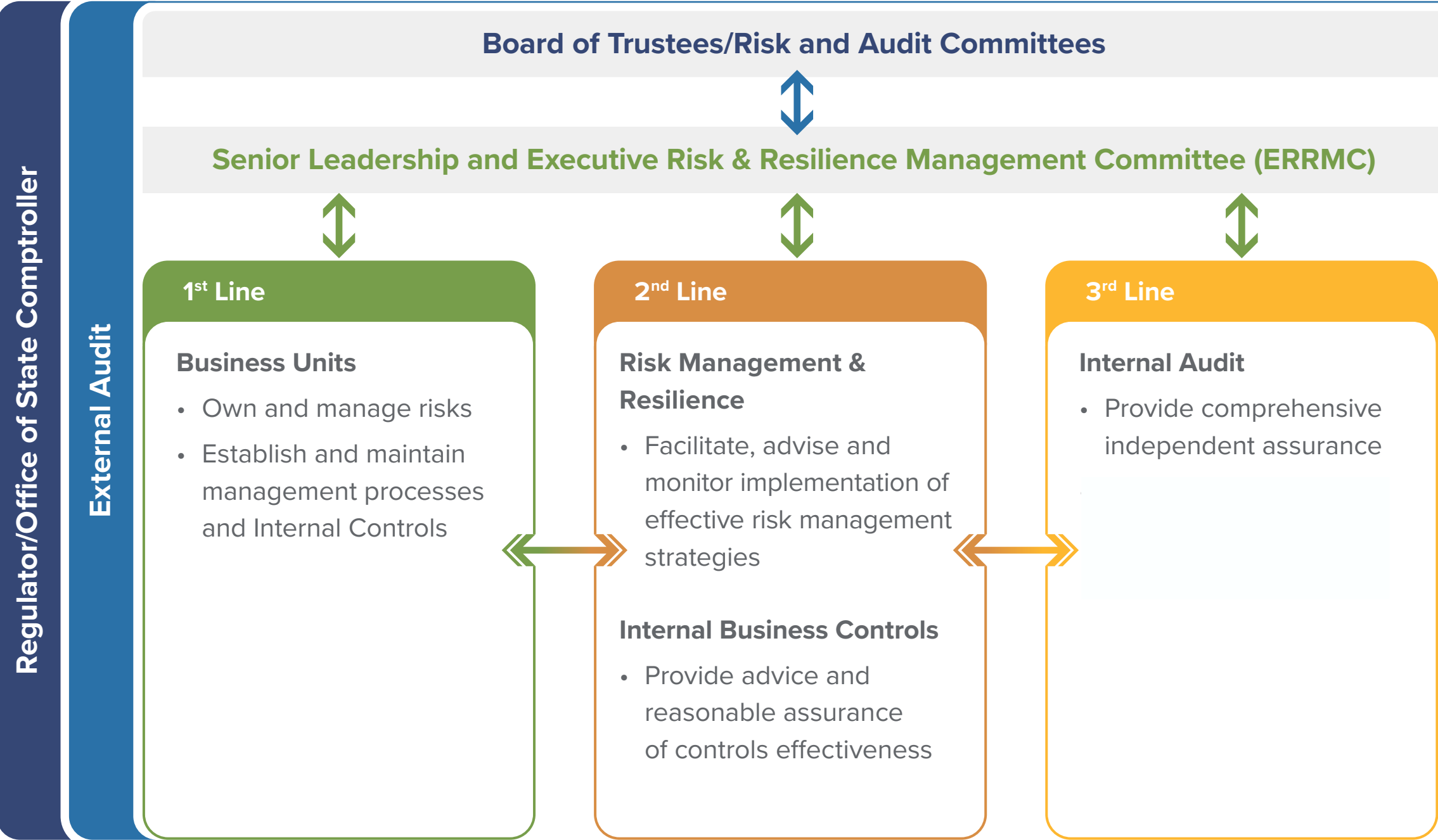
Annual Risk Assessment

All business units participate in an annual risk assessment process. Outputs are aggregated into a risk profile that is shared with all levels of the organization. Executive leadership reviews the risk profile in the context of NYPA’s risk exposure and risk appetite before discussing the results with the Board of Trustees and the Board Risk and Resiliency Committee.

NYPA maintains its enterprise, asset, project and operational risk information in a central Enterprise Governance, Risk and Compliance system. The system also houses risk-related data from departments such as Internal Audit, Internal Business Controls, Insurance, Compliance, Sustainability and Resilience.

Three Lines of Defense

Three Lines of Defense is a best practice risk-governance model that establishes roles and responsibilities among business units, assurance functions and oversight bodies. It helps us to ensure risk information is escalated to the right people, at the right level, at the right time. Through this model, we promote risk management, resilience and compliance across all levels of NYPA.



Risk Appetite

We weigh risks and rewards against 10 risk appetite categories.¹ Our Risk Appetite Statement sets forth the level of appetite agreed by leadership for each category.

In 2023, we enhanced our risk scoring methodology to improve awareness of how our risk profile compares to our risk appetite. The refreshed methodology provides a holistic view that aids risk-informed decision-making.

Our Risk Appetite Categories

	Financial Capacity and Availability of Capital		Operations
	Cyber and Physical Security		Supply Chain and Third-Party
	New Venture and Strategic Initiative		Safety and Environmental
	Legal, Regulatory and Compliance		ESG and DEI
	Extreme Weather		Talent Management and Labor Relations

¹Our Enterprise Risk Management Policy defines risk appetite as “the amount of risk or opportunities [NYPA] is willing to accept in pursuit of its mission.” This includes factors that could enhance or threaten the likelihood NYPA will achieve its business and/or strategic objectives.



Driving a Compliance Culture

The EMC and the Board of Trustees' Audit, Governance, Risk and Resiliency, and Finance committees all oversee matters related to compliance and controls. Key elements of our compliance framework follow below.

Code of Conduct & Anti-Retaliation Policy

NYPA's Code of Conduct identifies expectations for responsible and professional workplace conduct. Our Anti-Retaliation Policy prohibits harassment, discrimination and retaliation of any kind against employees who report unethical behavior. These organization-wide policies are supported by department-level policies and procedures that promote ethical conduct. Our Code of Conduct and Anti-Retaliation Policy apply to all employees and the Board of Trustees and are approved by our Trustees.

Compliance Training

We foster compliance with regulatory guidelines through training, skill development and management courses, and track mandatory employee training and reporting requirements. Our Compliance Repository plays a critical role in NYPA's Corporate Compliance Program by enabling the Office of Ethics and Compliance to track approximately 300 mandated training and reporting activities.

Regulatory Management

NYPA works closely with regulatory agencies to ensure compliance with all relevant laws and regulations. We also participate in and monitor federal and state statutory and regulatory proceedings. We believe staying informed and engaged with the latest regulations is essential to maintaining the highest levels of integrity and transparency.

04

STRATEGY & VALUE CREATION

VISION2030:
Our Strategic Plan

Strategic Priorities and
Foundational Pillars

Key Goals and
Targets

NYPA's Expanded
Authority and Related
Directives

Stakeholders

Understanding Our
Value Creation Process

Sustainability and
Our ESG Material Matters



VISION2030: Our Strategic Plan

Our vision is a thriving, resilient New York State powered by clean energy. Our mission is to lead the state's transition to a carbon-free, economically vibrant New York through customer partnerships, innovative energy solutions and the responsible supply of affordable, clean and reliable energy. VISION2030, NYPA's 10-year strategic plan, guides our work and prioritizes investments and activities to mitigate and adapt to climate change.

New York State's Climate Leadership and Community Protection Act (CLCPA) sets forth a plan to decarbonize the state's electricity grid by 2040 and reach a carbon-neutral economy by 2050. The legislation aims to ensure the availability of sustainable, reliable and affordable power for all New Yorkers and to promote growth in clean energy technology and electrification.

NYPA's VISION2030 aligns with and supports the goals of the CLCPA. It also reinforces our commitment to put the people of New York first, stimulating job creation and capital investment, and contributing to a stronger economy.

Strategic Priorities & Foundational Pillars

VISION2030 outlines NYPA’s five Strategic Priorities and five Foundational Pillars that together represent the building blocks of our strategy.

Strategic Priorities

1

Preserve and enhance the value of our hydropower assets as a core source of carbon-free power in New York State and as a source of flexibility and resilience as the state’s grid evolves.

2

Pioneer the path to decarbonization by acting as a testbed for innovation while ensuring the reliability, resilience and affordability of New York State’s energy grid.

3

Be the leading transmission developer, owner and operator for New York State and its changing needs.

4

Partner with our customers and the state to meet their energy goals in alignment with the CLCPA by providing clean and affordable energy along with innovative customer solutions.

5

Reimagine and repurpose the New York State Canal System for the economic and recreational benefit of New Yorkers while driving operational efficiency.

Foundational Pillars



Digitalization: Leverage connectivity and cutting-edge digital infrastructure to optimize our physical and data assets, enable our workforce and empower our customers.



Environmental, Social and Governance: Fully integrate ESG into NYPA by transforming leadership practices; expanding the sustainability function to encompass strategic guidance, oversight and reporting for ESG issues; and demonstrating our commitment to ESG over the long term by issuing a sustainability plan and annual integrated reports.



Diversity, Equity and Inclusion (DEI): Create an environment where every employee, business partner and community advocate feels valued. Ensure an internal culture of inclusion, a diverse supplier base and a commitment to environmental justice.



Resilience: Accelerate the adoption of an enterprise-wide resilience strategy to prepare for a more distributed and uncertain operating environment.



Resource Alignment: Ensure our workforce is as skilled and flexible as possible, access to information and knowledge is readily available and our core business processes are optimized.

NYPA 2023 INTEGRATED REPORT | 23

Key Goals & Targets

Our value creation story addresses the challenges faced by New York State, including mitigating and adapting to the rising impacts and inequities caused by climate change. We have set a target for decarbonization of generated electricity by 2035, five years ahead of the CLCPA target, to help accelerate the state’s decarbonization efforts.

New York State CLCPA Goals & Targets



Electricity Targets

70%

renewable by 2030

100%

emissions-free by 2040



Renewable Targets

10 GW

distributed solar by 2030

6 GW

storage by 2030¹

9 GW

offshore wind by 2035



Economy-Wide Targets

185 trillion

British Thermal Units (Btu) reduction through energy efficiency by 2025

40%

GHG emissions reduction by 2030 from 1990 levels

85%

GHG emissions reduction by 2050 from 1990 levels

35%

minimum of benefits from efficiency investments for disadvantaged communities, with goal of 40%

Our Goals & Targets

Preserve Hydropower

- Maintain hydropower’s annual contribution to the grid by generating at least 21 TWh of carbon-free electricity, providing capacity and critical ancillary services

Decarbonize Gas Plants

- Cease production of electricity from our carbon-emitting SNGPPs by 2030, provided certain safety and reliability conditions are met²

Lead Transmission Expansion

- Grow transmission rate base by three to five times by 2030

Partner with Customers and the State

- Enable 325 MW of distributed solar at customer sites by 2028
- Enable 450 MW of storage projects by 2030
- Conserve 11 TBtu of state facility energy use by 2025
- Grow the contracted supply business by 15% by 2025
- Respond to CLCPA goals to provide available and relevant resources to disadvantaged communities

Reimagine the Canals

- Execute the Reimagine the Canals priority capital projects by 2025

¹On Jan. 5, 2022, New York Gov. Kathy Hochul announced in her State of the State address an intention to increase the state's 2030 legislated 3 GW of storage to 6 GW of storage by 2030

²Detailed SNGPP safety and reliability conditions can be found in the expanded authority legislation, PAL § 1005 (27-c)

NYPA’s Expanded Authority and Related Directives

In 2023, the state expanded NYPA’s authority to advance renewable energy and support other state priorities. This will help us accelerate the development of renewable energy, support workforce training for jobs in the renewable energy sector, and provide for the creation of the Renewable Energy Access and Community Help (REACH) program to provide bill credits for low- and moderate-income ratepayers served by New York’s investor-owned utilities.

Renewable Generation

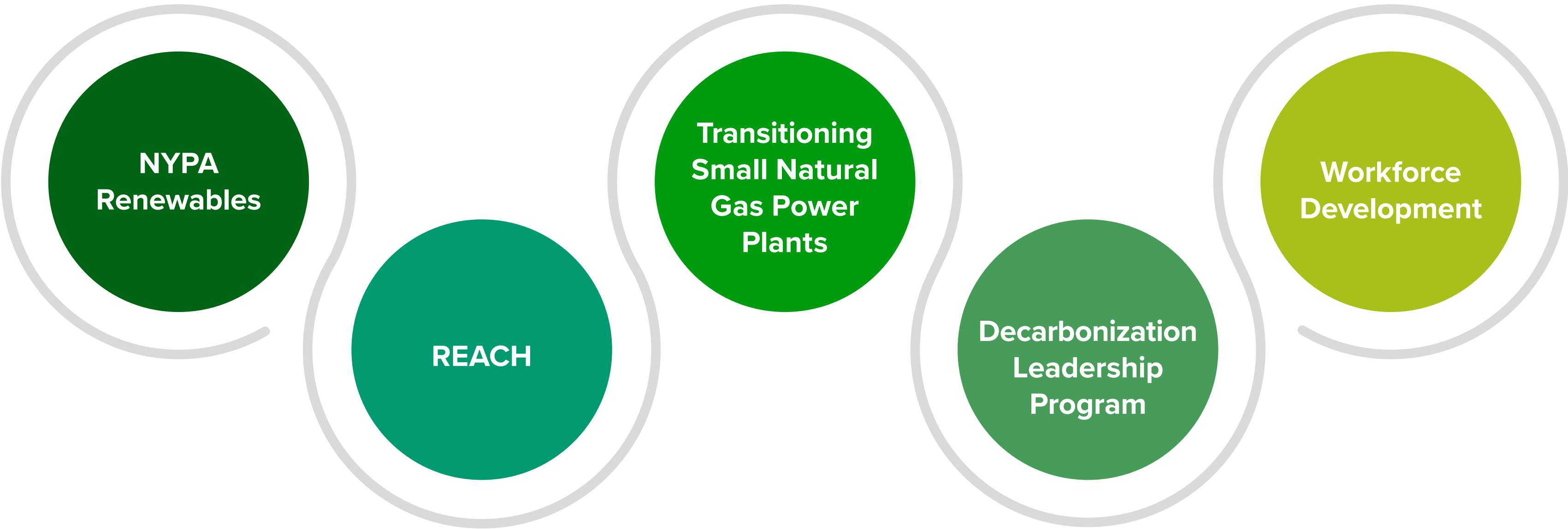
New York State’s 2023-24 Enacted Budget amended the Power Authority Act to enable NYPA to plan, design, finance and operate renewable energy generating projects, which can include solar, wind and battery storage.

Under our expanded authority, NYPA can pursue renewable generation projects independently and with other entities. We are pre-qualifying renewable development companies and investors to join us in this journey.

We will issue our first strategic plan for renewables deployment in January 2025. The report will be shaped in part by feedback we receive from stakeholders whose comments and suggestions are collected in Conferral Reports that NYPA will prepare annually. We published our first Conferral Report in November 2023.

REACH

The REACH program will provide electricity bill credits to low- and moderate-income New Yorkers. The credits will be funded by a portion of revenues from renewable energy generation projects developed by or for NYPA, as well as from other available funding.



Plan to Cease Fossil Fuel Generation

By May 2025, NYPA will publish a plan to cease fossil-based electricity generation at its SNGPPs in New York City and Long Island by 2030, as long as certain reliability and environmental standards are met. NYPA will engage with stakeholders as part of the decision-making process related to individual plant closures. We are also considering options for renewable energy projects, including energy storage, at these sites.

Decarbonization Leadership Program

In addition to our expanded authority, we are charged with administering the state’s Decarbonization Leadership Program. Under this initiative, NYPA will create decarbonization action plans for 15 state facilities that are among the highest producers of greenhouse gas emissions.

Workforce Training

NYPA received authority to make available up to \$25 million annually to train workers for employment in the renewable energy field. This initiative will be implemented through a collaborative process with the New York State Department of Labor.

“We are well-positioned to develop new renewable generation resources—in collaboration with our state partners, stakeholders and the private sector—to accelerate the state’s decarbonization journey while helping to prepare New York’s workforce for the clean energy transition with good-paying jobs.”

Justin E. Driscoll, President and CEO, NYPA

First Annual Conferral Process

In our first comprehensive annual conferral process, we conducted formal stakeholder engagement with more than 50 stakeholder groups, including state agencies, regulatory entities, climate and resiliency experts, labor organizations and environmental justice and community organizations. Topics covered included progress on the CLCPA’s renewable energy targets, the NYISO’s generator interconnection process and the state’s progress and priorities, including green job creation and climate goals.

The feedback we gathered is shaping the first iteration of our biennial strategic plan for renewables development. It has also deepened our understanding of NYPA’s market context; while collecting this feedback, we noticed that stakeholders’ perceptions of the value we contribute to this market broadly match our understanding of NYPA’s market contributions.

We published a summary of our findings in November 2023. Visit the [Conferral Process](#) page on our website to learn more about this initiative and its outcomes.

New Renewable Development Collaboration Opportunities

NYPA prepared a request for information (RFI) in 2023 to gauge private sector interest in partnering on renewable energy development. Through the RFI and a subsequent request for qualifications and pre-qualification in spring 2024, we expect to identify organizations we can collaborate with to establish and scale the development, ownership and operation of renewable energy generating projects and storage systems.

Stakeholders

We aim to establish strong stakeholder relationships built on trust. Through open dialogue and continuous engagement, we can better understand stakeholder needs and identify opportunities to address them. An in-depth assessment of the impact of NYPA’s operations on our stakeholders and stakeholder expectations informed the development of VISION2030, our ESG materiality assessment and our Sustainability Plan.

Key Stakeholder Groups



New York State

Public entities, offices and committees

- We support New York State’s commitment to sustainability, decarbonization, economic revitalization and environmental stewardship



Employees

People who work at NYPA and Canals, including represented employees, non-represented employees and retirees

- We offer competitive wages and benefits to our employees and invest in career development and training, ensure our policies and practices promote equity, health, safety and well-being and work to establish fair contracts that support our unionized employees



Customers

Public entities, municipal and rural cooperative electric systems, non-profits and eligible private commercial and industrial organizations

- We invest in generating reliable and affordable clean energy, reducing energy costs for public services (including hospitals, public housing and public transportation), promoting growth and competition for businesses and industries and supporting local economies through customer job creation and retention



Suppliers

Organizations that partner with us to provide materials, products and services for operating and maintaining assets and implementing capital projects

- We provide economic development opportunities to local and diverse suppliers while driving socially and environmentally responsible practices



Communities

Communities that host the state’s Canals and our power generation facilities and operations, including community and environmental advocacy organizations in the areas where we work

- Our low-cost power helps create and retain jobs in New York State
- We implement habitat restoration and recreational projects as part of our relicensing agreements
- We provide communities across New York State with resources such as admission-free visitors centers, educational programs, and career development opportunities that help foster an equitable and inclusive clean energy transition
- We provide our communities with free outdoor, cultural, accessible and educational adventures that can be enjoyed on and near the [Canal System](#)



Industry Partners

Partners that support clean energy development, research, innovation and advocacy

- NYPA drives transmission and renewables development and acts as a testbed for innovation. We collaborate with industry partners in joint ventures and share expertise and resources to help advance the energy transition for the benefit of all New Yorkers



Investors

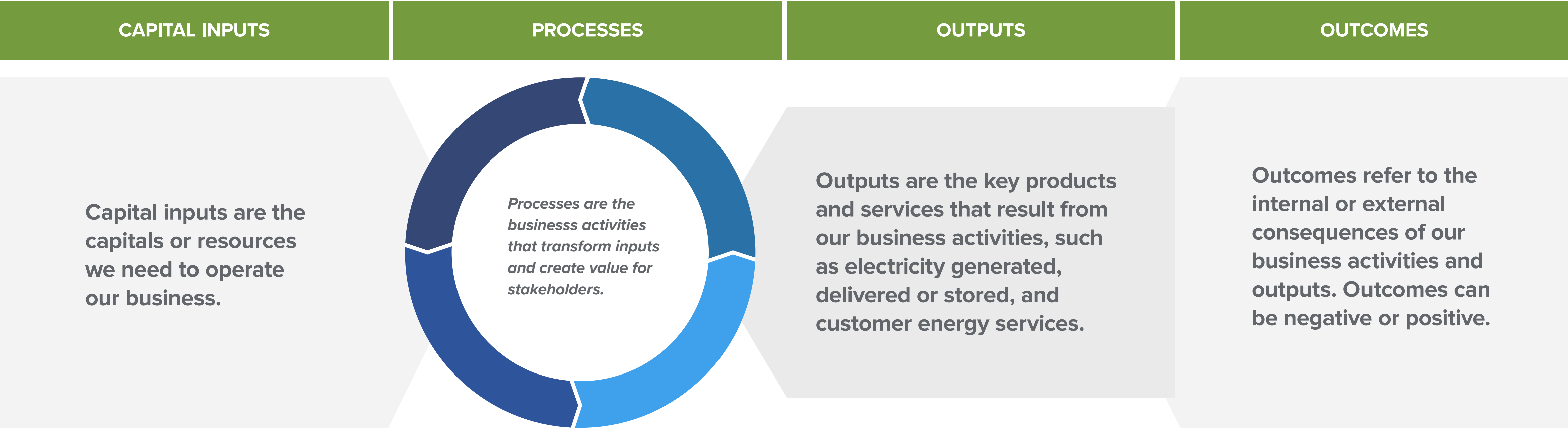
Holders of NYPA’s bonds

- NYPA issues bonds to finance certain capital expenditures. We maintain our AA credit-rating by adhering to covenants and reserve requirements, maintaining a strong financial profile, and making timely interest and principal payments on our obligations

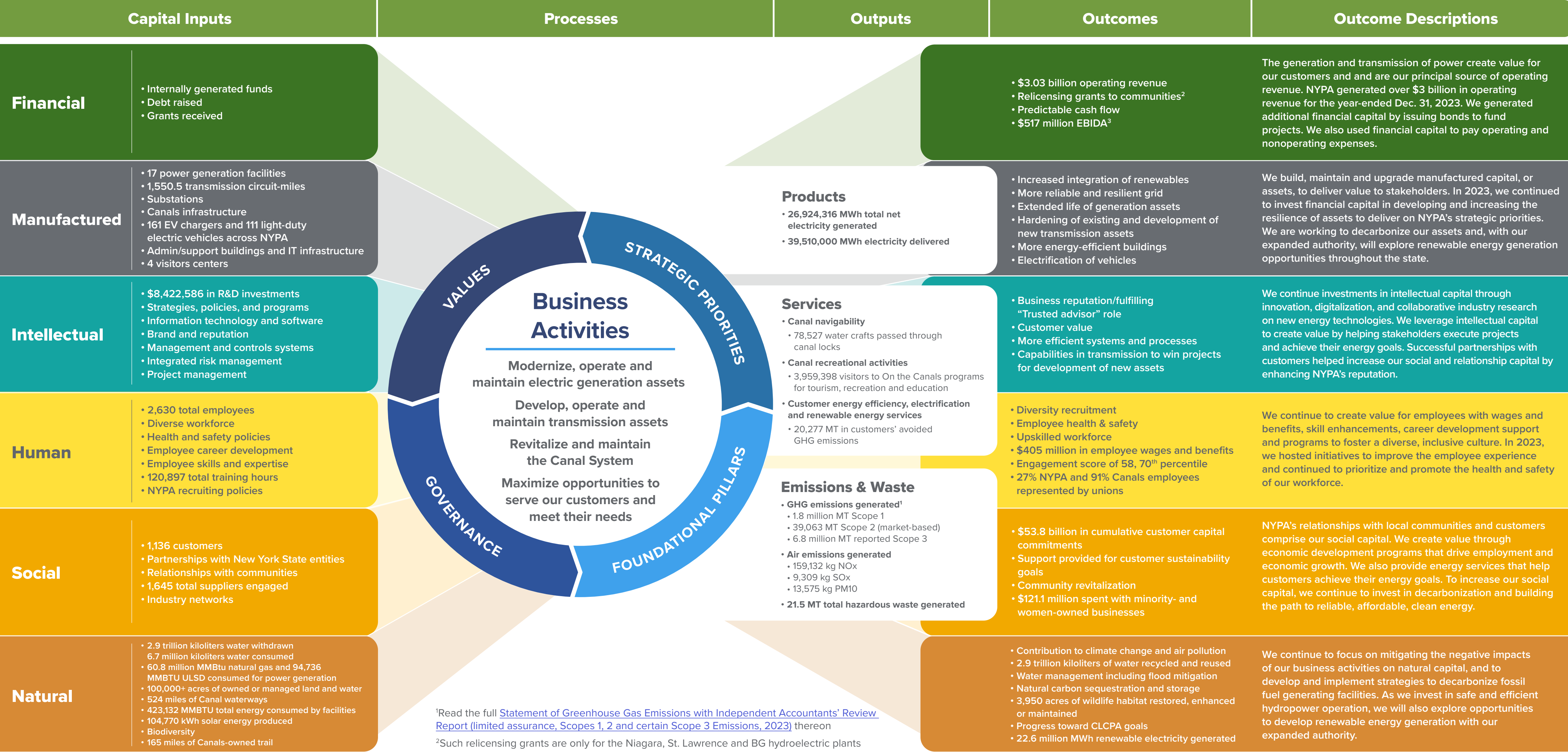
Understanding Our Value Creation Process

NYPA applies the <IR> Framework to assess and communicate how our business model, strategies and activities create, preserve and erode value and where we may face challenges in achieving our goals. A high-level view of the <IR> Value Creation Model follows below. Details of our inputs, outputs and outcomes for 2023 are summarized in our Value Creation Model on the next page.

The Value Creation Model



Our Value Creation Model



¹Read the full [Statement of Greenhouse Gas Emissions with Independent Accountants' Review Report \(limited assurance, Scopes 1, 2 and certain Scope 3 Emissions, 2023\)](#) thereon

²Such relicensing grants are only for the Niagara, St. Lawrence and BG hydroelectric plants

³EBIDA represents net income (loss) before interest expense, depreciation and amortization and is a non-GAAP financial measure



Sustainability & Our ESG Material Matters¹

NYPA proactively seeks to understand the interdependencies inherent in our value creation process. We know these can impact stakeholders such as those listed on page 27, as well as “silent” stakeholders like the natural environment near our operations. We also know that our ability to create value requires an assessment of opportunities, risks and trade-offs across the six Capitals.

Our materiality assessment process helps us identify ESG areas where we may have the greatest potential for impact. Insights from the assessment guide our efforts to integrate sustainability in our operations and optimize value for our stakeholders.

¹In the context of ESG materiality, the terms “issues,” “topics” and “matters” are used interchangeably

Our 15 ESG Material Matters

In 2020, we conducted a comprehensive assessment of our ESG material matters¹ using the GRI and AA1000 AccountAbility Principles. It included an analysis of industry trends, state regulations and initiatives, peer practices and leading sustainability frameworks and standards.

We engaged with our employees, Sustainability Advisory Council, and EMC. We also considered NYPA’s stakeholders and their needs. Stakeholders were mapped using AccountAbility’s AA1000 Stakeholder Engagement Standard.

Through this process, NYPA identified, defined and prioritized the 15 ESG material matters we believe are most material to our key stakeholders and business operations. These ESG material matters define the scope and strategy for our ESG Foundational Pillar as outlined in VISION2030. Our 2021-25 Sustainability Plan supports VISION2030 and identifies goals and strategies for each of the 15 ESG material matters.

We discuss activities relating to our 15 ESG material matters in the Performance and Outlook section of this report.



¹For definitions of our material matters, please see page 10 of our [Sustainability Plan](#)

NYPA Supports the United Nations Sustainable Development Goals

The United Nations Sustainable Development Goals (SDGs) are a global call to action to achieve a more sustainable and equitable future for all. The 17 interlinked global goals were set in 2015 by the United Nations General Assembly and are intended to be achieved by 2030.

We are working toward the transition to a carbon-free, economically vibrant New York State and the responsible supply of affordable, clean and reliable electricity. In alignment with the SDGs, our operations, products and services aim to contribute to mitigating climate change and increasing the resilience of our systems, the communities we work with and our natural environment.

While we support all the SDGs, NYPA’s efforts most closely align with and support the six goals identified here. We support the SDG framework as a global aspiration for transforming our world and aim to drive transformational change based on our value creation approach. We will continue to report on progress as we advance in our reporting journey.



05

PERFORMANCE &
OUTLOOK



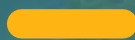
Preserve
Hydropower



Partner with Customers
and the State



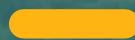
Looking Forward



Decarbonize Electricity
Generation



Revitalize the
Canal System



Lead Transmission
Expansion



Integrating
Sustainability

1

STRATEGIC PRIORITY

Preserve and enhance the value of our hydropower assets

Preserve Hydropower

Hydropower is a source of reliable, renewable, low-cost electricity for New York State. It supports a cleaner, more resilient grid by providing a baseload electricity supply that can balance the fluctuations of other renewable energy sources and adjust to daily and seasonal changes in supply and demand. Hydropower also contributes significant economic benefits to the state by powering public services and supporting job creation and retention.

We preserve our hydropower assets by implementing comprehensive upgrades, maintaining a competitive market presence and investing in new research and development (R&D) for hydropower technologies. In 2023, this work included the continued modernization of assets at our Niagara hydropower plant through Next Generation Niagara, expansion of asset monitoring equipment at our Integrated Smart Operations Center (iSOC) and the provision of affordable power to New York-based businesses. We also continued to work closely with the New York Independent System Operator (NYISO) to monitor the grid and provide stable access to power statewide.

Our two largest hydropower facilities depend on the Great Lakes watershed. The best available science indicates that the long-term impacts of climate change will cause increased variability in watershed water levels, with a small increase in average water levels over time.

Our other hydropower-generating facilities are located within New York State watersheds, where precipitation—the main driver for flows at our facilities—is projected to increase by 6% to 17% statewide by 2080, relative to a 1981-2010 baseline.¹

Key Hydropower Metrics

22,619,451

MWh of hydropower generated

\$1.431 billion

year-end net book value of hydropower generation assets, including modernization

¹Sevens, A. and Lamie, C., eds. (2024). *New York State Climate Impacts Assessment: Understanding and preparing for our changing climate*. <https://nysclimateimpacts.org>; <https://doi.org/10.1016/j.jglr.2022.05.012> and <https://doi.org/10.1016/j.jhydrol.2022.128205>

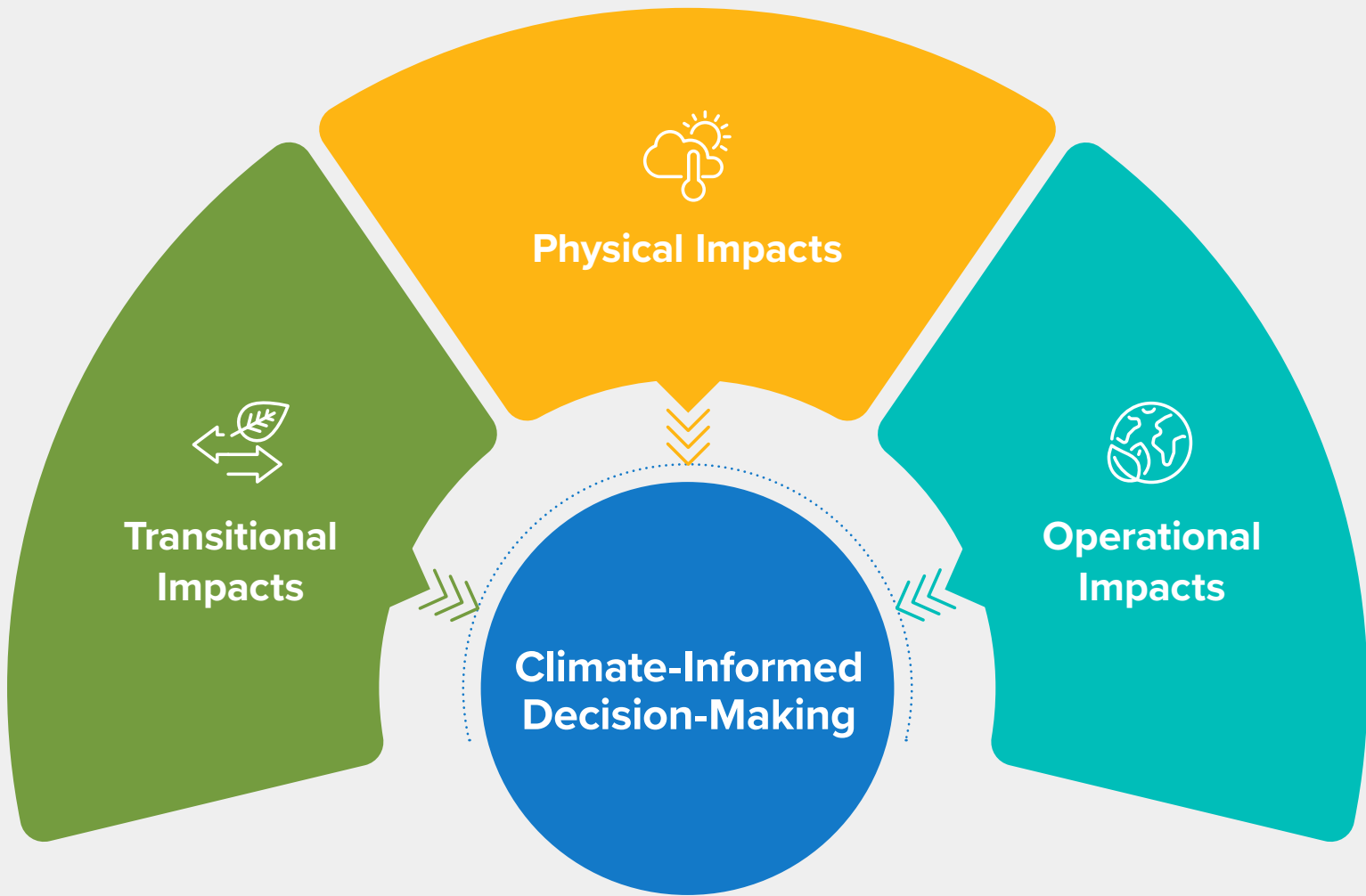
In 2023, we began a scenario planning project to better understand the potential physical, operational and transitional impacts of climate change on our hydropower facilities. Findings will help us mitigate the impacts of climate change on our operations and the power grid. We also continue to invest in hydro forecasting and data analytics that will help us address changes in our watersheds.

The competitive landscape for hydropower continues to shift in New York State, where subsidized wind and solar resources pose short-term economic challenges. Within this shifting market, hydropower assets are assuming a more complex role. Depending on the state’s energy needs and availability of energy from intermittent renewable resources, NYPA’s hydropower facilities may be called on to quickly ramp up or ramp down generation. This cycling increases wear on our generating assets, raising operational and maintenance costs. In 2023, we conducted a study of cycling impacts to help us understand how best to operate the units, maximize operational life and meet grid stability requirements.

We follow a four-part strategy to preserve the value of hydropower and maintain NYPA’s competitive presence in New York’s power market: (1) ensure policymakers understand the value of hydropower and that market rules compensate hydropower assets; (2) keep our assets in working order; (3) make investments to improve the market competitiveness and flexibility of our assets; and (4) engage contracting arrangements that maintain our competitive position alongside subsidized assets.

Managing Climate Risks and Opportunities

Climate change has potential physical, operational, and transitional impacts. We consider all three in planning and decision-making.



NYISO & Balancing Intermittency

NYPA participates in NYISO's electricity markets by bidding its generated power into the market. NYISO's market mechanisms help in determining where and when NYPA's generated electricity is needed most. The flexibility of our hydropower units and other generating assets allows us to respond to the NYISO's requests when there is a period of need.

Our Blenheim-Gilboa Pumped Storage Power Project (B-G) and Lewiston Pump-Generating Plant pumped storage facilities are key contributors to grid stabilization and support the integration of intermittent solar and wind resources. They enable us to store water for electricity generation during peak periods and to meet power needs as daily demand fluctuates. They also provide critical black start capabilities that restore the state's electric service during blackouts.

Modernizing Our Hydropower Assets

Next Generation Niagara, is the largest capital project in NYPA's history and a key element of our strategy to preserve the value of hydropower. The multi-year modernization and digitalization program will improve the reliability and operational efficiency of the Niagara Power Project by replacing or repairing mechanical components and adding digital sensors and state-of-the-art control systems.

This \$1 billion-plus initiative will include the full refurbishment of each of the project's 13 Robert Moses Power Plant turbines to maximize their capabilities. Work on the plant's first turbine unit began in 2023. Additional upgrades implemented in 2023 include a new unit distributed control system with updated computer dashboards, and digital systems that will increase situational awareness and control.

In 2023, we also continued work on a Life Extension and Modernization Program at the Niagara project's Lewiston Pump-Generating plant. The program, which began in 2012, includes an overhaul of the plant's 12 pump turbine generator units. The upgrades will increase pump, turbine and operating efficiency and improve the overall peaking capacity of the Niagara Power Project.



Using Data Analytics to Manage Asset Performance

Building upon NYPA's ISO 55001 asset management certification, we have taken a data driven approach to optimize the performance of our critical assets. This starts with executing a Reliability Centered Maintenance program, identifying key data points and sensors and utilizing analytics to continuously monitor the performance of our equipment.

NYPA's Integrated Smart Operations Center (iSOC), established in 2017, is an integral part of our asset management program. The iSOC gathers data through real time sensors to generate models, or digital twins, that enable early detection of potential equipment failures. Over 143,000 data points and 787 digital twins have been deployed in the iSOC to date, with the capacity to expand to support NYPA's growing generation and transmission portfolio.

In 2023, asset monitoring expanded to new equipment classes such as SF6 circuit breakers and battery storage. The Asset Performance Program, working in tandem with our operations personnel across the state, has enabled NYPA to improve system reliability and plan effectively for future asset investment.

Fairport and Sherburne Municipal Customers

The villages of Fairport and Sherburne are two of NYPA’s longstanding municipal customers. Between them, NYPA’s electric utility services support almost 20,000 businesses, residents, government facilities and other entities across 62 square miles.

The Fairport Municipal Commission received a hydropower allocation from NYPA of almost 77 MW in 2023. The total contract demand is the second highest among the 51 municipal electric utilities we serve. With the installation of 350 kW of Direct Charge Fast Chargers, Fairport became our first EVolve NY Electric Vehicle Accelerator Community site in 2020.

Sherburne Municipal Electric has received a NYPA hydropower allocation since 1961, including nearly 12.9 MW in 2023. Sherburne promotes energy efficiency in its utility system and has been one of NYPA’s most active Industrial Economic Development Program participants. We are partnering with Sherburne to study how to electrify and decarbonize its system while continuing to provide its customers with reliable electrical service.

Hydropower as an Engine of Economic Growth

NYPA enhances hydropower’s ability to drive economic growth in New York by administering development programs that provide low-cost hydropower to businesses. Eligible organizations must be actively expanding operations and/or plan to remain in or relocate to New York State, and must commit to adding jobs and investing capital in their facilities.

Our Expansion Power/Replacement Power programs offer 695 MW of hydropower to for-profit businesses within a 30-mile radius of the Niagara Power Project. Our Preservation Power Program offers 490 MW of hydropower to eligible for-profit businesses in Franklin, Jefferson and St. Lawrence counties. Through ReCharge New York, we work closely with state government to provide 910 MW of power (455 MW of hydropower and 455 MW of market power) to other businesses and non-profit organizations at affordable rates that potentially lower their energy costs.

In 2023, we allocated more than 720 MW of low-cost power to 90 customers through our economic development power programs. More than 40% of our low-cost power allocations went to businesses and non-profits in disadvantaged communities. Notable allocations include our work with Edwards Vacuum, LLC, EnerPlate, LLC, and Micron New York Semiconductor Manufacturing, LLC. This power is expected to help retain 20,800 existing jobs and create nearly 5,400 new jobs in the state while securing over \$22 billion in private capital investments.

Notable 2023 Collaborations

Edwards Vacuum, LLC

In February 2023, NYPA’s Board of Trustees awarded Edwards Vacuum, LLC a 4.9 MW low-cost Replacement Power allocation. Edwards is a subsidiary of Atlas Copco Group and a manufacturer of vacuum and abatement equipment in the semiconductor industry. It will construct a manufacturing facility at the Science and Technology Advanced Manufacturing Park in Genesee County, NY, bolstering New York’s semiconductor supply chain and supporting the federal Creating Helpful Incentives to Produce Semiconductors (CHIPS) and Science Act. This NYPA economic development award is expected to spur \$212 million in capital investments and create 343 jobs.

EnerPlate, LLC

In May 2023, the NYPA Board of Trustees approved a 16 MW allocation of low-cost Replacement Power to EnerPlate, LLC, a Niagara Falls-based company that provides electroplating services for use in manufacturing

grid-scale battery systems. EnerPlate began a project to refurbish its 90,000-square-foot facility and acquire more electroplating equipment. EnerPlate’s expansion is expected to lead to the creation of 160 new jobs in the Niagara Falls region and \$105.5 million in capital expenditures.

Lotte Biologics USA, LLC

In 2023, the NYPA Board of Trustees approved more than 2.8 MW of ReCharge New York (RNY) Retention & Expansion Power to Lotte Biologics USA, LLC for use at its East Syracuse facility (Onondaga County). The company is a manufacturer of pharmaceutical products and the awards support the renovation and upgrading of its facility to produce antibody drug conjugates which are designed to treat various cancers. Lotte Biologics’ RNY awards support nearly 500 jobs (including 70 new jobs) and \$48 million in capital investments in Central New York.

Economic development – commitments for jobs and capital from our customers



2

STRATEGIC PRIORITY

Pioneer the path to decarbonization

Decarbonize Electricity Generation

Our VISION2030 goals align with the state’s targets to reduce New York’s reliance on fossil fuel generation and promote a just transition while maintaining grid reliability.

NYPA is committed to decarbonizing all of its fossil fuel generation assets by 2035, five years ahead of the CLCPA’s 100% zero emissions electricity target.

Legislation enacted in 2023 calls on NYPA to develop a plan by May 2025 to end electricity production using fossil fuel at its small natural gas power plants by December 2030. NYPA will deactivate the gas turbines so long as they are not needed for emergency power or reliability. NYPA may also consider whether this would increase air pollution from other facilities that would run instead. Closure determinations will be made on a plant-by-plant basis, after consultation with stakeholders, opportunity for public comment, and a public hearing in the affected community. The Authority will also consider proposed strategies to replace gas turbines with renewable energy systems, including energy storage facilities.

The NYISO oversees the dispatch of energy-generating assets in New York State in a manner largely dependent on reliability needs and identifying the lowest-cost resources to meet those needs in a competitive market. The NYISO may dispatch NYPA’s assets when additional power is needed to meet customer demand and stabilize the grid. In 2023, the NYISO’s dispatch of our assets was affected by a variety of factors, including changes in the availability of generation resources (e.g., retirement of other generating assets in the region, including the Indian Point Nuclear Power Plant), the availability and pricing of fossil-based fuels and weather patterns. As a result of these and other factors, the NYISO’s

dispatch of our assets increased, and our Scope 1 emissions intensity for total electricity generated rose accordingly. We expect our fossil fuel generation to decrease with the addition of more renewable power sources to New York State’s grid.

As NYPA works toward decarbonization, we strive to continue to provide affordable, safe, reliable, clean energy to our customers.

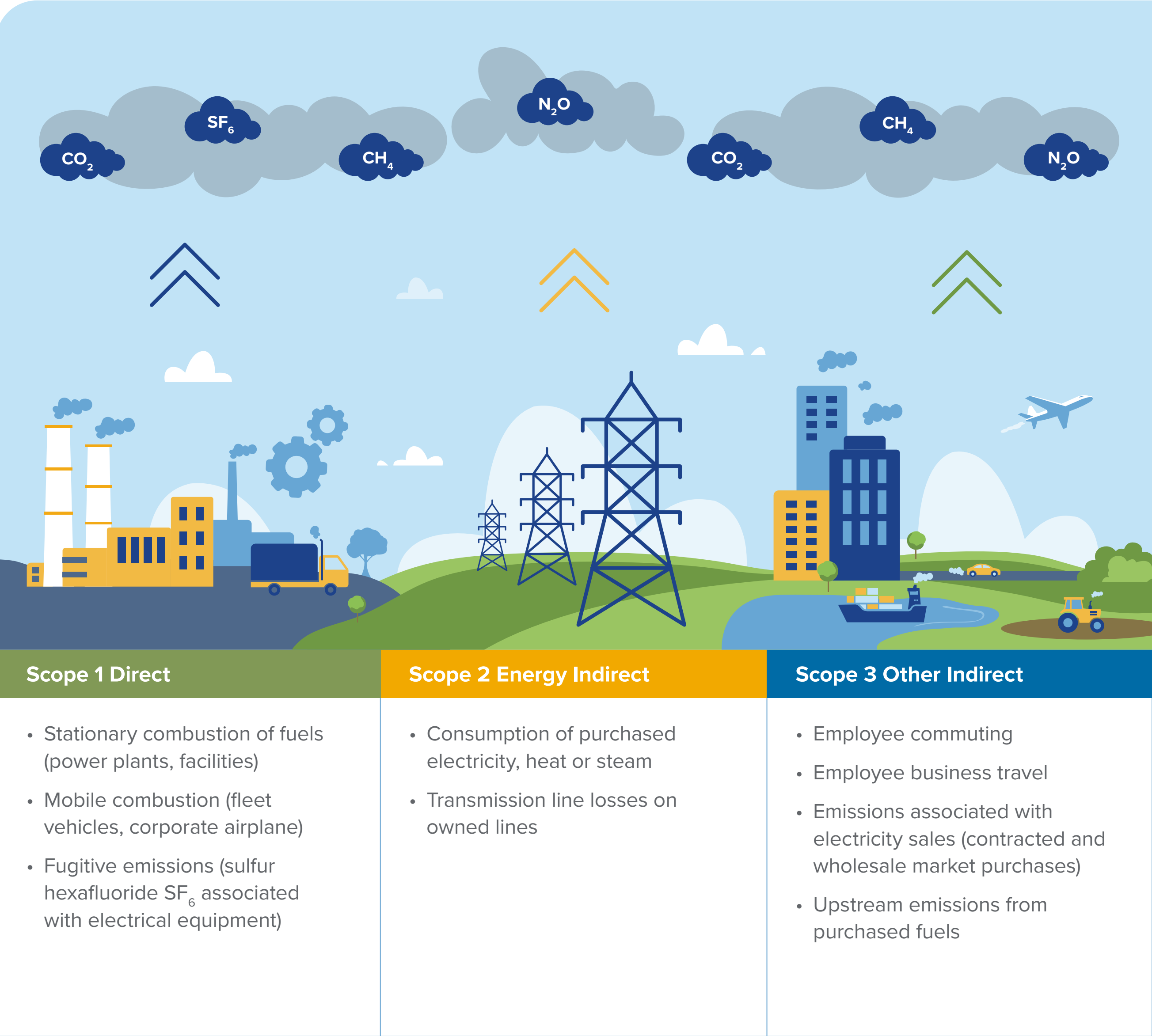
We make intentional use of technology and good maintenance practices to ensure our fossil generating facilities are among the most efficient, lowest-emission, non-renewable units in the New York City metropolitan area. We also explore other ways to decarbonize our fossil fuel-powered generating facilities and operations through R&D as well as building and vehicle fleet energy efficiency and electrification.

We continue to work with other energy-generating organizations in New York to help them transition away from fossil assets that are aging or produce emissions at higher rates to efficient, modernized generating assets using renewable resources. We also work to meet New York’s energy needs through R&D projects that help expand our options for safe, efficient energy generation and storage.

As NYPA and other organizations develop and integrate more renewable energy sources into the grid, we remain mindful of the importance of an equitable energy transition. Programs like [REACH](#)¹ seek to mitigate the impacts of these changes on low-income residents of disadvantaged communities.

¹See details about the REACH program in [NYPA’s Expanded Authority and Related Directives](#) section of this report





NYPA’s 2023 Greenhouse Gas Emissions

Our emissions have been prepared in accordance with the World Resources Institute and World Business Council for Sustainable Development’s Greenhouse Gas Protocol, utilize U.S. Environmental Protection Agency emissions factors and align with CLCPA-compliant emissions approaches. Read more about our emissions calculation methodology in [Basis of Preparation](#) and full [Statement of GHG Emissions](#).

NYPA’s GHG Emissions Breakdown (MT CO₂e)¹

Emission Scope		2023
Scope 1	Stationary Combustion, Mobile Combustion and Fugitive Emissions	1,795,235
Scope 2	Location-Based	39,063
	Market-Based	39,063
Scope 3	Category 3: Upstream Fuel- and Energy-Related Activities	6,839,130
	Category 6: Employee Business Travel	782
	Category 7: Employee Commuting	5,555
	Reported Scope 3 Total	6,845,467

¹The CLCPA directs state entities to use 20-year Global Warming Potential values from the Intergovernmental Panel on Climate Change Fifth Assessment Report (AR5; see page 6 in the New York State Department of Environmental Conservation [NYS DEC] 2023 Statewide GHG Emissions Report). Read the full [Statement of Greenhouse Gas Emissions with Independent Accountants’ Review Report \(limited assurance, Scopes 1, 2 and certain Scope 3 Emissions, 2023\)](#) thereon.

Research & Development

NYPA acts as a testbed for new technologies, engaging in projects that increase our ability to deliver our strategy in a rapidly evolving industry. Our R&D projects focus on increasing energy storage capacity and reducing operational emissions. Our work also includes initiatives related to first of its kind transmission and hydropower projects that are recognized industry-wide.

Notable R&D Energy Storage Projects

In 2023, we completed commissioning of a high-temperature thermal energy storage-based Combined Heat and Power unit that was developed by Brenmiller Energy and installed at Purchase College, State University of New York. The project aims to increase the energy efficiency of the college’s Physical Education Building to meet higher demands and is expected to reduce energy use and associated emissions.

At our White Plains Office, we completed a year-long demonstration of an advanced lithium-ion battery energy storage system developed by Cadenza Innovation. This first-of-its-kind project involved the design, construction and testing of the 50 kW/250 kWh unit for its peak shaving capabilities. Learnings from the field demonstration have increased our understanding of design and permitting issues and will inform future project planning.

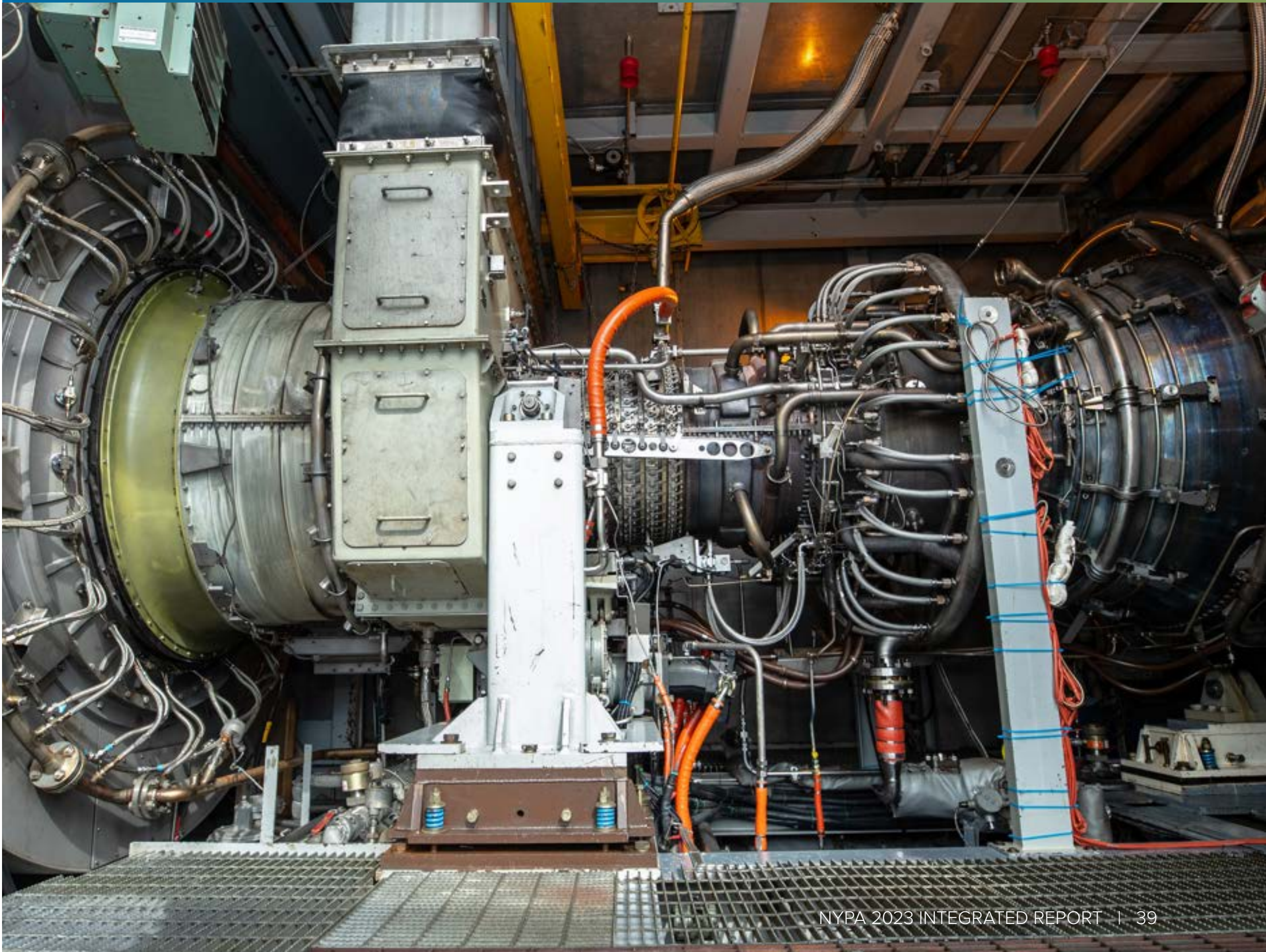
We also collaborated with Urban Electric Power (UEP) and EPRI to apply for a U.S. Department of Energy (DOE) grant to demonstrate two rechargeable zinc alkaline long-duration battery systems, each capable of providing 300kW for approximately 12 hours. The proposal was selected for grant negotiations in 2023 and we anticipate starting work in mid-2024. The project will include design, manufacture, installation and operation at two diverse New York sites and collaboration with local communities during project execution.

NYPA Collaborates with Research Institutions

NYPA collaborates with the Electric Power Research Institute (EPRI) and other research entities—such as the Brookhaven National Laboratory and the Israeli Smart Energy Association—to explore topics related to the more efficient operation of our generating plants and new or innovative technologies we can offer to customers. Collaborative projects make it possible for NYPA and other entities to cost-effectively research a broad range of topics that will help advance the energy transition.

Brentwood Demonstration Project Awards

In 2023, NYPA won an American Public Power Association Demonstration of Energy and Efficiency Developments Energy Innovator Award, POWER magazine’s Hydrogen Award and an Energy Innovator Award for our work on the Brentwood Demonstration Project. This project is the first in the world to blend 44% hydrogen with natural gas in an operating plant, reducing the need for natural gas to sustain operations and opening an additional path to decarbonization.



Decarbonizing NYPA’s Buildings and Vehicle Fleet

The BuildSmart 2025 program¹ sets an energy reduction target for NYPA of 0.12 TBtu. This represents a 35% reduction from our 2015 energy use baseline. In 2023, we completed heating, ventilation and air conditioning (HVAC) and lighting projects at Blenheim-Gilboa Project, Niagara Project and Clark Energy Center. By the end of 2023, NYPA had achieved a 0.0809 TBtu reduction overall and was 67% of the way towards our goal. In 2023, we also began assessing the feasibility of installing solar arrays at multiple NYPA sites.

NYPA has set a target to electrify 100% of our light-duty fleet by 2030, five years ahead of the state target. In 2023, we completed an EV infrastructure assessment at all NYPA and Canals operating sites and began projects to expand behind-the-gate EV charging for fleet and employee vehicles. We also took delivery of 16 full-battery-electric pick-up trucks. By the end of the year, we had reached approximately 30% electrification of our NYPA light-duty fleet and 19% electrification of the NYPA and Canals light-duty fleets combined.

¹See details about BuildSmart 2025 in the [Partner with Customers and the State](#) section of this report

Eugene W. Zeltmann Power Project Solar Installation

Our 175 kW, 468-panel solar installation at the Eugene W. Zeltmann Power Project in Astoria, Queens was activated in 2023, helping to offset energy use at the site and reducing associated emissions.



3

STRATEGIC PRIORITY

Be the leading transmission developer, owner, and operator

Lead Transmission Expansion

One of our strategic priorities under VISION2030 is to be the leading developer, owner and operator of New York State’s transmission assets. We aim to expand and optimize our transmission network to relieve congestion and efficiently deliver electricity from where it is generated to areas in the state with the highest demand for power. Transmission expansion will enhance the resilience of the grid, integrate more renewables, and connect customers to these new clean energy sources. In the past year, we made progress on projects such as Propel and Smart Path Connect, and completed three major transmission development projects: Smart Path, reconductoring for a segment of the Y-49 transmission line (also known as the Long Island Sound Cable) and Central East Energy Connect.

Transmission projects include research, planning, design, permitting and construction. Delays in permitting, supply chain disruptions and talent shortages have extended

the length of transmission development and construction and increased cost. NYPA works to decrease the impact of permit and supply chain delays by assessing potential risks and evaluating alternative solutions for each transmission project. Rather than relying solely on manufacturing equipment shipped from overseas, NYPA researches available alternatives that can be sourced locally and/or domestically. When this solution is not available, We explore other options such as long-term contracts, alternate delivery approaches and more.

NYPA conducts outreach to the communities near the new transmission sites and works closely with them to reduce the impacts of construction activities.

Accelerated Renewable Energy Growth & Community Benefit Act

NYPA’s strategic plan for renewables deployment will align with and support the New York Accelerated Renewable Energy Growth and Community Benefit Act (AREGBA). AREGBA sets forth an expansive transmission plan to invest in and develop a state-of-the-art grid infrastructure, helps advance the interconnection of renewables and efficient delivery of clean power statewide, and assigns NYPA a key role in transmission development due to our strategic transmission planning expertise and our ability to expedite critical transmission infrastructure projects.

\$2.367 billion
year-end net book value of
transmission assets,
including modernization
and expansion

Drone Program

NYPA’s unmanned aircraft system, or Drone Program, deploys a fleet of 63 drones to monitor and inspect our transmission lines. In 2023, we also began to use the drones for operational emergencies and completed over 757 missions that have increased the safety and reliability of NYPA’s transmission equipment.



Expanding Our Transmission Network

In 2023, NYPA completed three major transmission line upgrades: Smart Path, Central East Energy Connect (in collaboration with LS Power) and the reconductoring of the Nassau County portion of our Y-49 transmission line.

Smart Path updated a major section of our Moses-Adirondack transmission lines, one of NYPA’s backbone transmission systems. The project stretched across 78 miles between Massena and Croghan in Lewis County. NYPA replaced obsolete wood pole structures with new steel monopole structures and installed new conductors and optical ground wires for communications. The line continues to operate at a 230 kV capacity but will accommodate 345 kV when Smart Path Connect (a separate NYPA transmission expansion project) is completed. The upgraded lines will enhance grid reliability and help meet the state’s renewable energy goals by unbottling renewable generation that is being interconnected in the North Country of New York State.

Central East Energy Connect was an upgrade project focused on transmission lines between Marcy and New Scotland. For this project, NYPA collaborated with LS Power to construct two substations and more than 90 circuit-miles of new 345 kV and 115 kV transmission lines. NYPA also implemented modifications to existing substations. The project helps relieve congestion on the Central East and upstate New York/SENY transmission interfaces and increases transfer capability from central to eastern New York.

Y-49, a backbone transmission asset, was commissioned in 1991 and operated for nearly 30 years with minimal investments apart from those incurred by normal operations, maintenance and emergent work. In 2023, NYPA replaced approximately 10 circuit-miles of the cable, replaced fiber optic cables used for protection and communication, and refurbished oil-pump plants at two substations to ensure reliability.

NYPA also had a number of large transmission projects in various phases of planning, design and construction in 2023, including Smart Path Connect, Propel New York Energy and East Garden City.

Smart Path Connect is a Priority Transmission Project that consists of 100 miles of transmission line rebuild (upgrading from 230kV to 345kV), the construction of four new substations, modifications to eight existing substations, and decommissioning of two existing substations. NYPA is executing the project in collaboration with National Grid, and is responsible for the rebuild of 45 miles of transmission lines, construction of three new substations, and modifications to seven existing substations. The project began construction in 2022 and is expected to be substantially completed in 2025. It will connect to NYPA’s Smart Path project.

In June 2023, NYPA and Transco were selected by NYISO in a joint venture to bolster transmission network segments in New York City, on Long Island and throughout Westchester County through an initiative called Propel NY Energy. This initiative includes approximately 90 miles of new submarine and underground, terrestrial transmission lines (78 miles of 345kV and 11 miles of 138kV) in addition to direct interconnection with nine existing or new substations located in Suffolk, Nassau, Queens, Bronx, and Westchester counties.

The East Garden City Substation Upgrade Project is the Designated Public Policy Project that NYPA will undertake as part of the NYISO’s Long Island Offshore Wind Public Policy Transmission Need. This significant undertaking will expand the existing 345kV bus system to allow for the interconnection of new underground transmission lines and equipment.

NYPA’s transmission projects will improve the grid’s reliability and resilience and will increase the amount of electricity from renewable resources delivered to the grid.

Green Transmission Project Revenue Bonds

Our Trustees authorized the issuance of Green Transmission Project Revenue Bonds in 2023 (Series 2023A). This was the second series of bonds issued under the Transmission Bond Resolution, with the first issuance occurring in 2022. Proceeds from the Series 2023A bonds will fund ongoing Smart Path Connect project costs and the reimbursement of expenses incurred prior to the project being designated as a Separately Financed Project. The proceeds of the Series 2023A bonds will also pay for financing and other expenses related to the issuance of the Series 2023A bonds. NYPA formally issued \$734 million of Series 2023A bonds on a tax-exempt basis in November 2023. For full details of the Series 2023A bonds, please see our [2023 YE Report](#).



4

STRATEGIC PRIORITY

Partner with our customers and the state to meet their energy goals

Partner with Customers and the State

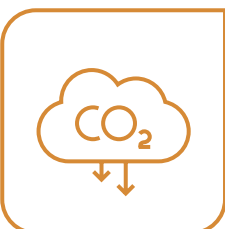
We work closely with state agencies, municipalities, transit organizations, policymakers, regulators, educational institutions and more to drive the energy transition. Through these partnerships, we contribute to a more equitable energy economy and a stronger, more sustainable New York State. Our work ranges from strengthening public energy infrastructure and increasing access to clean power to engaging in regulatory proceedings and assisting with customer project implementation.

NYP&A is a trusted energy advisor and is uniquely positioned to help our customers meet mandates, where applicable, and achieve their sustainability goals. Our energy services programs focus on three key areas: decarbonization of customer facilities through energy efficiency and electrification; EV charging infrastructure to support electric vehicle adoption and fleet electrification; and distributed energy resources, such as on-site solar and energy storage.



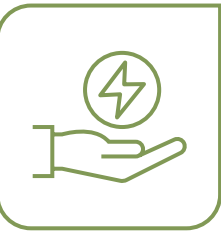
81

completed customer energy conservation and efficiency projects



40,360

MWh customers' estimated electricity savings from conservation and efficiency initiatives



20,277

MT estimated GHG emissions avoided



Supporting Customer Decarbonization and Electrification Goals

NYPA implements a variety of projects to help our customers and the state decarbonize sustainably. These involve complex technical, supply chain, policy and operational considerations. 2023 highlights include installation of electrified heating and cooling units in multifamily buildings in New York City, city bus fleet electrification, expansion of statewide EV charging and LED street lighting systems, and solar installations. We also continued to work with state facilities in New York to support BuildSmart 2025’s ambitious energy-saving goals.

Increasing Building Efficiency & Electrification

BuildSmart 2025

BuildSmart 2025 is a collective energy-saving effort for state facilities in New York. Executive Order (E.O.) #22 set an energy reduction target of 11 trillion Btu across state facilities by 2025 from a 2015 baseline. This is an approximately 30% reduction in energy use. The cumulative energy savings accomplished through BuildSmart meaningfully contribute to New York State’s energy and emissions reduction targets. NYPA both administers this program and participates in it.

We support state agencies and authorities participating in the program by establishing attainable reduction targets based on energy use baselines and benchmarks, providing guidance and resources, and tracking progress through the New York Energy Manager platform. While not required by E.O. #22, we have committed to help state agencies and authorities implement 6.6 trillion Btu of energy-saving projects in support of their BuildSmart 2025 efforts.

New York City Housing Authority Partnership

To promote widespread access to affordable, efficient energy solutions, we collaborated with the New York City Housing Authority (NYCHA) and the New York State Energy Research and Development Authority (NYSERDA) on the Clean Heat for All Challenge. This initiative aims to develop a new electrification product to better serve the heating and cooling needs of existing multifamily buildings. The project will install 30,000 air source heat pump window units in NYCHA apartments that provide efficient heating and cooling through heat transfer. By the end of 2023, we had installed 72 cold-climate units as part of the first phase of testing. NYPA will monitor the performance of these units and apply lessons learned in the next phase of the project.

BuildSmart 2025 Progress



National Electric Vehicle Infrastructure Funds

By agreement with New York State Department of Transportation, NYPA is using approximately \$20 million in National Electric Vehicle Infrastructure (NEVI) funds from the Federal Highway Administration to install EVOlve NY charging stations in more than 20 locations around the state. We expect most of these sites to open in 2024. The first EVOlve NY chargers paid for by NEVI funds went into service in December 2023 in Kingston.



Expanding EV Infrastructure

One of our key areas of focus is enabling the transition to electric transportation by expanding electric vehicle charging infrastructure for our customers and the public. In 2023, we continued to work with the Metropolitan Transit Authority (MTA) and Niagara Frontier Transportation Authority (NFTA) to electrify their bus fleets. We also signed a contract with OGS to install charging stations at many of their locations. In parallel, our EVOlve NY program continued to expand the statewide network of public DC fast chargers, ensuring reliable fast-charge access that can enable EV adoption anywhere in the state.

851 public EVOlve NY EV fast chargers and customer-sited chargers installed

EVOlve NY

The goal of the EVOlve NY program is to accelerate EV adoption by establishing a public EV charging network in the state. NYPA is one of the first organizations to build high-speed charging stations at accessible public locations, such as major interstate highway corridors, municipal parking lots and gas stations. Our EV chargers provide efficient and affordable options for EV owners and are the only available fast-charging options in many rural parts of the state. By the end of 2023, NYPA had installed a total of 156 charging stations in 38 locations. The program target is to build 400 charging stations by the end of 2025.



MTA & NFTA Bus Fleet Electrification

NYPA is helping both the MTA and the NFTA fully electrify transit bus fleets by installing rapid charging stations at their bus depots. We are also engaged in similar work with other transit agencies in the state. This work is increasing access to affordable, lower-emission transit options for communities that depend on these bus systems.

The MTA aims to electrify 100% of its New York City fleet of 5,700 buses and 29 bus depots by 2040. We are working with the MTA on a three-phase project to help them achieve this goal. In the first phase, we are installing 65 overhead electric bus chargers at three depots in Queens, Staten Island and Brooklyn and replacing one on-street charging system at the Williamsburg Bridge Plaza. In phases two and three, we will install charging infrastructure for an additional 470 electric buses at 10 bus depots across the five boroughs.

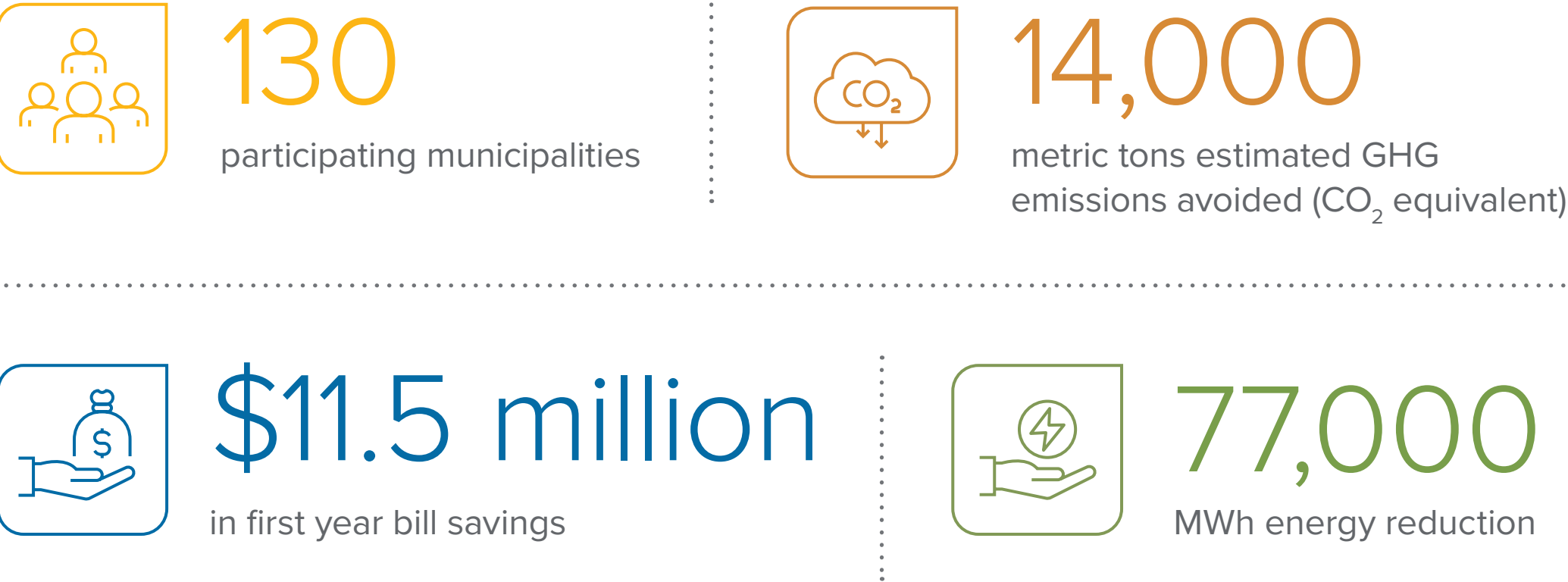
The NFTA's goal is to fully electrify its fleet of 310 buses by 2035. The NFTA is also pursuing an interim goal of 25% fleet electrification by 2025. We are working with the NFTA to electrify the first of three depots.

These public transit electrification projects help improve air quality in local and underserved communities and serve as a model for other metropolitan bus fleet operators.

Smart Street Lighting NY Program

Through our Smart Street Lighting NY program, we assist municipalities in purchasing their streetlights from private utility companies and upgrading them to energy-efficient, smart-controlled LED lighting. The program allows municipalities to more effectively manage energy use and reduce associated emissions and costs. As New York looks to the future, the lighting systems also have the potential to support other smart city devices that can improve safety, weather and traffic monitoring. In 2023, we began offering a maintenance service that centrally monitors the streetlights to improve uptime and reliability; the service is being provided to 68 customers. Smart Street Lighting NY supports the state goal to reduce overall municipal electric demand by 3% by 2025.

Smart Street Lighting NY



500,000 Lights

Smart Street Lighting NY set a goal to replace 500,000 municipal streetlights across the state with energy-efficient smart LED fixtures by 2025. With NYPA’s implementation of nearly 4,000 streetlights in the Town of Ramapo, New York State’s goal was achieved three years ahead of schedule.





Distributed Solar

Another way we support customer decarbonization efforts is through installation of distributed energy resources. Notable 2023 projects include solar installations in the Village of Ossining and at New York City fire stations.

Village of Ossining Community Distributed Generation

NYPA worked with Westchester County, Sustainable Westchester and the Village of Ossining to implement a 150 kW community distributed generation (CDG) project at the Village’s Operations Center. The rooftop solar array, which was installed as part of the Westchester Community Solar Program, provides the Village with a consistent, low-risk revenue stream from the CDG owner and allows Village residents to benefit from discounted renewable energy.

New York City Fire Department Solar Installations

NYPA worked with New York City’s Department of Citywide Administrative Services to install solar photovoltaic systems at six firehouses in Queens and Brooklyn. These systems use battery storage to enable firehouse operation during blackouts, brownouts and storms that interrupt electrical service. The project advances the city’s goal to reduce emissions from government operations.

Cyber Collective Defense Consortium

The Cyber Collective Defense Consortium is a first-of-its-kind program that focuses on enhancing the cyber security capabilities of NYPA’s 51 municipal and cooperative electric customers. The program strengthens their ability to protect cyber and other digital assets, such as smart-controlled streetlighting systems, through three advisory initiatives:

- 1. Cyber Capability Enhancement: Help to bridge cyber security skills gaps at NYPA and across the state's electricity sector
- 2. Collective Defense Leadership: Monitor the state’s evolving electricity sector threat landscape
- 3. Electric Sector Threat Scenarios Simulation: Identify security gaps and needs in operational technology environments

In 2023, NYPA worked with 17 municipalities to host incident-response workshops and exercises. We also implemented Advanced Intrusion Detection System pilots to improve threat detection and information-sharing, provided Cybersecurity and Infrastructure Security Agency Cyber Hygiene/Phishing testing services that promote user awareness and remediate vulnerabilities, and advised on vulnerabilities and potential cyber threat actor activities. NYPA also served as a Cyber Mutual Assistance Proxy.

5

STRATEGIC PRIORITY

Reimagine and repurpose the New York State Canal System

Revitalize the Canal System

As we look toward commemorating the bicentennial of the Canal System in 2025, we cast our sights on the third century of its operations and our strategic priority to preserve and revitalize the Canal System as a historic resource and driver of economic development. We work with communities, organizations and local businesses along the Canal System to provide support, funding, environmental expertise and more to attract New Yorkers and people from all over the world to the Canal System’s waterways and trails.

In 2023, Canals projects continued to focus on two essential priorities: investing in the integrity and climate resilience of canal infrastructure, and stimulating tourism and economic growth through public programs. This section shares some of our 2023 stories and successes in these areas. Our work included efforts to enhance the safety of our waterways and dams, protect the natural environments and ecosystems in and around the canal, strengthen recreational infrastructure, promote economic development in surrounding communities and more.

In 2023, *On the Canals* welcomed close to 10,500 participants. Since its inception, the free adventure program has attracted more than 30,000 people with a range of recreational, cultural and educational activities offered by almost 30 local non-profits and businesses.



The Canal System includes 524 miles of navigable waterways in upstate New York, including 57 locks, 19 movable bridges and other Canal structures that range from 100 to 200 years old. It also includes 165 miles of the 365-mile Canalway Trail—a significant portion of New York’s Empire State Trail, the nation’s largest multi-use recreational trail system.

Most of the Canal System’s physical assets require maintenance and restoration to keep the system safe, reliable and accessible. Since Canals became a subsidiary of NYPA in 2017, NYPA has prioritized Dam Safety and Asset Management programs. We conduct more than 800 structural inspections each year and have assessed most of the Canal System’s civil structures. The data gathered in our inspection program allows us to create a pipeline of shovel ready projects and strengthens our ability to pursue additional resources, such as grants, that will support our revitalization efforts.

In 2023, we established a Canals External Funding Working Group and Canals Divestment Working Group. Our centralized, multidisciplinary Canals External Funding Working Group pursues state, federal and non-profit funding opportunities to increase the resources available for revitalizing the Canal System. Our Canals Divestment Working Group identifies assets that are no longer essential for our strategic priorities or the operation of Canal waterways. The group coordinates with state agencies and other stakeholders to right-size our asset portfolio by transitioning ownership of these non-essential assets to local organizations.



Canals Asset Management

Canals owns more than 2,700 civil structure assets, including locks, bridges, culverts, docks, dams, buildings, roads and upland disposal sites for dredged materials. In 2023, we continued our comprehensive inspection of the Canal System through our Asset Management and Structural Inspection programs. The data collected helps us understand the state of our assets and mitigate risks.

Infrastructure & Equipment Enhancements

In 2023, priority investments included a comprehensive dam safety initiative, efforts to reinforce earthen embankments, the purchase of new marine vessels and custom repairs to irreplaceable historic infrastructure components at our Waterford Shop.

Waterways & Dam Safety

Sustainable use of the Canal System’s waterways by tourists, businesses, locals and other groups depends in part on the integrity of its dams. Canals owns more dams than any other New York State entity, including a high number of intermediate- and high-hazard dams.¹ Our portfolio also includes more than 900 water-impounding structures such as spillways, gates and embankments. NYPA makes every effort to understand the conditions of these structures and the potential risks they pose to communities so we can preserve structural integrity and protect public safety. We know this work is essential to our goal to strengthen the Canal System for long-term use.

In 2023, we conducted comprehensive assessments of public safety at 125 of the Canal System’s dams. We also started potential failure mode analyses for all intermediate- and high-hazard dams along the Canals that will inform short-term and long-range project and resource planning. Other dam safety efforts launched in 2023 include 2D breach modeling and detailed consequence modeling that will further refine our understanding of dam-related risks. NYPA’s Waterways Dam Safety group initiated a quarterly dam and public safety risk report to present the results of these activities to senior management and improve risk communication and transparency.

¹"The hazard class of a dam is an indication of the estimated consequences if the dam were to fail. It is not an indication of the condition of the dam." – New York State Division of Water 3.1.5 Guidance for Dam Hazard Classification, NYSDEC.



Mitigating the Spread of Aquatic Invasive Species Through Canal Waterways

NYPA has created a rapid response plan (RRP) to mitigate the movement of the round goby into Lake Champlain. This plan includes a series of adaptive actions to contain the goby, such as vessel traffic restrictions. We are collaborating with New York State Department of Environmental Conservation and other partners to monitor the round goby via electrofishing and eDNA sampling. We are also working on a study to evaluate technology-based interventions that will deter the round goby, and potentially other aquatic invasive species, from spreading into Lake Champlain.

A system-wide, species-agnostic framework for aquatic invasive species RRP’s is under development that will enable quick responses to new invasive species and promote a resilient future for the Canals and connected waterways.

Embankment Repair Work

Approximately 125 miles of the Canal System is comprised of earthen embankments. These are engineered structures or dam walls made from soil, rock, clay and other “earthen” materials that hold water above the adjacent land surface elevation.

We have developed an Earthen Embankment Integrity Program (EEIP) that deploys innovative embankment repair strategies to maintain and preserve Canals embankments for all who use the Canal System. In 2023, the EEIP launched a first-of-its-kind project in the Town of Royalton, which has experienced multiple persistent embankment seeps over the past two decades. To ensure Royalton’s embankment infrastructure will operate safely for years to come, we reinforced the embankment with a new underground soil-bentonite slurry wall that hardens to form a permanent water barrier.

Marine Fleet Investments

In 2023, NYPA announced a plan to make significant investments in the Canal System’s marine fleet by procuring four maintenance vessels. Some of the fleet’s vessels are nearly a century old and require frequent,

complex maintenance. Our first two new tugboats are scheduled for delivery in 2025, with three more in 2027. In addition, NYPA and Canals staff collaborated to perform a week-long demonstration of an electric workboat. We successfully tested the boat’s effectiveness for Canals operations and plan to incorporate electric workboats into our future fleet.

Maintenance Shops

The Canal Corporation relies heavily on skilled employees to fabricate and repair critical infrastructure components. These employees perform welding, woodwork and electrical work, and specialize in repairing specific pieces of nearly century-old equipment that is no longer available for purchase. Maintenance work provides the aging assets with the expert attention they need, maximizing their strength, longevity and safety, helping reduce our dependency on outside suppliers and promoting the sustainable business principles of repair and reuse. In 2023, the Waterford Shop took delivery of a new Computer Numerical Control machine that allows the newly trained staff to fabricate parts faster and at a lower cost. In Central New York, the team in the Lysanders shop is now being trained on a new robotic welder which safely allows them to work on metal materials.

Environmental Stewardship

As a water-dependent infrastructure, the Canal System is sensitive to changes in local environments and can impact the balance of its surrounding natural ecosystems. We work to preserve and restore the health of Canals-adjacent environments and ecosystems through initiatives such as enhancements to local floodplains and wetlands; recreational programs like Fall Fishing, which occur in sync with natural lifecycles; and our Ice Jam Mitigation program, which helps mitigate the effects of ice jams for communities located on the Canal System.

Flood Mitigation

The Upstate Flood Mitigation Task Force, mandated in 2022 legislation and chaired by the Director of the Canal Corporation, submitted its final report to Governor Hochul in July 2023.

The Report describes the costs and impacts of flooding over the last five years to infrastructure, agriculture, transportation, land use, public health, insurance and the economy. It assesses Erie Canal operational procedures and plans that may have a direct or indirect impact on flood mitigation and flood management, and includes a list of adaptive measures that New York State can implement to mitigate flood damages in the Mohawk and Oswego river basins.

Wetlands Enhancement

In 2023, we began work to enhance wetlands within the Northern Montezuma Wildlife Management Area in the Erie Canal region. The project includes creating habitat for wildlife, removing invasive species and planting native vegetation.

Fall Fishing

We continued our Fall Fishing program, where canal water releases into northern tributaries are carefully timed to optimize fish spawning and the angling experience. The program extends the fishing season into the fall, expanding tourism and contributing to the health of fishing-related businesses.

In 2023, the New York Tourism Industry Association recognized the program’s “More Water = More Fish” campaign with its “Excellence in Tourism Marketing” award.

Ice Jam Mitigation

Ice jams are a recurring challenge in winter along sections of the Erie Canal and Mohawk River near Schenectady. Our Ice Jam Mitigation program entered its third year in 2023. Through this program, we continued to help mitigate ice jams and flooding for Canal-adjacent communities by deploying tugboats capable of breaking ice.



Reimagine the Canals Program

Through our Reimagine the Canals program, we engage with canal-adjacent communities to explore ways to adapt Canals infrastructure for public benefit and develop plans to repurpose land and waterways for renewed use. We also partner with local governments, non-profits and federally recognized Native American tribes to offer tourism opportunities, amenities and events on the Canal System. Read more on the strategy behind the [Reimagine the Canals](#) initiative on our website.

Brockport Pedestrian Bridge

We continued construction of the new pedestrian Brockport Pedestrian Bridge in 2023. The completed bridge will provide a direct path between the Empire State Trail and SUNY Brockport’s campus, making it easier for students to access recreation opportunities on the trail and visit local businesses from downtown Brockport. It will also provide a viewing platform for community members during rowing events.

The Ralph C. Wilson, Jr. Foundation awarded NYPA and Canals a \$2 million grant in support of this project. The Village of Brockport was able to leverage NYPA’s vision and investment to attract resources for other trail and Bridge improvements in the vicinity of the project.



Iconic Lighting

In 2023, we completed four of five Iconic Lighting projects on the Canal System’s historic infrastructure: Fairport’s lift bridge, the Oneida Lake lighthouses in Verona Beach and Brewerton, and the lock in Little Falls. We also continued to work on a lighting installation for the CSX Transportation lift bridge in Tonawanda that is slated for completion in 2024. The Iconic Lighting program was internationally recognized by a LIT Lighting Design Award in the “Community Building Lighting” category.

Medina Waterfront Promenade

In Medina, the Erie Canal’s concrete walls serve both as an aqueduct and as the foundation for a portion of the Empire State Trail. In 2023, we announced a project to reconstruct concrete and railings, improve adjacent park areas and trailheads, add new boater and trail amenities, and establish a triennial art event. The project received a \$2.6 million grant from the Ralph C. Wilson, Jr. Foundation and a \$400,000 grant from the Federal Highway Administration.

We are collaborating with local municipal and philanthropic leaders and regional educational, civic and cultural institutions to accomplish the project. This work will strengthen the Canals’ underlying infrastructure in Medina, and increase recreation opportunities and accessibility for nearby communities and visitors.

\$13,982,889

total capital spend in 2023 for Reimagine the Canals program

Canals Economic Impact Report

NYPA conducted a comprehensive economic impact assessment of the Canal System in 2023. This assessment examined 2022 economic and fiscal impacts to New York, focusing on four areas: operational spending, impact of tourism, impact of water resources, including hydroelectric generation, agriculture, manufacturing and municipal water supplies, and tax revenues from these activities. The results indicated that the Canal System had a \$408 million impact, supported 3,378 total jobs (including direct, indirect and induced) and generated \$21.9 million in state and local tax revenues. The findings highlighted the Canal System’s 2022 economic return to New York State, which totaled \$5 for every \$1 invested in the Canal System.

The study also looked at private development (multifamily housing, industrial, and commercial) occurring along the Canal System over a 10-year period, with a goal of highlighting the Canal System’s ability to act as a catalyst for private investment across New York State. The results indicated private investment equivalent to \$2.4 billion across approximately 90 different projects from 2012 to 2022.

Guy Park Manor

In 2023, we continued the first phase of our project to revitalize the exterior of the historic Guy Park Manor in Amsterdam, NY. This phase includes the rehabilitation of the historic manor house which was damaged during a storm event in 2011. The work is partially funded by the Federal Emergency Management Agency, which awarded a \$4.7 million grant in 2023 to support the project. Work involves lifting the manor out of the floodplain by 3.5 feet and installing new landscaping, berm protection and an accessible ramp. We expect to complete this phase of the project in 2025.

On the Canals Activities

On the Canals, a program focused on community revitalization, completed its fourth year in 2023, hosting a total of more than 30,000 participants. The program attracts new users to Canals waterways and the Empire State Trail and creates opportunities for economic development in nearby communities.

In 2023, we focused on adding more programming to support participation by underrepresented communities. More than 30% of the On the Canals budget went toward programming in these communities, which included recreational opportunities enabling people with and without disabilities to participate together.

Integrating Sustainability

Sustainability is embedded in everything we do, from our mission to the goals outlined in VISION2030. We are dedicated to furthering the transition to a carbon-free, economically vibrant New York State in ways that protect natural ecosystems and promote equity and inclusion for our workforce and stakeholders.

Preserving Ecosystems and Biodiversity

NYPA and Canals own or maintain more than 100,000 acres of land and water in New York State. Our stewardship of this land and water is an essential part of our commitment to serve the public good and provides valuable benefits to our operations, our communities, and New York State. Our work to protect and preserve New York State’s natural ecosystems often surpasses federal and state regulatory and policy requirements.

As part of our federal licensing agreements, NYPA has enhanced and restored more than 1,950 acres of habitat across the state. These habitat improvement projects provide important support for ecosystems and species of particular environmental, recreational, economic, and cultural importance to local communities.

NYPA is also accredited by the Right-of-Way Stewardship Council to implement integrated vegetation management practices on our rights-of-way. These practices allow us to maintain a healthy habitat for pollinators and other species while maintaining power system reliability.

Additional efforts to promote biodiversity include work to establish pollinator meadows and gardens at our facilities, along the Canals and in our communities. In 2023, we created a low-mow meadow and opened a new public walking trail near our visitors center in Massena. In Hermon, NY, we restored a 14-acre construction site using a diverse mix of native pollinator-friendly plants that support the surrounding agricultural industry. We partnered with the Village of Brockport and the Utica Zoo to plant pollinator gardens along the Canal and in the zoo. In addition, we enriched our STEM educational offerings at our Niagara Power Vista visitors

center by unveiling a new interactive garden exhibit on the importance of healthy ecosystems.

To further expand our ecosystem stewardship efforts, we partnered with the Electric Power Research Institute (EPRI) on collaborative research. We completed a Strategic Land Assessment that evaluated opportunities to use our lands to support terrestrial biodiversity, water resilience, community revitalization and access to nature for disadvantaged communities. The results will inform project-siting decisions and have increased our ability to evaluate the environmental and social value our lands can provide.

NYPA also participated with peer utilities in a related EPRI project to develop a scientific model for monarch habitat. We have since used the model to complete an inventory of monarch habitat on our lands and evaluate relevant risks and opportunities.

Another study completed in 2023 evaluated the feasibility of locating solar projects on land suitable for agriculture. The study included interviews with stakeholders and a survey of growers to understand farmer perceptions of agrivoltaics. Best practices and challenges identified in the study have been incorporated into a compendium to guide renewable project development.



Tree Power

Through partnerships with customers and communities, our Tree Power program distributes more than 1,000 trees a year. These trees increase natural carbon storage, reduce stormwater flooding, and provide habitat for native biodiversity. In 2023, more than 460 of the 1,350 trees distributed were provided to underserved communities.

Zero Waste Program

Through our Zero Waste Program, we are seeking to reduce waste generation and divert materials from landfills and incinerators for reuse or recycling. We completed waste assessments at all NYPA sites in 2023 and are using the information gathered to develop targeted waste-reduction plans. Recommendations include enhanced recycling programs, organics management, and elimination of single-use plastics.

Supporting Our People & the Communities in Which We Operate

As we pursue a leading role in New York State’s just energy transition, we prioritize efforts to promote the health and well-being of NYPA’s employees and to be a good neighbor to stakeholder communities. The following pages describe how—through community programs, engagement with local and diverse suppliers, employee development initiatives, and the celebration of diversity in NYPA’s team—we are building a resilient social ecosystem that will help New York thrive.

Our Visitors Centers

NYPA’s admission-free visitors centers serve as an important resource for our communities. We offer exhibits, educational programs and training on STEM and the energy sector for local and underserved communities.



Engaging with Our Communities

Our community engagement efforts include community-based programs and services, investments in local ecosystems preservation, recreation-enhancing projects and allocation of discounted hydropower to settlement communities. A primary focus of our community programs and services is to support disadvantaged communities.

Our Community Energy Efficiency program draws on NYPA’s expertise in clean technologies to develop no-cost programs and services that reduce energy use and costs for underserved communities. In 2023, we completed a project with the Niagara Wheatfield Central School District that provided energy-efficient upgrades to Tuscarora Elementary School’s heating and water filtration systems.

Our Future Energy Leaders program awards one-time, \$10,000 scholarships to academically accomplished, under-represented high school seniors who plan to pursue energy-related undergraduate studies. NYPA awarded ten of these scholarships in 2023.

Our partnership program with P-Tech provides paid internships to students from underserved communities who are interested in pursuing STEM careers. We hosted our third annual paid internship program with 40 students in 2023

Other programs include NYPA’s Fleet Donation Program, which in 2023 transferred six hybrid and all-electric vehicles designated for retirement to automotive training programs. Through this program, students develop technical skills in electric technologies that can lead to careers in clean energy.

We also delivered 22 adult energy literacy workshops and 55 STEM education workshops for children in 2023. These workshops promote STEM education while building awareness of climate change and the clean energy transition.

\$1 million award

NYPA collaborates with academic institutions to build programs that prioritize underserved communities. In 2023, we funded Bronx Green Action, an environmental sustainability challenge for Bronx-based colleges to advance energy-related climate solutions and green jobs training. Bronx Community College was the inaugural winner of the \$1 million award.



Protecting Our People & Promoting Well-Being

Health & Safety

NYPA’s Health and Safety program complies with all regulatory requirements, including those mandated by the state Department of Labor Public Employee Safety and Health Bureau. The program is managed by our regional Environment, Health and Safety (EHS) staff. Our corporate EHS department supports regional efforts through site-specific programs and uses data provided by its regional teams to track, maintain and report mandatory health and safety metrics.

Each of NYPA’s sites has a regional Union Management Safety Committee that includes appropriate employee and union representation. These committees keep training requirements, operational safety communications and escalation resources consistent and effective.

NYPA conducts internal and third-party EHS compliance audits at select facilities annually. We also maintain a culture of health and safety through compliance, skill development, and management training courses.

In 2023, our employee training hours increased by 49% from the previous year. As part of our core safety training, we introduced a redesigned Electrical Safety program, with more than 2,000 employees completing the course. Our efforts to increase employee knowledge of safety procedures through courses like this have improved hazard awareness and helped lower risks.

Health & Well-Being

NYPA and Canals offer a broad range of benefits that can be customized to meet the health and well-being needs of employees and their families. This includes the Employee Assistance Program (EAP) which provides support with mental health issues and child and elder care. EAP also offers personal and career coaching services, healthy living resources, and financial and legal counsel discounts. We provide generous vacation and sick time as well as various leaves of absence programs. Employee financial well-being needs are addressed through New York State’s Local Retirement System or Voluntary Defined Contribution Plan. In addition to the state retirement plan, NYPA offers defined contribution plans to help employees further meet their savings goals.

Promoting a Diverse & Inclusive Culture

Our commitment to advance DEI is embedded in our strategy as one of VISION2030’s Foundational Pillars. NYPA’s Office of Civil Rights and Inclusion (OCRI) leads a collaborative process to enhance DEI awareness and culture across the organization.

NYPA aims to create an environment where everyone has an equal opportunity to succeed and contribute. We invest in training designed to mitigate bias and build a diverse, skilled workforce, and we set clear expectations for compliance with our policies.

We also offer programs to improve workplace experiences and support professional development for diverse and historically underrepresented employees.

- Our Pathways Professional Development program provides group learning, skill application, peer coaching and mentoring to non-managerial POC employees
- The Connected Leaders Academy (CLA) Management Accelerator Program helps early- to mid-career leaders refine their skills in a cohort learning environment. The CLA Executive Leadership program addresses specific challenges faced by Asian, Black and Hispanic/Latino executives
- NYPA’s Advancing Women Executives (AWE) Academy offers career accelerator skills, including professional branding, networking, and executive presence

In 2023 we launched ALLY, a mandatory organization-wide antibias training that seeks to build a culture of inclusion and reduce the influence of unconscious bias on decision-making.

We developed a mandatory Workplace Discrimination Prevention course and provided training to all NYPA employees and affiliates.

An annual Executive Leadership Briefing on DEI explored biases that influence decision-making processes, and takeaways were shared with senior leaders who participated in an exercise designed to strengthen DEI competency skills.

We continued to host regular employee conversations about DEI in 2023, including Courageous Conversations, a panel series that celebrates NYPA’s culture through the eyes of its employees. Our 2023 Diversity Month celebration included a panel discussion titled “What’s in It for Me? Exploring Men’s Role in Diversity, Equity and Inclusion.” The event was designed to help our male employees create a more inclusive culture and was attended by more than 125 employees.

Through our biannual engagement survey—which includes a DEI component—we listen to employees to understand how we can best support them. Our 2023 engagement surveys elicited an 81% response rate from non-represented, non-union employees across the organization. Our overall engagement score improved by two points over the previous two years, and by 18 points since the survey was launched in 2015.

In 2023, we also took additional steps to embed DEI in our recruiting process by including “diversity checkpoints” at various stages of our hiring process. “Checkpoints” include standardized interview questions, diverse panels of interviewers, salary transparency and updated job postings with gender-inclusive language.

In 2023,
61 employees

participated in Pathways Professional Development, CLA and AWE. CLA had 36 graduates and AWE had 5, for a total of 41 graduates.

Employee Resource Groups

NYPA’s voluntary, employee-led Employee Resource Groups (ERG) help educate and engage employees with activities that can have meaningful impacts on our business. Our six ERGs are Women in Power, Veterans, Eco Team, Generations, Pride in Power and Multicultural.

In 2023, an ERG Council was established that provides a forum for ERG leaders and executive sponsors to collaborate. We also hosted our inaugural “Powering Inclusion” ERG Excellence Awards to showcase ERG champions who exemplify DEI at NYPA. Employees submitted 50 peer nominations. Awards recognized ERGs, ERG leaders, managers, executive sponsors and individual contributors.

Our Veterans ERG nominated NYPA’s Total Rewards benefits program for recognition by Employer Support of the Guard and Reserve in 2023. The organization honors employers who have provided Guard and Reserve employees with benefits that exceed legal requirements, and recognized NYPA with a “best in class” Above and Beyond Award.





Laying the Path for a Meaningful Career

NYPA maintains a multi-year, organization-wide Workforce Development Initiative to help attract and retain a high-performing, diverse workforce, foster learning and provide pathways for fulfilling careers. In 2023, we continued a project to standardize career pathways and streamline job descriptions, focusing on the core knowledge, skills and abilities needed for success.

All full-time management employees have access to our Talent Development curriculum, which provides training opportunities to meet specific learning needs.

- We ran two cohorts of our MANAGE Blue program in 2023, which provides newer managers with foundational skills required to lead a team. This eight-week learning experience incorporates instructor- led training, assessments to build self-awareness, and tools to guide new managers through their transition as people leaders.
- In partnership with Bard College, a second cohort of NYPA students completed the coursework for their MBA in Sustainability, which included action learning capstone projects to solve organizational challenges.
- We began our second cohort of LEAD Blue, a program that aims to engage and develop leaders while building resilience in a changing industry. This year, we sought to mitigate implicit bias in the course application process by allowing people to nominate themselves for the course before receiving a nomination from someone else. Their names and personal information were also not shared with those who reviewed the applications. The resultant cohort was diverse across gender, ethnicity, location and job function.

In 2023,
13 employees

graduated from Bard College’s Master of Business Administration in Sustainability program. Employee tuition is fully funded by NYPA.



Supporting Local Suppliers and Building a Diverse and Resilient Supply Chain

2023 marked the 40th anniversary of Supplier Diversity, a program that has actively worked to encourage small and diverse businesses since its inception. Through this program, NYPA aims to drive economic development by cultivating relationships with diverse suppliers within our communities. We marked the anniversary by participating in 40 outreach events around the state. We also hosted our annual Supplier Diversity Expo in March 2023 to facilitate connections among minority/women-owned business enterprises (MWBEs), service-disabled veteran-owned businesses (SDVOBs), New York State Small Businesses, contractors, and consultants.

We are committed to assisting MWBE, SDVOB and Small Business owners in building capabilities so they can compete on NYPA and Canals procurements. To this end, NYPA supports three business development programs: Mentor-Protégé, Surety Bond Training and Small and Local Business Capacity Building.

In June 2023, we celebrated 131 graduates of the Small and Local Business Capacity Building and Surety Bond Training programs. These programs provide comprehensive support to businesses in early- and mid-stages of growth that includes one-on-one advisory services, group discussions and workshops. In the fall of 2023, we convened our next cohorts of 121 participants, which include MWBEs, SDVOBs and New York State Small Businesses. Three Mentor Protégé teams also completed their formal engagement with NYPA in 2023, and we enrolled 13 new pairs that are carrying forward in 2024.

In 2023, NYPA's procurement portfolio maintained 3,640 contracts with a value of \$5,000 or greater. The collective value of these contracts exceeded \$6 billion. Our 2023 procurement expenditures exceeded \$1 billion.

NYPA uses industry best practices and keep suppliers informed by sharing insights on geopolitical events, key economic indicators and supply-and-demand dynamics across regions. We also maintain open communication with industry experts and stakeholders to anticipate and mitigate potential supply chain disruptions.

Through initiatives like the Sustainable Supply Chain Alliance, we provide resources to help suppliers improve their sustainability performance and collaborate with other electric utility organizations to conduct annual ESG supplier assessments.

Mentor-Protégé Program

Our Mentor-Protégé Program allows small business owners to build and develop a competitive edge in their business by connecting them with established prime contractors. This relationship is a gateway to valuable industry insight, enhancing the small business' knowledge base and improving its chances of successfully competing and winning on projects. NYPA's Supplier Diversity team is instrumental in deepening the mentor-protégé relationship and guiding capacity-building activities, further enhancing the program's benefits for small business owners.

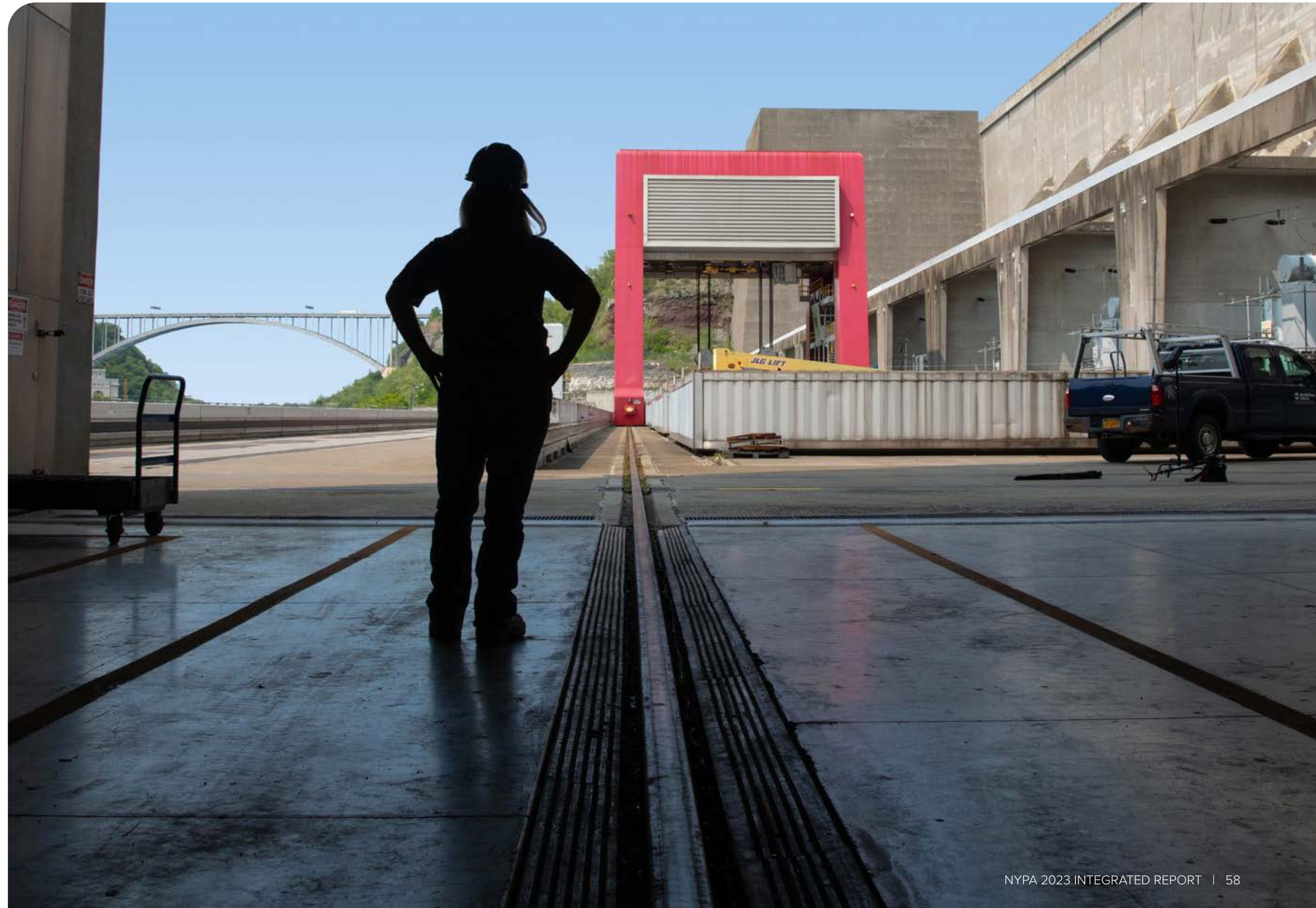
Looking Forward

Climate change is one of the most pressing issues of our time. Our actions over the next five years will be critical for curbing greenhouse gas emissions and mitigating climate change's most severe consequences for NYPA and the state of New York.

The transition to clean energy is essential — as is the need for this transition to be just. Our strategic priorities to preserve hydropower, decarbonize electricity generation, lead transmission expansion, partner with customers and the state, and reimagine the Canals focus our activities to lead the energy transition and mitigate and adapt to climate change in ways that benefit all.

With our new expanded authority, we will explore ways to develop new renewable generation assets throughout New York. We will also continue research and investments in new technologies that have potential to accelerate our progress towards VISION2030 and the state's ambitious targets.

As NYPA builds a path to a cleaner, greener more equitable energy future, we will face challenges. But we are ready to take on these challenges, and we are determined to redefine energy in New York while creating lasting value for our stakeholders — now, and for generations to come.



06

DISCLOSURES INDEX

Performance Data

The metrics included in this section cover the period from Jan. 1, 2023 to Dec. 31, 2023 as well as previous years’ data where applicable. The Performance Data tables include key indicators that NYPA tracks and which also align with the Global Reporting Initiative (GRI) and Sustainability Accounting Standards Board (SASB). The GRI and SASB Content Indices can be found on pages 68 and 81 respectively.

Greenhouse Gas (GHG) Emissions

NYPA's GHG emissions includes the following gases: carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), sulfur hexafluoride (SF₆), and hydrofluorocarbons (HFCs). NYPA excludes reporting of perfluorocarbons (PFCs), hydrochlorofluorocarbon (HCFCs) and nitrogen trifluoride (NF3) as well as biogenic emissions as they are not emitted in any operations within the operational boundaries. In alignment with GRI 305, GHG emissions reported in these performance tables utilize 100-year Global Warming Potential (GWP) values from the IPCC’s AR4. GHG emissions in the following report sections utilize 20-year GWP values from the IPCC’s AR5, in alignment with the CLCPA directive for state entities: [Our 2023 Performance](#), [Our Value Creation Model](#) and [Decarbonize Electricity Generation](#).

Metric Tons CO ₂ e (GWP-100 Year)			
	2021	2022	2023 ¹
Scope 1 Greenhouse Gas Emissions	1,426,651	1,777,830	1,797,507
Scope 2 Greenhouse Gas Emissions (Location-Based)	-	64,363	38,975
Scope 2 Greenhouse Gas Emissions (Market-Based)	-	-	38,974
Total Scope 1 & 2 Emissions (Market-Based)	-	1,842,193	1,836,481
Scope 3 Cat 3 - Upstream Fuel- and Energy-Related Activities	-	4,432,440	5,428,374
Scope 3 Cat 6 - Employee Business Travel	-	616	805
Scope 3 Cat 7 - Employee Commuting	-	6,971	5,545
Total Reported Scope 3 Greenhouse Gas Emissions	-	4,440,027	5,434,724

Source of Emission	Gases in Absolute Metric Tons - 2023 ¹				
	CO ₂	CH ₄	N ₂ O	HFCs	SF ₆
Direct (Scope 1)	1,759,722	33	3	2	1
Scope 2 Greenhouse Gas Emissions (Location-Based)	38,874	2	0	N/A	N/A
Scope 2 Greenhouse Gas Emissions (Market-Based)	38,873	2	0	N/A	N/A
Scope 3 Cat 3 - Upstream Fuel- and Energy-Related Activities	4,821,409	23,928	29	N/A	N/A
Scope 3 Cat 6 – Employee Business Travel	535	0	1	N/A	N/A
Scope 3 Cat 7 - Employee Commuting	5,513	0	0	N/A	N/A
Total Reported Scope 3 Greenhouse Gas Emissions	4,827,458	23,928	30	N/A	N/A

Source of Emission	Gases in Metric Tons CO ₂ e (GWP-100 Year) - 2023 ¹				
	CO ₂	CH ₄	N ₂ O	HFCs	SF ₆
Scope 1 Greenhouse Gas Emissions	1,759,722	820	1,009	2,335	33,620
Scope 2 Greenhouse Gas Emissions (Location-Based)	38,874	40	61	N/A	N/A
Scope 2 Greenhouse Gas Emissions (Market-Based)	38,873	40	61	N/A	N/A
Scope 3 Cat 3 - Upstream Fuel- and Energy-Related Activities	4,821,409	598,202	8,763	N/A	N/A
Scope 3 Cat 6 - Employee Business Travel	535	3	266	N/A	N/A
Scope 3 Cat 7 - Employee Commuting	5,513	6	26	N/A	N/A
Total Reported Scope 3 Greenhouse Gas Emissions	4,827,458	598,210	9,055	N/A	N/A

¹Read the full [Statement of Greenhouse Gas Emissions with Independent Accountants’ Review Report \(limited assurance, Scopes 1, 2 and certain Scope 3 Emissions, 2023\)](#) thereon

GHG Emissions Intensity			
Source of Emission	2021	2022	2023
Total Generation (MWH)	26,918,953	26,389,752	26,924,316
Fossil Generation (MWH)	3,364,015	3,951,430	4,304,865
Direct (Scope 1) Total Intensity (MT CO ₂ e/MWH)	0.053	0.067	0.067
Direct (Scope 1) Fossil Intensity (MT CO ₂ e/MWH)	0.424	0.450	0.418

Nitrogen Oxides (NO_x), Sulfur Oxides (SO_x), and Other Significant Air Emissions

Reportable emissions from our fossil generating assets, located in Southeastern New York.

	2021	2022	2023
NO _x (excluding N ₂ O) (kg) ¹	121,330	242,202	159,132
SO _x (kg)	14,074	9,874	9,309
Volatile Organic Compounds (VOC) (kg)	9,915	14,283	18,002
Hazardous Air Pollutants (HAP) (kg)	12,088	14,141	15,063
Particulate Matter – Total (PM ₁₀) (kg)	13,020	5,000	13,575

Water Withdrawal and Consumption

	2023
Total volume of water withdrawn (billion kiloliters) ²	2,899.49
Water withdrawn from surface water (billion kiloliters)	2,899.49
Water withdrawn from ground water (kiloliters)	565,651
Water withdrawn in regions with high or extremely high baseline water stress (%)	0.0000195
Total volume of water consumed (kiloliters) ³	6,692,587
Water consumed in regions with high or extremely high baseline water stress (%)	8.20

¹Variability of NOx emissions is in large part due to extended outages at Richard M. Flynn Power Project

²Water withdrawn to serve NIA and STL turbines at hydro facilities (and returned/discharged). Also includes water withdrawals for operating Flynn power station. Municipal water is not included.

³Consists of water evaporation at NIA plus at Flynn power station, calculated as the difference between well water withdrawn and water reinjected. Municipal water is not included.

Waste Generated, Directed to Disposal, and Diverted from Disposal

Non-hazardous wastes are not included in reporting scope for 2022 or prior years. NYPA is currently evaluating ways to track non-hazardous wastes in the future.

	2022	2023
NYPA Hazardous Waste (Metric Tons)		
Total weight of hazardous waste ⁴	57.8	9.54
Reuse	0.00	0.00
Recycling	2.71	0.023
Recovery, including energy recovery	0.00	0.00
Incineration (mass burn)	5.77	9.15
Landfill	0.15	0.27
Other ⁴	49.2 ⁵	0.10
Canals Hazardous Waste (Metric Tons)		
Total weight of hazardous waste ⁴	12.77	11.91
Incineration (mass burn)	1.33	0.56
Recovery, including energy recovery	0.00	0.00
Landfill	8.32	11.35
Other ⁶	3.12	2.2

⁴All hazardous waste disposed or diverted from disposal conducted off-site for NYPA and Canals

⁵Largely represents sulfuric acid and debris spill response at the Flynn site

⁶Lead impacted wastewater, treatment via filtration techniques

Electric Rates and Rate Comparisons

NYPA Customer Segments	NYPA Rates (\$/MWh) ¹	Utility/Market Rate Estimates (\$/MWh)
Residential	N/A	N/A
Hydro Cost-Based (\$)	12.63	33.29
Hydro Economic Development (\$)	44.59	58.78
Hydro Industrial (\$)	34.74	36.07
NYC Governmental (\$)	81.53	114.81
Westchester County Governmental (\$)	61.31	95.11

¹Production rates include market costs that are passed through to customers as incurred by NYPA, as applicable

Representative Risks and Opportunities Arising from External Factors, and Actions NYPA is Taking that Affect Affordability

External Factors ²	Risks	Opportunities	NYPA Actions
Economic hardships	Customer inability to pay electric bills	• Build strong relationships with communities and customers • Promote business growth and economic resilience	• Offer tailored rate structures and rate plans • Execute long-term contracts • Provide customer and community energy efficiency programs and services that lower bills (and reduce greenhouse gas emissions) • Open communication and transparency on rate changes to help customers plan and budget
Carbon transition	Transition to microgrids, wind and solar, reducing NYPA's competitive advantage and increasing rates	• Expand customer clean energy services programs	• Expand transmission to interconnect renewables • Continue generating clean reliable energy for New York State (hydropower) • Provide building and vehicle energy efficiency, electrification, and renewable energy services to customers
Physical impacts of climate change	Physical impacts to infrastructure and inability to meet customer needs	• Invest in innovation, efficiency, and growth to meet changing customer and stakeholder needs	• Conduct climate vulnerability assessment and spillway analysis • Harden NYPA assets • Enhance biodiversity and climate resilience of NYPA land • Expand clean energy services offerings

²This list of external factors is not exhaustive

Employees¹

Head count of active employees as of Dec. 31, 2023

	Female	Male	Total
NYPA Employees (Number)	540	1,597	2,137
Permanent	522	1,556	2,078
Provisional	3	10	13
Temporary	15	31	46
Or			
Full-time	531	1,594	2,125
Part-time	9	3	12
Canals Employees (Number)	79	414	493
Permanent	66	350	416
Provisional	1	21	22
Temporary	12	43	55
Or			
Full-time	79	414	493
Part-time	0	0	0

¹In the Disclosures Index, “employees” refers to active permanent, provisional, and temporary employees, full-time and part-time, unless otherwise indicated

Employee Gender Diversity

Employee composition as of Dec. 31, 2023

	# of Female Employees	Female % of Total Employees	# of Male Employees	Male % of Total Employees	Total Employees	% of Total Employees
NYPA						
Under 30	287	13.4%	875	40.9%	1,162	54.4%
30 – 50	204	9.5%	598	28.0%	802	37.5%
Over 50	49	2.3%	124	5.8%	173	8.1%
Total	540	25.3%	1,597	74.7%	2,137	100.0%
CANALS						
Under 30	11	2.2%	61	12.4%	72	14.6%
30 – 50	33	6.7%	178	36.1%	211	42.8%
Over 50	35	7.1%	175	35.5%	210	42.8%
Total	79	16.0%	414	84.0%	493	100.0%

	Amer Indian		Asian		Black		Hispanic		Two or More Races		White		Grand Total
	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	
NYPA													
Management	1	7	69	179	58	55	46	105	6	10	263	753	1,552
Union	1	7	1	4	7	15	1	7	1	2	86	453	585
Total	2	14	70	183	65	70	47	112	7	12	349	1,206	2,137

	Black		Hispanic		White		Grand Total
	Female	Male	Female	Male	Female	Male	
CANALS							
Management	1	1	1	1	12	28	44
Union	3	3	4	15	58	366	449
Total	4	4	5	16	70	394	493

NYPA DEI Recruitment & Engagement Indicators

	Female	Male	POC ²	White
Candidate Offers (%)	32.1	67.9	46.4	53.6
Candidate Hires (%)	31.7	68.3	47	53
Staff in Mentorship (3% of eligible management population elected mentoring opportunity) ¹	41.9	58.1	62.8	37.2

¹Mentoring available to permanent management employees with at least a year of service

²People of Color defined as self-identified for race/ethnicity for American Indian, Asian, Black, or African American, Hispanic, or Latino and Two or More Races

Other Diversity Indicators Used by NYPA

At NYPA our commitment to DEI compels us to embrace the characteristics that make our employees unique and create an environment where every employee feels valued. NYPA strives to develop and maintain a workforce that represents the communities where we live and work by building an organization whose culture, behaviors, and actions demonstrate our dedication to prioritizing DEI as an imperative. We have set goals around increasing representation, building management and staff capability, creating an inclusive culture, and improving transparency and accountability in policies and programs.

We continue to lean into this commitment by building the pipeline and representation as we broaden our workforce development programs, expand recruiting channels, measure engagement, and create more opportunities to hear from our employees about what support they need to grow and belong. We want to be able to source internal talent and retain more of the people we are attracting and developing to positively impact the trends and build the energy sector’s pipeline of diverse talent.

NYPA¹ Compared to Utility² and New York State (NYS)³ - Gender

	NYPA	Utility Benchmark	New York State Population
Civilian Labor Force, 16 Years and Over			
Male (%)	74.8	75.7	51.7
Female (%)	25.2	24.6	48.3

¹Does not include Canals employees

²From PriceWaterhouse Coopers 2020 Benchmark Survey of 59 public and private utilities and the Women in the Workplace 2021 report

³NYS DOL division of research & statistics Source: 2018-2022 American Community Survey (Tables B21005, B23001, C18120, C23002A, C23002B, C23002D, C23002I, B23006), ACS. Demographics of the Civilian Labor Force for NYS and the NYS Labor Market Regions. NYS demographics data for Asian, African American/Black, White and other races includes Hispanic and Latino people.

NYPA¹ Compared to Utility² and NYS³ - Ethnicity (% of Regional Workforce Population)

NYPA Total	Capital Region	Central New York	Hudson Valley	Long Island	Mohawk Valley	New York City	North Country	Western New York
2,137	92	9	981	16	346	73	277	343
100%	4.3%	0.4%	45.9%	0.7%	16.2%	3.4%	13.0%	16.1%

By Race or Ethnicity	NYPA	Utility Benchmark	NYS Population	Capital Region		Central New York		Hudson Valley		Long Island		Mohawk Valley		New York City		North Country		Western New York	
				NYPA	Labor Force	NYPA	Labor Force	NYPA	Labor Force	NYPA	Labor Force	NYPA	Labor Force	NYPA	Labor Force	NYPA	Labor Force	NYPA	Labor Force
Asian, excluding Hispanic or Latino	12.1%	1.7%	7.7%	6.3%	4.1%	0.0%	2.4%	23.9%	4.1%	7.6%	6.3%	2.1%	2.2%	16.2%	11.9%	0.0%	1.1%	1.2%	2.6%
Black or African American, excluding Hispanic or Latino	6.1%	7.5%	12.2%	1.1%	6.4%	11.2%	6.2%	9.4%	10.0%	0.0%	8.4%	2.1%	2.8%	18.8%	17.2%	0.4%	1.9%	4.9%	8.5%
Hispanic or Latino	7.6%	3.4%	15.7%	5.2%	4.8%	0.0%	3.6%	13.6%	17.4%	8.5%	15.9%	0.9%	5.1%	17.3%	21.4%	0.8%	2.7%	2.5%	4.5%
Other Race, excluding Hispanic or Latino	1.7%	1.0%	13.8%	1.0%	6.3%	0.0%	5.6%	1.5%	14.7%	0.0%	12.5%	0.3%	5.5%	4.3%	18.5%	2.2%	4.9%	3.1%	5.7%
White, excluding Hispanic or Latino	72.5%	84.7%	50.6%	86.4%	78.5%	88.8%	82.2%	51.6%	53.8%	83.9%	57.0%	94.6%	84.4%	43.3%	31.0%	96.7%	89.5%	88.3%	78.7%

¹Does not include Canals employees

²From PriceWaterhouse Coopers 2020 Benchmark Survey of 59 public and private utilities and the Women in the Workplace 2021 report

³NYS DOL division of research & statistics Source: 2018-2022 American Community Survey (Tables B21005, B23001, C18120, C23002A, C23002B, C23002D, C23002I, B23006), ACS. Demographics of the Civilian Labor Force for NYS and the NYS Labor Market Regions. NYS demographics data for Asian, African American/Black, White and other races includes Hispanic and Latino people.

NYPA's White Plains office is in the Hudson Valley, Albany administrative office is in the Capital Region, Syracuse administrative office is in Central NY, Flynn Plant is in Long Island, SNGPPs and Zeltmann Power Project are in NY City, Clark Energy Center and Blenheim-Gilboa Pumped Storage Power Project and small hydro facilities are in Mohawk Valley, St. Lawrence-FDR Power Project and Massena office are North Country, and Buffalo office and Niagara Power Project are in Western NY.

Average Hours of Training Per Year Per Employee

	2021	2022	2023
NYPA			
Female	36.5	21.7	28.4
Male	45.4	42.7	50.0
Total	50.0	37.6	44.3

	2021	2022	2023
Canals			
Female	25.5	25.6	31.9
Male	31.4	55.5	56.5
Total	30.5	50.9	52.5

Percentage of Employees Receiving Regular Performance and Career Development Reviews

Overall percentage of full-time NYPA unrepresented employees receiving regular performance reviews. Canals currently does not have a formal performance review process but is in the process of developing a comprehensive plan.

	2021	2022	2023
NYPA (%)			
Female	92	90	98
Male	97	94	98
Total	96	93	98

Diversity of Governance Bodies

Board of Trustees and EMC composition as of December 31, 2023

	Female	Male	Total
NYPA & Canals Governance Members (%)			
Under age 30	0	0	0
Age 30 – 50	15.8	5.3	21.1
Over age 50	31.6	47.4	78.9
Total	47.4	52.6	100

Collective Bargaining Agreements

Employee composition as of Dec. 31, 2023

	Female	Male	Total
Employees Covered by Collective Bargaining Agreements (%)			
NYPA	17	83	27.3
Canals	14	86	91.1

Work-Related Injuries

	2021	2022	2023
NYPA Health & Safety Performance			
Employee DART rate	0.59	1.20	0.80
Total employee recordable injury rate	1.28	2.06	1.55
Total employee serious injuries ²	Data not available	2	2
Total employee fatality rate	0	0	0
Number of near misses	517	439	395
Canals Health & Safety Performance			
Employee DART Rate	4.37	2.66	3.49
Total employee recordable injury rate	5.58	4.35	6.05
Total employee serious injuries ²	Data not available	0	1
Total employee fatality rate	0	0	0
Number of near misses ¹	Data not available	Data not available	Data not available

¹Canals does not have a Near Miss program. Safety program development has been focused on incidents (i.e., injuries), DART rate and safety training. We are in the process of developing a Near Miss program, and data will be included in future reports.

²This measure tracks incidents that meet the criteria of being a serious injury or fatality (SIF) based on a standard definition used by the Edison Electric Institute. Serious Injuries was developed to be a metric that better facilitates the prevention of fatalities and serious injuries that are life-threatening or life-changing for the employee. The metric should reflect the extent of serious injury to employee(s) from events within the control of the employee or employer. Serious injuries is the number of employee injuries classified as serious or fatal based on the definition used by the Edison Electric Institute for serious injuries times 200,000 (derived from OSHA's definition which hypothesizes 100 full-time employees working 2,000 hours per year) divided by the number of person-hours worked in the period.

NYPA and Canals’ Supplier Diversity Spend

Our NYPA and Canals Supplier Diversity spend is based upon established New York State certification requirements and criteria for MWBE³ and SDVOB⁴ firms. Utilization data, a key component to measure our success, is submitted to the state of New York each quarter, and our utilization growth plans and outreach activities are integral parts of our Annual Master Goal Plans that is submitted and approved by the state.

	2023 ⁵
Total MWBE and SDVOB Spend	
Total spend with NYS-certified MWBEs (\$)	121M
Total spend with NYS-certified SDVOBs (\$)	16M

³Minority and Women’s Business Enterprise (MWBE) ⁴Service-Disabled Veteran Owned Business (SDVOB)

⁵Beginning in 2023, Supplier Diversity will report expenditures in lieu of utilization percentage in the Integrated Report to increase the value and impact of the work and spending related to it

GRI Content Index

Statement of Use : NYPA has reported in reference to the Global Reporting Initiative (GRI) for the period January 1, 2023 to December 31, 2023.

GRI 1 Used : GRI 1 - Foundation 2021

GRI #	GRI Disclosure	Report Section	Additional Information
GRI 2: General Disclosures 2022			
The Organization and Its Reporting Practices			
2-1	Organizational details	About Us	NYPA’s headquarters are located in White Plains, NY
2-2	Entities included in the organization’s sustainability reporting	About Our 2023 Integrated Report	
2-3	Reporting period, frequency and contact point	About Our 2023 Integrated Report	01/01/2023 to 12/31/2023 Annual
2-4	Restatements of information		We have revised the calculation methodology for water withdrawal since 2022, therefore we are including only 2023 data.
2-5	External assurance		NYPA obtained independent limited assurance for Scopes 1, 2 and certain disclosed Scope 3 greenhouse gas emissions, 2023 data.
Activities and Workers			
2-6	Activities, value chain, and other business relationships	Performance & Outlook	NYPA and Canals secure suppliers to support critical operations, maintenance and capital projects, as well as bulk electric system, power plant, canal system, railway and energy efficiency projects. 1645 contractors, consultants and equipment suppliers, among others, are engaged to support both NYPA, and Canals.
2-7	Employees	Performance Data Supporting Our People & the Communities in Which We Operate	
2-8	Workers who are not employees		As projects warrant, non-employees (consultants and contractors) are hired to augment design work, inspection, and construction activities.
Governance			
2-9	Governance structure and composition	Governance	
2-10	Nomination and selection of the highest governance body	Our Trustees and Directors	
2-11	Chair of the highest governance body	Our Trustees and Directors	
2-12	Role of the highest governance body in overseeing the management of impacts	A Message from the Chairman	
2-13	Delegation of responsibility for managing impacts	Risk Management	

GRI #	GRI Disclosure	Report Section	Additional Information
Governance			
2-14	Role of the highest governance body in sustainability reporting	Sustainability Governance	
2-15	Conflicts of interest	Maintaining Sound Governance	NYPA's Code of Conduct requires its employees, officers and trustees to disclose any potential personal or professional conflicts of interest to the Ethics and Compliance Office. Reported conflicts are evaluated to determine their relevancy and whether corrective actions, including recusals from participation in certain business activities and projects, need to be implemented. Conflicts of interests may arise from various events, including former employment, current or former board or commission affiliations, familial relationships, personal investments, community activities and otherwise. NYPA's Board of Trustees is also subject to the "Board of Trustees Conflicts of Interest Procedure", which requires the disclosure of any potential conflict of interest with individuals or entities that will appear on Trustees' meeting agendas. The Corporate Secretary's Office provides the agendas to the Trustees in advance of the meetings and records conflict of interest disclosures in the meeting Minutes. In certain instances, these disclosures lead to recusals from participation on the identified items.
2-16	Communication of critical concerns		Critical concerns are raised to the Executive Management Committee and Governance Committee of the Board of Trustees by the Ethics and Compliance Office on an as-needed basis. The Investigative Trends Committee (Ethics and Compliance, Employee Relations, Labor Relations, Office of Civil Rights and Inclusion) reports to the Governance Committee of the Board of Trustees on allegations and concerns statistics, including volume of cases, substantiation rates and corrective actions. NYPA employees are required by law to report instances of fraud, waste and abuse to the NYS Inspector General's Office. NYPA's Office of Ethics and Compliance collaborates with the NYS Inspector General's Office and NYS Commission on Ethics and Lobbying in Government on investigations and information requests.
2-17	Collective knowledge of the highest governance body		NYPA's Board of Trustees are advised regularly on the organization's Sustainability progress, through presentations by staff on implementation of NYPA's strategic plan (VISION2030); progress reports on implementation of NYPA's 2023 expanded authority to, among other things, develop new renewable generation; review of annual integrated reports and other plans and reports on NYPA's Sustainability work; and proposed capital projects and budgets that are aligned with the Authority's mission, sustainable development, and New York state's sustainable energy policy including the CLCPA.
2-18	Evaluation of the performance of the highest governance body		On an annual basis, each board member completes a self-assessment survey on understanding of board roles and responsibilities, the Authority's mission and objectives, the Authority's performance, financials, and activities to ensure their ability to be informed decision-makers. These surveys help to improve the Board's ability to meet its obligations under Public Authorities law.

GRI #	GRI Disclosure	Report Section	Additional Information
Governance			
2-19	Remuneration policies		Senior executives and non-represented employees at NYPA are compensated under the same compensation philosophy and remuneration policies. Variable pay is not part of our compensation program. The philosophy is built on total remuneration including base salary and benefits. Fixed pay: We provide annual merit increases based on performance against pre-established goals and leadership competencies. Senior executives set goals in alignment with the company’s VISION2030. Each executive is assessed on their performance against those goals and competencies and the result of the assessment forms the foundation for a salary increase. Sign-on statement: Recruitment incentives for the purpose of attracting staff may be recommended for VP and above positions, however these incentives may also be offered for high skill, high demand positions primarily in STEM fields. Incentives may be offered up to 10% of the midpoint of the job grade and include a two-year full repayment agreement in the event of voluntary resignation or termination for cause. Separation from Service/Severance Policy: Severance pay shall be given to an eligible employee who is involuntarily terminated through no fault of their own as a result of a layoff; reduction-in-force; restructuring; or reorganization. Eligible employees are offered severance based on length of service ranging from 2 weeks to a maximum of 12 weeks. Retirement plan statement: NYPA participates in the NYS Retirement system with individuals selecting a defined benefit or defined contribution option based on employment and salary. Additionally, employees may elect to participate in NYPA’s defined contribution savings plan options which include a 401k plan providing a match for the first 6% of pre-tax contributions at a rate of \$0.50 per dollar. There is also a 457 plan. Those employees who meet eligibility criteria, including length of service, are eligible for NYPA Retiree benefits which provide retiree medical, part B reimbursement and life insurance plans.
2-20	Process to determine remuneration		The Power Authority of the State of New York (NYPA) By-laws empower the Trustees to establish policies regarding the payment of salary to management staff in accordance with NYPA program guidelines. The program structure is designed using several national annual salary surveys and a custom Total Remuneration (Total-R) study. These surveys are conducted by independent consulting firms and include government and public and private utilities and assess national and global best practice methodologies. Compensation packages within the markets assessed vary greatly based on organizational structure, position responsibilities and government sector limitations. NYPA’s target Total-R strategy uses a competitive approach to determine the current market value of our jobs. The program is designed to be objective and non-discriminatory. It is also flexible enough to ensure that the company is able to recruit and retain a highly qualified workforce. NYPA’s compensation philosophy guides decision-making for compensation program administration taking into consideration market competitiveness, internal equity, flexibility, and performance management. An individual’s placement within a salary grade depends upon an individual’s skill and experience
2-21	Annual total compensation ratio		A. Annualized base ratio 3.18, Annualized actual earnings 3.40 B. Ratio of the percent increase in base annual compensation for the organization’s highest-paid individual to the median percentage increase base annual compensation for all employees is 0 as the highest-paid individual did not receive an increase in 2023. Ratio of the percentage increase in annual actual compensation for the organization’s highest paid individual to the median percentage increase actual compensation for all employees is 1.12. C. Information based on all NYPA and Canals full time represented and non-represented individuals employed for the full year 2023. (PT employees make up <2% of the population; 2023 hires make up 9.5% of the population). Ratio for increase in annual actual compensation is based on same criteria for individuals employed the full year of both 2023 and 2022.

GRI #	GRI Disclosure	Report Section	Additional Information
Strategy, Policies and Practices			
2-22	Statement on sustainable development strategy	A Message from the President & CEO	
2-23	Policy commitments	Governance	Compliance-related activities are overseen by the EMC and the Board of Trustees’ Audit Committee, Governance Committee, and Finance & Risk Committee, reinforcing the commitments of NYPA and Canals’ leaders to institutionalize a culture of compliance across the organization. NYPA has a company Sustainability Policy as well as comprehensive company policies and procedures that address our material ESG issues. These include NYPA’s Code of Conduct, eGRC Governance, Health & Safety Program, Reasonable Accommodations, Anti-Retaliation, Workplace Violence, Equal Employment Opportunity, Anti-Harassment, Anti-Discrimination, Environmental, Internal Controls, FERC Standards of Conduct (SOC), Energy Market Manipulation, NERC Critical Infrastructure Protection (CIP), Risk & Resilience, Cyber Security, Guidelines for Procurement Contracts, Expenditure Authorization Procedure, Strategic Supply Management, Supplier Diversity, Environmental Health & Safety Compliance Audit Program, Internal Audit Charter, Physical Security Policy, Ethics and Compliance Program, Crisis Management, Reliability Standards Compliance, and Asset Management. Company policies are also supplemented by department level policies and procedures as well as NYPA’s Code of Conduct. Additional information on policy commitments relating to specific material ESG issues can be found in Our Governance and throughout the report.
2-24	Embedding policy commitments	Governance	To ensure compliance on an enterprise-wide level, the Office of Ethics and Compliance (OEC) maintains a Compliance Repository, an electronic inventory of mandatory external reporting and training requirements (statutory and regulatory) affecting NYPA, Canals and its employees. The Repository contains detailed information about reports required to be developed and submitted to external parties, as well as training required to be provided to employees. There are more than 300 profiles affecting NYPA and Canals. Designated Compliance Liaisons are required to review and update the Compliance Repository twice annually and confirm that the content is accurate, revise actual reporting dates, add new reporting or training requirements, or delete items which are no longer applicable. The OEC initiates annual individual reviews of the repository by Business Unit Heads, who certify that the information under their responsible areas is accurate. NYPA’s attorneys are requested to validate the requirements assigned to them and ensure these obligations remain applicable to NYPA and Canals. The OEC annually issues training content focused on the Compliance Repository with the goal of helping Compliance Liaisons reinforce and understand their roles related to maintaining and tracking reporting and training requirements in compliance with statutory and regulatory mandates. The Repository is a critical component of NYPA and Canals’ Corporate Compliance Program, which directly supports the missions of NYPA and Canals and VISION2030. NYPA also has an Employee Code of Conduct, which provides clear expectations for responsible and professional workplace conduct in alignment with the New York State Public Officers Law. NYPA has developed and delivered a number of programs aimed at increasing upstander behavior and familiarity with the Equal Employment Opportunity (EEO) process including an EEO Complaint Procedure and Know Your Rights FAQs (EEO and Reasonable Accommodations) and Training materials.

GRI #	GRI Disclosure	Report Section	Additional Information
Strategy, Policies and Practices			
2-25	Processes to remediate negative impacts		NYPA provides different channels to report grievances and has various processes and Key Performance Indicators in place to remediate negative impacts. For example, the Strategic Supply Management department has established a Supplier Relationship Management (SRM) Division geared to extract value, promote innovation, improve quality, and drive supplier performance. Other examples include NYPA’s public fast chargers (EVolve NY charging network) where NYPA vendors operate 24/7 call centers and NYPA staff monitor Plugshare scores and emails from end users. NYPA processes are also overseen by regulatory agencies, such as the North American Electric Reliability Corporation (NERC) and Northeast Power Coordinating Council (NPCC). NYPA’s Reliability Standards and Compliance (RSC) group interfaces with external and internal stakeholders to ensure robust regulatory posture. Internal controls such as Potential Non-Compliance hotline, Reliability Standards and Compliance assessments are utilized to identify, investigate and self-report NERC non-compliance issues to regulatory bodies. All complaints of protected class employment discrimination are investigated internally via the NYS Anti-Discrimination Investigations Division, and externally by Federal, State, and Local enforcement bodies (Equal Employee Opportunity Commission and NYS Human Rights Commissions).
2-26	Mechanisms for seeking advice and raising concerns		The Human Resources Department is available to all employees to provide advice or address concerns. All employees may report to the Office of Ethics and Compliance any issues relating to potential violations of the NYS Public Officers Law, failure to comply with policies, regulations and laws and misconduct. Bargaining unit employees can also report grievances pursuant to their collective bargaining agreements and may seek assistance from Labor Relations Managers. All employees may report discrimination via the Equal Employee Opportunity (EEO) Complaint process set forth in the EEO policy: internally via the NYS Anti-Discrimination Investigations Division, and externally to Federal, State and Local oversight bodies (Equal Employment Opportunity Commission and Human Rights Commission). NYPA also has an external Employee Concerns Line (877-TEL-NYPA) for employees to report allegations or concerns related to ethical issues, statutory and regulatory compliance and adherence to policies and procedures. All New York State employees have a statutory obligation to report suspected fraud, waste and abuse to the New York State Office of the Inspector General. NYPA’s Discrimination and Harassment Investigation Executive Review Committee prescribes administrative action where NYPA’s Office of Civil Rights and Inclusion (OCRI) investigation of allegations of Employment-Related Protected Class Discrimination results in (1) an unsubstantiated determination against the Respondent in the case; and (2) the identification of other conduct or policy violation results in the recommendation of further administrative action. There is also a cross-departmental Investigative Trends Committee (Employee Relations, Ethics and Compliance, Labor Relations, OCRI) which meets quarterly and provides updates to the Governance Committee of the Board of Trustees to review investigations, and related data and activities enterprise-wide.

GRI #	GRI Disclosure	Report Section	Additional Information
Strategy, Policies and Practices			
2-27	Compliance with laws and regulations	Driving a Compliance Culture	NYPA has internal controls to ensure compliance with laws and regulations including governance documents internalizing legal and regulatory requirements. NYPA received a financial penalty for non-compliance with environmental laws and/or regulations in 2023 (six-thousand-dollar penalty paid to New York State Department of Environmental Conservation for settlement of a notice of violation issued to NYPA in 2021). NYPA has an internal EH&S audit program where potential non-compliances and internal control improvements are identified and addressed via a corrective action program. For NERC Reliability Standards, as mandated by FERC, NYPA has established internal controls to ensure compliance with applicable Standard requirements. Through NYPA’s oversight and management of our Reliability Standards Compliance Program, NYPA identified and self-logged/self-reported to our regulator’s instances of non-compliance: 2021: 1, 2022: 7, 2023: 12. As part of the self-logging/self-reporting process, NYPA developed and implemented mitigation plans which were approved and accepted by our regulator. None of the instances of non-compliance from these reporting years incurred monetary fines.
2-28	Membership associations		NYPA is an active member of the American Public Power Association (APPA), the Electric Power Research Institute (EPRI), National Hydropower Association, Electric Utility Industry Sustainable Supply Chain Alliance, NYS Economic Development Council and the Large Public Power Council (LPPC). Other memberships and partnerships are referenced throughout the report where relevant.
Stakeholder Engagement			
2-29	Approach to stakeholder engagement	Stakeholders Partner with Customers and the State Supporting Our People & the Communities in Which We Operate	We view engaging our stakeholders as integral to the success of our operations. Through all our work—from planning and developing infrastructure projects, to customer service and community engagement—we involve key stakeholders to ensure their perspectives are heard, their expectations are understood and, where possible, their needs are met. We communicate through regular channels like traditional and social media, and personal contact through community programs, workshops, town hall meetings, surveys, policy dialogues, industry conferences and our own visitor centers. Representative stakeholders include the people of New York State, NYPA and Canals employees, community organizations, customers, suppliers, contractors and business partners, regulators and elected officials, industry organizations and peers, investors and strategic partners, rating agencies, and membership associations.
2-30	Collective bargaining agreements	Performance Data	
GRI 3: Material Topics 2021			
3-1	Process to determine material topics	Our 15 ESG Material Matters	
3-2	List of material topics	Our 15 ESG Material Matters	
3-3	Management of material topics	Our 15 ESG Material Matters	For additional information on management approach and strategies for material topics, see also: 2021-2025 Sustainability Plan

GRI #	GRI Disclosure	Report Section	Additional Information
GRI 201: Economic Performance 2016			
201-1	Direct Economic value generated and distributed		• Operating revenues: \$3.03 billion • Operation and maintenance expenses excluding employee wages and benefits: \$318 million • Employee wages and benefits: \$405 million • Payments to providers of capital, based on interest on all forms of debt and borrowings.: \$95 million • Economic value retained – please refer to financial statements for consolidated net income and earnings before interest, depreciation, and amortization (EBIDA): \$517 million
201-2	Financial implications and other risks and opportunities due to climate change	Preserve Hydropower	
GRI 203: Indirect Economic Impacts 2016			
203-1	Infrastructure investments and services supported		NYPA makes significant investments in the development of customer-sited solar and storage, implementation of energy efficiency projects at customer facilities, and installation of electric vehicle charging infrastructure at customer and public locations. These efforts positively impact our stakeholders, community and climate by reducing energy consumption, greenhouse gas emissions and other air emissions, creating green jobs, and supporting community development. NYPA’s Reimagine the Canals initiative is investing in the New York State Canal System and will yield positive impacts for communities and local economies by promoting outdoor recreation and fishing, encouraging canal side living, and expanding regional tourism. Many of our capital projects are still in design so it is too early to assess the community impact, but programs such as On the Canals, Public Fishing, and Ice Breaking have made very positive impacts on Canal communities. Our fishing program has had four successful seasons and will continue into 2024. Our fifth season of On the Canals excursions to promote recreation and tourism along the Canal will also continue in 2024. Reimagine the Canals projects are all public benefit projects for which we are receiving no revenue.
GRI 204: Procurement Practices 2016			
204-1	Proportion of spending on local suppliers	Supporting Local Suppliers and Building a Diverse and Resilient Supply Chain	Local is defined as New York State. Our significant locations of operation are all within New York State. Proportion of spending on local suppliers as percentage of total procurement budget: 53.05%

GRI #	GRI Disclosure	Report Section	Additional Information
GRI 302: Energy 2016			
302-1	Energy consumption within the organization		- Fuel consumption from non-renewable sources (fossil fuels, nuclear, etc.): 42,269 MMBTu - Fuel consumption from renewable sources: Not available; no renewable power agreements in 2023 - Annual electricity utilization for NYPA and NYSCC facilities (all building stock) excluding self-generated electricity: 7,118,231 kWh - Total energy consumption (including fossil fuel consumption plus electricity utilization, not including self-generated electricity): 421,952 MMBTU For all data, if metered data is not present, an industry accepted standard, Commercial Building Energy Consumption Survey (CBECS) is used.
302-3	Energy Intensity		Energy intensity ratio measured as total energy consumed MMBTU per total Net MWh generated: 0.016
302-4	Reduction of energy consumption	Decarbonizing NYPA's Buildings and Vehicle Fleet	NYPA tracks reductions in energy consumption achieved through energy efficiency initiatives as part of the BuildSmart 2025 program. Under this program, NYPA has an overall energy savings target of 0.12 TBTU from a FY14-15 baseline by 2025. Energy reductions are calculated at the project level, typically supported by an ASHRAE analysis. At of the end of 2023 NYPA has implemented projects (to at least “Substantial Progress” as defined by the BuildSmart 2025 Program Guidelines) to achieve a 0.0809 TBTU reduction towards the overall goal. NYPA has been finalizing a Clean Energy Master Plan in 2023. The living document recommends and tracks energy conservation measures across NYPA's and Canals’ building portfolio toward meeting the BuildSmart 2025 energy reduction goal.

GRI #	GRI Disclosure	Report Section	Additional Information
GRI 303: Water and Effluents 2018			
303-1	Interactions with water as a shared resource	Preserve Hydropower	With respect to the hydroelectric generating facilities, each power project utilizes a certain amount of water to generate power for users statewide. The project is required to meet state standards, regulated by the NYS Department of Environmental Conservation, through the issuance of a 401 Water Quality Certificate that verifies compliance with state water quality requirements. Water passes through the project via an intake structure, flows through the project and returns to the river once utilized to generate power. Additionally, our fossil fuel plants utilize water for cooling that is returned to the environment through evaporation in cooling towers. These systems also discharge back into the environment by blowdowns which are monitored and regulated by State Pollution Discharge Elimination System Permits (SPDES). In cases where these discharges are to Publicly Owned Treatment Works, those blowdowns are monitored and regulated by NYCDEP Commissioners orders. Water withdrawal and consumption is reported annually in accordance with New York State water withdrawal regulations. Annual reviews are conducted of SPDES permit-required Best Management Plans (BMPs). These BMP Plans must be updated to address any permit exceedances or upsets. Discharge Monitoring Reports (DMRs) are filed monthly for locations with SPDES permits. These reports include pollutant concentrations, mass loading and flows for each regulated outfall as needed and specified. An internal environmental performance report is issued monthly by the EH&S department. Goals have been established for environmental incidents for all regions and activities. An environmental performance report is issued monthly. This report includes water related metrics for water quality as it pertains to permit parameters. The target for each region and activity is reviewed and approved on an annual basis. NYPA funds research through its participation in Electric Power Research Institute (EPRI) programs. The review of the participation in programs and approval of supplemental studies is conducted by the NYPA EPRI steering committee, composed of senior leadership which includes the head of research department. Members of NYPA staff advise EPRI on water-related topics of concern for further research. NYPA recently approved an EPRI supplemental project on an emerging water contaminate perfluorooctane sulfonate (PFOS). This study will evaluate fate and transport, sampling and monitoring methods. In 2023, NYPA completed an EPRI supplemental project that included evaluating the potential for NYPA landholdings to support the implementation of nature-based solutions to address stormwater and flooding risk broadly and in native indigenous communities. NYPA also acknowledges that water poses a risk to our operations, especially in the context of climate change. Our power generation is reliant on the flow of water. Although river flows in our watershed, are generally expected to increase over time, we are undertaking adaptation studies and planning for various scenarios in addition to our modernization and standard schedules.
303-3	Water withdrawal	Performance Data	
303-5	Water consumption	Performance Data	

GRI #	GRI Disclosure	Report Section	Additional Information
GRI 304: Biodiversity 2016			
304-2	Significant impacts of activities, products and services on biodiversity	Integrating Sustainability	NYPA and Canals have historical and ongoing positive and negative impacts on biodiversity and NYPA continues to use best management practices to limit environmental impacts. Historical negative impacts from the original construction of hydroelectric dams, waterways, and transmission rights-of-way included terrestrial habitat fragmentation and new hydrologic connection of aquatic habitat. Through the relicensing agreements of our hydroelectric plants, there have been meaningful and ongoing positive impacts to key species and habitats. Many habitat improvement projects have been completed and are being monitored for overall biodiversity impact. Monitoring of some projects have shown demonstrable benefits to populations of key species at local, regional, and even international scales. On our transmission ROWs (rights-of-way), NYPA employs best practices to minimize the transport of invasive species during large-scale transmission projects and ROW maintenance activities. NYPA also manages the ROW vegetation using Integrated Vegetation Management. This vegetation management strategy promotes stable and diversified compatible plant communities. To evaluate the biodiversity benefit of NYPA's ROWs, NYPA conducts annual surveys of pollinator habitat quality, vegetation composition, invasive plant species occurrences, and milkweed populations occurrences on the ROWs. Results indicate the ROW plant communities provide high quality pollinator habitat of particular importance to the many agricultural lands that interface with the ROWs. To enable the successful establishment of pollinator habitat on NYPA lands, in 2023 we offered training to grounds staff on best practices for designing and maintaining native plant landscapes. In 2023, NYPA also established a new 14 acre pollinator meadow in Massena, NY and pocket pollinator meadows (1 acre) in Rochester, NY. NYPA and Canals also support biodiversity across the state through pollinator plantings and by distributing native trees. In 2023, we partnered with the Village of Brockport and the Utica Zoo to plant pollinator gardens in these communities. In our 2023 Tree Power program, which distributes native trees to program participants, we distributed over 1,200 native trees to municipalities and program participants across the state. NYPA also supports biodiversity by funding research and assessments aiming to quantify biodiversity value on NYPA and Canals. In 2023, we applied a monarch habitat model to inventory monarch habitat on NYPA and Canals land. The results are supporting nature-related risk and opportunity assessments on NYPA and Canals land.
304-3	Habitats protected or restored	Integrating Sustainability	NYPA and Canals own or manage over 100,000 acres of land and water across New York. NYPA partners with other state entities (e.g. NYS DEC and OPRHP) to manage much of this land for recreation and wildlife habitat. NYPA lands include nearly 3,500 acres with specific protections to maintain biodiversity. Additionally, over 2,600 acres of forest on NYPA lands are considered contiguous forest, where the size and natural condition of our lands allow for the sustainable maintenance of ecosystems and processes (defined and identified by The Nature Conservancy). NYPA and Canals lands include over 2,200 acres of significant ecological communities – communities that are rare or of particularly high-quality in New York State (defined and identified by the NY Natural Heritage Program). These contiguous forests and significant ecological communities are considered sources of biodiversity for the habitat across state. Through licensing requirements by the Federal Energy Regulatory Commission and settlement agreements supporting the operation of its hydroelectric facilities, NYPA has restored, enhanced, or maintained over 3,950 acres of wildlife habitat. This includes approximately 1,950 mitigation acres, 1,900 acres of required habitat improvement projects, and 35 acres of voluntary habitat improvement projects.

GRI #	GRI Disclosure	Report Section	Additional Information
GRI 305: Emissions 2016			
305-1	Direct (Scope 1) GHG emissions	Decarbonize Electricity Generation Performance Data	
305-2	Energy indirect (Scope 2) GHG emissions	Decarbonize Electricity Generation Performance Data	
305-3	Other indirect (Scope 3) GHG emissions	Decarbonize Electricity Generation Performance Data	
305-4	GHG emissions intensity	Decarbonize Electricity Generation Performance Data	
305-7	Nitrogen oxides (NOx), sulfur oxides (SOx), and other significant air emissions	Decarbonize Electricity Generation Performance Data	

GRI #	GRI Disclosure	Report Section	Additional Information
GRI 306: Waste 2020			
306-3	Waste generated	Performance Data Integrating Sustainability	
306-4	Waste diverted from disposal	Performance Data Integrating Sustainability	
306-5	Waste directed to disposal	Performance Data Integrating Sustainability	
GRI 308: Supplier Environmental Assessment 2016			
308-1	New suppliers that were screened using environmental criteria	Integrating Sustainability	
GRI 403: Occupational Health & Safety 2018			
403-6	Promotion of Worker Health	Supporting Our People & the Communities in Which We Operate	
403-9	Work-related injuries	Performance Data	

GRI #	GRI Disclosure	Report Section	Additional Information
GRI 404: Training and Education 2016			
404-1	Average hours of training per year per employee	Performance Data	
404-3	Percentage of employees receiving regular performance and career development reviews	Performance Data	
GRI 405: Diversity and Equal Opportunity 2016			
405-1	Diversity of governance bodies and employees	Performance Data	
GRI 408: Customer Privacy 2016			
418-1	Substantiated complaints concerning breaches of customer privacy and losses of customer data		NYPA has had no material cybersecurity incidents observed. NYPA continuously monitors the maturity and performance of the cyber security program with a range of assessments and metrics including an annual, external, independent assessment against the NIST CSF and the BitSight Cybersecurity score. In the most recent BitSight assessment, NYPA scored 760 out of 900, which is an advanced security rating indicating a strong security performance and lower security risk

SASB Content Index

Topic	Metric	Category	Response	Code
Electric Utilities & Power Generators				
Disclosures and Accounting Metrics				
Greenhouse Gas Emissions & Energy Resource Planning	(1) Gross global Scope 1 emissions, percentage covered under (2) emissions-limiting regulations, and (3) emissions-reporting regulations	Quantitative	(1) Performance Data (2) GWP-20: 97.8%; GWP-100: 97.5% (3) GWP-20: 99.2%; GWP-100: 99.4% New York participates in the Regional Greenhouse Gas Initiative (RGGI), the first mandatory market-based program in the United States to reduce greenhouse gas emissions. All NYPA’s Southeast New York generating facilities are subject to RGGI.	IF-EU-110a.1
	Greenhouse gas (GHG) emissions associated with power deliveries	Quantitative	GWP-20: 5,798,582 MT CO ₂ e GWP-100: 5,788,143 MT CO ₂ e This is the sum of emissions directly associated with NYPA-owned power generation, power contractually purchased from Astoria Energy II for customers, wholesale market purchases and transmission line losses. NYPA does not deliver this power to retail customers.	IF-EU-110a.2
	Discussion of long-term and short-term strategy or plan to manage Scope 1 emissions, emissions reduction targets, and an analysis of performance against those targets	Discussion and Analysis	Decarbonize Electricity Generation	IF-EU-110a.3
	(1) Number of customers served in markets subject to renewable portfolio standards (RPS) and (2) percentage fulfillment of RPS target by market	Quantitative	Not applicable. New York State does not have a Renewable Portfolio Standard. New York does have a Clean Energy Standard issued by the Public Service Commission, but NYPA is not subject to the jurisdiction of the Public Service Commission.	IF-EU-110a.4
Air Quality	Air emissions of the following pollutants: (1) NOx (excluding N ₂ O), (2) SOx, (3) particulate matter (PM ₁₀), (4) lead (Pb), and (5) mercury (Hg); percentage of each in or near areas of dense population	Quantitative	Performance Data (4) and (5) Not applicable. NYPA does not own or have specified coal generation contracts. Percentage of each applicable pollutant’s air emissions in or near areas of dense population: 100%	IF-EU-120a.1

Topic	Metric	Category	Response	Code
Disclosures and Accounting Metrics				
Water Management	1) Total water withdrawn, (2) total water consumed, percentage of each in regions with high or extremely high baseline water stress	Quantitative	Performance Data	IF-EU-140a.1
	Number of incidents of non-compliance associated with water quantity and/or quality permits, standards, and regulations	Quantitative	NYPA-In 2023, NYPA had 2 incidents of non-compliance that resulted in a formal enforcement action; a Stop Work Order and a Notice of Violation (NOV) related to stormwater, erosion controls and wetland impact by contractor during transmission line construction. 20 other water-related incidents were reported that did not result in formal enforcement action (14 self reported non-compliances for parameters monitored under facility SPDES permits, 2 oil releases to water, and 4 third-party contractor releases of oil to wetlands on right-of-way during transmission construction) . No Fines or penalties were issued. Remediation and corrective actions were implemented or completed in consultation with the appropriate agencies. Canals - In 2023 Canals reported 2 WQC exceedances at UDS 4-05	IF-EU-140a.2
	Description of water management risks and discussion of strategies and practices to mitigate those risks	Discussion and Analysis	Indicator GRI 303-1	IF-EU-140a.3
Coal Ash Management	Amount of coal combustion residuals (CCR) generated; percentage recycled	Quantitative	We do not own or have specified coal generation contracts.	IF-EU-150a.1
	Total number of coal combustion residual (CCR) impoundments, broken down by hazard potential classification and structural integrity assessment	Quantitative	We do not own or have specified coal generation contracts.	IF-EU-150a.2
Energy Affordability	Average retail electric rate for (1) residential, (2) commercial, and (3) industrial customers	Quantitative	Performance Data	IF-EU-240a.1
	Typical monthly electric bill for residential customers for (1) 500 kWh and (2) 1,000 kWh of electricity delivered per month	Quantitative	Not applicable, NYPA does not directly serve residential customers.	IF-EU-240a.2
	Number of residential customer electric disconnections for non-payment, percentage reconnected within 30 days	Quantitative	Not applicable, NYPA does not directly serve residential customers.	IF-EU-240a.3
	Discussion of impact of external factors on customer affordability of electricity, including the economic conditions of the service territory	Discussion and Analysis	Performance Data	IF-EU-240a.4

Topic	Metric	Category	Response	Code
Disclosures and Accounting Metrics				
Workforce Health & Safety	(1) Total recordable incident rate (TRIR), (2) fatality rate, and (3) near miss frequency rate (NMFR)	Quantitative	Performance Data	IF-EU-320a.1
End-Use Efficiency & Demand	Percentage of electric utility revenues from rate structures that (1) are decoupled and (2) contain a lost revenue adjustment mechanism (LRAM)	Quantitative	Not applicable, NYPA does not have a decoupled rate structure.	IF-EU-420a.1
	Percentage of electric load served by smart grid technology	Quantitative	As a generation and transmission company, NYPA installs smart grid technology to support integration of distributed generation and increase generation and transmission efficiency across the transmission system—not tied to specific loads.	IF-EU-420a.2
	Customer electricity savings from efficiency measures, by market	Quantitative	Customers saved a total of 40,360 MWh in electricity through energy efficiency measures in 2023.	IF-EU-420a.3
Nuclear Safety & Emergency Management	Total number of nuclear power units, broken down by U.S. Nuclear Regulatory Commission (NRC) Action Matrix Column	Quantitative	Not applicable. NYPA does not own or operate nuclear power generation.	IF-EU-540a.1
	Description of efforts to manage nuclear safety and emergency preparedness	Discussion and Analysis	Not applicable. NYPA does not own or operate nuclear power generation. NYPA does have an Emergency Management program for NYPA assets such as our hydroelectric facilities and dams.	IF-EU-540a.2
Grid Resiliency	Number of incidents of non-compliance with physical and/or cybersecurity standards or regulations	Quantitative	Due to FERC restrictions, this information cannot be released.	IF-EU-550a.1
	(1) System Average Interruption Duration Index (SAIDI), (2) System Average Interruption Frequency Index (SAIFI), and (3) Customer Average Interruption Duration Index (CAIDI), inclusive of major event days	Quantitative	Not applicable, NYPA does not provide.	IF-EU-550a.2

Activity Metric	Category	Response	Code
Activity Metrics			
Number of: (1) residential, (2) commercial, and (3) industrial customers served	Quantitative	1.NYPA does not directly serve residential customers. (2 & 3) NYPA has 1,136 customers, including governmental agencies, municipal/rural electric cooperatives, businesses, neighboring states and investor-owned utilities.	IF-EU-000.A
Total electricity delivered to: (1) residential, (2) commercial, (3) industrial, (4) all other retail customers, and (5) wholesale customers	Quantitative	Direct Sales to Commercial and Industrial Customers (includes sales to 817 companies and not-for-profit organizations): 8,787,000 MWh Sales to Municipal Electric Systems, Rural Electric Cooperatives, and Other Public Customers (Includes sales to 51 municipal electric utility systems, 4 rural electric cooperative systems, and more than 100 public agencies in NYS, 7 neighboring states, and 9 host communities): 15,664,000 MWh Sales to Utilities and the New York Independent System Operator (NYSISO) for Resale (includes sales to the five investor-owned utilities in NYS, the Long Island Power Authority, and the NYSISO. Portions were designated for resale to residential and farm customers or to business and not-for profit customers in the state.): 15,059,000 MWh Total electricity sold across above categories: 39,510,000 MWh	IF-EU-000.B
Length of transmission and distribution lines	Quantitative	Transmission lines: 1,550.5 circuit-miles Distribution lines: Not applicable. NYPA is a generation and transmission owner only.	IF-EU-000.C
Total electricity generated, percentage by major energy source, percentage in regulated markets	Quantitative	2023 Net Generation: 26,924,316 MWh Hydropower: 84% Fossil: 16% Excludes Astoria Energy II (affiliated facility), which generated 3903290.5 MWh. Includes Blenheim-Gilboa pumped storage facility (BG) at net generation. Gross generation for BG was 299,475 MWh NYPA operates in deregulated markets only.	IF-EU-000.D
Total wholesale electricity purchased	Quantitative	Total purchases, excluding electricity consumed at generating facilities: 8,471,000 MWh	IF-EU-000.E

07 FINANCIAL STATEMENTS



NEW YORK POWER AUTHORITY
(A Component Unit of the State of New York)

Financial Report
December 31, 2023

Table of **Contents**

Independent Auditors’ Report 2

Management Report (Unaudited) 5

Management’s Discussion and Analysis (Unaudited) 6

Consolidated Statement of Net Position 30

Consolidated Statement of Revenues, Expenses and
Changes in Net Position 32

Consolidated Statement of Cash Flows 33

Statement of Fiduciary Net Position (OPEB) 34

Statement of Changes in Fiduciary Net Position (OPEB) 35

Notes to the Consolidated Financial Statements 36

Required Supplementary Information (Unaudited) 97

 Schedule of Changes in the New York Power Authority’s
 Net OPEB Liability and Related Ratios 98

 Schedule of the New York Power Authority’s
 OPEB Contributions 99

 Schedule of Investment Returns for 100
 the New York Power Authority OPEB Trust

 Schedule of Changes in the Canal Corporation’s 101
 Net OPEB Liability and Related Ratios

 Schedules Relating to the Employees’ 102
 Retirement System Pension Plan

Independent Auditors’ Report on Internal Control Over 103
Financial Reporting and on Compliance and Other Matters
Based on an Audit of Financial Statements Performed in
Accordance With Government Auditing Standards

Independent Auditors’ Report



KPMG LLP
345 Park Avenue
New York, NY 10154-0102

Independent Auditors’ Report

Board of Trustees
Power Authority of the State of New York:

Report on the Audit of the Financial Statements

Opinion

We have audited the financial statements of the business-type activities and the fiduciary activities of the Power Authority of the State of New York (the Authority), a component unit of the State of New York, as of and for the year ended December 31, 2023, and the related notes to the financial statements, which collectively comprise the Authority’s basic financial statements for the year then ended as listed in the table of contents.

In our opinion, the accompanying financial statements referred to above present fairly, in all material respects, the financial position of the business-type activities and the fiduciary activities of the Authority, as of December 31, 2023, and the changes in financial position and, where applicable, cash flows for the year then ended in accordance with U.S. generally accepted accounting principles.

Basis for Opinion

We conducted our audits in accordance with auditing standards generally accepted in the United States of America (GAAS) and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Our responsibilities under those standards are further described in the Auditors’ Responsibilities for the Audit of the Financial Statements section of our report. We are required to be independent of the Authority and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audits. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

Responsibilities of Management for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with U.S. generally accepted accounting principles, and for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the Authority’s ability to continue as a going concern for twelve months beyond the financial statement date, including any currently known information that may raise substantial doubt shortly thereafter.

Auditors’ Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditors’ report that includes our opinion. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with GAAS and *Government Auditing Standards* will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from

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fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

In performing an audit in accordance with GAAS and *Government Auditing Standards*, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Authority's internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about the Authority's ability to continue as a going concern for a reasonable period of time.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings, and certain internal control related matters that we identified during the audit.

Required Supplementary Information

U.S. generally accepted accounting principles require that the management's discussion and analysis and required supplementary information listed in the table of contents be presented to supplement the basic financial statements. Such information is the responsibility of management and, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with GAAS, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audits of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued our report dated March 27, 2024 on our consideration of the Authority's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is solely to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the Authority's internal control over financial reporting or on compliance. That report is an integral part of an audit performed in



accordance with *Government Auditing Standards* in considering the Authority’s internal control over financial reporting and compliance.

KPMG LLP

New York, New York
March 28, 2024

March 28, 2024

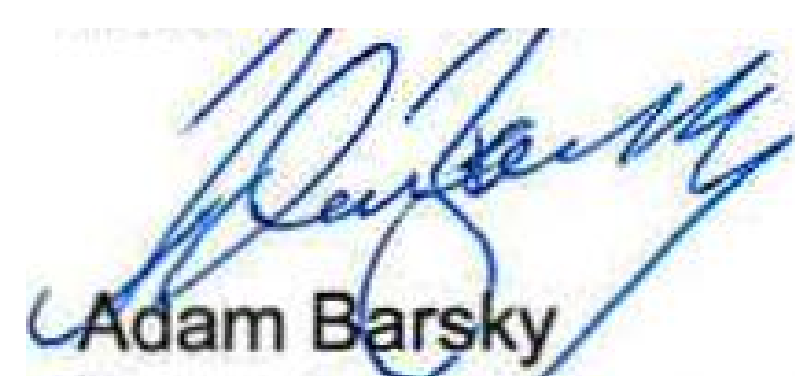
Management Report (Unaudited)

Management is responsible for the preparation, integrity, and objectivity of the consolidated financial statements of the Authority, as well as all other information contained in the Annual Report. The consolidated financial statements have been prepared in conformity with U.S. generally accepted accounting principles (“U.S. GAAP”) and, in some cases, reflect amounts based on the best estimates and judgments of management, giving due consideration to materiality. Financial information contained in the Annual Report is consistent with the financial statements.

The Authority maintains a system of internal controls to provide reasonable assurance that transactions are executed in accordance with management’s authorization, that financial statements are prepared in accordance with U.S. generally accepted accounting principles, and that the assets of the Authority are properly safeguarded. The system of internal controls is documented, evaluated, and tested on a continuing basis. No internal control system can provide absolute assurance that errors and irregularities will not occur due to the inherent limitations of the effectiveness of internal controls; however, management strives to maintain a balance, recognizing that the cost of such a system should not exceed the benefits derived.

The Authority maintains an internal auditing program to independently assess the effectiveness of internal controls and to report findings and recommend possible improvements to management. This program includes a comprehensive assessment of internal controls to ensure that the system is functioning as intended. Additionally, as part of its audit of the Authority’s consolidated financial statements, KPMG LLP, the Authority’s independent auditors, considers internal controls over financial reporting as a basis for designing audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Authority’s internal controls over financial reporting. Management has considered the recommendations of its internal auditors, the Office of the State Comptroller (“OSC”), and the independent auditors concerning the system of internal controls and has taken actions that it believed to be cost-effective in the circumstances to respond appropriately to these recommendations. Based on its structure and related processes, management believes that, as of December 31, 2023, the Authority’s system of internal controls provides reasonable assurance related to material items, as to the integrity and reliability of the financial statements, the protection of assets from unauthorized use or disposition and the prevention and detection of fraudulent financial reporting.

The members of the Authority’s Board of Trustees (the “Authority’s Trustees”) are appointed by the Governor, by and with the advice and consent of the Senate. The Authority’s Trustees’ Audit Committee meets with the Authority’s management, its Senior Vice President of Internal Audit, and its independent auditors periodically, throughout the year, to discuss internal controls and accounting matters, the Authority’s financial statements, the scope and results of the audit by the independent auditors and the periodic audits by the OSC, and the audit programs of the Authority’s internal auditing department. The independent auditors and the Senior Vice President of Internal Audit have direct access to the Audit Committee.



Adam Barsky

Executive Vice President and Chief Financial Officer

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Management's Discussion and Analysis

December 31, 2023

(Unaudited)

Management's Discussion and Analysis (Unaudited)

Overview of the Consolidated Financial Statements

The New York Power Authority (the "Power Authority") is considered a special-purpose government entity engaged in business-type activities. Effective January 1, 2017, the New York State Canal Corporation (the "Canal Corporation") became a subsidiary of the Power Authority, and the Power Authority assumed certain powers and duties relating to the Canal System to be exercised through the Canal Corporation. In May 2023, NYPA Captive Insurance Company (the "Captive") was established as a wholly-owned subsidiary of the Power Authority. The Power Authority and its subsidiaries (collectively the "Authority") follow financial reporting for enterprise funds. The consolidated financial statements of the Authority are prepared in accordance with U.S. generally accepted accounting principles ("U.S. GAAP") as prescribed by the Governmental Accounting Standards Board ("GASB"). Under the criteria outlined in GASB Statement No. 14, *The Financial Reporting Entity*, as amended by GASB Statement No. 39, *Determining Whether Certain Organizations Are Component Units*, and GASB Statement No. 61, *The Financial Reporting Entity: Omnibus--an amendment of GASB Statements No. 14 and No. 34*, the Authority considers its relationship to the State to be that of a related component unit. The Power Authority and its subsidiaries, the Canal Corporation and the Captive are referred to collectively as the "Authority" in the consolidated financial statements, except where noted.

This consolidated report consists of three parts: Management's discussion and analysis ("MD&A"), the consolidated financial statements, and the notes to the Consolidated Financial Statements. Following the consolidated report is the Authority's Required Supplementary Information.

Management's discussion and analysis provide an overview of the Authority's financial information for the year ended December 31, 2023, with comparative information as of and for the year ended December 31, 2022. The Authority adopted GASB Statement No. 96 ("GASB No. 96"), *Subscription-Based Information Technology Arrangements*, in 2023, effective January 1, 2023. The financial information presented in the MD&A as of and for the year ended December 31, 2022, has not been restated to reflect the adoption of GASB No. 96. If restated, the amount would have been immaterial.

The consolidated financial statements provide summary information about the Authority's overall financial condition. The notes provide an explanation and more details about the contents of the consolidated financial statements. The required supplementary information includes unaudited information required by GASB and relates to the Authority's OPEB and pension plans.

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Management’s Discussion and Analysis

December 31, 2023

(Unaudited)

Governance

The governing board of the Power Authority consists of seven Trustees (the “Board of Trustees”) appointed by the Governor of the State (the “Governor”), with the advice and consent of the State Senate. A Trustee whose term has expired continues to serve on a holdover basis until confirmed for an additional term or a new Trustee is appointed and confirmed. As stated in Section 2824 under Title 2 of Article 9 of the Public Authorities Law, Trustees shall perform their fiduciary duties, including but not limited to those imposed by such section, in good faith and with that degree of diligence, care and skill which an ordinarily prudent person in like position would use under similar circumstances, and may take into consideration the views and policies of any elected official or body, or other person and ultimately apply independent judgment in the best interest of the Authority, its mission and the public.

The members of the Power Authority Board of Trustees also serve as board members of the Canal Corporation and the Captive.

<u>Trustee Member</u>	<u>Term Expiration</u>
Chair, John Koelmel	5/6/21
Trustee, Michael J. Cusick	5/6/25
Trustee, Bethaida González	5/6/24
Trustee, Cecily L. Morris	6/22/27
Trustee, Dennis G. Trainor	5/6/22
Trustee, Lewis M. Warren, Jr.	5/6/28
Trustee, Laurie Wheelock	6/22/28

Forward-Looking Statements

The statements in this MD&A that are not purely historical facts are forward-looking statements based on current expectations of future events. Such forward-looking statements are necessarily based on various assumptions and estimates and are inherently subject to various risks and uncertainties, including, but not limited to, risks and uncertainties relating to the possible invalidity of the underlying assumptions and estimates and possible changes to or development in various important factors. Accordingly, actual results may vary from those we presently expect, and such variations may be material. We therefore caution against placing undue reliance on the forward-looking statements contained in this MD&A. All forward-looking statements included in this MD&A are made only as of the date of this MD&A and we assume no obligation to update any such forward-looking statements as a result of new information, future events, or other factors.

NEW YORK POWER AUTHORITY
(A Component Unit of the State of New York)

Management's Discussion and Analysis

December 31, 2023

(Unaudited)

Summary of Consolidated Revenues, Expenses and Changes in Net Position

The following is a summary of the Authority's consolidated financial information for 2023 and 2022:

	2023	2022	2023 vs. 2022	
	(\$ In Millions)	(\$ In Millions)	favorable (unfavorable)	(In Percentages)
Operating revenues	\$3,034	\$4,007	(\$973)	(24)
Operating expenses:				
Purchased power	605	839	234	28
Fuel oil and gas	176	470	294	63
Transportation and delivery	1,107	1,304	197	15
Operations and maintenance	723	756	33	4
Depreciation and amortization	307	411	104	25
Total operating expenses	2,918	3,780	862	23
Operating income	116	227	(111)	(49)
Nonoperating revenues, gains and (losses)	94	(11)	105	>100
Nonoperating expenses	80	86	6	7
Net income and change in net position	130	130	0	0
Net position - beginning	4,945	4,815		
Net position - ending	\$5,075	\$4,945	\$130	3

The Power Authority issued two series of bonds, as Separately Financed Projects ("SFP"), under its General Resolution Authorizing Transmission Project Revenue Obligations, adopted on December 7, 2021, as supplemented (the "Transmission Bond Resolution"). In April 2022, the Power Authority issued \$608 million of Green Transmission Project Revenue Bonds, Series 2022A (the "2022A Bonds") to fund the Smart Path and Central East Energy Connect ("CEEC") transmission construction projects. In November 2023, the Power Authority issued \$734 million of Green Transmission Project Revenue Bonds, Series 2023A to fund the Smart Path Connect ("SPC") Project (the "2023A Bonds", together with the "2022A Bonds", are referred to as "Transmission Resolution Revenue Bonds"). Proceeds of the bonds are being used to fund capital and other expenditures, including reimbursing expenses related to Transmission Resolution Revenue Bond project costs; and to pay financing and other costs relating to the issuance of the Transmission Resolution Revenue Bonds.

Transmission Resolution Revenue Bonds are secured and payable separate and apart from the Power Authority's General Bond Resolution (Refer to Note 5 of notes to the consolidated financial statements for more information on Bond Resolutions and Related Matters). The CEEC, Smart Path, and SPC Projects are collectively referred to as "Separately Financed Projects" or "SFP".

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Management's Discussion and Analysis

December 31, 2023

(Unaudited)

Consolidated Financial Statements, as presented above, represent the Authority's consolidated results. Financial information relating to the SFP and Captive has been disclosed separately in relevant notes to the Consolidated Financial Statements and such notes should be read together with other financial information disclosed in the notes. Refer to section SFP in MD&A and Notes 2, 3, and 17 in Notes to the Consolidated Financial Statements for detailed disclosures on SFP and Captive. For the year ended 2023, financial information relating to the SFP shows operating revenue of \$97 million and net income of \$53 million. For the year ended 2023, financial information relating to Captive shows operating revenue of \$2 million and net income of \$6 million.

The Authority had a net income and change in net position of \$130 million for the year ended December 31, 2023, compared to \$130 million net income in 2022, remaining unchanged year over year. Operating income decreased by \$111 million due to lower prices on market-based sales of energy and capacity. Operating expenses were \$862 million lower, primarily due to the \$528 million decrease in purchased power and fuel and oil and gas costs related to lower prices. The transportation and delivery expenses were \$197 million lower primarily due to lower prices. Depreciation and amortization expenses were \$104 million lower as the arrangement with Astoria Energy II ("AEII") no longer met the definition of a lease with the adoption of GASB Statement No. 87("GASB No. 87") in 2022.

Operating Revenues

Operating revenues of \$3,034 million in 2023 were \$973 million lower than the \$4,007 million in 2022, primarily due to lower market energy prices, and lower pass-through transmission revenues partially offset by higher hydro production.

Purchased Power and Fuel and Oil and Gas

Purchased power and fuel and oil and gas costs decreased by \$234 million and \$294 million, respectively in 2023. The decrease was primarily due to lower fuel costs resulting from lower gas prices partially offset by higher volumes.

Operations and Maintenance (O&M)

O&M expenses decreased by \$33 million primarily driven by higher OPEB expense credit.

Nonoperating Revenues, Gains and (Losses)

Nonoperating revenues increased by \$105 million primarily due to higher investment income and an increase in the market value of the investment portfolio.

Nonoperating Expenses

Nonoperating expenses decreased by \$6 million primarily due to the Astoria Energy II ("AEII") arrangement no longer meeting the definition of a lease with the adoption of GASB No. 87 in 2022.

NEW YORK POWER AUTHORITY
(A Component Unit of the State of New York)

Management's Discussion and Analysis

December 31, 2023

(Unaudited)

EBIDA

Reconciliation of Net Income to EBIDA

	<u>2023</u>	<u>2022</u>
	(\$ In Millions)	
Net Income	\$ 130	\$ 130
Add:		
Interest (w/o AEII)	80	57
Interest (AEII)	-	29
Depreciation and amortization (w/o AEII)	307	257
Depreciation and amortization (AEII)	-	154
EBIDA (w/AEII)	<u>\$ 517</u>	<u>\$ 627</u>
 EBIDA (w/o AEII)	 <u>\$ 517</u>	 <u>\$ 444</u>

See note below and Note 15 of the Notes to the Consolidated Financial Statements for further information on AEII

Note: AEII represents the arrangement with Astoria Energy II

EBIDA represents net income before interest expense, depreciation, and amortization and is a non-U.S. GAAP financial measure. EBIDA does not represent net income, as that term is defined under U.S. GAAP and should not be considered as an alternative to net income as an indicator of the Authority's operating performance or any other measure of performance derived in accordance with U.S. GAAP. EBIDA is not intended to be a measure of cash flows, as depicted on the statement of cash flows, available for management or discretionary use as such measures do not consider certain cash requirements such as capital expenditures and debt service requirements. EBIDA as presented herein is not necessarily comparable to similarly titled measures presented by the Authority.

In 2022, with the adoption of GASB No. 87, the arrangement with Astoria Energy II ("AEII") no longer met the definition of a lease under the accounting rule. Year over year EBIDA without AEII impact increased from \$444 million to \$517 million in 2023.

Net Generation

Net generation was 26.9 million megawatt-hours ("MWhs") in 2023 and 26.4 million MWhs in 2022. Net generation from the Niagara and St. Lawrence hydroelectric plants in 2023 (22.6 million MWhs) was 0.44% higher than in 2022 (22.5 million MWhs) due to the marginally increased hydro flows to the Niagara and St. Lawrence hydroelectric plants. Net hydro generation for 2023 and 2022 were both approximately 111% of the long-term average of 20.3 million MWhs. The combined net generation of the fossil fuel plants for 2023 was 4.3 million MWhs, or 10% higher than in 2022 (3.9 million MWhs).

NEW YORK POWER AUTHORITY
(A Component Unit of the State of New York)

Management's Discussion and Analysis

December 31, 2023

(Unaudited)

Summary of Consolidated Statements of Net Position

The following is a summary of the Authority's consolidated statements of net position for 2023 and 2022:

	<u>2023</u>	<u>2022</u>	<u>2023 vs. 2022</u>	
	(\$ In Millions)		(\$ In Millions) (In Percentages)	
Current assets	\$2,126	\$1,963	\$163	8
Capital assets	6,908	6,413	495	8
Other noncurrent assets	1,319	1,222	97	8
Deferred outflows of resources	<u>327</u>	<u>477</u>	(150)	(31)
 Total assets and deferred outflows	 <u>\$10,680</u>	 <u>10,075</u>	 605	 6
 Current liabilities	 1,105	 1,091	 14	 1
Noncurrent liabilities	<u>3,770</u>	<u>2,975</u>	795	27
 Total liabilities	 <u>4,875</u>	 <u>4,066</u>	 809	 20
 Deferred inflows of resources	 730	 1,064	 (334)	 (31)
 Net investment in capital assets	 3,361	 3,573	 (212)	 (6)
Unrestricted	<u>1,714</u>	<u>1,372</u>	342	25
Net position	<u>5,075</u>	<u>4,945</u>		
 Total liabilities, deferred inflows and net position	 <u>\$10,680</u>	 <u>\$10,075</u>	 \$605	 6

The following summarizes the Authority's consolidated statements of net position variances for the year 2023:

In 2023, current assets increased by \$163 million to \$2,126 million due to an increase in cash and cash equivalents and investment in securities related to the 2023A Bonds issuance. Capital assets increased by \$495 million to \$6,908 million, compared to last year, due to increased spending on transmission capital projects. Other noncurrent assets increased by \$97 million, compared to last year, primarily due to unspent capital funds related to the 2023A Bonds issuance. Deferred outflows decreased by \$150 million primarily due to changes in the deferral of other post-employment benefits other than pension ("OPEB"), as well as the decrease in the outflow of accumulated hedging derivatives. Current liabilities increased by \$14 million primarily due to the increase of long-term debt due within one year, partially offset by lower accruals for economic development programs. Other noncurrent liabilities increased by \$795 million primarily due to the increase in long-term debt of \$751 million due to the issuance of 2023A Bonds (The Power Authority issued \$734 million of 2023A bonds at a premium). Deferred inflows of resources decreased by \$334 million primarily due to \$224 million and \$70 million of pension and OPEB valuation, respectively, and the balance due to a decrease in deferred transmission congestion contract ("TCC") auction revenues, \$64 million, partially offset by an increase in the cost of removal obligations, \$34 million.

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Management’s Discussion and Analysis

December 31, 2023

(Unaudited)

Capital Assets

The Authority estimates that it will expend approximately \$4.4 billion (\$3.1 billion for various capital improvements, which includes Canal capital projects of approximately \$577 million, and \$1.3 billion for Energy Services projects) over the four-year period of 2024-2027. The Authority anticipates that these expenditures will be funded using existing construction funds, internally generated funds, separately financed project bond issuances, and additional borrowings. Such additional borrowings are expected to be accomplished through the issuance of commercial paper notes and/or the issuance of long-term debt.

The Authority’s capital plan includes \$1.3 billion, in financing for Energy Services projects to be undertaken by the Authority’s governmental customers and other public entities in the State which amount will be reimbursed subsequently back to the Authority. It should also be noted that due to projects currently under review as well as energy initiatives announced in the Governor’s State of the State address, there is a potential for significant deviations in the capital expenditures indicated in the table below. Any such additional capital expenditures would be subject to evaluation and approval of the Authority’s Trustees.

Projected capital requirements during this period (2024-2027) include (in millions):

Canal Capital *	\$577
Smart Path Connect **	344
Workplace of the Future	305
Next Generation Niagara	304
Propel NY Energy	217
IT (Application, Core, Cyber, and Data) Programs	161
Transmission Life Extension & Modernization (T-LEM)	151
Transmission Business Development	134
Strategic EV Charging Station Installations	77
Enterprise Resource Planning (ERP)	56
Niagara & St. Lawrence Crane Replacement Program	48
All Others	746
	<u>\$3,120</u>

* Some of this contains amount contingent upon receiving outside grants/funding.

** Separately Financed Projects - Refer to section on SFP under MD&A and Note 3 in Notes to Consolidated Financial Statements.

See Note 19 in Notes to Consolidated Financial Statements, Other Developments, for details on certain projects listed above.

NEW YORK POWER AUTHORITY
(A Component Unit of the State of New York)

Management's Discussion and Analysis

December 31, 2023

(Unaudited)

More detailed information about the Authority's capital assets is presented in Note 4(d) "Summary of Significant Accounting Policies – Capital Assets", Note 7 "Capital Assets" and Note 19 "Other Developments" of the Notes to the Consolidated Financial Statements.

Long-Term Debt Activity

	<u>2023</u>	<u>2022</u>	<u>2023 vs. 2022</u>	
	(\$ In Millions)		(\$ In Millions) (In Percentages)	
Long-term debt, net of current maturities				
Senior:				
Revenue bonds	\$ 1,519	\$ 1,624	(\$105)	(6)
Subordinated:				
Subordinated Notes, Series 2017 and 2012 (1)	35	36	(1)	(3)
Separate Revenue Bond Obligation:				
Transmission Resolution Revenue Bonds (2)	<u>1,391</u>	<u>659</u>	732	>100
Total long-term debt, net of current maturities	2,945	2,319	626	27
Net Position	<u>5,075</u>	<u>4,945</u>	130	3
Total capitalization	<u>\$ 8,020</u>	<u>\$ 7,264</u>	756	10

(1) The Subordinated Notes, Series 2017 and 2012, are subordinate to the Series 2003A Revenue Bonds, the Series 2007B Revenue Bonds, the Series 2020A Revenue Bonds, and 2020B Revenue Bonds.

(2) The Transmission Resolution Revenue Bonds are limited obligations of the Power Authority payable solely from and secured by the trust estate pledged under the Transmission Bond Resolution. See Note 3 of the Notes to the Consolidated Financial Statements.

To maintain the weighted average cost of capital formula rate, as approved by the Federal Energy Regulatory Commission ("FERC") in a 2016 rate filing, long-term debt cannot exceed equity. Long-term debt to equity (long-term debt/net position) ratio was at 0.58-to-1 as of December 31, 2023 (Long-term debt \$2.94 billion and equity \$5.07 billion) vs. 0.47-to-1 as of December 31, 2022 (Long-term debt of \$2.32 billion and equity of \$4.94 billion).

Under the General Bond Resolution, long-term debt to equity (long-term debt/net position) ratio as of December 31, 2023, and 2022, was at 0.32-to-1 (Long-term debt \$1.55 billion and equity \$4.86 billion) and 0.34-to-1 (Long-term debt \$1.66 billion and equity \$4.86 billion), respectively. \$227 million, consisting of the Series 1, and Series 2 CP Notes is excluded from the long-term debt-to-equity ratio, as it is used by the Authority to finance the Authority's current and future energy efficiency programs on behalf of its customers.

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Management’s Discussion and Analysis

December 31, 2023

(Unaudited)

	Moody’s	Standard & Poor’s	Fitch	KBRA
NYPA's underlying credit ratings:				
Senior debt:				
Long-term debt (a)	Aa2	AA	AA	AA
Separate Revenue Bond Obligation				
Transmission Resolution Revenue Bonds	A1	See note (b) below	AA-	AA-
Subordinate debt:				
Subordinate Notes, Series 2017	N/A	AA-	N/A	N/A
Subordinate Notes, Series 2012	N/A	N/A	AA	N/A
Commercial paper	P-1	A-1+	F1+	N/A

- (a) Long-term debt includes certain bonds – Series 2007B Revenue Bonds and Series 2003A Revenue Bonds – the principal and interest when due are guaranteed under insurance policies issued by MBIA Insurance Corporation and Assured Guaranty Municipal Corporation, respectively.
- (b) Standard & Poor’s Ratings Service assigned an insured rating of AA for the Series 2022A and 2023A bonds based on the policy provided by Assured Guaranty Municipal Corporation.

In 2023, Standard & Poor’s Ratings Service (“S&P”) affirmed the Power Authority’s Commercial Paper rating, Senior debt rating, and Subordinated Notes rating (Series 2017) with a stable outlook. In addition, S&P assigned an insured rating of AA to the Power Authority’s Transmission Resolution Revenue Bonds based on the policy provided by Assured Guaranty Municipal Corporation (“AGM”). In 2023, Moody’s Investors Service (“Moody’s”) affirmed the Power Authority’s Commercial Paper rating and Senior debt rating and revised the outlook to positive from stable. Moody’s also upgraded the Transmission Resolution Revenue Bonds to A1 from A2 and changed the outlook to positive from stable. In 2023, Fitch Ratings (“Fitch”) affirmed the Power Authority’s Commercial Paper rating, Senior debt rating, and Subordinated Notes (Series 2012) with a stable outlook. Fitch also assigned an AA- rating with a stable outlook to the Transmission Resolution Revenue Bonds. In 2023, the Power Authority added the Kroll Bond Rating Agency (“KBRA”) to the list of credit ratings. KBRA assigned an ‘AA’ rating to the General Bond Resolution long-term bonds with a stable outlook. KBRA also assigned an AA- rating with a stable outlook to the Transmission Resolution Revenue Bonds.

Authority’s General Resolution Fund Requirements

The Operating Fund, included within the Cash and Cash Equivalents and Investments on the Authority’s Statement of Net Position, was created by the General Bond Resolution. A number of internal reserves have been established within the Operating Fund, as follows:

The Operating Reserve, established at \$175 million by the Authority’s Trustees, includes a reserve for working capital and emergency repairs to the Authority’s projects. At December 31, 2023, Operating Reserve had a balance of \$510 million.

The Debt Service Reserve is funded at maximum annual debt service (principal and interest payments) to ensure that sufficient amounts are available to pay debt service obligations when due. At December 31, 2023, the Debt Service Reserve balance was \$90 million.

The Energy Hedging Reserve was established to have funds available for use as collateral that may be required to support the Authority’s authorized fuel and energy hedging transactions. At December 31, 2023, the Energy Hedging Reserve balance was \$90 million.

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Management's Discussion and Analysis

December 31, 2023

(Unaudited)

The Spent Fuel Reserve was created to maintain funds to match the Department of Energy's obligation to pay for the processing and final disposition of spent nuclear fuel burned by the Authority when it owned the Indian Point #3 and James A. FitzPatrick nuclear plants. At December 31, 2023, the Spent Fuel Reserve balance was \$245 million.

The Capital Project Reserve is utilized to partially fund major new investments by the Authority in its energy infrastructure. The Authority funds major investments with a portion of debt and a portion of equity. This Reserve has been established to provide the equity portion. At December 31, 2023, the Capital Project Reserve balance was \$222 million.

In addition, the Authority holds committed funds in separate portfolios that have been earmarked for economic development and relicensing programs ("Committed Funds", see Note 18). At December 31, 2023, the Authority held \$66 million in Committed Funds in the Operating Fund.

Separately Financed Projects ("SFP")

a) Overview

As referred to in the "Summary of Consolidated Revenues, Expenses and Changes in Net Position" section in the MD&A and further in the Notes to the Consolidated Financial Statements (See Note 3), the proceeds, \$608 million and \$ 734 million from the issuance of the Transmission Resolution Revenue Bonds are being used to fund capital and other expenditures of SFP, including reimbursing expenses related to Transmission Resolution Revenue Bond project costs; and to pay financing and other costs relating to the issuance of the Transmission Resolution Revenue Bonds.

The Power Authority contributed \$74 million and \$75 million in equity to fund the balance of costs not covered by the 2022A and 2023A Bonds, respectively.

b) Smart Path

The Power Authority has completed all major construction of the Moses Adirondack line ("Smart Path") project, one of the Power Authority's backbone transmission facilities. The project covers 78 miles of 230 kV transmission line from Massena to the town of Croghan in Lewis County. In July 2017, the Power Authority received authorization under the New York Independent System Operator ("NYISO") tariff to include the costs of this project in its NYPA Transmission Adjustment Charge ("NTAC") mechanism for cost recovery of the Authority's transmission system costs, which means that the costs will be allocated to all ratepayers in the State. The project includes the update of obsolete wood pole structures with higher, steel pole structures, as well as the update of failing conductor with new conductor and insulation. The line will operate at its current 230 kV level, but the conductor and insulation design will accommodate future 345 kV operation when Smart Path Connect is complete. The Power Authority anticipates that the Moses Adirondack line will support the transmission of growing levels of renewable generation located in upstate New York and Canada, such as wind and hydroelectricity, and assist in meeting the State's renewable energy goals. The rebuilt line, in line with NYISO's initiative, will enhance grid reliability.

As of December 31, 2023, the Power Authority had a capital spend of \$453 million (excluding capitalized interest) for the Smart Path project, and the remaining amount to close out the project which is not expected to exceed \$484 million will be accounted for as incurred. Construction commenced in 2020 and as of December 31, 2023, all 6 segments for Smart Path have been placed into Electric Plant In

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Management's Discussion and Analysis

December 31, 2023

(Unaudited)

Service ("EPIS") and are part of the Authority's Annual Transmission Revenue Requirement ("ATRR"). Project closeout and site restoration are ongoing with expected completion in 2024.

The Smart Path project was funded with proceeds from the 2022A Bonds as mentioned above. See Note 3 on Separately Financed Projects for further information.

c) Central East Energy Connect ("CEEC") (Marcy to New Scotland Upgrade Project)

The Power Authority executed a Memorandum of Understanding ("MOU") with North America Transmission ("NAT"). The MOU provided that, if any of the Power Authority/NAT proposals are accepted, the Power Authority, at its sole discretion, may elect to purchase an ownership share in the project(s) or operate and maintain the project(s). In December 2016, the Authority's Trustees approved funding in the amount of approximately \$1 million for the Power Authority's share of expenses pursuant to the MOU.

In June 2018, the Power Authority and NAT entered into a Participation Agreement that supersedes the MOU, which granted the Power Authority the option to secure an ownership interest of up to 37.5% in the jointly proposed projects. In April 2019, the NYISO board selected the project proposed by LS Power Grid New York, LLC (formerly known as NAT) and the Power Authority for Segment A (also known as the Marcy to New Scotland Upgrade Project) to increase transfer capability from central to eastern New York. In July 2020, the Authority's Trustees approved the Power Authority's request to exercise its 37.5% purchase option. LS Power Grid New York, LLC transferred its project assets and assigned the participation agreement to LS Power Grid New York Corporation I ("LS Corp.") on January 27, 2020. A development agreement relating to Segment A among the NYISO, LS Corp., and the Power Authority was executed on February 3, 2020, filed with FERC on March 4, 2020, and accepted for filing by the Federal Energy Regulatory Commission ("FERC") on April 16, 2020.

The NYISO estimated the total cost of the Segment A project to be about \$750 million. In August 2019, LS Power and the Power Authority submitted an Article VII application to the New York State Public Service Commission ("NYSPSC"), and the Power Authority filed a petition for incentive rate treatment with FERC pursuant to Section 219 of the Federal Power Act. The petition was approved effective November 21, 2019. This included a 50 basis-point return on equity ("ROE") risk adder (permitting a 9.45% ROE for the project) conditioned upon the FERC's acceptance of a future Authority filing to incorporate the ROE risk adder and a cost containment provision into its transmission formula rate. Upon FERC's acceptance of LS Power's cost containment mechanism in June 2021, the Authority sought to incorporate into its formula rate (a) substantially the same cost containment mechanism and (b) the ROE risk adder, both of which FERC granted in September 2021, thus authorizing the full recovery of the Power Authority's Segment A project costs inclusive of the requested transmission incentives.

The Commission approved the Article VII Certificate and the first Environmental Management and Construction Plan ("EM&CP") on January 21, 2021. The fourth and final EM&CP was filed and approved by the Department of Public Service ("DPS") in May 2022. The upgraded transmission lines and new substations, as part of the Segment A project, were energized as part of the New York electrical system in December of 2023.

As of December 31, 2023, the Power Authority had a capital spend of \$224 million for CEEC. The CEEC project was funded with proceeds from the 2022A Bonds as mentioned above. As of December 31,

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Management's Discussion and Analysis

December 31, 2023

(Unaudited)

2023, the project is 100% complete and placed in service. See Note 3 on Separately Financed Projects for further information.

d) Smart Path Connect

In meeting the advancement of the State's energy goals and supporting the Authority's VISION2030 goals, in 2020, the NYSPSC approved the Smart Path Connect Project ("SPC Project") as a Priority Transmission Project with an in-service date of December 2025. The SPC Project is being developed in cooperation with National Grid. The SPC Project consists of rebuilding approximately 100 linear miles of existing 230 kV transmission lines in northern and central New York to 345 kV, along with associated substation construction and upgrades, to address existing congestion and curtailment issues by establishing, together with other projects currently under development by the Power Authority, a continuous 345 kV transmission path from areas of planned renewable generation to New York's load centers. The SPC Project includes rebuilding all or parts of the following transmission lines: the remaining 8-mile section of the Authority's Moses-Adirondack 1&2, the Authority's Moses-Willis 1&2, the Authority's Willis-Patnode and the Authority's Willis-Ryan; and National Grid's Adirondack to Porter (Chases Lake-Porter Line 11, Adirondack-Porter Line 12, and Adirondack-Chases Lake Line 13), as well as connecting to the Authority's Moses-Adirondack 1&2 transmission facilities. The SPC Project will be built primarily within existing rights-of-way. The goal of the SPC Project is to allow for renewable generation from northern New York regions to be transmitted downstate, improving the NYS renewable energy consumption, as well as the efficiency of energy pricing throughout the state. Construction is underway along the right of way and within substations. 38 miles of transmission line upgrades have been completed as of December 2023.

As of December 31, 2023, the Power Authority had a capital spend of \$462 million (excluding capitalized interest) for the SPC Project. The Power Authority estimates it will expend \$344 million on the SPC Project over the four-year period 2024-2027. In 2023, the Power Authority issued \$734 million of 2023A bonds (net proceeds totaling \$751 million, which includes \$17 million of premium) to support the SPC Project. The Power Authority doesn't expect to exceed \$830 million which was approved by the Authority's Trustees as of December 31, 2023.

e) Revenue Recovery

The Authority's total cost of providing electric transmission services throughout New York State is expressed in its ATRR. The ATRR is determined by a FERC-regulated formula that calculates the total annual revenue that the Authority may earn for providing transmission service on its system, which is included in the NYISO tariff. The Authority's regulated transmission formula rate year spans from July 1st – June 30th and utilizes prior calendar year actual costs to set its upcoming rate year ATRR.

The Authority recovers its full transmission system costs under its formula rate, but for internal purposes, the Authority recognizes that certain projects are separately financed, i.e. the SFP and the revenue requirements for those projects can be tracked under the formula rate. To determine the revenues pledged to SFP, the Authority annually separates and reports the transmission revenue requirement for each project housed within the SFP (Smart Path, Smart Path Connect, and CEEC). The annual revenue requirements for the SFP projects follow the existing FERC-approved formula Rate, which allocates the appropriate share of depreciation and amortization expense, return on rate base, and Operating Expenses (Transmission Operation & Maintenance, Allocated Administrative & General, and Allocated General Plant Depreciation & Amortization) to the SFP.

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Management's Discussion and Analysis

December 31, 2023

(Unaudited)

The financial statements and notes to accounts as reported under Notes to Consolidated Financial Statements (See Note 2 and Note 3) provide the financial information relating to the SFP.

Clean Energy Solutions

The Authority offers energy efficiency services to New York State public and other statutorily eligible entities to reduce energy consumption and cut energy costs. The Authority has been implementing energy efficiency projects since the early 1990s and has invested over \$3.9 billion in energy efficiency projects, yielding over 1,800 GWH estimated annual savings statewide. The Authority offers comprehensive energy efficiency services tailored to each participant's needs. Services include but are not limited to energy audits, advisory services, metering, data analytics, lifecycle cost analysis, engineering/design services, procurement, project management, construction management, and project close-out. The Authority manages all aspects of the project for the customer so the customer can focus their attention on their core responsibilities while major projects are being implemented. The Authority recovers all costs incurred on such projects with no material impact on its financial results.

On an annual basis, the Authority implements an average of \$250 million in energy efficiency and clean energy technology projects. As of December 31, 2023, the outstanding balance for energy efficiency and clean energy technologies projects in the Authority's balance sheet was a total of \$476 million, with \$247 million of the loan balance and \$229 million of energy efficiency program cost that will be billed to the customers.

Economic Conditions

In December 2020, the Authority's Trustees approved its new strategic plan, VISION2030. VISION2030 provides a roadmap for transforming the state's energy infrastructure to a clean, reliable, resilient, and affordable system over the next decade. VISION2030 focuses on five strategic priorities to achieve the clean energy goals of the Authority's customers and the state. They include the Authority's intention to preserve the value of hydroelectric generation; facilitate the rapid development of transmission assets; pioneer the path to decarbonization while ensuring reliability, resilience, and affordability of the state's electric grid; partner with customers to deliver clean and affordable energy solutions and adaptively reimagine the New York State canal system. Five foundational pillars: digitalization, best-in-class environmental, social, and governance ("ESG") performance and reporting; leadership in diversity, equity, and inclusion ("DEI") priorities; enterprise resilience; and resource alignment (i.e., process excellence, workforce planning, and knowledge management initiatives) support VISION2030. The costs and revenues with respect to the plan are reflected in the Authority's 2024-2027 financial plan.

The Authority believes, based on evaluations it has performed, that the impact, if any of the current economic conditions related to inflation, supply chain constraints, and geopolitical conflicts are not expected to be material to the Authority's future financial condition or operations.

Climate Leadership and Community Protection Act

New York State's climate plan is one of the most ambitious climate and clean energy initiatives in the nation, calling for an orderly and just transition to clean energy that creates jobs and continues fostering a green economy in New York State. Enshrined into law through the Climate Leadership and Community Protection Act ("CLCPA"), New York is on a path to achieving its mandated goal of a zero-emission electricity sector by 2040, including 70 percent renewable energy generation by 2030, and to reach economy-wide carbon neutrality. CLCPA's targets for decarbonizing power generation include bringing 45 GW (26 GW of land-based renewables, 9 GW of offshore wind, and 10 GW of distributed

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Management's Discussion and Analysis

December 31, 2023

(Unaudited)

solar) of renewables to market by 2035; accelerating transmission network investment to integrate renewables and alleviate load pockets; and ensuring grid reliability and flexibility through an integrated set of solutions including 3 GW of energy storage (subsequently increased to 6 GW through Gubernatorial action), dispatchable clean generation, and demand-side solutions. Targets for decarbonizing beyond the power sector include the reduction of statewide energy use by 185 trillion British thermal units ("Tbtu"); electrification of transportation; and coordinated electrification of building heating and industrial processes. Fundamental to the CLCPA and Authority's participation in achieving its goals is ensuring an equitable transition to thriving clean energy.

Accelerated Renewable Energy Growth and Community Benefit Act

The Accelerated Renewable Energy Growth and Community Benefit Act (the "Renewable Energy Act") was enacted as part of the 2020-21 Enacted State Budget. The purpose of the enactment is to promote planning and prioritize the development of new and upgraded distribution and transmission infrastructure in the state, accelerate the siting of renewable energy projects, and provide benefits to local communities where renewable generation will be sited. In summary, the Renewable Energy Act:

- Establishes a new Office of Renewable Energy Siting, through which the State will consolidate the environmental review of major renewable energy facilities.
- Provides accelerated timetables for review of applications for major utility transmission facilities.
- Authorizes New York State Energy Research and Development Authority ("NYSERDA") to undertake several "host community benefit" programs to provide benefits to residents of local communities where new renewable general projects are slated for development.
- Directs the DPS, in consultation with NYSERDA, the Authority, the Long Island Power Authority, the NYISO, and the state's regulated utilities, to undertake a comprehensive study of the power delivery system in the state, for the purpose of identifying investor-owned utility distribution and local transmission upgrades, and bulk transmission system investments necessary to help the State meet the environmental goals of the CLCPA.
- Requires the NYSPSC to identify bulk transmission projects that need to be developed expeditiously to meet CLCPA goals ("Priority Transmission Project(s)" or "PTP(s)").
- Declares that it is appropriate for the Authority, by itself or in collaboration with other parties to develop those bulk transmission investments designated as PTPs that are needed expeditiously to achieve CLCPA targets.
- Authorizes the Authority, through a public process, to solicit interest from potential co-participants in each PTP it has agreed to develop and assess whether any joint development would provide for significant additional benefits in achieving the CLCPA targets, and thereafter determine to undertake the development of the PTP on its own, or undertake the PTP jointly with one or more other parties and enter into such agreements and take such other actions the Authority determines to be necessary in order to develop the PTP. For PTPs substantially within the Authority's existing rights of way, the Renewable Energy Act authorizes the Authority to select private sector participants through a competitive bidding process.

On October 15, 2020, the New York Public Service Commission, acting through its authority under the Renewable Energy Act, designated the Smart Path Connect Project ("SPC") (discussed in the SFP section above) as a priority transmission project that should move forward expeditiously under the Renewable Energy Act. The SPC project will complete the transmission upgrades in the Moses–Marcy corridor and enable greater integration of renewable energy in the New York Grid. On November 16, 2023, the Power Authority issued \$734 million of the 2023A Bonds at a premium. Proceeds of the 2023A

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Management's Discussion and Analysis

December 31, 2023

(Unaudited)

Bonds, together with other funds being provided by the Power Authority, will be used to (i) pay for capital expenditures related to the SPC Project, including reimbursement for prior capital spending, (ii) fund a debt service reserve fund, (iii) pay capitalized interest, (iv) fund an operating reserve account and (v) pay the costs of issuance.

Sustainability

The Authority is committed to developing and implementing sustainable business practices that prioritize economic as well as environmental, social, and governance (collectively, ESG) outcomes that are expected to contribute to long-term value creation for the Authority and its stakeholders. To this end, the Authority has identified ESG as a Foundational Pillar of VISION2030. In 2020, guided by the *Global Reporting Initiative Standards* and the *AA1000 Accountability Principles*, the Authority developed and published the NYPA and Canals' 2021-25 Sustainability Plan (2021-25 Sustainability Plan), which is expected to serve as a roadmap to help bring the Authority's ESG ambition to life over the next five years. The 2021-25 Sustainability Plan outlines the ESG goals, strategies, and initiatives that the Authority is committed to across each of the 15 priority ESG focus areas, which align with and support VISION2030 objectives.

In 2021 and 2022, the Authority issued annual reports and sustainability reports for calendar years 2020 and 2021 respectively that describe its progress in achieving its VISION2030 and 2021-25 Sustainability Plan goals. In 2023, the Authority issued its first integrated report for the 2022 calendar year that strives to apply the Integrated Reporting Framework principles and combines the Authority's annual report and sustainability report in one. The 2022 Integrated Report details the operations and activities carried out by the Power Authority and the Canal Corporation and presents our view of the progress made in achieving the priorities set by the Authority in VISION2030 and the goals outlined in the 2021-25 Sustainability Plan. The report takes an integrated approach to communicating the Authority's performance, bringing together environmental, social, and governance data and audited financial information, and aims to present a more comprehensive view of the Authority's value creation process. It also strives to align with the Global Reporting Initiative Standards, the Sustainability Accounting Standards Board ("SASB") Electric Utilities and Power Generators Standard, and the Task Force on Climate-Related Financial Disclosures ("TCFD") reporting framework. The 2022 report can be accessed at [nypa-2022-integrated-report.pdf](#) and the Authority expects to issue the 2023 Integrated Report during the 3rd quarter of 2024.

Regional Greenhouse Gas Initiative

The Regional Greenhouse Gas Initiative (the "RGGI") is a cooperative effort by Northeastern and Mid-Atlantic states, including New York, to reduce carbon dioxide emission levels. Participating states have established a regional carbon dioxide emissions cap from the power sector (fossil fuel-fired power plants 25MW or greater); for New York State, its Department of Environmental Conservation has set the applicability at 20MW or greater. RGGI States make periodic adjustments to the RGGI cap to account for banked CO2 allowances accumulated through the third control period. The size of the adjustment was last calculated in March 2021 and the adjustment will be made over a five-year period (2021-2025), as specified in the 2017 Model Rule. Central to this initiative is the implementation of a multi-state cap-and-trade program with a market-based emissions trading system. The program requires electricity generators to hold carbon dioxide allowances in a compliance account, in a quantity that matches their total emissions, for the three-year compliance period. The program also provides for (1) an annually replenished cost containment reserve that is used if emission reduction costs are higher than projected, and (2) an emission containment reserve to withhold allowances from circulation if credit prices fall

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Management's Discussion and Analysis

December 31, 2023

(Unaudited)

below an established trigger price (i.e., when emission reduction costs are lower than expected). The Authority's Richard M. Flynn Power Plant, the Small Natural Gas Power Plants, and Eugene W. Zeltmann Power Plant are subject to the RGGI requirements. The Authority has participated in program auctions to acquire carbon dioxide allowances and expects to recover RGGI costs through its power sales revenues. The Authority is monitoring proposed federal and state legislation, regulations, and programs (including any changes to RGGI) that would impact carbon dioxide emission levels.

Competitive Environment

The Authority's mission statement that was ratified by the Authority's Trustees in December 2020, is to "Lead the transition to a carbon-free, economically vibrant New York through customer partnerships, innovative energy solutions, and the responsible supply of affordable, clean, and reliable electricity." The mission statement adheres to maintaining the Authority's core operating businesses while also indicating that the Authority will support the energy goals of New York State, codified in enactments like the New York State Climate Leadership and Community Protection Act ("CLCPA") and the Accelerated Renewable Energy Growth and Community Benefit Act enacted in 2020 ("AREGCBA").

The Authority's financial performance goal is to have the resources necessary to achieve its mission, to maximize opportunities to serve its customers, and to preserve its strong credit rating.

To maintain its position as a reliable provider of power in a changing environment, the Authority has undertaken and continues to carry out a multifaceted program, including (a) the upgrade and relicensing of the Niagara, St. Lawrence-FDR, and Blenheim-Gilboa ("BG") projects; (b) long-term supplemental electricity supply agreements with the Power Authority's governmental customers located in Southeastern New York (NYC and Westchester Governmental Customers); (c) operation of the Eugene W. Zeltmann Power Project (the Authority's 500-MW combined cycle electric generating plant) located at the Power Authority's Astoria, Queens site; (d) the Power Authority entered into a long-term power supply contract with Astoria Energy II LLC for the purchase of all the output of AEII, a 550-MW plant, which entered into commercial operation on July 1, 2011 in Astoria, Queens. The delivery period under the contract is through 2031. At the same time, the Power Authority entered a separate contract with its' New York City Governmental Customers, which is coterminous with the power purchase agreement with Astoria Energy II LLC, to sell the output of AEII. All net costs of the Power Authority under the power purchase agreement with Astoria Energy II LLC are billed monthly to the New York City Governmental Customers. An equal amount of revenue is recognized during the period related to reimbursements from the New York City Governmental Customers; (e) a firm transmission capacity purchase agreement with Hudson Transmission Partners, LLC ("HTP") for a portion of the output of the 660 MW, seven mile, underground and underwater transmission line connecting into the transmission system operated by PJM Interconnection LLC; (f) construction and maintenance of new transmission lines to relieve congestion and increase transfer capability from central to eastern New York addressing NYISO's AC Transmission Public Policy Need ("AC Proceeding"); (g) implementation of an enterprise-wide risk management program; and (h) implementation of an enterprise-wide resiliency program to embed resilience culture and to prepare for a more uncertain operating environment. As a component of the Authority's strategic plan, efforts to modernize the Authority's generation and transmission infrastructure are being developed and implemented to increase flexibility and resiliency and to serve customers' needs in an increasingly dynamic energy marketplace.

In line with the mission, the Authority implements energy efficiency services for the benefit of its power supply customers and various other public entities throughout the State. Refer to the section "Clean Energy Solutions" in MD&A. The Authority finances the installation of energy-saving greenhouse gas

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Management's Discussion and Analysis

December 31, 2023

(Unaudited)

measures and equipment which are owned by the customers and public entities to focus on the reduction of the demand for electricity and the efficient use of energy.

The Authority operates in a competitive market environment. Through its participation in the NYISO and commodity markets, the Authority is subject to price uncertainty in electric energy, fuel, electric capacity, and non-energy commodities that impact the revenue of its facilities and customer market areas. Such market volatility can potentially have adverse effects on the Authority's financial condition.

To moderate impacts to the Authority, many of the Authority's customer contracts provide for the complete or partial pass-through of these costs, and at times, the Authority hedges market risks through the use of financial instruments and physical contracts.

The Authority can give no assurance that, even with these measures, it will retain its competitive status in the marketplace in the future as a result of the restructuring of the State's electric utility industry and the emergence of new competitors or increased competition from existing participants.

Clean Path NY Project

In September 2021 Governor Hochul announced the award of the Clean Path NY project in the Tier 4 solicitation by NYSERDA which sought projects that would deliver a significant increase of renewable energy into the NYISO Zone J area (New York City). Forward Power – a joint venture between EnergyRe, LLC and Invenergy, LLC, and the Power Authority are collaborating on the transmission line portion of the project. The proposal Forward Power submitted to NYSERDA included an estimated project cost of \$11 billion, \$3.5 billion of which is for the construction of a new 175-mile High Voltage Direct Current transmission line. As described in Forward Power's filing under Article 7 of the New York State Public Service Law, the transmission line rating is estimated at approximately 1300 MW. The northern section of the proposed transmission line will be constructed within the Authority's existing rights of way. The remaining sections of the project will utilize existing rights of way owned by New York State Electric & Gas Corporation (NYSEG), Metropolitan Transportation Authority (MTA), Metro-North Railroad, New York State Department of Transportation (NYSDOT), and New York City Department of Transportation (NYCDOT). It will also include a submarine transmission line in the Hudson, Harlem, and East River. The construction of a converter station located in Astoria, Queens will be built on existing Authority property. The four-year plan period of 2024-2027 doesn't include any funds for the project as no capital expenditure is expected at this time. The NYSERDA contract was approved by the New York State Public Service Commission in April 2022. As of December 31, 2023, the project was in the Permitting & Article VII process for review. Preparation of other permitting applications, engineering, and procurement, as well as definitive agreements are ongoing.

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Management's Discussion and Analysis

December 31, 2023

(Unaudited)

ConnectALL Project

ConnectALL is New York State's \$1 billion initiative, the largest public investment in broadband in the state's history that aims to transform New York's digital infrastructure and expand broadband access, affordability, and equity statewide. The Authority successfully conducted a pilot (costing approximately \$10 million) by deploying fiber-to-the-home leveraging its existing fiber optic infrastructure for "middle mile" services, as authorized by the state legislature. This pilot deployment will enable reliable and affordable high-speed internet access to more than 3,000 previously unserved or underserved households and businesses in four municipalities – the Village of Sherburne in Chenango County (Authority's customer), the Town of Nichols in Tioga County, the Town of Diana in Lewis County, and the Town of Pitcairn in St. Lawrence County. The Authority provided, through this pilot, support to Empire State Development ("ESD") to develop a robust implementation plan for the Municipal Infrastructure Program leveraging both state and federal grant funding. The Authority will not make any investment in the project, however, will provide advisory services as part of the State's Broadband Deployment Advisory Committee (BDAC).

Propel

On June 20, 2023, the New York Independent System Operator ("NYISO") publicly announced the selection of Propel NY Alternative Solution 5 ("Propel Project") as the project that will meet the identified Long Island Public Policy Transmission Need to deliver at least 3,000 megawatts (MW) from offshore wind projects into the New York State Control Area. The Propel Project is being collaboratively developed by the Power Authority and New York Transco and will meet the transmission need through new electric transmission lines, new substations, and existing substation upgrades. The Propel Project will also establish a continuous 345kV path that greatly expands the deliverability of renewable offshore wind. More specifically, the Propel Project consists of the following electric transmission facilities: (i) East Garden City – Tremont 345 kV PAR-controlled line; (ii) Shore Road – Sprain Brook two (2) 345 kV PAR-controlled lines; (iii) Barrett – East Garden City 345 kV PAR-controlled line; (iv) Ruland Road – Shore Road 345 kV line; (v) Ruland Road – East Garden City 345 kV PAR-controlled line; (vi) Shore Road – East Garden City 345 kV line; and (vii) Syosset – Shore Road 138 kV PAR-controlled line. As of December 31, 2023, the Federal Energy Regulatory Commission has approved the Power Authority's filing for project abandonment. The Propel Project's in-service date is scheduled for May 2030. The Propel Project is estimated to cost \$3.3 billion which is to be funded by the Propel Project sponsors, the Power Authority, and New York Transco. The Power Authority has committed \$500 million towards this project.

Drone Program

The Authority's unmanned aircraft system has expanded beyond capturing photographs of and inspecting its transmission lines with the ability to now respond to operational emergencies. Today, with more than 100 people part of the program, and a fleet of 63 drones, the Drone Program's mission runs include transmission inspection, and other projects, and has increased the safety and reliability of the Authority's equipment with more than 757 missions last year.

The next steps for the Drone Program include a 5-year multi-phased plan to develop advanced Unmanned Aerial System ("UAS") capabilities. It will follow a two-phased approach, beginning with foundational measures needed to enable current and future capabilities. The Authority is planning to expend approximately \$37 million over the next five years to support the Drone Program.

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Management's Discussion and Analysis

December 31, 2023

(Unaudited)

On July 27, 2023, the Authority's Trustees authorized a Capital Expenditure Authorization of \$10 million for the implementation of foundational measures for a UAS Drone Program. Additionally, the Authority's Trustees provided concurrence with the five-year implementation plan of the UAS Drone Program with a total program cost of \$37 million, and a remaining estimated balance of \$26 million after the \$10 million authorization and the \$1 million initial expenditure, recognizing that release of any of the remaining balance is subject to future authorization.

Rate Actions

Power and energy from the St. Lawrence-FDR and Niagara hydroelectric facilities are sold under contract to municipal electric systems, rural electric cooperatives, commercial and industrial and other business customers, non-profit corporations, certain public bodies, investor-owned utilities, and out-of-state customers. The remaining available energy is sold into the NYISO market.

The charges for firm power, firm peaking power and associated energy sold by the Power Authority, as applicable, to the fifty-one municipal electric utility systems and rural electric cooperatives in New York State, two public transportation agencies, three investor-owned utilities for the benefit of rural and domestic customers, nine host communities and seven out-of-state public customers have been established based on the costs to serve these loads.

Niagara's Expansion & Replacement Power, St. Lawrence-FDR's Preservation Power, and ReCharge New York's customers are dedicated 45% and currently allocated over 30% of the average generation capacity of the plants and the allocation varies as we allocate more power to the customers. Their rates are subject to annual adjustment based on the average of three contractually agreed-upon economic indices reflecting changes in industrial energy prices.

In 2019, the Authority's Trustees approved a seven-year extension of an agreement for the sale of firm hydroelectric power and energy from the St. Lawrence-FDR project to the Aluminum Company of America ("Alcoa") at its West Plant facilities. The existing contract with Alcoa, for an aggregate of 240 MW, has been executed effective April 1, 2019, through March 31, 2026, replacing prior long-term contracts. The contract extension provides for monthly Base Energy Rate adjustments based on the price of aluminum on the London Metal Exchange and contains provisions for employment (450 jobs) and capital commitments (\$14 million). Changes from the previous contract include a reduced allocation of 245 MW, with the additional 5 MW being allocated to Arconic, a business independent of Alcoa, sold under a separate Preservation Power sale agreement; a monthly Clean Energy Standard ("CES") charge relating to Zero Emission Credits ("ZEC") and Renewable Energy Credits ("REC") that the Power Authority purchases which are attributable to Alcoa's load. The contract specifies a sharing mechanism for the CES charges between Alcoa, New York State, and the Power Authority, whereby Alcoa's share increases as the aluminum price increases. The Power Authority has entered into aluminum contracts to mitigate potential downside risk in that market, with future activities based upon prevailing economic conditions as appropriate.

ReCharge New York ("RNY") is the Governor's statewide economic development electric power program, designed to retain and create jobs through the allocation of low-cost power. The RNY program allocates 455 MW of hydropower from the Power Authority's Niagara and St. Lawrence-FDR projects at Preservation Power rates, which are similar to the Expansion and Replacement power customer rates, with certain adjustments. An additional 455 MW of market power can also be procured for RNY customers upon contractual agreement.

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Management's Discussion and Analysis

December 31, 2023

(Unaudited)

Various municipalities, school districts, and public agencies in New York City are served by the Power Authority's combined-cycle Eugene W. Zeltmann Power Project ("Zeltmann"), the contracted output of the Astoria Energy II plant, and capacity and energy purchased by the Power Authority in the NYISO markets. In 2017 and 2018, the Power Authority executed new supplemental long-term electricity supply agreements (Supplemental LTAs) with its eleven NYC Governmental Customers, including the Metropolitan Transportation Authority, the City of New York, the Port Authority of New York and New Jersey (Port Authority), the New York City Housing Authority, the New York State Office of General Services and remaining six Key Governmental Customers. Under these Supplemental LTAs, the NYC Governmental Customers agreed to purchase their electricity from the Power Authority through December 31, 2027, with the NYC Governmental Customers having the right to terminate at any time upon at least 12 months' notice during the first five years of the agreement (December 31, 2022). Thereafter, both the Power Authority and the NYC Governmental Customers may terminate the agreement upon at least six months' notice. Under the Supplemental LTAs, fixed costs were contractually set for each customer. Variable costs, including fuel, purchased power, and NYISO-related costs, are to be set on a pro-forma cost-of-service basis and reconciled monthly as a pass-through to each customer by an energy charge adjustment. For years 2023-2025, a fixed-price energy option is available for the NYC Governmental customers for procurement of a limited amount of energy, which allows for price certainty. The NYC Governmental customers have an ability to extend this fixed-price energy option for years 2026-2027.

The Power Authority's other Southeastern New York ("SENY") customers are Westchester County and numerous municipalities, school districts, and other public agencies located in Westchester County (collectively, the "Westchester Governmental Customers"). The Power Authority has entered into an evergreen supplemental electricity supply agreement with all 103 Westchester Governmental Customers. Among other things provided by the agreement, customers can partially terminate service from the Power Authority with at least two months' notice prior to the start of the NYISO capability periods. Full termination is allowed with at least one year's notice, effective no sooner than January 1 following the one-year notice. Westchester Governmental Customers are partially served by the Power Authority's four small hydroelectric plants. The remainder of the Westchester Governmental Customers' load requirements are supplied through energy and capacity purchased from the NYISO markets. Sales of energy generated by the small hydroelectric resources into the NYISO markets, as well as grandfathered and historic fixed-priced transmission congestion contracts, all help to offset the cost of the energy purchased, with an energy charge adjustment mechanism in place for cost reconciliation.

Cost recovery for the Power Authority's provision of transmission service over its facilities has been governed by the NYISO tariff since the formation of the NYISO in November 1999. The Power Authority receives cost recovery through the NYISO tariff mechanism known as the NYPA Transmission Adjustment Charge ("NTAC"), recovering the Power Authority's Backbone Transmission System costs on a statewide basis after accounting for the Power Authority's revenues received from pre-existing customer transmission service contracts, Transmission Service Charge ("TSC") assessed on customers in the Power Authority's upstate load zone, and other sources. In January 2016, the Power Authority filed with FERC to convert from a stated rate to a formula rate to ensure recovery of its ATRR based upon operating and maintenance expenses as well as the capital spending necessary to maintain the reliability of its transmission system. FERC accepted the filing and made it effective April 1, 2016, as requested, subject to hearing and settlement judge procedures. The Power Authority filed an unopposed Offer of Settlement on September 30, 2016, that fully resolved the issues raised by interested parties in settlement negotiations concerning the formula rate. The settlement was approved by FERC on January 19, 2017. The ATRR is updated annually prior to the start of each rate year (July 1st - June 30th).

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Management's Discussion and Analysis

December 31, 2023

(Unaudited)

In November 2022, the Power Authority filed to amend its Administrative and General ("A&G") expense allocator under the formula rate to no longer use a labor ratio to allocate these expenses, but instead adopt a 3-factor allocation method that uses equal parts direct labor, net plant, and net revenue. Per the terms of an uncontested settlement agreement filed at FERC in December 2023, which is still pending, the Power Authority will be permitted to use this A&G expenses allocator effective January 2023.

Effective July 1, 2023, the Transmission Revenue Requirement is \$371 million, which includes revenue requirements for the NTAC, Marcy South Series Compensation, and AC Transmission (renamed as Central East Energy Connect) projects.

Certain New Legislation Affecting the Authority

Bills are periodically introduced or passed in the New York State Legislature that propose to limit, restrict, or expand the powers, rights, and exemptions from regulation that the Authority currently possesses under the Power Authority Act and other laws, or could otherwise affect the Authority's financial condition or its ability to conduct its business, activities, or operations in the manner presently conducted or contemplated hereby. It is not possible to predict whether any such bills or other bills of a similar type which may be introduced or passed in the future, will be enacted.

As more specifically described in the enactment, and subject to limitations described therein, the 2019-20 Enacted State Budget (2019-20 ESB) amended the Power Authority Act to authorize the Authority, subject to feasible and advisable determinations by the Authority's Trustees, to: (1) design, finance, develop, construct, install, lease, operate and maintain electric vehicle charging stations throughout the state for use by the public; (2) plan, finance, construct, acquire, operate, improve and maintain, either alone or jointly with one or more other entities, transmission facilities for the purpose of transmitting power and energy generated by renewable wind energy generation projects that are located in State territorial waters, and/or in waters under the jurisdiction or regulation of the U.S.; (3) supply certain market power and energy and renewable energy products to any Authority customer, public entity, or community choice aggregation ("CCA") community in the State (collectively, "Eligible Entities"); and (4) alone or jointly with one or more other entities, finance the development of renewable energy generating projects that are located in the State, including its territorial waters, and/or on property or in waters under the jurisdiction or regulatory authority of the United States, purchase power, energy or related credits or attributes produced from such renewable energy generating projects, and allocate and sell such products to Eligible Entities. The Authority may exercise any of this authority at its discretion, and the amendments made by 2019-20 ESB do not affect the Authority's previously existing statutory authority.

On July 18, 2019, the State enacted CLCPA. CLCPA directs the New York State Department of Environmental Conservation (the "NYSDEC") to develop regulations to reduce statewide greenhouse gas emissions ("GHG") to 60% of 1990 levels by 2030 and 15% of 1990 levels by 2050. NYSDEC is currently drafting regulations that would implement these and other related goals.

Several provisions of CLCPA could potentially impact the Authority's business and operations, such as the following: (1) a requirement that specified State entities, including the Authority, adopt regulations to contribute to achieving statewide GHG emissions; (2) a requirement that State entities, including the Authority, assess and implement strategies to reduce GHG emissions; (3) consideration of whether actions that the Authority would undertake in the course of its operations are consistent with State GHG emission limits that will be established pursuant to the enactment; and (4) potential allocation or

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Management's Discussion and Analysis

December 31, 2023

(Unaudited)

realignment of resources to support State clean energy and energy efficiency goals for disadvantaged communities.

Many of the provisions of CLCPA that could impact the Authority are not likely to be implemented for years based on deadlines established in the enactment. Therefore, the Authority is not in a position at this time to evaluate the impact of any particular provision of CLCPA on the Authority's business and operations.

As part of the 2020-2021 Enacted State Budget, legislation was enacted that is expected to expedite the construction of clean energy projects to combat climate change in an effort to improve the State's economic recovery from the COVID-19 health crisis. The Renewable Energy Act will improve and streamline the process for environmentally responsible and cost-effective siting of large-scale renewable energy projects across the State while delivering significant benefits to local communities. The Renewable Energy Act will accelerate progress toward the State's clean energy and climate goals, including the goal to obtain 70% of the State's electricity from renewable sources by 2030.

As part of the 2022-2023 Enacted State Budget, legislation was enacted to allow the Authority, as deemed feasible and advisable by the Authority's Trustees, to enter into lease agreements with other State instrumentalities and municipal entities for the use of excess capacity in the Authority's fiber optic communications infrastructure. The purpose of this legislation is to provide affordable, high-speed broadband in unserved and underserved communities in the State. Any excess fiber optic communication infrastructure leased out by the Authority shall be at a rate that is no greater than necessary to cover the cost of maintenance of such fiber optic communications infrastructure. The Authority will not be limited from recovering other costs incurred to make such excess capacity available in unserved and underserved communities in the State. Any authorized lease agreements shall be subject to review and comment by the Division of Broadband Access within the Empire State Development Corporation ("ESDC") in consultation with the NYSPSC. Refer to the section ConnectALL above for the Authority's participation in this initiative.

As more specifically described in the enactment, and subject to the limitations described therein, the 2023-2024 Enacted State Budget amended the Act to, among other things: (a) expand the Authority's authority to plan, design, develop, finance, construct, own, operate, maintain and improve, either alone or jointly with other entities, renewable energy generation projects; (b) authorize the Authority to develop and implement, with the NYSPSC, the Renewable Energy Access and Community Help or "REACH" Program, that will enable low-income or moderate-income end-use electricity consumers in disadvantaged communities to receive bill credits derived from a portion of the revenues generated from new renewable energy generation projects developed or contracted for by the Authority to support the REACH Program; (c) direct the Authority to prepare a plan for ceasing electricity production at its small natural gas-fired power plants by December 31, 2030, and to cease electricity production by such date if certain conditions are satisfied; and (d) authorize the Authority to make available up to \$25 million annually to the New York State Department of Labor ("DOL") to fund programs established or implemented by or within the DOL, including, but not limited to, the office of just transition and programs for workforce training and retraining to prepare workers for employment for work in the renewable energy field. Changes made by these amendments do not affect the Authority's previously existing statutory authority.

Article 4-D of the Public Buildings Law, added by Part RR of Chapter 56 of the Laws of 2023, authorizes and directs the Authority to establish decarbonization action plans for fifteen state-owned facilities that are among the highest producers of greenhouse gas ("GHG") emissions and collectively account for at

NEW YORK POWER AUTHORITY*(A Component Unit of the State of New York)***Management's Discussion and Analysis**

December 31, 2023

(Unaudited)

least 30% of the GHG emissions as recorded by the Authority's Build Smart NY program, that are intended to serve as a basis for development of construction plans to decarbonize the state-owned facilities. The Authority is authorized to allocate up to \$30 million to prepare the decarbonization action plans.

The above actions, as described in the enactment, are executable as deemed advisable and feasible by the Authority's Trustees.

Labor Contracts

The Power Authority reached an agreement with the International Brotherhood of Electrical Workers on a labor contract that covers over 550 represented employees at the Authority's Blenheim-Gilboa Pumped Storage Project, Frederick R. Clark Energy Center, Niagara Power Project, and St. Lawrence/FDR Power Project. This agreement, which is retroactive to April 1, 2022, runs through July 31, 2027.

The Canal Corporation reached an agreement with the Civil Service Employees Association Unit III on a labor contract that covers over 350 represented employees at the Canal Corporation. This agreement, which is retroactive to July 1, 2022, runs through June 30, 2027.

The Canal Corporation reached an agreement with the Public Employees Federation on a labor contract that covers over 80 represented employees at the Canal Corporation. This agreement, which is retroactive to July 1, 2022, runs through June 30, 2027.

The Power Authority reached an agreement with the Utility Workers Union of America on a labor contract that covers over 20 represented employees at Zeltmann. This agreement, which is retroactive to January 1, 2023, runs through April 30, 2028.

The impact due to the change in agreements, considered immaterial, has been reflected appropriately in the Authority's financials for the reported period.

Commitments and Contingencies

The Authority's commitments and contingencies are more fully detailed in Note 18 "Commitments and Contingencies" of the notes to the Consolidated Financial Statements.

NEW YORK POWER AUTHORITY*(A Component Unit of the State of New York)***Management's Discussion and Analysis**

December 31, 2023

(Unaudited)

Canal Corporation

The Canal Corporation continues to require substantial operating and maintenance support and capital investment. The Canal Corporation's expenses are funded by transfers of funds from the Authority. Any transfer of funds is subject to approval by the Authority's Trustees and compliance with the Authority's General Bond Resolution. Certain expenses eligible for reimbursement are reimbursed to the Authority by funds held in the Canal Development Fund maintained by the State Comptroller and the Commissioner of Taxation and Finance. For the year ended December 31, 2023, the Canal Corporation recognized \$2 million in revenues, \$74 million in operations and maintenance expenses, and \$41 million in depreciation expenses.

By resolution adopted December 12, 2023, the Canal Corporation's Board of Directors adopted a budget for 2024-2027 that consisted of expenditures for operations and maintenance expenses and capital expenses. The Authority's budget and financial plan for 2024-2027 includes Canal-related operating expenditures averaging approximately \$103 million per year and capital expenditures of approximately \$144 million per year and \$2.5 million per year for Canal Development Fund expenses.

Contacting the Authority

This financial report is designed to provide our customers and other interested parties with a general overview of the Authority's finances. If you have any questions about this report or need additional financial information, contact the New York Power Authority, 123 Main Street, White Plains, New York 10601. Email: info@nypa.gov

NEW YORK POWER AUTHORITY
(A Component Unit of the State of New York)

Consolidated Statement of Net Position
(In millions)

Consolidated Statement of Net Position

	<u>December 31, 2023</u>
Assets and Deferred Outflows	
Current assets:	
Cash and cash equivalents	
Unrestricted	\$ 438
Restricted	1
Capital Fund	41
Investment in securities	1,110
Receivables - customers	269
Materials and supplies:	
Plant and general	75
Fuel	51
Miscellaneous receivables and other	<u>141</u>
Total current assets	<u>2,126</u>
Noncurrent assets:	
Restricted funds:	
Investment in securities	13
Capital funds:	
Investment in securities	410
Capital assets:	
Non-Utility Assets, net of accumulated depreciation	77
Assets, not depreciated	1,028
Assets, net of accumulated depreciation	<u>5,803</u>
Total capital assets	<u>6,908</u>
Other long-term assets	<u>896</u>
Total noncurrent assets	<u>8,227</u>
Total assets	<u>10,353</u>
Deferred outflows of resources:	
Asset retirement obligation	19
Accumulated decrease in fair value of derivatives	40
Pensions	140
Postemployment benefits other than pensions	<u>128</u>
Total deferred outflows of resources	<u>327</u>
Total assets and deferred outflows of resources	<u>\$ 10,680</u>

**See accompanying notes to the consolidated financial statements.

Continued

NEW YORK POWER AUTHORITY
(A Component Unit of the State of New York)

Consolidated Statement of Net Position
(In millions)

	<u>December 31, 2023</u>
Liabilities, Deferred Inflows and Net Position	
Current liabilities:	
Accounts Payable and accrued liabilities	\$ 845
Short-term debt	227
Long-term debt due within one year	<u>33</u>
Total current liabilities	<u>1,105</u>
Noncurrent liabilities:	
Long-term debt:	
Senior:	
Revenue bonds	1,519
Subordinated:	
Subordinated Notes	35
Separate Revenue Bond Obligation:	
SFP Bonds 2022	640
SFP Bonds 2023	<u>751</u>
Total long-term debt	<u>2,945</u>
Other noncurrent liabilities:	
Nuclear fuel disposal	245
Relicensing	223
Other long-term liabilities	<u>357</u>
Total other noncurrent liabilities	<u>825</u>
Total noncurrent liabilities	<u>3,770</u>
Total liabilities	<u>4,875</u>
Deferred inflows of resources:	
Unearned revenue	45
Cost of removal obligations	435
Accumulated increase in fair value of derivatives	4
Pensions	11
Lease revenue	45
Postemployment benefits other than pensions	<u>190</u>
Total deferred inflows of resources	<u>730</u>
Net Position:	
Net investment in capital assets	3,361
Unrestricted	<u>1,714</u>
Total net position	<u>5,075</u>
Total liabilities, deferred inflows of resources and net position	<u><u>\$ 10,680</u></u>

**See accompanying notes to the consolidated financial statements.

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Consolidated Statement of Revenues, Expenses and Changes in Net Position (In millions)

Consolidated Statement of Revenues, Expenses and Changes in Net Position

	Year Ended <u>December 31, 2023</u>
Operating revenues:	
Power sales	\$1,773
Transmission	473
Transportation and delivery	747
Other	<u>41</u>
Total operating revenues	<u>3,034</u>
Operating expenses:	
Purchased power	605
Fuel oil and gas	176
Transportation and delivery	1,107
Operations and maintenance	723
Depreciation and amortization	<u>307</u>
Total operating expenses	<u>2,918</u>
Operating income	<u>116</u>
Nonoperating revenues, gains and expenses:	
Nonoperating revenues and gains:	
Investment income	84
Other	<u>10</u>
Total nonoperating revenues and gains	<u>94</u>
Nonoperating expenses:	
Interest on long-term debt	111
Interest - other	28
Interest capitalized	(58)
Amortization of debt premium	<u>(1)</u>
Total nonoperating expenses	<u>80</u>
Net income and change in net position	130
Net position, January 1	4,945
Net position, December 31	<u><u>\$5,075</u></u>

**See accompanying notes to the consolidated financial statements.

NEW YORK POWER AUTHORITY
(A Component Unit of the State of New York)
Consolidated Statement of Cash Flows
(In millions)

Consolidated Statement of Cash Flows

	Year Ended December 31, 2023
Cash flows from operating activities:	
Customer sales	\$ 3,045
Disbursements for:	
Purchased power	(601)
Fuel oil and gas	(192)
Transportation and delivery	(1,089)
Operations and maintenance	(742)
Net cash provided by operating activities	<u>421</u>
Cash flows from capital and related financing activities:	
Gross additions to capital assets	(699)
Proceeds from issuance of Series 2023 Green Bonds	751
Issuance costs paid on debt	(10)
Repayment/defeasance of bonds	(108)
Repayment of notes	(2)
Interest paid, net	(95)
Net cash used in capital and related financing activities	<u>(163)</u>
Cash flows from noncapital-related financing activities:	
Energy conservation program payments received from participants	334
Energy conservation program costs	(269)
Proceeds from issuance of commercial paper	138
Repayment of commercial paper	(91)
Interest paid on commercial paper	(6)
Margin Deposits with Brokers	37
Net cash provided by noncapital-related financing activities	<u>143</u>
Cash flows from investing activities:	
Earnings received on investments	53
Purchase of investment securities	(4,550)
Maturities/sale of investment securities	4,223
Net cash used in investing activities	<u>(274)</u>
Net increase in cash	<u>127</u>
Cash and cash equivalents, January 1	<u>353</u>
Cash and cash equivalents, December 31	<u><u>480</u></u>
Reconciliation to net cash provided by operating activities:	
Operating income	116
Adjustments to reconcile operating income to net cash provided by operating activities:	
Change in assets, deferred outflows, liabilities, and deferred inflows:	
Provision for depreciation and amortization	307
Net (increase) in miscellaneous prepayments and other	(49)
Net decrease in receivables and materials and supplies	109
Net (decrease) in accounts payable/accrued liabilities and other	(62)
Net cash provided by operating activities	<u><u>\$ 421</u></u>

**See accompanying notes to the consolidated financial statements.

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Statement of Fiduciary Net Position (OPEB)

(In millions)

Statement of Fiduciary Net Position (OPEB)

	June 30, 2023
Assets:	
Cash and cash equivalents	\$ 56
Receivables:	
Due from broker for investments sold	17
Investment income	1
Total receivables	18
Investments at fair value:	
Domestic equity	171
International equity	89
Global Index Fund	190
International contrarian value fund	42
Real Estate (REIT)	39
Fixed Income	152
Total investments at fair value	683
Total assets	757
Liabilities:	
Payables:	
Accrued liability	10
Total liabilities	10
Net position available for postemployment benefits other than pensions	\$ 747

**See accompanying notes (Note 13) to the consolidated financial statements.

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Statement of Changes in Fiduciary Net Position (OPEB)

(In millions)

Statement of Changes in Fiduciary Net Position (OPEB)

<u>Total additions, gains, and (losses)</u>	<u>June 30, 2023</u>
Additions, gains and (losses):	
Employer contributions	\$ 30
Investment income:	
Net increase in fair value of investments	62
Interest and dividend income	12
Less: investment and administrative expenses	(10)
Net investment	64
Total additions and gains	94
Deductions:	
Benefits payments	30
Total deductions	30
Changes in net position	64
Net position available for postemployment benefits other than pensions - beginning of year	683
Net position available for postemployment benefits other than pensions - end of year	\$ 747

**See accompanying notes (Note 13) to the consolidated financial statements.

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

Notes to the Consolidated Financial Statements

(1) General

The Power Authority is a corporate municipal instrumentality and political subdivision of the State of New York (the “State”) created in 1931 by Title 1 of Article 5 of the Public Authorities Law, Chapter 43-A of the Consolidated Laws of the State of New York, as amended from time to time (the “Power Authority Act” or the “Act”), and has its principal office located at 30 South Pearl Street, Albany, New York 12207-3425. The mission of the Power Authority is to lead the transition to a carbon-free, economically vibrant New York through customer partnerships, innovative energy solutions, and the responsible supply of affordable, clean, and reliable electricity.

The Power Authority has aligned its mission with the clean energy goals of New York State set forth in the New York State Climate Leadership and Community Protection Act (“CLCPA”) enacted in 2019 and the Accelerated Renewable Energy Growth and Community Benefit Act enacted in 2020 (“AREGCBA”). The 2023-2024 Enacted State Budget amended the Act to, among other things, expand the Power Authority’s authority to plan, design, develop, finance, construct, own, operate, maintain, and improve renewable energy generation projects.

The Power Authority generates, transmits, purchases, and sells electric power and energy as authorized by law. The Power Authority owns and operates five major generating facilities, eleven small electric generating units located at seven facilities, and four small hydroelectric facilities, with a total installed capacity of approximately 6,000 MW, and approximately 1,550 circuit miles of transmission lines, including major 765 kV and 345 kV transmission facilities. The Power Authority’s five major generating facilities consist of two large hydroelectric facilities (Niagara and St. Lawrence-FDR), a large pumped-storage hydroelectric facility (Blenheim-Gilboa), the Eugene W. Zeltmann (Zeltmann or 500-MW Plant) combined cycle electric generating plant located in Queens, New York and the Richard M. Flynn combined cycle plant located in Holtsville, out in Long Island, New York. The Power Authority’s customers include municipal and rural electric cooperatives located throughout the State, local governments, investor-owned utilities (“IOUs”), high load factor industrial customers, commercial/industrial and not-for-profit businesses, various public corporations located within the metropolitan area of The City of New York (the “City”), including the City, and entities in certain neighboring states. The Power Authority is a transmission-owning member of the New York Independent System Operator, Inc. which is a not-for-profit corporation that operates the State’s bulk electricity grid, administers the State’s wholesale electricity markets and provides comprehensive reliability planning for the State’s bulk electricity system (“NYISO”). In addition, the Power Authority sells and purchases capacity, energy, and ancillary services in the NYISO wholesale energy markets.

The legislation was enacted on April 4, 2016 (the “Canal Transfer Legislation”) which provided for (1) the transfer, effective January 1, 2017, of the New York State Canal Corporation (“Canal Corporation”) from the Thruway Authority to the Power Authority, and (2) as of January 1, 2017, the Power Authority’s assumption from the Thruway Authority of powers and duties relating to a 524-mile canal system consisting of the Erie, Champlain, Oswego, and Cayuga-Seneca canals (the “Canal System”) and jurisdiction over the Canal System and related assets, equipment and property in connection with the planning, development, construction, reconstruction, maintenance, and operation of the Canal System, which the Power Authority is authorized to exercise through the Canal Corporation. The Canal Corporation is responsible for the Canal System.

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

Legislation enacted in May of 2022 (Chapter 193 of the Laws of 2022) amended the State insurance law to provide the Power Authority with the authority to form a pure captive insurance company enabling the Power Authority to effectively provide coverage for risks that are not currently insured, not insurable on the traditional commercial markets, or prohibitively expensive to insure through the commercial markets and to provide the Power Authority with related tax exemptions. Refer to Note 17 for further information on captive insurance. In May 2023, the NYPA Captive Insurance Company was established as a wholly-owned subsidiary of the Power Authority.

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

(2) NYPA, SFP, and Captive Financial Information

A. Consolidated Statement of Net Position (In millions)

	NYPA	SFP	Captive	Dec. 31, 2023
Current assets	\$ 1,862	\$ 154	\$ 110	\$ 2,126
Capital assets	5,721	1,187	-	6,908
Other noncurrent assets	976	343	-	1,319
Total assets	8,559	1,684	110	10,353
Deferred outflows of resources	327	-	-	327
Total assets and deferred outflows of resources	\$ 8,886	\$ 1,684	\$ 110	\$ 10,680
Current liabilities	\$ 1,023	\$ 78	\$ 4	\$ 1,105
Noncurrent liabilities	2,379	1,391	-	3,770
Total liabilities	3,402	1,469	4	4,875
Deferred inflows of resources	730	-	-	730
Net position	4,754	215	106	5,075
Total liabilities, deferred inflows of resources and net position	\$ 8,886	\$ 1,684	\$ 110	\$ 10,680

NEW YORK POWER AUTHORITY*(A Component Unit of the State of New York)*

Notes to the Consolidated Financial Statements

December 31, 2023

B. Consolidated Statement of Revenues, Expenses and Changes in Net Position (In millions)

	NYPA	SFP	Captive	Dec. 31, 2023
Operating revenues	\$ 2,935	\$ 97	\$ 2	\$ 3,034
Operating expenses:				
Purchased power	605	-	-	605
Fuel oil and gas	176	-	-	176
Transportation and delivery	1,107	-	-	1,107
Operations and maintenance	707	16	-	723
Depreciation and amortization	299	8	-	307
Total operating expenses	2,894	24	-	2,918
Operating income	41	73	2	116
Nonoperating revenues and gains	81	9	4	94
Nonoperating expenses	51	29	-	80
Net income	\$ 71	\$ 53	\$ 6	\$ 130

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

C. Consolidated Statement of Cash Flow (In millions)

	Dec. 31,			
	NYP A	SFP	Captive	2023
Net cash provided by operating activities	\$ 339	\$ 81	\$ 1	\$ 421
Net cash (used in)/provided by capital and related financing activities	(525)	262	100	(163)
Net cash provided by non-capital related activities	143	-	-	143
Net cash (used in)/provided by investing activities	44	(248)	(70)	(274)
Net increase in cash	1	95	31	127
Cash and cash equivalents, January 1	314	39	-	353
Cash and cash equivalents, December 31	\$ 315	\$ 134	\$ 31	\$ 480

(3) Separately Financed Projects (“SFP”)

Overview

The “General Bond Resolution” provides for authorization to the Power Authority to issue separately financed project bonds through a separate bond resolution.

On December 7, 2021, the Power Authority adopted its “General Resolution Authorizing Transmission Project Revenue Obligations” (as amended and supplemented, the “Transmission Bond Resolution”). The Transmission Bond Resolution authorizes the issuance of Obligations to finance the costs of certain projects, facilities, systems, equipment, and/or materials related to or necessary or desirable in connection with the transmission or distribution of electric energy, whether owned or leased jointly or singly by the Power Authority, including any transmission capacity in which the Power Authority has an interest or which it has a contractual right to use, as authorized by the Act or by other applicable State statutory provisions which have been designated by Power Authority pursuant to a supplemental resolution as a Separately Financed Project under the General Bond Resolution and a transmission project for purposes of the Transmission Bond Resolution.

In January 2022, the Authority’s Trustees authorized the issuance of Green Transmission Project Revenue Bonds, Series 2022A (the “2022A Bonds”) which were issued pursuant to the Transmission Bond Resolution in an aggregate principal amount of approximately \$608 million during April of 2022. The proceeds from the issuance of the 2022A Bonds are being used to fund capital and other expenditures related to the Smart Path and CEEC transmission construction projects; reimburse expenses related to such projects; and pay financing and other costs relating to the issuance of the 2022A Bonds.

On November 16, 2023, the Power Authority issued \$734 million of Green Transmission Project Revenue Bonds, Series 2023A (the “2023A Bonds”) at a premium. Proceeds of the 2023A Bonds, together with other funds being provided by the Power Authority, will be used to (i) pay for capital expenditures related to the SPC Project, including reimbursement for prior capital spending, (ii) fund the 2023A debt service reserve fund, (iii) pay capitalized interest on the 2023A Bonds through November 15, 2025, (iv) fund an operating reserve account and (v) pay the costs of issuance. The CEEC, Smart Path, and Smart Path Connect Projects are collectively referred to as “Separately Financed Projects” or “SFP”.

The 2023A Bonds will be supported by the 2023A Debt Service Reserve Fund which, at the time of issuance of the 2023A Bonds, will be funded with a Municipal Bond Debt Service Reserve Insurance

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

Policy issued by Assured Guaranty Municipal Corporation. (“AGM”) in the amount of \$46 million, which is equal to the 2023A Debt Service Reserve Requirement as of the issuance date of the 2023A Bonds.

The Series 2022A and 2023A Transmission Resolution Revenue Bonds, together with any other bonds issued under the Transmission Bond Resolution (“Transmission Resolution Revenue Bonds”) are neither payable from nor secured by revenues pledged directly or indirectly under the General Bond Resolution. Owners of the Transmission Resolution Revenue Bonds will neither have any rights to nor be secured by any Power Authority revenues pledged to the payment of obligations issued under the General Bond Resolution. Transmission Resolution Revenue Bonds are limited obligations of the Power Authority payable solely from and secured by the SFP Transmission Trust Estate pledged under the Transmission Bond Resolution. Transmission Resolution Revenue Bonds bondholders have a lien only on revenue streams generated by the assets that are funded by the bond proceeds.

Payments are received by the Power Authority from NYISO on account of SFP Transmission Revenues and deposited in an allocation account, established pursuant to a depository trust agreement (the “Depository Trust Agreement”) by and between the Power Authority and a bank or trust company designated by the Power Authority. Amounts held in the Allocation Account constituting SFP Transmission Revenues are subject to the lien created by the Transmission Bond Resolution.

The SFP Transmission Revenues, once identified, are transferred to a Revenue account and subject to withdrawal and deposit in priority, as follows:

1. Operating Fund to cover SFP Transmission Operating Expenses expected to be payable in the succeeding calendar month less amounts held in the Operating Fund.
2. Debt Service Fund in the amount payable in the succeeding calendar month for Debt Service payable on SFP Transmission Obligations. On November 16th, 2023, the day of close for the Series 2023A Bonds, the Debt Service Fund was funded with Capitalized Interest for \$42 million, which partially covers debt service payments through May 2025. As of December 31, 2023, there is a balance of \$45 million in the Debt Service Fund.
3. Operating Reserve Account to fund any shortfalls in the Operating Reserve Account. The reserve should be in the amount of 50% of the succeeding calendar year's operation and maintenance budget. The balance as of December 31, 2023, was \$14 million.
4. Debt Service reserve fund to fund any shortfall in accordance with the Debt Service Reserve Fund Requirement. For the 2022A and 2023A Bonds, this account was funded by depositing Assured Guaranty Municipal Corporation (AGM) insurance policies and is not funded by any SFP Transmission Revenues. For the 2022A and 2023A bonds, the AGM issued a policy in the amount of \$35 million and \$46 million, respectively, which is 125% of the average annual debt service.
5. Payment of any subordinated indebtedness, which currently there is none.
6. Capital fund for any expected capital improvements.

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

Any remaining values after each fund is adequately funded, per the Transmission Bond Resolution, are eligible for distribution to the General Bond Resolution pending an annual Debt Service Coverage ratio test and other required certifications. The SFP Transmission Project fees, rates, rents, charges, and surcharges must at least equal 120% of Debt Service payable in the most recently completed fiscal year and in the most recently completed 12 calendar months period ending on the last day of the ninth month of such fiscal year, net of all O&M and required payments. If such a test is not met, the cash is unavailable to the General Bond Resolution bondholders. The Power Authority was in compliance of all necessary criteria for distribution in 2023, and on December 29, 2023, a \$25 million distribution was made from SFP to the Authority. The debt service coverage ratio for 2023 was 3.06x (excluding capitalized interest) and 6.12x (including capitalized interest) for the bond year ending November 15, 2023.

For the issuance of any additional Transmission Resolution Revenue Bonds, the Power Authority is required to satisfy an additional bond test.

The CEEC Project was placed in service in December 2023. The project is currently in the closeout phase and site restoration is ongoing.

As of December 31, 2023, all 6 segments for Smart Path have been placed into Electric Plant In Service ("EPIS"). The project is currently in the closeout phase and site restoration is ongoing.

As of December 31, 2023, the Power Authority has capital spend of \$462 million (excluding capitalized interest) for the Smart Path Connect project and completed 38 miles of transmission line upgrades.

(4) Summary of Significant Accounting Policies

(a) *Basis of Reporting*

The operations of the Power Authority and its subsidiaries, the Canal Corporation and the Captive, a blended component unit, are presented as an enterprise fund following the accrual basis of accounting to recognize the flow of economic resources. Accordingly, revenues are recognized in the period in which they are earned, and expenses are recognized in the period in which they are incurred. The accounts and transactions of the Canal Corporation and the Captive are included in the consolidated financial statements and notes to the Consolidated Financial Statements. All significant transactions between the Power Authority, the Canal Corporation and the Captive have been eliminated. The Power Authority, the Canal Corporation, and the Captive are referred to collectively as the "Authority" in the consolidated financial statements, except where noted.

The Authority complies with applicable pronouncements of the Governmental Accounting Standards Board ("GASB"). In accordance with Governmental Accounting Standards Board Statement No. 62, Codification of Accounting and Financial Reporting Guidance Contained in Pre-November 30, 1989, FASB, and AICPA Pronouncements, (GASB Statement No. 62) the Authority applies all authoritative pronouncements applicable to nongovernmental entities (i.e., Accounting Standards Codification ("ASC") of the Financial Accounting Standards Board) that do not conflict with GASB pronouncements.

(b) *Regulatory Accounting*

The Authority's Trustees have broad rate-setting authority for its power sales agreements with customers. The sale of transmission service over the Power Authority's facilities is provided pursuant to New York Independent System Operator ("NYISO") tariffs and under contracts that pre-dated the existence of the NYISO. The Power Authority files its transmission system revenue requirement with the Federal Energy Regulatory Commission ("FERC") for inclusion in the NYISO's open access tariff.

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

The Authority accounts for its regulated operations under the provisions of GASB Statement No. 62, Codification of Accounting and Financial Reporting Guidance Contained in Pre-November 30, 1989, FASB and AICPA Pronouncements, paragraphs 476-500. These provisions recognize the economic ability of regulators, through the ratemaking process, to create future economic benefits and obligations affecting rate-regulated entities. Accordingly, the Authority records these future economic benefits and obligations as regulatory assets and regulatory liabilities, respectively. Regulatory assets represent probable future revenues associated with previously incurred costs that are expected to be recovered from customers. Regulatory liabilities represent amounts that are collected from customers through the ratemaking process associated with costs to be incurred in future periods. Based on the action of the Authority’s Trustees, the Authority believes the future collection of the costs held over through regulatory assets is probable. For regulatory assets see Note 4(n) “Summary of Accounting Policies – Other Long-Term Assets” of the notes to the consolidated financial statements.

(c) **Estimates**

The preparation of consolidated financial statements in conformity with generally accepted accounting principles requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the consolidated financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

(d) **Capital Assets**

Capital assets are recorded at original cost and consist of amounts expended for labor, materials, services, and indirect costs to license, construct, acquire, complete, and place in operation the projects of the Authority. Interest on amounts borrowed to finance construction of the Authority’s projects charged to the project prior to completion is recorded as a regulatory asset. The costs of current repairs are charged to operating expenses, and betterments are capitalized. The cost of capital assets retired less salvage is charged to accumulated depreciation. Depreciation of capital assets is generally provided on a straight-line basis over the estimated lives of the various classes of capital assets.

The related depreciation provisions at December 31, 2023, expressed as a percentage of average depreciable capital assets on an annual basis are:

Average depreciation rate 2023		
Type of plant:		
Production		
Hydro	2.3	%
Gas turbine/combined cycle	2.3	
Transmission	2.0	
General	4.8	
Energy Storage	10.0	
Canals	3.9	
	4.2	%

(e) **Asset Retirement and Cost of Removal Obligations**

The Authority has recorded a liability at fair value to recognize legal obligations for asset retirements in the period incurred and to capitalize the cost by increasing the carrying amount of the related long-lived asset. The Authority determined that it had legal liabilities for the retirement of certain Small Natural Gas Power Plants (“SNGPPs”) in New York City and, accordingly,

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

has recorded a liability for the retirement of these assets. In connection with these legal obligations, the Authority has also recognized a liability for the remediation of certain contaminated soil discovered during the construction process. The Authority records asset retirement obligations in accordance with GASB Statement No. 83 (“GASB No. 83”), *Accounting for Certain Asset Retirement Obligations*.

The Authority also applies GASB Statement No. 49 (“GASB No. 49”) *Accounting and Financial Reporting for Pollution Remediation Obligations*, to asset retirement obligations involving pollution remediation obligations, which upon the occurrence of any one of five obligating events as stated in GASB No. 49, requires an entity to estimate the components of expected pollution remediation outlays and determine whether outlays for those components should be accrued as a liability or, if appropriate, capitalized when goods and services are acquired.

In addition to asset retirement obligations, the Authority has other cost of removal obligations that are being collected from customers and accounted for under the provisions of GASB Statement No. 62, *Codification of Accounting and Financial Reporting Guidance Contained in Pre-November 30, 1989, FASB and AICPA Pronouncements, paragraphs 476-500*. These cost of removal obligations are reflected in deferred inflows of resources in the statement of net position.

Asset retirement obligations (ARO) amounts included in deferred outflows and cost of removal obligation amounts included in deferred inflows are as follows:

	<u>ARO Amounts</u>	<u>Cost of removal obligation</u>
	(in millions)	
Balance - December 31, 2022	\$ 18	\$ 401
Other Expense	1	34
Balance - December 31, 2023	<u>\$ 19</u>	<u>\$ 435</u>

(f) **Long-Lived Assets**

The Authority applies GASB Statement No. 42 (“GASB No. 42”), *Accounting and Financial Reporting for Impairment of Capital Assets*, and for Insurance Recoveries, which states that asset impairments are generally recognized only when the service utility of an asset is reduced or physically impaired. There were no material impairments during 2023.

GASB No. 42 states that asset impairment is a significant, unexpected decline in the service utility of a capital asset. The service utility of a capital asset is the usable capacity that at acquisition was expected to be used to provide service, as distinguished from the level of utilization which is the portion of the usable capacity currently being used. Decreases in utilization and the existence of or increases in surplus capacity that are not associated with a decline in service utility are not considered to be impairments.

(g) **Leases**

During 2022, the Authority adopted GASB Statement No. 87 (“GASB No. 87”), *Leases*. GASB No. 87 establishes a single model for lease accounting based on the principle that leases are financings of the right to use an underlying asset. The Authority was required to recognize a lease liability and an intangible right-to-use lease asset for certain of its leases that were reported as operating and capital leases under the previous accounting standards. Refer to Note 18(e) on Leases.

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

(h) **Subscription-based information Technology Arrangements (“SBITA”)**

During 2023, the Authority adopted GASB Statement No. 96 (“GASB No. 96”), *Subscription-Based Information Technology Arrangements (“SBITA”)*. GASB No.96 requires recognition of certain subscription assets and liabilities for SBITA which were previously either capitalized or expensed. It establishes that an SBITA results in a right-to-use subscription asset and a corresponding subscription liability. Refer to Note 18(f) on SBITA for the impact on the Authority’s 2023 financial statements.

(i) **Cash, Cash Equivalents, and Investments**

Cash includes cash and cash equivalents and short-term investments with maturities, when purchased, of three months or less. The Authority accounts for investments at their fair value. Fair value is determined using quoted market prices. Investment income includes changes in the fair value of these investments. Realized and unrealized gains and losses on investments are recognized as investment income in accordance with GASB Statement No. 31, *Accounting and Financial Reporting for Certain Investments and for External Investment Pools*.

(j) **Derivative Instruments**

The Authority uses financial derivative instruments to manage the impact of energy and capacity prices, fuel cost changes, non-energy commodities, and interest rates when applicable, on its earnings and cash flows. The Authority recognizes the fair value of all financial derivative instruments as either an asset or liability on its consolidated statement of net position with the offsetting gains or losses recognized in earnings or deferred charges. The Authority applies GASB Statement No. 53, *Accounting and Financial Reporting for Derivative Instruments*, which establishes accounting and reporting requirements for derivative instruments (see Note 10 “Risk Management and Commodity Hedging Activities” of the Notes to the Consolidated Financial Statements).

(k) **Accounts Receivable**

Accounts receivables are classified as current assets and are reported net of an allowance for uncollectible amounts.

(l) **Materials and Supply Inventory**

Material and supplies, net of any obsolete/slow-moving inventory provisions, are valued at weighted average cost and are charged to expense during the period in which the material or supplies are used.

(m) **Debt Refinancing Charges**

Debt refinancing charges, representing the difference between the reacquisition price and the net carrying value of the debt refinanced, are amortized using the interest method over the life of the new debt or the old debt, whichever is shorter, in accordance with GASB Statement No. 23, *Accounting and Financial Reporting for Refunding’s of Debt Reported by Proprietary Activities*. See Note 8 “Long-Term and Short-Term Debt” of the notes to the consolidated financial statements.

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

(n) **Other Long-Term Assets**

Other long-term assets as of December 31, 2023, consist of the following:

	<u>December 31, 2023</u>
	(in millions)
Other long-term assets:	
Regulatory assets (a):	
Allowance for funds used during construction (AFUDC) (b)	\$ 145
Other regulatory assets	44
Total regulatory assets	189
Energy efficiency program costs (c)	229
Other long-term receivables	116
Transmission line interconnection costs	167
Other postemployment employee benefits (OPEB)	112
Lease receivable	51
Other	32
Total other long-term assets	<u>\$ 896</u>

(a) Regulatory assets reflect previously incurred costs that are expected to be recovered from customers through the ratemaking process.

(b) This amount includes interest capitalized net of depreciation. For the current year, \$58 million of interest was capitalized.

(c) Energy efficiency program costs will be recovered from certain customers through the terms of contracts.

(o) **Other Long-Term Liabilities**

The Authority has other long-term liabilities of \$357 million which include pension liability of \$175 million, compensated absences accrual of \$60 million, Asset Retirement Obligations of \$44 million, and others of \$78 million on December 31, 2023.

(p) **Net Position**

Net Position represents the difference between assets plus deferred outflows of resources and liabilities plus deferred inflows of resources and is classified into three components:

- a. Net investment in capital assets – This consists of capital assets (including right of use lease assets and right to use subscription assets), net of depreciation reduced by related outstanding debt and accounts. This indicates that these assets are not accessible for other purposes.
- b. Restricted – This represents restricted assets reduced by related liabilities and deferred inflows of resources that are not accessible for general use because their use is subject to restrictions enforceable by third parties.
- c. Unrestricted – This represents the net amount of assets, deferred outflows of resources, liabilities, and deferred inflows of resources that are not included in the components noted above and that are available for general use.

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

(q) **Operating Revenues**

The customers served by the Power Authority and the rates paid by such customers vary with the Power Authority's facilities designated to serve such loads. These customers are served under contracts and tariffs approved by the Authority's Trustees.

The principal operating revenues are generated from the sale, transmission, transportation and delivery of power. Revenues are recorded when power is delivered, or service is provided. Customers' meters are read, and bills are rendered, monthly. Transportation and delivery of power charges are for costs the Authority incurred for the transmission and/or delivery of power and energy to customers over transmission lines owned by other utilities. Sales to the Power Authority's five largest customers operating in the State accounted for approximately 46% of the Authority's operating revenues in 2023.

In addition to contractual sales to customers, the Power Authority also sells power into an electricity market operated by the New York Independent System Operator ("NYISO"). These sales are affected by market prices and are not subject to rate regulation by the Authority's Trustees.

New York Independent System Operator ("NYISO")

The Power Authority is a member and a customer of the NYISO. The NYISO schedules the use of the bulk transmission system in the State, which normally includes all the Power Authority's transmission facilities, and collects ancillary services, losses, and congestion fees from customers. In addition, the Power Authority schedules power from its generating facilities in conjunction with the NYISO. The NYISO coordinates the reliable dispatch of power and operates a market for the sale of electricity and ancillary services within the State.

Based upon the Power Authority's scheduled customer power needs and available electricity generated by the Power Authority's operating assets, the Authority buys and sells energy in an electricity market operated by the NYISO. A significant amount of the Power Authority's energy and capacity revenues result from sales of the Power Authority's generation into the NYISO market. A significant amount of the Power Authority's operating expenses consists of various NYISO purchased power charges in combination with generation-related fuel expenses.

(r) **Operating Expenses**

The Authority's operating expenses include fuel, operations, and maintenance including wages and benefits, depreciation, purchased power costs, and other expenses related to the sale of power. Energy costs are charged to expenses as incurred.

Purchased power costs include capacity, energy, and ancillary service purchases made in the wholesale market on behalf of its customers (except for those made through previously approved purchased power agreements). Transportation and delivery expenses are based on contractual and/or tariff rates of the service provider and are recovered through pass-through provisions in customer contracts.

Right-to-use lease assets and leasehold improvements recognized on account of the implementation of GASB No. 87 are being amortized over the lesser of the life of the assets or the term of the lease, using the straight-line method.

Right-to-use subscription assets recognized on account of the implementation of GASB No. 96 are being amortized over the subscription term, using the straight-line method.

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

(s) **Pension Plans**

The Authority is a cost-sharing employer that participates in the New York State and Local Employees Retirement System (“NYSLERS”), which is a cost-sharing multiple-employer plan in which the participating government employers pool their assets and their obligations to provide defined benefit pensions. The plan assets of this type of plan can be used to pay the pensions of the retirees of any participating employer. The amounts reported by the Authority for its proportionate share of the net pension liability, pension expense, and deferred outflows and deferred inflows have been provided by the New York State and Local Employees Retirement System to employers participating in the NYSLERS in accordance with Statement No. 68, *Accounting and Financial Reporting for Pensions*, and have been determined on the same basis as reported by the NYSLERS. See Note 12 “Pension Plans” of the notes to the consolidated financial statements.

(t) **Postemployment Benefits Other Than Pensions (OPEB)**

The Power Authority provides certain health care and life insurance benefits for eligible retired employees and their dependents under a single employer noncontributory (except for certain optional life insurance coverage) health care plan (Authority OPEB Plan). The Power Authority has an established trust for its OPEB obligations (OPEB Trust) that is separate from the Power Authority and is held by an independent custodian for the exclusive benefit of the OPEB Trust beneficiaries and not of the Power Authority. The ownership of the OPEB Trust assets is held by the independent custodian at all times and the OPEB Trust assets are not considered funds or assets of the Power Authority for any purpose. All the OPEB Trust assets are irrevocably dedicated to and are used for the exclusive purpose of, making payments of benefits to or for the benefit of the Power Authority OPEB Plan beneficiaries and for paying administrative expenses of the Power Authority OPEB Plan and the OPEB Trust and will not be available to any creditors of the Power Authority. The OPEB Trust does not issue a stand-alone financial report and its financial statements are reported as a fiduciary fund in the Authority’s financial report.

The Canal Corporation provides health care and death benefits for eligible retired employees. Substantially all employees may become eligible for these benefits if they reach normal retirement age while working for the Canal Corporation. The Canal Corporation participates, pursuant to the provision of Section 163(4) of the New York State Civil Service Law, in the New York State Health Insurance Program (NYSHIP). NYSHIP does not issue a standalone financial report since there are no assets legally segregated for the sole purpose of paying benefits under the plan.

The Authority’s net OPEB liability was measured as of June 30, 2023. Actuarial valuations are performed every two years. For purposes of measuring the net OPEB liability, deferred outflows of resources and deferred inflows of resources related to OPEB, and OPEB expenses, information about the fiduciary net position of the OPEB Trust and additions to/deductions from OPEB Trust’s fiduciary net position have been determined on the same basis as they are reported by the Authority OPEB Plan as of the same measurement date. For this purpose, the Authority OPEB Plan recognizes benefit payments when due and payable in accordance with the benefit terms. Investments are reported at fair value, except investments that have a maturity at the time of purchase of one year or less, which are reported at cost.

(u) **Accounting Pronouncements**

GASB issued GASB Statement No. 87 (“GASB No. 87”), *Leases*, which were effective for fiscal years beginning after June 15, 2021, before issuance of GASB Statement No. 95 (“GASB No. 95”). GASB No. 87 requires recognition of certain lease assets and liabilities for leases that previously were classified as operating leases and recognized as inflows or outflows of resources based on payment provisions of the contract. It establishes a single model for lease

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

accounting based on the foundational principle that leases are financings of the right to use an underlying asset. Under GASB No. 87, a lessee is required to recognize a lease liability and an intangible right-to-use lease asset, and a lessor is required to recognize a lease receivable and a deferred inflow of resources. The Authority adopted GASB No. 87 at January 1, 2022, and recognized a lease liability and an intangible right-to-use lease asset for certain of its leases that were reported as operating and capital leases under the previous accounting standards (Refer to Note 18(e)).

GASB issued GASB Statement No. 93 (“GASB No. 93”) *Replacement of Interbank Offered Rates*, which originally had an effective date for reporting periods beginning after June 15, 2020. This effective date was postponed to periods beginning after June 15, 2021, due to the issuance of GASB No.95. Some governments have entered into agreements in which variable payments made or received depend on an interbank offered rate (IBOR)—most notably, the London Interbank Offered Rate (LIBOR). As a result of global reference rate reform, LIBOR ceased to exist effective June 30, 2023, prompting governments to amend or replace financial instruments to replace LIBOR with other reference rates, by either changing the reference rate or adding or changing fallback provisions related to the reference rate. GASB 93’s objective is to address those and other accounting and financial reporting implications that result from the replacement of an IBOR. The Authority, based on its evaluation, believes GASB No. 93 has no material impact on its consolidated financial statements.

GASB Issued GASB Statement No. 94 (“GASB No. 94”), *Public-Private and Public-Public Partnerships and Availability Payment Arrangements*, which was effective for fiscal years beginning after June 15, 2022. GASB No. 94 governs transactions wherein a government and another entity (government or private) enter into an arrangement wherein the other entity is given rights to use an underlying capital asset to provide public service for a determined amount of time, in exchange for consideration. The Authority, based on its evaluation, believes GASB No. 94 has no material impact on its consolidated financial statements.

GASB Issued GASB Statement No. 96 (“GASB No. 96”), *Subscription-Based Information Technology Arrangements*, which was effective for reporting periods beginning after June 15, 2022. GASB No. 96 requires recognition of certain subscription assets and liabilities for Subscription-based information Technology Arrangements (SBITA) which were previously either capitalized or expensed. GASB No. 96 defines a subscription-based technology arrangement as a contract that conveys control of the right to use a vendor’s software, alone or in combination with tangible capital assets. It establishes that an SBITA results in a right-to-use subscription asset and a corresponding subscription liability. The Authority adopted GASB No. 96 on January 1, 2023. Refer to Note 18(f) of notes to the consolidated financial statements on SBITA for the impact on the Authority’s financial statements.

GASB Issued GASB Statement No.99 (“GASB No. 99”), *Omnibus 2022*, which was partly effective for reporting periods beginning after June 15, 2022, and partly effective for reporting periods beginning after June 15, 2023. The primary objective of this statement is to enhance comparability in accounting and financial reporting and to improve the consistency of authoritative literature by addressing (a) practice issues that have been identified during the implementation and application of certain GASB Statements and (b) accounting and financial reporting for financial guarantees. The Authority, based on its evaluation, believes GASB No. 99 has no material impact on its consolidated financial statements.

GASB Issued GASB Statement No. 100 (“GASB No. 100”), *Accounting Changes and Error Corrections*, which is effective for reporting periods beginning after June 15, 2023. The primary objective of this Statement is to enhance the accounting and financial reporting requirements for accounting changes and error corrections to provide more understandable, reliable, relevant, consistent, and comparable information for making decisions or assessing accountability. The Authority will adopt and appropriately reflect the provisions of GASB No. 100 on its consolidated financial statements.

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

GASB Issued GASB Statement No. 101 (“GASB No. 101”), *Compensated Absences*, which is effective for reporting periods beginning after December 15, 2023. The objective of this Statement is to better meet the information needs of financial statement users by updating the recognition and measurement guidance for compensated absences. That objective is achieved by aligning the recognition and measurement guidance under a unified model and by amending certain previously required disclosures. The Authority will adopt and appropriately reflect the provisions of GASB No. 101 on its consolidated financial statements.

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

(5) Power Authority's Bond Resolutions and Related Matters

On February 24, 1998, the Power Authority adopted its "General Resolution Authorizing Revenue Obligations" (as amended and supplemented, the "General Bond Resolution"). The General Bond Resolution covers all of the Power Authority's projects, which it defines as any project, facility, system, equipment or material related to or necessary or desirable in connection with the generation, production, transportation, transmission, distribution, delivery, storage, conservation, purchase or use of energy or fuel, whether owned jointly or singly by the Power Authority, including any output in which the Power Authority has an interest authorized by the Act or by other applicable State statutory provisions, provided, however, that the term "Project" shall not include any Separately Financed Project as that term is defined in the General Bond Resolution. The Power Authority has covenanted with bondholders under the General Bond Resolution that at all times the Power Authority shall maintain rates, fees, or charges, and any contracts entered into by the Power Authority for the sale, transmission, or distribution of power shall contain rates, fees or charges sufficient together with other monies available therefore (including the anticipated receipt of proceeds of sale of Obligations, as defined in the General Bond Resolution, issued under the General Bond Resolution or other bonds, notes or other obligations or evidences of indebtedness of the Power Authority that will be used to pay the principal of Obligations issued under the General Bond Resolution in anticipation of such receipt, but not including any anticipated or actual proceeds from the sale of any Project), to meet the financial requirements of the General Bond Resolution. Revenues of the Power Authority (after deductions for operating expenses and reserves, including reserves for working capital, operating expenses, or compliance purposes) are applied first to the payment of, or accumulation as a reserve for payment of, interest on and the principal or redemption price of Obligations issued under the General Bond Resolution and the payment of Parity Debt issued under the General Bond Resolution.

The General Bond Resolution also provides for withdrawal for any lawful corporate purpose as determined by the Power Authority, including but not limited to the retirement of Obligations issued under the General Bond Resolution, from amounts in the Operating Fund in excess of the operating expenses, debt service on Obligations and Parity Debt issued under the General Bond Resolution, and subordinated debt service requirements.

Collateral - Under the Power Authority's General Bond Resolution, a Trust Estate was created and pledged for the payment of the principal and redemption price of, and interest on, the Power Authority's Obligations issued under the General Bond Resolution, and, on a parity basis, other Parity Debt as defined in the General Bond Resolution. The Power Authority's subordinated debt, including the Commercial Paper Notes, loans issued under the 2019 Revolving Credit Agreement and 2020 Hybrid Credit Agreement described below, the Extendible Municipal Commercial Paper Notes, the Subordinated 2012 Notes, and Subordinated 2017 Notes, are not Obligations under the General Bond Resolution but share a subordinated lien in the Trust Estate. The Trust Estate means, collectively: (i) all Revenues (as defined in the General Bond Resolution, which excludes revenues from Separately Financed Projects) of the Power Authority; (ii) the proceeds of the sale of Obligations until expended for the purposes authorized in the supplemental resolution authorizing the issuance of such Obligations; (iii) all funds, accounts, and subaccounts established by the General Bond Resolution, including investment earnings thereon; and (iv) all funds, money, and securities and any and all other rights and interests in property, whether tangible or intangible, conveyed as and for additional security pursuant to the General Bond Resolution by the Power Authority, or by anyone on its behalf, or with its written consent, to the Trustee.

Events of Default/Termination - Pursuant to the General Bond Resolution, upon an Event of Default so long as such Event of Default shall not have been remedied, either the Trustee or the owners of 25% in principal amount of the Obligations then outstanding may declare the principal and accrued interest on all Obligations due and payable immediately.

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

Under the 2019 Revolving Credit Agreement (“2019 RCA”) supporting the Power Authority’s Commercial Paper Series 1, Series 2 and Series 3A, in the case of an Event of Default (as defined in the 2019 RCA), the lenders holding 66 2/3% of the commitments thereunder will be able to: terminate their commitments; direct the Power Authority to cease issuing Commercial Paper Notes; and declare the principal and accrued interest on obligations under the 2019 RCA due and immediately payable.

Under the 2020 Revolving Credit Agreement and 2020 Note Purchase Agreement (together, the “2020 Hybrid Credit Agreement”) supporting the Power Authority’s Commercial Paper Notes Series 3B and 4 and/or Direct Purchase Note(s), in the case of an Event of Default (as defined in the 2020 Hybrid Credit Agreement), the sole lender under the 2020 Hybrid Credit Agreement holding 100% of the commitment thereunder will be able to: terminate its commitment; direct the Power Authority to cease issuing Commercial Paper Notes; and declare the principal and accrued interest on obligations under the 2020 Hybrid Credit Agreement due and immediately payable. There were no events of default during 2023.

Transmission Bond Resolution Related Matters (SFP)

Collateral - Under the Power Authority’s Transmission Bond Resolution, a Trust Estate was created and pledged for the payment of the principal and redemption price of, and interest on, the SFP Obligations issued under the Transmission Bond Resolution, and on a parity basis, other Parity Debt as defined in the Transmission Bond Resolution. The Trust Estate means, collectively: (i) all SFP Transmission Revenues; (ii) the proceeds of the sale of SFP Transmission Obligations until expended for the purposes authorized by Supplemental Resolution authorizing such SFP Transmission Obligations; (iii) all funds, accounts, and subaccounts established by the Resolution, including investment earnings thereon; and (iv) all funds, money, and securities and any and all other rights and interests in property, whether tangible or intangible, from time to time hereafter by delivery or by writing of any kind conveyed, mortgaged, pledged, assigned, or transferred as and for additional security hereunder for the SFP Transmission Obligations by the Power Authority, or by anyone on its behalf, or with its written consent, to the Trustee, which is hereby authorized to receive any and all such property at any and all times, and to hold and apply the same subject to the terms hereof.

(6) Cash and Investments

Investment of the Authority’s funds is administered in accordance with the applicable provisions of the General Bond Resolution and the Authority’s investment guidelines. These guidelines comply with the New York State Comptroller’s investment guidelines for public authorities and were adopted pursuant to Section 2925 of the New York Public Authorities Law.

Investment of the Authority’s Separately Financed Project (“SFP”) funds is administered in accordance with the applicable provisions of the Transmission Bond Resolution.

Investment of the Captive is administered in accordance with the applicable provisions of the Captive Insurance Investment Policy Statement.

(a) *Investment Credit Risk*

The Authority’s investments under the General Bond Resolution and Guidelines for the Investment of Funds are restricted to (a) authorized collateralized certificates of deposit, Certificate of Deposit Account Registry Service (“CDARS”) program or similar FDIC-insured, reciprocal products, time deposits and money market funds (money market funds shall not exceed 40% of the Authority’s invested funds and no more than \$50 million invested in any one fund), (b) direct obligations of or obligations guaranteed by the United States of America or the State of New York, (c) obligations issued or guaranteed by certain specified federal

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

agencies and any agency controlled by or supervised by and acting as an instrumentality of the United States government, and (d) obligations of any state or any political subdivision thereof or any agency, instrumentality or local government unit of any such state or political subdivision which is rated in any of the three highest long-term rating categories, or the highest short-term rating category, by nationally recognized rating agencies, (e) Repurchase and reverse repurchase agreements (“Repurchase Agreements”), including “gestation” repurchase agreements of treasury or agency-backed collateral with a physical trust certificate from a FINRA-licensed broker dealer, and (f) Guaranteed Investment Contracts or GIC Funds issued by creditworthy insurance companies and collateralized by issuer’s general or separate account assets, with no more than \$50 million invested in any one contract or fund. The Authority’s investments in the senior debt securities of Federal National Mortgage Association (FNMA), Federal Home Loan Bank (FHLB), Federal Farm Credit Bank (FFCB) Federal Agricultural Mortgage Corporation (FAMC) and Federal Home Loan Mortgage Corporation (FHLMC) were rated Aaa by Moody’s Investors Services (Moody’s), AAA by Fitch Ratings (Fitch) and AA+ by Standard & Poor’s (S&P).

Permitted investments under Transmission Bond Resolution are similar to those investment types stated for the Authority.

Permitted investments for Captive under the NYPA Captive Insurance Investment Policy Statement are similar to those types stated for the Authority with the additional inclusion of Collateralized Loan Obligations (“CLOS”) with a rating of AA or higher; Corporate equity investments in domestic common and preferred stocks and publicly traded REIT funds; and Mortgage-backed securities and Collateralized Mortgage Obligations with a rating of AA or higher.

Investments are reported in the consolidated statements of net position at fair value, using quoted market prices.

(b) Interest Rate Risk

Securities that are the subject of repurchase agreements or reverse repurchase agreements must have a market value at least equal to the cost of the investment. The agreements are limited to a maximum fixed term of 30 days and may not exceed \$250 million and \$50 million with any one dealer or bank. Monies will not be invested for terms in excess of the projected use of funds. As of December 31, 2023, the Authority had \$45 million invested in repurchase agreements.

Provisions applicable to the Authority apply to both SFP and Captive for interest rate risk coverage.

(c) Concentration of Investment Credit Risk

There is no limit on the amount that the Authority may invest in any one issuer; however, investments in authorized certificates of deposit shall not exceed 25% of the Authority’s invested funds and shall not exceed \$25 million from any one bank. On December 31, 2023, the Authority’s (excluding SFP and Captive) total investment portfolio of \$1,118 million, includes investments of \$111 million (10%), \$119 million (11%), \$140 million (13%), \$161 million (14%) and \$587 million (52%) in securities of FNMA, FHLMC, FHLB, GNMA, and other various U.S. Treasuries, Guaranteed Investment Contracts, and Municipal securities, respectively.

NEW YORK POWER AUTHORITY*(A Component Unit of the State of New York)*

Notes to the Consolidated Financial Statements

December 31, 2023

At December 31, 2023, the SFP's total investment portfolio of \$341 million, includes investments of \$285 million (84%) and \$56 million (16%) in securities of FHLB and U.S. Treasuries, respectively.

On December 31, 2023, the Captive's total investment portfolio of \$74 million includes investments of \$13 million (18%), \$10 million (14%), \$8 million (11%), and \$43 million (57%) in securities of FHLMC, FHLB, GNMA, and taxable Municipal bonds and other securities, respectively.

(d) Cash and Cash Equivalents

All investments are held by designated custodians in the name of the Authority. The Authority had \$45 million invested in a Repurchase Agreement and \$315 million invested in money market funds.

The SFP had \$134 million invested in money market funds.

All investments are held by designated custodians in the name of the Captive. The Captive had \$31 million invested in money market funds.

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

Total Cash and Investments of the Authority on a consolidated basis is \$2 billion at December 31, 2023:

Investments (NYPA and Canals)

<u>December 31, 2023</u>	<u>Total</u>	<u>Restricted</u>	<u>Capital fund</u>	<u>Unrestricted</u>
		(in millions)		
Cash and investments:				
Cash and cash equivalents	<u>\$ 315</u>	<u>\$ 1</u>	<u>\$ 3</u>	<u>\$ 311</u>
U.S. government:				
U.S. Treasury bills	221	13	-	208
U.S. Treasury notes	<u>132</u>	<u>-</u>	<u>-</u>	<u>132</u>
	<u>353</u>	<u>13</u>	<u>-</u>	<u>340</u>
Other debt securities:				
FNMA	111	-	23	88
FHLMC	119	-	-	119
FHLB	140	-	31	109
GNMA	161	-	19	142
All other	<u>234</u>	<u>-</u>	<u>10</u>	<u>224</u>
	<u>765</u>	<u>-</u>	<u>83</u>	<u>682</u>
Total investments	<u>1,118</u>	<u>13</u>	<u>83</u>	<u>1,022</u>
Total cash and investments	<u>\$1,433</u>	<u>\$14</u>	<u>\$86</u>	<u>\$1,333</u>
Summary of maturities (years):				
0 - 1	445	\$13	\$ 7	\$ 425
1 - 5	281	-	34	247
5 - 10	144	-	-	144
10+	<u>248</u>	<u>-</u>	<u>42</u>	<u>206</u>
	<u>\$1,118</u>	<u>\$13</u>	<u>\$83</u>	<u>\$1,022</u>

- I. The Authority's General Bond Resolution authorized the establishment of an Operating Reserve in an amount necessary to support the Authority's operations. The Trustees established the Operating Reserve level and Debt Service Reserve by resolution. As of December 31, 2023, the Power Authority's total cash and investments of \$1.4 billion included a \$175 million Operating Reserve for working capital and emergency repairs and a \$90 million Debt Service Reserve to pay debt service on General Bond Resolution obligations. See the section "Authority's General Resolution Fund Requirements" in MD&A for detailed note on the Authority's Fund Requirements.
- II. As of December 31, 2023, restricted funds include primarily the Petroleum Overcharge Restitution (POCR) fund (\$7 million), ConnectALL Fund (\$1 million), and Others (\$6 million).

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

Investments (SFP)

December 31, 2023	Total	Capital fund (in millions)	Unrestricted
Cash and investments:			
Cash and cash equivalents	\$ 134	\$ 38	\$ 96
U.S. government:			
U.S. Treasury bills	-	-	-
U.S. Treasury notes	56	56	-
	56	56	-
Other debt securities:			
FNMA	-	-	-
FHLMC	-	-	-
FHLB	285	271	14
GNMA	-	-	-
All other	-	-	-
	285	271	14
Total investments	341	327	14
Total cash and investments	\$475	\$365	\$110
Summary of maturities (years):			
0 - 1	220	220	-
1 - 5	121	107	14
5 - 10	-	-	-
10+	-	-	-
	\$341	\$327	\$ 14

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

Investments (Captive)

December 31, 2023	Total	Capital fund (in millions)	Unrestricted
Cash and investments:			
Cash and cash equivalents	\$ 31	\$ -	\$ 31
U.S. government:			
U.S. Treasury bills	-	-	-
U.S. Treasury notes	-	-	-
Other debt securities:			
FNMA	-	-	-
FHLMC	13	-	13
FHLB	10	-	10
GNMA	8	-	8
All other	43	-	43
Total investments	74	-	74
Total cash and investments	\$ 105	\$ -	\$ 105
Summary of maturities (years):			
0 - 1	-	-	-
1 - 5	-	-	-
5 - 10	54	-	54
10+	20	-	20
	\$ 74	\$ -	\$ 74

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

(7) Capital Assets

The following schedule summarizes the capital assets activity of the Authority for the year ended December 31, 2023.

Capital Assets (NYPA and Canals)

	<u>Beginning balance</u>	<u>Additions</u>	<u>Retirements/Transfers</u>	<u>Ending balance</u>
			(in millions)	
Capital assets, not being depreciated:				
Land	\$ 193	\$ -	\$ -	\$ 193
Construction in progress	834	670	(966)	538
Total capital assets not being depreciated	<u>1,027</u>	<u>670</u>	<u>(966)</u>	<u>731</u>
Capital assets, being depreciated:				
Production - Hydro	2,449	31	-	2,480
Production - Gas turbine/combined cycle	1,251	12	-	1,263
Transmission	2,715	223	(69)	2,869
General	1,653	143	(100)	1,696
Energy Storage	-	35	-	35
Canal System	977	27	-	1,004
Total capital assets being depreciated	<u>9,045</u>	<u>471</u>	<u>(169)</u>	<u>9,347</u>
Less accumulated depreciation for:				
Production - Hydro	1,030	51	-	1,081
Production - Gas turbine/combined cycle	893	33	-	926
Transmission	1,413	48	(69)	1,392
General	609	88	(100)	597
Energy Storage	-	3	-	3
Canal System	311	47	-	358
Total accumulated depreciation	<u>4,256</u>	<u>270</u>	<u>(169)</u>	<u>4,357</u>
Net value of capital assets being depreciated	<u>4,789</u>	<u>201</u>	<u>-</u>	<u>4,990</u>
Net value of all assets	<u>\$ 5,816</u>	<u>\$ 871</u>	<u>\$ (966)</u>	<u>\$ 5,721</u>

Capital Assets (SFP)

Capital Assets, \$1,187 million, consisting of Construction Work in progress of \$270 million for Smart Path Connect and transmission assets in service of \$917 million (Central East Energy Connect \$224 million, Smart Path \$477 million, and Smart Path Connect \$216 million).

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

(8) Long-Term and Short-Term Debt

	Amount 2023 (in millions)	Interest Rate (a)	Maturity	Earliest redemption date prior to maturity	
Senior debt:					
Revenue Bonds (Tax-Exempt):					
Series 2020A Revenue Bonds:					
Term Bonds	\$1,121	3.250% to 4.000%	11/15/2045 - 2060	**	5/15/2030
Revenue Bonds (Taxable):*					
Series 2003A Revenue Bonds:					
Term Bonds	117	5.649% to 5.749%	11/15/2028 - 2033	**	Any date
Series 2007B Revenue Bonds:					
Term Bonds	122	5.905%	11/15/2037	**	Any date
Series 2020B Revenue Bonds:					
Term Bonds	114	2.818%	11/15/2039	**	Any date
	<u>1,474</u>				
 Add: unamortized premium and discount	 <u>60</u>				
 Long-term senior debt	 1,534				
Less: due within one year	<u>15</u>				
 Long-term senior debt, net of due within one year	 <u>\$1,519</u>				

(a) interest rate at issuance
* All outstanding taxable term bonds are subject to Make-Whole Call provisions
** Bonds are subject to sinking fund provisions

Interest on Series 2003A, 2007B, and 2020B Revenue Bonds and Subordinated Notes, Series 2012 and Subordinated Notes, Series 2017 is not excluded from gross income for bondholders’ Federal income tax purposes.

On December 27, 2023, the Power Authority deposited with The Bank of New York Mellon, as Trustee for its \$88 million Series 2007B Revenue Bonds maturing November 15, 2043 (the “Defeased Bonds”) issued under Authority’s General Bond Resolution, \$108 million consisting of cash and non-callable direct obligations of the United States the principal of and interest on which when due, together with any portions of such money held, are sufficient to pay when due the maturing principal of and interest due on the Defeased Bonds. The securities were acquired with only existing resources and deposited in an irrevocable trust fund (“Escrow Fund”) with the Trustee. The Defeased Bonds are deemed to have been paid with the establishment of the Escrow Fund and having complied with the other applicable provisions of the General Bond Resolution. The defeasance generated \$16.8 million of present value savings or 19%. In total, the Power Authority eliminated \$181 million of future principal and interest at a cost of \$108 million.

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

	Amount 2023 (in millions)	Interest Rate (a)	Maturity	Earliest redemption date prior to maturity
Subordinate debt:*				
Subordinated Notes, Series 2017	\$21	3.466% to 4.272%	2027 to 2041**	N/A
Subordinated Notes, Series 2012	16	2.850% to 4.050%	2024 to 2037**	N/A
	37			
Less: due within one year	2			
Long-term subordinate debt, net of due within one year	\$35			

(a) interest rate at issuance
* All outstanding subordinated notes are taxable
** Bonds are subject to sinking fund provisions

The Revenue Bonds outstanding as of December 31, 2023, have an average coupon rate of 4.18% (average yield rate of 3.64%) and mature through 2060.

As indicated in Note 5 “Authority’s Bond Resolutions and Related Matters” of the notes to the consolidated financial statements, the Power Authority has pledged future revenues to service the Obligations and Parity Debt (Revenue Bonds) issued under the General Bond Resolution. The total principal and interest remaining to be paid on the Revenue Bonds is \$3 billion as of December 31, 2023. Interest paid in 2023 was \$66 million.

Revenue Bonds are subject to redemption prior to maturity in whole or in part as provided in the supplemental resolutions authorizing the issuance of each series of bonds, beginning for each series on the date indicated in the table above, at principal amount or at various redemption prices according to the date of redemption, together with accrued interest to the redemption date.

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

Maturities and Interest Expense:	<u>Long-Term Debt</u> (in millions)		
	<u>Principal</u>	<u>Interest</u>	<u>Total</u>
Years ending December 31:			
2024	\$17	\$63	\$80
2025	17	62	79
2026	18	61	79
2027	19	60	79
2028 - 2032	114	281	395
2033 - 2037	150	248	398
2038 - 2042	147	219	366
2043 - 2047	249	184	433
2048 - 2052	298	128	426
2053 - 2057	299	68	367
2058 - 2060	183	14	197
	<u>1,511</u>	<u>1,388</u>	<u>2,899</u>
Plus: unamortized bond premium	60	0	60
Total	<u>\$1,571</u>	<u>\$1,388</u>	<u>\$2,959</u>

Capitalized Interest

On issuance of the Series 2020A bonds the Power Authority raised \$114 million for interest payments related to these bonds. These interest payments are capitalized against specific assets under construction funded utilizing the bond offerings.

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

Long-Term Debt (Separately Financed Projects)

	Amount 2023 (in millions)	Interest Rate (a)	Maturity	Earliest redemption date prior to maturity
Series 2022A Transmission Revenue Bonds:				
Serial bonds	\$337	4.000% to 5.000%	11/15/2024 to 11/15/2042	11/15/2031
Term bonds	271	3.875% to 4.000%	11/15/2047 to 11/15/2061*	11/15/2031
Principal amount outstanding	608			
Series 2023A Transmission Revenue Bonds:				
Serial bonds	367	5.000% to 5.250%	11/15/2026 to 11/15/2043	11/15/2033
Term bonds	367	5.000% to 5.125%	11/15/2048 to 11/15/2063*	11/15/2033
Principal amount outstanding	734			
Add: unamortized premium and discount	65			
Long-term SFP debt	1,407			
Less: due within one year	16			
Long-term SFP debt, net of due within one year	\$1,391			

(a) interest rate at issuance
* Bonds are subject to sinking fund provisions

The Transmission Resolution Revenue Bonds outstanding as of December 31, 2023, have an average coupon rate of 4.74% (average yield rate of 3.92%) and mature through 2063. As indicated in the “Transmission Bond Resolution Related Matters” section in Note 5 of the notes to the consolidated financial statements, the Power Authority has pledged future revenues generated by the assets that are funded by the bond proceeds to service the Obligations issued under the Transmission Bond Resolution. The total principal and interest remaining to be paid on the Transmission Resolution Revenue Bonds is \$2.6 billion as of December 31, 2023. On issuance of the Series 2022A Bonds, the Power Authority raised \$28 million for interest payments related to these bonds. On the issuance of the Series 2023A Bonds, the Power Authority raised \$42 million for interest payments related to these bonds. For 2023, interest expense was \$31 million for the Transmission Resolution Revenue Bonds.

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

Maturities and Interest Expense:

Long-Term Debt

(in millions)

	<u>Principal</u>	<u>Interest</u>	<u>Total</u>
Years ending December 31:			
2024	\$16	\$64	\$80
2025	20	63	83
2026	34	62	96
2027	57	60	117
2028 - 2032	204	263	467
2033 - 2037	178	218	396
2038 - 2042	176	176	352
2043 - 2047	172	136	308
2048 - 2052	166	97	263
2053 - 2057	159	60	219
2058 - 2063	160	25	185
	<u>1,342</u>	<u>1,224</u>	<u>2,566</u>
Plus: unamortized bond premium	65	0	65
Total	<u>\$1,407</u>	<u>\$1,224</u>	<u>\$2,631</u>

Subordinate Debt:

- (a) **Subordinate Notes** – In 2016, the Authority’s Trustees authorized the issuance of Subordinated Notes, Series 2017 (Subordinated Notes, Series 2017) and in 2012, the Authority’s Trustees authorized the issuance of Subordinated Notes, Series 2012 (Subordinated Notes, Series 2012), in a principal amount not to exceed \$30 million for each note for the purpose of accelerating the funding for the State Parks Greenway Fund, which was established pursuant to the Niagara Relicensing Settlement entered into by the Authority and the New York State Office of Parks, Recreation & Historic Preservation in connection with the Niagara Project’s relicensing. These Subordinated Notes, Series 2017 and Series 2012 are subordinate to the Revenue Bonds Series 2003A, the Series 2007B, and the Series 2020A and 2020B.
- (b) **Commercial Paper** – Under the Extendible Municipal Commercial Paper (“EMCP”) Note Resolution, adopted December 17, 2002, and as subsequently amended and restated, the Power Authority may issue a series of notes, designated EMCP Notes, Series 1, maturing not more than 270 days from the date of issue, up to a maximum amount outstanding at any time of \$200 million (“EMCP” Notes). There are no outstanding notes under the EMCP program as of December 31, 2023.

Under the provisions of the Second Amended and Restated Resolution Authorizing Commercial Paper Notes, adopted by the Power Authority on March 30, 2021, and the Certificate of Determination dated June 28, 2022, the Power Authority may issue from time to time a separate series of notes (“CP Notes”) maturing not more than 270 days from the date of issue, up to a maximum amount outstanding at any time of \$225 million (Series 1 CP Notes), \$275 million (Series 2 CP Notes), \$450 million (Series 3A (\$300 million) & 3B (\$150 million) CP Notes), and Series 4 (which currently has zero allocation). There were no Series 3A, Series 3B, and Series 4 CP Notes outstanding as of December 31, 2023. The Power Authority

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

intends to use the proceeds of the Series 1, certain Series 2, and Series 3A and 3B CP Notes to finance the Authority’s current and future energy efficiency programs and for other corporate purposes.

The Power Authority determines the rate for each rate period which is the minimum rate necessary to remarket the notes at par in the Dealer’s opinion.

Market access risk – The Power Authority remarkets its CP Notes on a continuous basis. Should the market experience a disruption or dislocation, the Power Authority may be unable to remarket its Notes for a period of time. To mitigate this risk, the Power Authority has entered into liquidity facilities with highly rated banks to provide loans to support the CP Note programs.

The Power Authority has a line of credit under a 2019 Revolving Credit Agreement (the “2019 RCA”), with a syndicate of banks, to provide liquidity support for the Series 1, Series 2, and Series 3A CP Notes, under which the Power Authority may borrow up to \$700 million in aggregate principal amount outstanding at any time for certain purposes, including the repayment of the Series 1, Series 2, and Series 3A CP Notes. The 2019 RCA was extended by amendment for a three-year period to January 12, 2026. As of December 31, 2023, there were no outstanding borrowings under the 2019 RCA.

The Power Authority has a Revolving Credit Agreement (the “2020 RCA”) and Note Purchase Agreement (the “Note Purchase Agreement”) effective April 22, 2020, each between the Power Authority, and a single bank as Administrative Agent and sole lender thereunder (collectively the “Hybrid Credit Agreement”). The Power Authority is able to borrow up to \$250 million in aggregate principal amount outstanding at any time under the Hybrid Credit Agreement. The Power Authority is able to borrow amounts under the 2020 RCA for the repayment of the Series 3B and Series 4 CP Notes. Under the Note Purchase Agreement, the Power Authority may issue Direct Purchase Notes to the lender thereunder or request the issuance of Letters of Credit, subject to a sublimit of up to \$150 million. As of December 31, 2023, the Power Authority had no outstanding amount under its Hybrid Credit Agreement. The Power Authority and JPMorgan have executed an amendment to extend the Hybrid Credit Agreements for an additional three-year period. The Revolving Credit Agreement and Note Purchase Agreement expire on April 10, 2026.

As of December 31, 2023, the Power Authority had no outstanding balance on account of Direct Purchase Note under its Note Purchase Agreement connected to its Hybrid Credit Agreements.

The CP Notes, EMCP Notes, and Direct Purchase Notes are subordinate to the Revenue Bonds Series 2003A, Series 2007B, Series 2020A, and 2020B.

Interest on the Series 3A and 3B CP Notes is subject to taxation for Federal income tax purposes.

CP Notes (short-term portion) outstanding were as follows:

<u>Authorized</u>	<u>December 31, 2023</u>	
	<u>Allocated</u>	<u>Outstanding</u>
	(in millions)	
CP Notes (Series 1)	\$225	\$100
CP Notes (Series 2)	275	127
CP Notes (Series 3A)	300	-
CP Notes (Series 3B)	150	-
CP Notes (Series 4)	-	-

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

The changes in short-term debt are as follows:

	<u>Beginning Balance</u>	<u>Increases</u>	<u>Decreases</u>	<u>Ending balance</u>
		(in millions)		
Year:				
2023	\$179	139	91	\$227

Debt Service coverage (“DSCR”)

The Power Authority calculates the debt service coverage ratio based on EBIDA. All debt-related principal and interest payments are included for coverage.

For 2023, interest of \$19 million was funded with proceeds from the Series 2020A Revenue Bonds.

Also, for 2023, interest of \$13 million was funded with proceeds from Series 2022A Green Transmission Project Revenue Bonds.

DSCR for the Power Authority’s General Bond Resolution for 2023 (excluding capitalized interest) was 6.15x excluding Separately Financed Project (“SFP”).

DSCR for the Power Authority’s General Bond Resolution for 2023 (including capitalized interest) was 8.48x excluding Separately Financed Project (“SFP”).

For the Transmission Bond Resolution, DSCR (excluding capitalized interest) is 3.06x for the bond year ending November 15, 2023.

For the Transmission Bond Resolution, DSCR (including capitalized interest) is 6.12x for the bond year ending November 15, 2023.

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

(9) Changes in Noncurrent Liabilities

Changes in the Authority's noncurrent liabilities for the year ended December 31, 2023, are comprised of the following:

	<u>Beginning balance</u>	<u>Additions</u>	<u>Maturities/ refundings and other</u> (in millions)	<u>Ending balance</u>	<u>Due within one year</u>
Senior debt:					
Revenue bonds	\$ 1,562	\$ -	\$ 103	\$ 1,459	\$ 15
Subtotal	<u>1,562</u>	<u>-</u>	<u>103</u>	<u>1,459</u>	<u>15</u>
Subordinate debt:					
Subordinated Notes, Series 2017	20	-	2	18	1
Subordinated Notes, Series 2012	18	-	1	17	1
Commercial paper	-	-	-	-	-
Subtotal	<u>38</u>	<u>-</u>	<u>3</u>	<u>35</u>	<u>2</u>
Net unamortized discounts/premiums and deferred losses	<u>62</u>	<u>-</u>	<u>2</u>	<u>60</u>	<u>-</u>
Total debt, net of unamortized discounts/premiums and deferred losses	<u>1,662</u>	<u>-</u>	<u>108</u>	<u>1,554</u>	<u>17</u>
Other noncurrent liabilities:					
Disposal of nuclear fuel	233	12	-	245	-
Relicensing	225	-	2	223	-
Other	198	192	33	357	-
Total other noncurrent liabilities	<u>656</u>	<u>204</u>	<u>35</u>	<u>825</u>	<u>-</u>
Total noncurrent liabilities (excluding SFP)	<u>2,318</u>	<u>204</u>	<u>143</u>	<u>2,379</u>	<u>17</u>
Separate Revenue Bonds (SFP):					
Series 2022A Transmission Revenue Bonds	608	-	16	592	16
Series 2023A Transmission Revenue Bonds	-	734	-	734	-
Subtotal	<u>608</u>	<u>734</u>	<u>16</u>	<u>1,326</u>	<u>16</u>
Net unamortized discounts/premiums and deferred losses	<u>51</u>	<u>14</u>	<u>-</u>	<u>65</u>	<u>-</u>
Total debt, net of unamortized discounts/premiums and deferred losses	<u>659</u>	<u>748</u>	<u>16</u>	<u>1,391</u>	<u>16</u>
Total noncurrent liabilities (including SFP)	<u>\$ 2,977</u>	<u>\$ 952</u>	<u>\$ 159</u>	<u>\$ 3,770</u>	<u>\$ 33</u>

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

(10) Risk Management of Commodity Hedging Activities

Overview

The Authority deploys a robust risk management program spanning its enterprise and operational risk profile. Using well-defined governance processes, the escalation of risks and the corresponding risk informed decisions to mitigate, transfer, accept, or avoid risks are consistent with the execution of its strategic vision. For example, the transfer of risk is generally executed through the purchase of insurance coverage for its operations, and in certain instances, is self-insured. Property insurance protects the various real and personal property owned by the Authority and the property of others while in its care, custody, and control for which it may be held liable. Liability insurance protects the Authority from third-party liability related to its operations, including general liability, automobile, aircraft, marine and its officers and directors. The Authority pursues subrogation claims as appropriate against any entities that cause damage to its property.

A key aspect of the Authority's risk management program is to address risk and volatility on cash flows associated with electric energy prices, fuel prices, electric capacity prices and certain non-energy commodity prices. Through its participation in the NYISO and commodity markets, the Authority is subject to electric energy price, fuel price, electric capacity price and certain non-energy commodity price uncertainty that impact the revenue of its facilities and customer market areas. Such market volatility can potentially have adverse effects on the Authority's financial condition. To mitigate potential adverse effects and to moderate cost impacts to its customers (many of the Authority's customer contracts provide for the complete or partial pass-through of these costs), the Authority manages market risks by utilizing financial derivative instruments and/or physical forward contracts. These instruments mitigate the volatility in the cost of energy or related products needed to meet customer needs; the risk related to the price of energy and related products sold; the risk related to margins (electric sales versus fuel use) where the Authority owns generation or other capacity; and to mitigate geographic cost differentials of energy procured or sold for transmission or transportation to an ultimate location. Commodities to be hedged include, but are not limited to, electric energy, electric capacity, congestion costs associated with the transmission of electricity, natural gas, natural gas basis, and non-energy commodities.

To achieve the risk management program objectives, the Authority's Trustees have authorized the use of various derivative instruments for hedging purposes that are considered derivatives under GASB No. 53, *Accounting and Financial Reporting for Derivative Instruments* (GASB No. 53).

The fair values of all Authority derivative instruments are reported in current and noncurrent assets or liabilities on the consolidated statement of net position as risk management activities. For designated hedging derivative instruments, changes in the fair values are deferred and classified as deferred outflows or inflows on the consolidated statement of net position. The fair value for over the counter and exchange-traded energy, fuel, capacity, and non-energy commodity derivative instruments are determined by using the prices published by Standard & Poor's Global Platt's ("Platts"), market sources and observative market pricing and information.

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

Derivative Instruments

The following table shows the fair value of outstanding derivative instruments for 2023:

Derivative instrument description	Fair value balance December 31, 2022	Net change in fair value (in millions)	Fair value balance December 31, 2023	Type of hedge or transaction	Financial statement classification for changes in fair value	Notional amount December 31, 2023	Unit of measure
Energy swaps/futures (sales)	\$ (105)	\$ 72	\$ (33)	Cash flow	Deferred outflow	(5,143,633)	MWh
Energy swaps (purchases)	(1)	(1)	(2)	Cash flow	Deferred outflow	63,716	MWh
Energy capacity futures	(15)	10	(5)	Cash flow	Deferred outflow	(945,000)	KWm
Fuel forwards/swaps	(1)	1	-	Cash flow	Deferred inflow	0	MMBTU
Non-energy commodity swaps	5	(1)	4	Cash flow	Deferred inflow	(39,000)	MT
Non-energy options	22	(16)	6	Cash flow	Deferred inflow	(45,600)	MT
Totals	\$ (95)	\$ 65	\$ (30)				

Energy swaps and futures – The Authority transacts energy swaps and futures to manage the revenue stream from forecasted generation. Net settlement receipts were \$1 million in 2023.

Energy capacity futures – The Authority transacts forward installed capacity futures intended to mitigate the volatility of market prices for transactions in the NYISO markets. Net settlement payments were \$20 million in 2023.

Fuel futures/swaps – The Authority, at times, has outstanding natural gas forward contracts. Net settlement payments were \$1 million in 2023.

Non-energy commodities swaps – The Authority transacts certain non-energy commodities swaps to mitigate volatilities of specific commodity market prices affecting electric rates received from certain customers' energy supply contracts. Net settlement receipts were \$5 million in 2023.

Non-energy commodities options – The Authority transacts certain non-energy options to mitigate volatilities of specific commodity market prices affecting revenues received from certain customers' energy supply contracts. Premium payments were \$3 million during 2023. Settlement Receipts were \$15 million in 2023.

Other – Over the lifetime of each outstanding energy derivative instrument certain derivative instruments may become ineffective due to changes in the hedged item. The change in fair market value of such derivative instruments would be recognized as other nonoperating charges or credits in the statements of revenues, expenses, and changes in net position. In 2023, derivative instruments were determined to be effective.

Counterparty Credit Risk

The Authority imposes thresholds, based upon agency-published credit ratings and/or analysis, for unsecured credit that can be extended to counterparties to the Authority's commodity derivative transactions. The thresholds are established in bilateral credit support agreements with counterparties and require collateralization of mark-to-market values in excess of the thresholds. In addition, the Authority regularly monitors each counterparty's market-implied credit ratings, and the Authority may restrict transactions with counterparties on the basis of that monitoring, even if the applicable unsecured credit threshold is not exceeded.

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

Based upon the fair values as of December 31, 2023, the Authority's individual or aggregate exposure to derivative instrument counterparty credit risk is not significant.

Other Considerations

The Authority from time to time may be exposed to any of the following risks:

Basis risk – The Authority is exposed to basis risk in a portion of its electrical commodity-based swaps where the electrical commodity swap payments received are based upon a reference price in a NYISO Market Zone that differs from the Zone in which the hedged electric energy load is forecasted. If the correlation between these Zones' prices should change, the Authority may be exposed as a result of the inability of the electrical commodity swaps to offset the delivery price of the related energy. Positions are monitored, re-balanced as needed, to manage basis risk.

Termination risk – The Authority or its counterparties may terminate a derivative instrument agreement if either party fails to perform under the terms of the agreement. The risk that such termination may occur at a time which may be disadvantageous to the Authority has been mitigated by including certain terms in these agreements by which the counterparty has the right to terminate only as a result of certain events, which includes a payment default by the Authority; other Authority defaults which remain uncured within a defined time-frame after notice; bankruptcy or insolvency of the Authority (or similar events); or a downgrade of the Authority's credit rating below investment grade. If at the time of termination, the Authority has a liability position related to its hedging derivative instruments, the Authority would be liable to the counterparty for a payment equal to the liability, subject to netting arrangements.

Dodd Frank Act

The Dodd-Frank Wall Street Reform and Consumer Protection Act (DF Act) was enacted to address swap transactions in which the Authority engages. The requirements and processes are set forth in regulations promulgated by the Commodities Futures Trading Commission (CFTC). Pursuant to CFTC rules, the Authority has policies authorizing the use of financial derivatives solely to manage its commercial risk, and in certain instances, the risk of its customers. These CFTC rules are not anticipated to have significant impact on the Authority's liquidity and/or future risk mitigation activities. CFTC DF Act rules are continually reviewed for updates and the Authority will continue to monitor their potential impact on the Authority's liquidity and/or future risk mitigation activities.

(11) Fair Value Measurements

GASB Statement No. 72 establishes a hierarchy of valuation inputs based on the extent to which the inputs are observable in the marketplace. Inputs are used in applying the various valuation techniques and take into account the assumptions that market participants use to make valuation decisions. Inputs may include price information, credit data, interest and yield curve data, and other factors specific to the financial instrument. Observable inputs reflect market data obtained from independent sources. In contrast, unobservable inputs reflect the entity's assumptions about how market participants would value the financial instrument.

The fair value hierarchy prioritizes the inputs used to measure fair value into three broad Levels (Levels 1, 2, and 3), moving from quoted prices in active markets in Level 1 to unobservable inputs in Level 3. A financial instrument's level within the fair value hierarchy (where Level 1 is the highest and Level 3 is the lowest) is based on the lowest level of any input that is significant to the fair value measurement. The categorization of a financial instrument within the fair value hierarchy is based upon pricing transparency and is not necessarily an indication of the Authority's perceived risk of that financial instrument.

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

The following describes the fair value hierarchy of inputs used by the Authority to measure fair value and the primary valuation methodologies used for financial instruments measured at fair value on a recurring basis:

- Level 1 – quoted prices for identical assets or liabilities in active markets that the Authority can access at the measurement date.
- Level 2 – quoted prices other than quoted prices included within Level 1 and other inputs that are observable for an asset or liability, either directly or indirectly.
- Level 3 – pricing inputs are unobservable for the asset or liability and may rely on inputs using the best available data under the circumstances, including the Authority's own data.

The following describes the valuation methodologies used by the Authority for assets and liabilities measured at fair value:

- U.S. government obligations – The fair value is based on institutional bond quotes and evaluations based on various market data/inputs.
- U.S. government agencies and instrumentalities – The fair value of government agencies and instrumentalities are based on institutional bond quotes and evaluations based on various market and industry inputs.
- Corporate obligations – The fair value is based on institutional bond quotes and evaluations on various market and industry inputs.
- Derivative instruments – The Authority hedges market risks through the use of derivative instruments. Derivative instruments are traded on both exchange-based and non-exchange-based markets. A detailed disclosure on derivatives is included in Note 10 "Risk Management and Hedging Activities" of notes to the consolidated financial statements.
 - The fair values for over the counter and/or exchange-traded derivative instruments are determined by the latest end-of-trading-month forward prices over the lifetime of each outstanding derivative instrument using prices published by Platts, market sources and/or internal pricing models.

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

The following tables summarize the Authority's outstanding assets and liabilities, of which there are no Level 3, within the fair value hierarchy at December 31, 2023:

Fair Value Measurements (NYPA and Canals)

December 31, 2023	Fair Value Measurements (in millions)			
	<u>Total</u>	<u>Level 1</u>	<u>Level 2</u>	<u>Level 3</u>
<u>Assets</u>				
Cash and cash equivalents	\$ 315	\$ 315	\$ -	\$ -
Treasury bills	221	155	66	-
Treasury notes	132	132	-	-
Federal agency securities:				
FNMA	111	-	111	-
FHLMC	119	-	119	-
FHLB	140	15	125	-
GNMA	161	-	161	-
Municipal bonds	10	-	10	-
All other	224	158	66	-
Total cash and investments at fair value	1,433	775	658	-
Derivative instruments (a):				
Energy swaps/futures	35	-	35	-
Energy capacity futures	5	-	5	-
Total derivative assets at fair value	40	-	40	-
Total assets at fair value	1,473	775	698	-
<u>Liabilities</u>				
Derivative instruments (a):				
Non-energy swaps/options	10	-	10	-
Total derivative liabilities at fair value	10	-	10	-
Total liabilities at fair value	\$ 10	\$ -	\$ 10	\$ -

(a) The accounting rules for fair value measurements and disclosures require consideration of the impact of nonperformance risk (including credit risk) from a market participant perspective in the measurement of the fair value of assets and liabilities. At December 31, 2023, the Authority determined that nonperformance risk would have no material impact on the financial position or results of operations.

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

Fair Value Measurements (SFP)

December 31, 2023	<u>Fair Value Measurements</u> (in millions)			
	<u>Total</u>	<u>Level 1</u>	<u>Level 2</u>	<u>Level 3</u>
<u>Assets</u>				
Cash and cash equivalents	\$ 134	\$ 134	\$ -	\$ -
Treasury notes	56	56	-	-
Federal agency securities:				
FHLB	285	-	285	-
Total cash and investments at fair value	\$ 475	\$ 190	\$ 285	\$ -

Fair Value Measurements (Captive)

December 31, 2023	<u>Fair Value Measurements</u> (in millions)			
	<u>Total</u>	<u>Level 1</u>	<u>Level 2</u>	<u>Level 3</u>
<u>Assets</u>				
Cash and cash equivalents	\$ 31	\$ 31	\$ -	\$ -
Treasury bills	-	-	-	-
Federal agency securities:				
FNMA	-	-	-	-
FHLMC	13	-	13	-
FHLB	10	-	10	-
GNMA	8	-	8	-
Municipal bonds	23	-	23	-
All other	20	-	20	-
Total cash and investments at fair value	\$ 105	\$ 31	\$ 74	\$ -

(12) Pension Plans

General Information

Substantially all of the Authority's employees participate in the New York State and Local Employees Retirement System (NYSLERS) and the Public Employees' Group Life Insurance Plan (the Plan). These are cost-sharing multiple-employer defined benefit retirement plans.

The NYSLERS uses a tier concept to distinguish membership classes (i.e., tiers 1 through 6) with tier membership based on the date an employee joins the System. The ERS is non-contributory for tiers 1 and 2 employees who joined the NYSLERS on or prior to July 27, 1976. Tiers 3 and 4 employees, who joined the NYSLERS between July 28, 1976, and December 31, 2009, and have less than ten years of service, contribute 3% of their salary. Tier 5 employees who joined the NYSLERS on or after January 1, 2010, contribute 3% of their salary during their entire length of service. Tier 6 employees who joined the NYSLERS on or after April 1, 2012, contribute 3% of their salary through March 31, 2013, and up to 6% thereafter, based on their annual salary, during their entire length of service. Members become vested in the plan after five years of service and generally are eligible to receive benefits at age 55. The benefit is generally 1.67% of final average salary (FAS) times the number of years of service, for members who

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

retire with less than 20 years of service, and 2% of FAS for members who retire with 20 or more years of service. The NYSLERS provides an annual automatic cost of living adjustment to members or surviving spouses based on certain eligibility criteria.

The NYSLERS and the Plan provide retirement benefits as well as death and disability benefits. Obligations of employers and employees to contribute and benefits to employees are governed by the New York State Retirement and Social Security Law (NYSRSSL). As set forth in the NYSRSSL, the Comptroller of the State of New York (Comptroller) serves as sole trustee and administrative head of the NYSLERS and the Plan. The Comptroller adopts and may amend rules and regulations for the administration and transaction of the business of the NYSLERS and the Plan, and for the custody and control of their funds. Under the authority of the NYSRSSL, the Comptroller shall certify annually the rates expressed as proportions of payroll of members, which shall be used in computing the contributions required to be made by employers.

The Authority is required to contribute at an actuarially determined rate. The average contribution rate relative to payroll for the NYSLERS fiscal year ended March 31, 2023, was 11%. The average contribution rates relative to payroll for the NYSLERS fiscal years ending March 31, 2024, and 2025 have been set at approximately 13% and 15%, respectively. The required contributions for 2023 were \$32 million. The Authority's contributions to the NYSLERS were equal to 100% of the required contributions for each year.

The NYSLERS and the Plan issue a publicly available financial report that includes financial statements and required supplementary information. That report may be obtained by writing to the New York State and Local Employees' Retirement System, 110 State Street, Albany, NY 12244 or may be found on the internet at www.osc.state.ny.us/retire/publications/index.php.

Pension Asset, Pension Expense, and Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pensions

At December 31, 2023, the Authority reported a liability of \$175 million for its proportionate share of the net pension liability within other long-term liabilities. The NYSLERS total pension liability, which was used to calculate the NYSLERS net pension liability, was measured by NYSLERS as of March 31, 2023 (measurement date). The Authority's proportion of the net pension liability was based on a projection of the Authority's long-term share of contributions to the pension plan relative to the projected contributions of all participating employers, actuarially determined. The Authority's proportionate share of the net pension liability was 0.81% as of March 31, 2023.

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

For the year ended December 31, 2023, the Authority recognized a pension expense of \$62 million. At December 31, 2023, the Authority reported deferred outflows of resources and deferred inflows of resources related to pensions from the following sources:

	Deferred Outflows	Deferred Inflows
	(in millions)	
Difference between expected and actual experience	\$ 18	\$ 5
Net difference between projected and actual earnings on investments	-	1
Change of assumptions	85	1
Difference between employer contributions and proportionate share of contributions	5	4
date	32	-
Total	\$140	\$11

The \$32 million reported as deferred outflows of resources related to pensions resulting from the Authority’s contributions subsequent to the measurement date will be recognized as a decrease in net pension liability in the year ended December 31, 2024. The other amounts reported as deferred outflows of resources and deferred inflows of resources related to pensions will be recognized as a debit to pension expense as follows (in millions):

	Pension Expense
	Debit
Year Ending December	(in millions)
2024	\$ 23
2025	(9)
2026	36
2027	47
Total	\$ 97

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

Actuarial Assumptions

The NYSLERS total pension liability at March 31, 2023, was determined by using the NYSLERS actuarial valuation as of April 1, 2022, with updated procedures to roll forward the NYSLERS total pension liability to March 31, 2023. The following actuarial assumptions were used for the April 1, 2022, NYSLERS actuarial valuation:

Actuarial cost method:	Entry age normal
Inflation rate:	2.9%
Salary increases:	4.4% annually
Investment rate of return:	5.9% compounded annually, net of investment expenses
Cost of living adjustments:	1.5% annually

The NYSLERS Annuitant mortality rates are based on April 1, 2015 – March 31, 2020, NYSLERS experience with adjustments for mortality improvements based on the Society of Actuaries’ Scale MP-2021.

Long-Term Expected Rate of Return

The NYSLERS long-term expected rate of return on pension plan investments was determined using a building block method in which best estimate ranges of expected future real rates of return (expected returns net of investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. The target allocation and best estimates of arithmetic real rates of return for each major asset class are summarized in the following table:

Asset Type	Target Allocation	Long-term Expected Real Rate
Domestic Equity	32%	4.30%
International Equity	15%	6.85%
Private Equity	10%	7.50%
Real Estate	9%	4.60%
Credit	4%	5.43%
Opportunistic/ ARS Portfolio	3%	5.38%
Real Asset	3%	5.84%
Fixed Income	23%	1.50%
Cash	1%	0.00%
	100%	

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

Discount Rate

The discount rate used to calculate the total pension liability was 5.9 percent. The projection of cash flows used to determine the discount rate assumes that contributions from plan members will be made at the current contribution rates and that contributions from employers will be made at statutorily required rates, actuarially. Based upon the assumptions, the NYSLERS fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

Sensitivity of Proportionate Share of the Net Pension Liability to Changes in the Discount Rate

The following presents the Authority’s proportionate share of the net pension liability (asset) calculated using the discount rate of 5.9 percent, as well as what the Authority’s proportionate share of the net pension liability (asset) would be if it were calculated using a discount rate that is one percentage point lower (4.9 percent) or one percentage point higher (6.9 percent) than the current rate:

	<u>1% Decrease</u>	<u>Current Assumption</u>	<u>1% Increase</u>
Discount rate	4.9%	5.9%	6.9%
The Authority’s proportionate share of the net pension liability	\$422 million	\$175 million	\$(32) million

The NYSLERS actuary has not recommended any future changes to the actuarial assumptions used in the NYSLERS August 2023 actuarial valuation report.

(13) Postemployment Benefits Other Than Pensions, Deferred Compensation and Savings

The Power Authority provides certain health care and life insurance benefits for eligible retired employees and their dependents under a single employer noncontributory (except for certain optional life insurance coverage) health care plan (Power Authority OPEB Plan). Employees and/or their dependents become eligible for these benefits when the employee has reached 55 years of age and has at least 10 years of service and retires or dies while working at the Power Authority. Salaried employees hired after December 31, 2015, and IBEW employees hired after October 15, 2015, become eligible after 15 years of service. In addition, they will be required to contribute 50% of the active plan contribution; there will be no contribution once the transition takes place to the Medicare advantage plan.

The Power Authority has an established trust for OPEB obligations (“OPEB Trust”), with the trust to be held by an independent custodian. Plan members are not required to contribute to the OPEB Trust. The OPEB Trust is set up to pay for the exclusive benefit of the OPEB Trust plan participants. The funding of the Power Authority’s OPEB Trust is at the discretion of management. Changes to the Power Authority OPEB Plan or OPEB Trust agreement are approved by the Authority’s Trustees. The Power Authority made contributions on a pay-as-you-go basis in 2023 and did not contribute any amount beyond these contributions to the OPEB Trust.

The Canal Corporation provides health care and death benefits for eligible retired employees. Substantially all employees may become eligible for these benefits if they reach normal retirement age while working for the Canal Corporation. The Canal Corporation participates, pursuant to the provision of Section 163(4) of the New York State Civil Service Law, in the New York State Health Insurance Program (“NYSHIP”). NYSHIP does not issue a standalone financial report since there are no assets legally

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

segregated for the sole purpose of paying benefits under the plan. To be eligible an employee must (1) retire as a member of Canal Corporation or be at least 55 years old at time of termination; (2) be enrolled in the NYSHIP on date of retirement; and (3) complete at least 5 years of service for the retiree and dependent to have coverage while the employee is living. Ten years of service are needed for continued dependent coverage upon death of the employee. The Plan currently pays a portion of the medical premium cost for retired employees and covered dependents. Additionally, the Plan reimburses retirees and covered dependents for their Medicare Part B premiums.

As of June 30, 2023, measurement date (using December 31, 2021, census information), the following current and former employees were covered by the benefit terms, under the Power Authority Plan. It is assumed that 100% of future retirees who meet the eligibility requirements will participate in the Power Authority OPEB plan.

Active employees	1,964
Inactive employees and beneficiaries, receiving and/or entitled to benefits	<u>2,755</u>
Total	<u>4,719</u>

As of June 30, 2023, measurement date (using census information as of May 1, 2022), the following current and former employees were covered by the benefit terms, under the Canal Retiree Health Plan. It is assumed that 100% of future retirees who meet the eligibility requirements will participate in the OPEB plan.

Active employees, including opt-out (actives not in medical plan)	423
Inactive employees and beneficiaries, receiving and/or entitled to benefits	<u>661</u>
Total	<u>1,084</u>

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

OPEB Expense and Deferred Outflows of Resources and Deferred Inflows of Resources Related to OPEB

For the year ended December 31, 2023, the Authority recognized OPEB expense credit of \$(25) million. At December 31, 2023, the Authority reported deferred outflows of resources and deferred inflows of resources related to OPEB from the following sources:

	Deferred outflows	Deferred inflows
	(in millions)	
Differences between expected and actual experience	\$ 7	\$ 2
Changes in assumptions	5	122
Net differences between projected & actual investment earnings	105	66
Employer contributions subsequent to the measurement date	11	-
Total	<u>\$ 128</u>	<u>\$190</u>

The \$11 million reported as deferred outflows of resources related to OPEB resulting from the Authority's contributions subsequent to the measurement date will be recognized as a reduction of the total OPEB liability in the following year. The remaining \$73 million reported as net inflows of resources related to OPEB will be recognized as a credit in OPEB expense as follows:

	OPEB Expense Credit
<u>Year Ending December</u>	<u>(in millions)</u>
2024	(36)
2025	(25)
2026	-
2027	(11)
2028	(1)
Total	<u>\$ (73)</u>

Net OPEB Liability

The Authority's net OPEB liability (asset) was measured as of June 30, 2023, based on valuation results as of December 31, 2021, for the Power Authority's plan and May 1, 2022, for the Canal plan, projected to the measurement date on a no gain/loss basis. The Authority's net OPEB asset of \$112 million is recorded in other long-term assets in the Authority's consolidated statement of net position.

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

The following table shows the components of the Authority's changes in its total OPEB liability, the OPEB fiduciary net position, and the net OPEB (asset) during the measurement period ending June 30, 2023.

	Plan		
	Total OPEB Liability	Fiduciary Net Position	Net OPEB (asset)
	Increase (Decrease) (in millions)		
Balance - beginning of year	\$ 609	\$ 683	\$ (74)
Service cost	14	-	14
Interest	43	-	43
Change of benefit terms	-	-	-
Differences between expected and actual experience	(1)	-	(1)
Changes of assumptions	-	-	-
Contributions - employer	-	29	(29)
Net investment income	-	74	(74)
Benefit payments	(30)	(30)	-
Administrative expense	-	(9)	9
Net changes	26	64	(38)
Balance - end of year	\$ 635	\$ 747	\$ (112)

The components of the net OPEB asset at June 30, 2023, were as follows (in millions):

Total OPEB liability	\$ 635
Plan fiduciary net position	<u>(747)</u>
Net OPEB asset	<u><u>(112)</u></u>

Plan fiduciary net position as a percentage of the total OPEB liability 118%

Actuarial Assumptions

The total OPEB liability in the June 30, 2023, measurement was determined using the following actuarial assumptions and other inputs, applied to all periods included in the measurement, unless otherwise specified:

Investment rate of return:	7.00%
Healthcare Cost Trend Rates:	Pre-Medicare Medical – 6.50 percent for 2022, decreasing 0.25 percent per year to an ultimate rate of 4.50 percent for 2030 and later years. Post-Medicare Medical – 5.50 percent for 2022, decreasing to an ultimate rate of 4.50 percent for 2030. Prescription drugs (Rx) – 7.50 percent for 2022, decreasing to an ultimate rate of 4.50 percent for

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

2030. Medicare Advantage – 4.0 percent for gross costs, 3.0 percent for Medicare reimbursements, reimbursement assumed to cover a minimum of 85 percent of gross costs.

Salary increases:	Varies by service, average of 8.80 percent for first year of service, 4.95 percent for 5 years of service, 4.18 percent for 10 years of service, 3.63 percent for 15 years of service, and 3.30 percent for 20 years or more of service.
Mortality:	The General Pub-2010 headcount weighted tables were used for active employees and healthy retirees and dependents, while the corresponding Contingent Survivor mortality tables were used for surviving spouses and the corresponding Disabled Retiree mortality tables were used for disabled participants. To project mortality improvement for years after 2010, the MP-2021 Projection Scale is applied on a fully generational basis to the base rates.

Long-Term Expected Rate of Return

The long-term expected rate of return on OPEB plan investments was determined using a building-block method in which best estimate ranges of expected future real rates (expected returns net of inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. Best estimates of arithmetic real rates of return for each major asset class are summarized in the following table:

Asset Type	Target Allocation	Long-term Expected Real Rate
Domestic Equity	30%	7.0%
International Equity	20%	6.9%
Fixed Income	20%	4.6%
Real Estate & Infrastructure	13%	7.0%
Private Equity	10%	10.1%
Private Debt	5%	9.1%
Cash	2%	3.4%
	100%	

Rate of Return

For the Power Authority OPEB Plan year ended June 30, 2023, the annual money-weighted rate of return on investments, net of investment expense, was 10.3 percent. The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts actually invested.

Discount Rate

The discount rate used to calculate the total OPEB liability was 7%, the long-term rate of return on the OPEB Trust assets. The projection of cash flows used to determine the discount rate assumed that the Authority will contribute at a rate equal to the average of contributions made over the most recent five-

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

year period (2018 through 2023), and that contributions apply first to service cost of current and future plan members and then to past service costs. Based on those assumptions, the OPEB plan’s fiduciary net position was projected to be available to make all projected OPEB payments for current active and inactive employees for the foreseeable future.

Sensitivity of the Net OPEB Liability (Asset) to Changes in the Discount Rate

Changes in the discount rate affect the measurement of the total OPEB liability. The following table depicts the Authority’s Net OPEB liability / (asset), as well as the sensitivity of using a discount rate that is 1 percentage point lower (6.0 percent) or 1 percentage point higher (8.0 percent) than the current discount rate:

	<u>1% Decrease (6.0%)</u>	<u>Current Discount Rate (7.0%)</u>	<u>1% Increase (8.0%)</u>
Net OPEB Liability / (Asset)	\$(28) million	\$(112) million	\$(181) million

Sensitivity of the Net OPEB Liability / (Asset) to Changes in the Healthcare Cost Trend Rates

Changes in the healthcare cost trends affect the measurement of the total OPEB liability. The table below shows the sensitivity of the net OPEB liability / (asset) to the changes in the healthcare cost trends:

	<u>1% Decrease</u>	<u>Current Healthcare Trend Rate</u>	<u>1% Increase</u>
Net OPEB Liability / (Asset)	\$(189) million	\$(112) million	\$(16) million

Deferred Compensation and Savings Plans

The Power Authority offers union employees and salaried employees a deferred compensation plan created in accordance with Internal Revenue Code, Section 457. This plan permits participants to defer a portion of their salaries until future years. Amounts deferred under the plan are not available to employees or beneficiaries until termination, retirement, death or unforeseeable emergency.

The Power Authority also offers salaried employees a savings plan created in accordance with Internal Revenue Code, Section 401(k). This plan also permits participants to defer a portion of their salaries. The Power Authority matches the contributions of employees up to limits specified in the plan. Matching annual contributions was \$6 million for 2023.

Both the deferred compensation plan and the savings plan have a loan feature.

Independent trustees are responsible for the administration of the 457 and 401(k) plan assets under the direction of a committee of union representatives and nonunion employees and a committee of nonunion employees, respectively. Various investment options are offered to employees in each plan. Employees are responsible for making the investment decisions relating to their savings plans.

(14) Nuclear Plant Divestiture and Related Matters

On November 21, 2000, the Power Authority sold the James A. Fitzpatrick nuclear plant (JAF) and the Indian Point 3 nuclear plant (IP3) to two subsidiaries of Entergy Corporation (collectively, Entergy or the Entergy Subsidiaries). On March 31, 2017, Entergy transferred JAF to Exelon Generation Company, LLC (Exelon).

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

In accordance with the Nuclear Waste Policy Act of 1982, in June 1983, the Power Authority entered into a contract with the U.S. Department of Energy (DOE) under which DOE, commencing not later than January 31, 1998, would accept and dispose of spent nuclear fuel. In conjunction with the sale of the nuclear plants, the Power Authority's contract with the DOE was assigned to Entergy. Entergy assigned the portion of the pre-1983 spent fuel obligation applicable to JAF to Exelon in connection with the sale of JAF to Exelon. The Power Authority remains liable for the pre-1983 spent fuel obligation to Exelon for JAF and to Entergy for IP3 which as of December 31, 2023, was \$245 million.

(15) Power Purchase Agreements ("PPA's")

The Authority does not have any PPA's that have a fixed charge provision or fixed cost. As and when such PPA's are executed, they will be reflected in the Notes to the Authority's Consolidated Financial Statements.

The Authority executed a PPA with Ameresco, Inc. (the "developer") on July 7, 2023, requiring the Authority to pay the developer for electricity received from the renewable facilities and recover the payments from the City Of New York (the "Purchaser"), acting through its Department of Citywide Administrative Services ("DCAS") via the Power Sales Contract (the "PSC"). In the case of non-payment from DCAS, there is a cure period of 1-year, in which the Authority will cover the payments to the developer. If there is no cure, the developer has no claim to the Authority so long as the Authority or developer is pursuing recovery from DCAS under the terms of the PSC. The total value of the PPA with Ameresco, Inc. is \$200 million.

The Authority has also entered into various other PPAs, \$100 million, with developers that require the Authority to pay the developers for the electricity received from renewable facilities and recover the payments from the New York Convention Center Operating Corporation, the County of Westchester, and the Port Authority via Power Sales Contracts.

All projects are in the construction phase and the Authority is not paying for or recovering for energy under the agreements that are cost-neutral to the Authority.

In 2008, the Authority entered into a long-term power supply contract with Astoria Energy II LLC for the purchase of all the output of AEII, a 550-MW plant, which entered commercial operation on July 1, 2011, in Astoria, Queens. The delivery period under the contract is through 2031. At the same time, the Authority entered a separate contract with its' New York City Governmental Customers, which is coterminous with the power purchase agreement with Astoria Energy II LLC, to sell the output of AEII. All net costs of the Authority under the power purchase agreement with Astoria Energy II LLC are billed monthly to the New York City Governmental Customers. An equal amount of revenue is recognized during the period related to reimbursements from the New York City Governmental Customers.

(16) Purchased Power Cost

The Authority purchased power for \$605 million in 2023 in the open market, the entire cost was passed through to its customers. Power purchased in the open market is a function of customer demand and, as such, varies month to month. The Authority is under no obligation to purchase power unless customer demands require such purchases, in which case the entire cost is recovered. No purchase was made under any Power Purchase Agreement. See Note 15 above for any Power Purchase agreement ("PPA") prospectively.

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

(17) Captive Insurance

On September 29, 2022, the Authority's Trustees approved the formation of a subsidiary corporation called the NYPA Captive Insurance Company (the "Captive"), and the Authority filed its application for a license with the New York State Department of Financial Services (the "DFS"). On May 2, 2023, the DFS issued the Certificate of Incorporation for the Captive, and the Captive's Board of Directors held an organization meeting on May 25, 2023. On May 25, 2023, the Authority also contributed \$250,000 as its initial capital contribution to the Captive. An additional \$99,750,000 of capital contribution was made on August 8, 2023, bringing the total contribution to \$100 million. The DFS issued the requisite license to operate, to the Captive, on July 25, 2023.

On September 1, 2023, the Captive initially underwrote a TRIA Certified NBCR (Nuclear, Biological, Chemical, Radiological & Cyberterrorism) Terrorism policy with an aggregate limit of \$500 million, which policy has a federal backstop, as well as a property deductible reimbursement line in the amount of \$5 million per occurrence. On November 1, 2023, the coverage limit for the property deductible reimbursement line was increased to \$10 million per occurrence. On January 1, 2024, the Captive also underwrote a cyber deductible reimbursement line in the amount of \$5 million per occurrence.

It is anticipated that the existence of this captive insurance company will result in cost savings to the Authority by reducing the need for commercial insurance and creating an efficient and effective claims handling process which will further enable the Authority to manage its overall risk more effectively and economically.

(18) Commitments and Contingencies

a) Power Programs

Recharge New York Power Program

Chapter 60 (Part CC) of the Laws of 2011 (Chapter 60) established the "Recharge New York Power Program" ("RNYPP"), administered by the Authority, which has as its central benefit up to 910 MW of low-cost power comprised of up to 455 MW of hydropower from the Niagara and St. Lawrence-FDR Projects and up to 455 MW of other power procured by the Authority from other sources. The 910 MW of power is available for allocation as provided by Chapter 60 to eligible new and existing businesses and not-for-profit corporations under contracts of up to seven years. RNYPP was effective beginning July 1, 2012.

The hydropower used for the RNYPP was power formerly used to provide low-cost electricity to domestic and rural customers of the three private utilities that serve upstate New York. To mitigate the impacts from the redeployment of this hydropower for the RNYPP, Chapter 60 created a "Residential Consumer Discount Program" (RCDP). The RCDP authorizes the Authority, as deemed feasible and advisable by its Trustees, to provide annual funding of \$100 million for the first three years following withdrawal of the hydropower from the residential and farm customers, \$70 million for the fourth year, \$50 million for the fifth year, and \$30 million each year thereafter, for the purpose of funding a residential consumer discount program for those customers that had formerly received the hydropower that is utilized in the RNYPP. Chapter 60 further authorizes the Authority, as deemed feasible and advisable by the Authority's Trustees, to use revenues from the sales of hydroelectric power, and such other funds of the Authority, as deemed feasible and advisable by the Authority's Trustees, to fund the RCDP. The Authority's Trustees have authorized the release of a total \$660 million for the period from August 2011 to December 2023 in support of the RCDP out of which the Authority paid out \$631 million.

Part QQ of Chapter 56 of the Laws of 2023 ("Chapter 56"), which is part of the 2023-24 Enacted State Budget, makes the following changes to the RCDP: (1) sunsets the residential consumer electricity

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

discount component of the RCDP as of July 31, 2023; (2) authorizes NYPA to continue to fund the agricultural consumer electricity discount component for one additional program year (August 1, 2023-July 31, 2024) at the current annual level of up to \$8 million; and (3) authorizes NYPA, for program years thereafter, to fund the agricultural consumer electricity discount up to an annual amount of \$5 million.

As referred in “Certain New Legislation Affecting the Authority” section in the MD&A, the Authority is authorized, as deemed feasible and advisable by the Authority’s Trustees, to make available an amount up to \$25 million annually to the Department of Labor (pursuant to an MOU) to fund programs established or implemented by or within the Department of Labor, including but not limited to the office of just transition and programs for workforce training and retraining, to prepare workers for employment for work in the renewable energy field.

Based on the above legislative changes, there will be no material impact to the Authority’s contribution to the above programs.

Western New York Power Proceeds Allocation Act

Effective March 30, 2012, Chapter 58 (Part GG) of the Laws of 2012 (Chapter 58) created the Western New York Power Proceeds Act (WNYPPA). The WNYPPA authorizes the Authority, as deemed feasible and advisable by the Authority’s Trustees, to deposit net earnings from the sale of unallocated Expansion Power and Replacement Power from the Authority’s Niagara project into an account administered by the Authority known as the Western New York Economic Development Fund (WNYED Fund). Net earnings are defined as any excess revenues earned from such power sold into the wholesale market over the revenues that would have been received had the power been sold at the Expansion Power and Replacement Power rates. Proceeds from the Fund may be used to support eligible projects undertaken within a 30-mile radius of the Niagara power project that satisfy applicable criteria. Chapter 58 also establishes a five-member Western New York Power Allocations Board, which is appointed by the Governor. Chapter 58 also repealed Chapter 436 of the Laws of 2010 which had created a similar program that could not be effectively implemented.

The Authority’s Trustees approved the release of up to \$101 million in net earnings calculated for the period August 30, 2010, through December 31, 2023, as provided in the legislation, for deposit into the WNYED Fund. As of December 31, 2023, \$84 million has been deposited into the Fund. The Authority has approved awards of \$43 million to businesses and made payments of \$36 million as of December 31, 2023. Payment of these awards is contingent upon the execution of acceptable contracts between the Authority and individual awardees.

Northern New York Power Proceeds Allocation Act

Chapter 545 of the Laws of 2014 enacted the “Northern New York Power Proceeds Act” (NNYPPA). The NNYPPA authorizes the Authority, as deemed feasible and advisable by the Trustees, to deposit “net earnings” from the sale of unallocated St. Lawrence County Economic Development Power (SLCEDP) by the Authority in the wholesale energy market into an account the Authority would administer known as the Northern New York Economic Development Fund (NNYED Fund), and to make awards to eligible applicants that propose eligible projects that satisfy applicable criteria. The NNYPPA also establishes a five-member Northern New York Power Allocations Board appointed by the Governor to review applications seeking NNY Fund benefits and to make recommendations to the Authority concerning benefits awards.

SLCEDP consists of up to 20 MW of hydropower from the Authority’s St. Lawrence-FDR Power Project which the Authority has made available for sale to the Town of Massena Electric Department (“MED”) for

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

MED to sub-allocate for economic development purposes in accordance with a contract between the parties entered into in 2012 (Authority-MED Contract). The NNYPPA defines “net earnings” as the aggregate excess of revenues received by the Authority from the sale of energy associated with SLCEDP by the Authority in the wholesale energy market over what revenues would have been received had such energy been sold to MED on a firm basis under the terms of the Authority-MED contract. For the first 5 years after enactment, the amount of SLCEDP the Authority could use to generate net earnings may not exceed the lesser of 20 MW or the amount of SLCEDP that has not been allocated by the Authority pursuant to the Authority-MED contract. Thereafter, the amount of SLCEDP that the Authority could use for such purpose may not exceed the lesser of 10 MW or the amount of SLCEDP that has not been allocated.

As of December 31, 2023, the Authority’s Trustees approved the release of funds, of up to \$19 million, into the NNYED Fund representing “net earnings” from the sale of unallocated SLCEDP into the wholesale energy market for the period December 29, 2014, through December 31, 2023. As of December 31, 2023, approximately \$8.5 million has been deposited into the Fund. As of December 31, 2023, the Authority has approved awards of NNYED Fund money totaling approximately \$2 million to businesses that have proposed eligible projects and made payments totaling approximately \$1.3 million to such businesses. Payment of approved awards of the NNYED Fund money is contingent upon the execution of acceptable contracts between the Authority and individual awardees.

Economic Development Customer Assistance Program (“EDCAP”)

Based on economic conditions at the time, the Authority’s Trustees in May of 2022 approved a measure to temporarily suspend the Annual Adjustment Factor (“AAF”) applicable under certain Authority power sale tariffs that would otherwise be applied to energy and demand rates annually on July 1st, for a period of one year from July 1, 2022, through June 30, 2023. The AAF, whether it represents an increase or decrease, is normally applied to program base rates annually on July 1st in accordance with the applicable tariffs. This measure is intended to provide financial relief to customers in the Authority’s Economic Development Power Programs (Recharge New York, Western New York Expansion Power & Replacement Power and Preservation Power programs) that are subject to the AAF. The AAF adjustment to base rates resumed on August 1, 2023, with an effective 3% increase to the applicable tariff rates.

On December 9, 2020, the Authority’s Trustees had authorized a Temporary Power Assistance (“TPA”) initiative to make available for sale to Authority customers receiving power under the RNY, Expansion Power, Replacement Power and Preservation Power programs (collectively, EDP Programs) supplemental power increases as part of a TPA initiative. The supplemental power was sold pursuant to the rates and other terms and conditions provided for in the customer’s contract, provided that the total amount of supplemental power made available under each EDP Program would not exceed in aggregate 230 megawatts of unallocated EDP Program power and would remain subject to statutory allocation limits. Sales of supplemental power under TPA have not been authorized beyond January 31, 2024. As of December 31, 2023, 220 customers had applied for this program. The revenue earned through the EDCAP initiative was \$31 million for the year ended December 31, 2023.

b) Governmental Customers in the New York City Metropolitan Area

In 2017 and 2018, the Power Authority executed new supplemental long-term electricity supply agreements (Supplemental LTAs) with its eleven NYC Governmental Customers, the largest of these customers include the Metropolitan Transportation Authority, the City of New York, the Port Authority, the New York City Housing Authority, and the New York State Office of General Services. Under the Supplemental LTAs, the NYC Governmental Customers agreed to purchase their electricity from the Power Authority through December 31, 2027, with the NYC Governmental Customers having the right to terminate at any time upon at least 12 months’ notice during the first five years of the agreement

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

(December 31, 2022). Thereafter, both the Power Authority and the NYC Governmental Customers may terminate the agreement upon at least six months' notice. Under the Supplemental LTAs, fixed costs were set for each customer. Variable costs, including fuel, purchased power and NYISO related costs, are to be set on a pro-forma cost of service basis and reconciled to actuals as a pass-through to each customer via an energy charge adjustment. For years 2023-2025, a fixed-price energy option is available for the NYC Governmental customers for procurement of a limited amount of energy, which allows for price certainty. The NYC Governmental customers have an ability to extend this fixed-price energy option for years 2026-2027.

The Power Authority's other SENY Governmental Customers are Westchester County and numerous municipalities, school districts, and other public agencies located in Westchester County (collectively, the "Westchester Governmental Customers"). The Power Authority has entered into an evergreen supplemental electricity supply agreement with all 103 Westchester Governmental Customers. Among other things provided by the agreement, customers can partially terminate service from the Power Authority with at least two months' notice prior to the start of the NYISO capability periods. Full termination is allowed with at least one year's notice, effective no sooner than January 1 following the one-year notice. Westchester Governmental Customers are partially served by the Power Authority's four small hydroelectric plants. The remainder of the Westchester Governmental Customers' load requirements are supplied through energy and capacity purchased from the NYISO markets. Sales of energy generated by the small hydroelectric resources into the NYISO markets, as well as grandfathered and historic fixed priced transmission congestion contracts, all help to offset the cost of the energy purchased, with an energy charge adjustment mechanism in place for cost reconciliation.

HTP Transmission Line

In 2011 the Authority's Trustees authorized Authority staff to enter into an agreement with Hudson Transmission Partners, LLC ("HTP") for the purchase of capacity to meet the long-term requirements of the Authority's NYC Governmental Customers and to improve the transmission infrastructure serving New York City through the transmission rights associated with HTP's transmission line (the "Line") extending from Ridgefield, New Jersey in the PJM Interconnection, LLC ("PJM") transmission system, to Consolidated Edison Company of New York, Inc.'s ("Con Edison") West 49th Street substation. Specifically, the Authority executed a Firm Transmission Capacity Purchase Agreement ("FTCPA") with HTP under which the Authority gained the entitlement to 75% of the Line's 660 MW capacity, or 495 MW, for 20 years. On March 31, 2017, the Authority and HTP amended the FTCPA to, among other changes, (a) create a mechanism for HTP to relinquish its Firm Transmission Withdrawal Rights ("FTWRs") as discussed below and (b) increase the Authority's portion of the Line's capacity to 87.12%, or 575 MW, at a monthly capacity charge rate that represents a decrease in the unit price (on a \$/MW-month basis) paid to HTP in the original FTCPA.

The Authority's payment obligations under the FTCPA include capacity payments, interconnection and transmission upgrades, and Regional Transmission Expansion Plan ("RTEP")/Transmission Enhancement Charges ("TEC") allocated to HTP in accordance with the PJM tariff. Interconnection and transmission upgrades were completed in 2018 at a total cost to the Authority of \$335 million. The RTEP charges imposed upon HTP, which are still subject to legal challenge, are discussed in more detail below.

It is estimated that the revenues derived from the Authority's rights under the FTCPA will not be sufficient to fully cover the Authority's costs under the FTCPA during the 20-year term of the FTCPA. As of December 31, 2023, the Authority estimated that its under-recovery of costs for the Line could be in the range of approximately \$78 million to \$100 million per year over the period from 2024-2027. The under-recovery estimates were based on projections of the capacity payment obligations, the costs of interconnection and transmission upgrades and energy revenues.

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

The Authority's obligations under the FTCPA include payment of the RTEP charges allocated to HTP. From June 2013 through December 2023, the Authority has paid approximately \$163 million in RTEP charges for the Line. Effective 2018, HTP relinquished the FTWRs held by HTP on the Line that were the basis for a significant share of its RTEP allocations. PJM's annual RTEP cost allocation update for 2018 eliminated the Authority's obligation in 2018 and beyond to pay RTEP charges related to the Bergen Linden Corridor ("BLC") project, which accounted for the bulk of the projected RTEP allocations to HTP.

Regarding the RTEP charges assessed prior to the 2018 relinquishment of the FTWRs, the Authority and HTP and other New York parties contested the FERC-approved PJM RTEP allocations for the BLC project as unjust and unreasonable before the D.C. Circuit Court of Appeals. On August 9, 2022, the Court agreed with the Authority, HTP and the other New York parties that PJM's RTEP cost allocation methodology for the BLC project was not just and reasonable and remanded the case to FERC. The Authority can expect refunds, but FERC's order on remand is still pending and the expected refund amount is uncertain at this time.

While PJM had determined that the Authority had no RTEP payment responsibility starting in 2018 because of HTP's FTWR relinquishment, in 2020, FERC reversed PJM's determination over the Authority's objections, and held that a portion of the RTEP charges assignable to the HTP facility dating back to 2018 had to be reinstated as they were unrelated to whether HTP had retained FTWRs. These reinstated RTEP charges were for projects other than the BLC project. FERC authorized PJM to begin collection for the back periods starting in August 2020. The Authority is accruing approximately \$1 million per month through the term of the agreement which ends in 2033. Depending on PJM TO's Annual Revenue Requirement, the RTEP charges could trend downward during the out years. The Authority has contested the 2020 FERC order to the D.C. Circuit Court of Appeals, which heard oral arguments on the matter in December 2023. A decision by the D.C. Circuit is pending.

c) Small Natural Gas Power Plants

To meet capacity deficiencies and ongoing load requirements in the New York City metropolitan area in the year 2000 and later, the Authority placed into operation the Small Natural Gas Power Plants ("SNGPPs"), consisting of eleven natural-gas-fueled combustion-turbine electric units located at six sites in New York City and one site in the service region of Long Island Power Authority.

As a result of the settlement of litigation relating to one SNGPP site (the "Site"), the Authority has agreed under the settlement agreement to cease operations at the Site, which houses two units, under certain conditions and if the Mayor of New York City directs such cessation. No such cessation has occurred. Regarding the Site, the settlement agreement also allows an adjacent landowner to put its real property to the Authority under certain conditions. No formal put notice has been received. Also, regarding the Site, the Authority and an adjacent landowner may enter into buy, sell or other types of agreements outside the terms of the settlement agreement.

d) Legal and Related Matters

St. Regis Litigation

In 1982 and again in 1989, several groups of Mohawk Indians, including a Canadian Mohawk tribe, filed lawsuits (the St. Regis litigation) against the State, the Governor of the State, St. Lawrence and Franklin counties, the St. Lawrence Seaway Development Corporation, the Authority, and others, claiming ownership to certain lands in St. Lawrence and Franklin counties and to Barnhart, Long Sault and Croil islands. These islands are within the boundary of the Authority's St. Lawrence-FDR Project and Barnhart Island is the location of significant Project facilities. Settlement discussions were held periodically between 1992 and 1998. In 1998, the Federal government intervened on behalf of all Mohawk plaintiffs.

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

The parties agreed to a land claim settlement, dated February 1, 2005, which if implemented would have included, among other things, the payment by the Authority of \$2 million a year for 35 years to the tribal plaintiffs and the provision of up to 9 MW of low-cost Authority power for use on the reservation. The legislation required to effectuate the settlement was never enacted and the litigation continued.

In 2013, all claims against the Authority were dismissed and the lawsuit against the Authority was concluded. A Notice of Appeal was filed but the appeal was stayed and never perfected. On May 28, 2014, the State of New York, the St. Regis Mohawk Tribe, St. Lawrence County, and the Authority executed a Memorandum of Understanding (St. Regis MOU) that outlined a framework for the possible settlement of all the St. Regis land claims. In the St. Regis MOU, the Authority endorses a negotiated settlement that, among other terms and conditions, would require the Authority to pay the Tribe \$2 million a year for 35 years and provide up to 9 MW of its hydropower at preference power rates to serve the needs of the Tribe's Reservation. The St. Regis MOU would require an Act of Congress to forever extinguish all Mohawk land claims prior to such a settlement becoming effective.

In June 2023, the Governor signed legislation (S.7566/A.7759) authorizing the State to execute a land claims settlement agreement consistent with a Memorandum of Understanding, dated May 28, 2014, between the State of New York, the St. Regis Mohawk Tribe, St. Lawrence County, and the Authority ("St. Regis MOU"). The non-settling parties have now reported to the Court that they have resolved their differences and agreed to a framework of a settlement. The settlement must now be reduced to writing and the 2014 St. Regis MOU must be incorporated into it. Lastly, Federal Legislation is still necessary before the settlement takes effect.

Helicopter Incident Near the Authority's Transmission Lines in Beekmantown, New York

The Authority contracted with Northline Utilities, LLC ("Northline") to install fiber optic ground wire along the Authority's transmission system. Thereafter, Northline entered a contract with Catalyst Aviation, LLC ("Catalyst") for helicopter services. In 2018, a Catalyst helicopter was destroyed when it collided with a wooden utility pole and power lines near Beekmantown, New York. Members of the helicopter crew were injured, and two members of that crew died as a result of their injuries. The Authority has received two notices of claim arising out of this incident. The Authority has pursued insurance coverage under Northline's insurance policies that name the Authority as an additional insured. The Authority tendered its defense of these Notices of Claim to Northline's insurer and the insurer has accepted the Authority's tender. The Authority believes that there exists sufficient insurance coverage to cover these claims. In any event, to the extent that the insurance coverage limitations are insufficient, Northline is responsible under the defense and indemnification provisions of its contract with the Authority.

NYPA's outside counsel moved for Summary Judgment which was granted in full by the Trial Court. The plaintiffs have each appealed to the Appellate Division, Second Department. It is expected that the appeal will be heard and decided in early 2024.

Other Actions or Claims

In addition to the matters described above, other actions or claims against the Authority are pending for the taking of property in connection with its projects, for negligence, for personal injury (including asbestos-related injuries), in contract, and for environmental, employment and other matters. All such other actions or claims will, in the opinion of the Authority, be disposed of within the amounts of the Authority's insurance coverage, where applicable, or the amount which the Authority has available therefore and without any material adverse effect on the business of the Authority. While the Authority cannot presently predict the outcome of the matters described above or any related litigation, the Authority believes that it has meritorious defenses and positions with respect thereto. However, adverse

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

decisions of a certain type in the matters discussed above could adversely affect Authority operations and revenues.

e) Leases

Lessee Arrangements

Under the provisions of GASB No. 87, the lease obligations represent the net present value of various contracts including property leases. The value of the asset and the obligation is reduced each month to properly reflect the remaining net present value of the asset and obligation.

Below is a description of these lease arrangements:

(i) Property Leases

The Authority leases properties throughout the New York area in order to serve its customers. These sites include its corporate offices, power facilities and warehouses. While terms vary by lease, each lease provides for a monthly lease payment subject to a fixed escalation on the anniversary date of each agreement. None of the leases contain provisions for variable payments or residual value guarantees. Additionally, there are no other payments such as residual value guarantees or termination penalties, not previously included in the measurement of the lease liability reflected as outflows of resources in 2023. At December 31, 2023, the right-to-use lease asset for property leases amounted to approximately \$12 million, net of \$2 million of accumulated amortization, with a corresponding lease liability of \$10 million.

The Authority has \$10 million of principal and \$1 million of interest requirements to maturity for the Authority's leases from 2024-2035.

Lessor Arrangements

The Authority receives contractually determined revenue related to leasing agreements. While terms vary by lease, each lease provides for lease receipts subject to a fixed escalation on the anniversary date of each agreement. These arrangements do not provide for any variable payments. There were no additional payments received other than the rental payments. The total amount of lease revenue and interest revenue in 2023 was \$3 million and \$2 million, respectively. At December 31, 2023, the lease asset receivable and the corresponding deferred inflow of resources were approximately \$51 million and \$45 million, respectively.

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

Presented below is a summary of future receipts that are included in the measurement of the lease receivable, showing principal and interest separately, for each of the five subsequent fiscal years and in five-year increments thereafter:

<u>Year</u>	<u>Principal</u>	<u>Interest</u>	<u>Total</u>
		(in millions)	
2024	\$ -	\$ 1	\$ 1
2025	-	1	1
2026	1	1	2
2027	2	1	3
2028	2	1	3
2029-33	10	5	15
2034-38	13	4	17
2039-43	16	2	18
2044-48	7	-	7
Total	\$51	\$ 16	\$67

f) Subscription-based information Technology Arrangements (“SBITA”)

In 2023, the Authority adopted the provisions of GASB No. 96, effective January 1, 2023. As such the Authority recognized a subscription liability of \$18 million and a right-to-use subscription asset of \$18 million at January 1, 2023, for agreements whereby the Authority has the right to obtain the present service capacity from the use of the underlying IT asset and the right to determine the nature and manner of use of the underlying IT asset for a period greater than one year.

At December 31, 2023, the right-to-use subscription assets amounted to approximately \$36 million, net of \$6 million of accumulated amortization, included in capital assets, with a corresponding subscription liability of \$22 million on the Consolidated Statements of Net Position.

<u>Year</u>	<u>Principal</u>	<u>Interest</u>	<u>Total</u>
		(in millions)	
2024	\$ 14	\$ 1	\$ 15
2025	5	1	\$ 6
2026	2	1	\$ 3
2027	1	-	\$ 1
Total	\$22	\$3	\$25

g) New York State Budget / Other Matters

Section 1011 of the Power Authority Act (Act) constitutes a pledge of the State to holders of Authority obligations not to limit or alter the rights vested in the Authority by the Act until such obligations together

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

with the interest thereon are fully met and discharged or unless adequate provision is made by law for the protection of the holders thereof. Bills are periodically introduced into the State Legislature, which propose to limit or restrict the powers, rights, and exemption from regulation that the Authority currently possesses under the Act and other applicable law or otherwise would affect the Authority's financial condition or its ability to conduct its business, activities, or operations, in the manner presently conducted or contemplated by the Authority. It is not possible to predict whether any such bills or other bills of a similar type which may be introduced in the future will be enacted.

In addition, from time to time, legislation is enacted into New York law that purports to impose financial and other obligations on the Authority, either individually or along with other public authorities or governmental entities. The applicability of such provisions to the Authority would depend upon, among other things, the nature of the obligations imposed and the applicability of the pledge of the State set forth in Section 1011 of the Act to such provisions. There can be no assurance that in the case of each such provision, the Authority will be immune from the financial obligations imposed by such provision. Examples of such legislation affecting only the Authority include legislation, discussed below and elsewhere herein, relating to the Authority's voluntary contributions to the State, the Authority's temporary transfer of funds to the State, and contributions and transfers to fund temporary and permanent programs administered by the Authority and other State entities.

Budget

The Authority is requested, from time to time, to make financial contributions or transfers of funds to the State. Any such contribution or transfer of funds must (i) be authorized by law (typically, legislation enacted in connection with the State budget), and (ii) satisfy the requirements of the General Bond Resolution. The General Bond Resolution requirements to withdraw moneys "free and clear of the lien and pledge created by the (Bond) Resolution" are as follows: (1) such withdrawal must be for a "lawful corporate purpose as determined by the Authority," and (2) the Authority must determine "taking into account, among other considerations, anticipated future receipt of Revenues or other moneys constituting part of the Trust Estate, that the funds to be so withdrawn are not needed" for (a) payment of reasonable and necessary operating expenses, (b) an Operating Fund reserve for working capital, emergency repairs or replacements, major renewals, or for retirement from service, decommissioning or disposal of facilities, (c) payment of, or accumulation of a reserve for payment of, interest and principal on senior debt, or (d) payment of interest and principal on subordinate debt.

In 2011, the Authority's Trustees adopted a policy statement (Policy Statement) which relates to, among other things, voluntary contributions, transfers, or other payments to the State by the Authority after that date. The Policy Statement provides, among other things, that in deciding whether to make such contributions, transfers, or payments, the Authority shall use as a reference point the maintenance of a debt service coverage ratio of at least 2.0 (this reference point should not be interpreted as a covenant to maintain any particular coverage ratio), in addition to making the other determinations required by the Bond Resolution. The Policy Statement may at any time be modified or eliminated at the discretion of the Authority's Trustees.

Section 17 of Part JJJ of Chapter 59 of the Laws of 2021, part of the 2021-22 State Enacted Budget, provides that notwithstanding any provision of law to the contrary, as deemed feasible and advisable by its trustees, the Power Authority is authorized and directed to transfer to the state treasury to the credit of the general fund up to \$20 million for the state fiscal year commencing April 1, 2021, the proceeds of which will be utilized to support energy-related state activities. The Authority contributed in March 2022 \$17.5 million to the general fund in connection with the 2021-2022 budget year.

Chapter 56 of the Laws of 2022, part of the 2022-2023 Enacted State Budget, provides that notwithstanding any provision of law to the contrary, as deemed feasible and advisable by the Authority's

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

Trustees, the Authority is authorized and directed to transfer to the State Treasury to the credit of the general fund up to \$20 million for the state fiscal year commencing April 1, 2022, to support energy-related State activities. On March 24, 2023, the Authority made a contribution of \$15 million to the State Treasury to the credit of the general fund.

Section 18 of Part PP of Chapter 56 of the Laws of 2023, part of the 2023-2024 Enacted State Budget, provides that notwithstanding any provision of law to the contrary, as deemed feasible and advisable by the Authority's Trustees, the Authority is authorized and directed to transfer to the State Treasury to the credit of the general fund up to \$20 million for the State fiscal year commencing April 1, 2023, to support energy-related State activities.

The Authority cannot predict what additional contributions to the State may be authorized in the future.

h) Relicensing of Niagara - New York State Office of Parks, Recreation and Historic Preservation

The Federal Energy Regulatory Commission ("FERC") issued the Authority a new 50-year license for the Niagara project effective September 1, 2007. In doing so, FERC approved six relicensing settlement agreements entered by the Authority with various public and private entities. The Authority had estimated that the capital cost associated with the relicensing of the Niagara project would be approximately \$495 million of which approximately \$455 million has been disbursed. This estimate does not include the value of the power allocations and operation and maintenance expenses associated with several habitat and recreational elements of the settlement agreements. As of December 31, 2023, the balance in the recorded liability associated with the Niagara relicensing on the consolidated statement of net position is \$189 million (\$13 million in current and \$176 million in other noncurrent liabilities). In addition to internally generated funds, the Authority had issued additional debt obligations to fund, among other things, Niagara relicensing costs. The costs associated with the relicensing of the Niagara project, including the debt issued, therefore, were incorporated into the cost-based rates of the project.

The Authority executed the Relicensing Settlement Agreement Addressing New License Terms and Conditions ("Settlement Agreement") entered into by several parties to the relicensing of the Niagara Project, including The New York State Office of Parks, Recreation and Historic Preservation ("OPRHP"). The Settlement Agreement provides, among other things, for the establishment of a Relicensing Settlement Agreement State Parks Greenway Fund, which is to be funded by the Authority in the amount of \$3 million per year to OPRHP for the term of the 50-year License. In 2012 and 2017, OPRHP requested that the Authority accelerate such payments by making two lump sum payments of approximately \$25 million each to pay for authorized projects. In order to make the lump sum payments, the Authority issued (a) \$25 million in subordinated notes in 2012 and (b) \$25 million in subordinated notes in 2017. The proceeds of those subordinated note issuances were made available to OPRHP. See Note 8 "Long-Term and Short-Term Debt" of the notes to the consolidated financial statements.

i) St. Lawrence-FDR Project Relicensing – Local Task Force Agreement

In 2003, FERC approved a Comprehensive Relicensing Settlement Agreement ("Relicensing Agreement") reached by the Authority and numerous parties and issued the Authority a new 50-year license for the St. Lawrence-FDR Project ("St. Lawrence-FDR License").

The St. Lawrence-FDR Power Project No. 2000 Relicensing Agreement ("LGTFSA") between the Authority and the Local Government Task Force ("LGTF") provided for a review of the LGTFSA every ten years to discuss issues not contemplated at the time of relicensing in 2003. The first such review

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

commenced in December 2013. The Authority and the LGTF entered into an agreement in 2015 in which the Authority agreed to commit and the Authority's Trustees authorized up to \$45 million over 10 years for certain actions, including to: (1) fund an economic development strategic marketing study (the "Marketing Study"); (2) temporarily reduce electricity costs for certain farms and businesses (the "Discount Program"); (3) initiate an energy efficiency and renewable energy program for the LGTF communities; and (4) enhance certain recreational facilities in the LGTF communities.

In 2016, the Authority's Trustees approved a proposal to terminate the Discount Program early and repurpose funding to be used to support a collaborative marketing effort between the Authority and North Country communities through the St. Lawrence County Economic Development Study Advisory Board created in connection with the Marketing Study at the rate of \$2 million/year for five years (\$10 million total) commencing in 2017. In 2017, the Authority's Trustees approved: (1) a new temporary business incentive program consisting of a monetary discount or rebate that would be payable to eligible private business applicants who agree to establish new business operations in certain North Country counties ("Business Incentive Discount Program"); and (2) the repurposing of funds previously approved for the marketing effort to include funding for the Business Incentive Discount Program. Funding repurposed for the marketing effort, including the Business Incentive Discount Program, would not exceed a total of \$10 million.

As of December 31, 2023, the Authority has spent approximately \$42 million of the \$45 million authorized by the Trustees for the purpose of implementing the commitments in the LGTF 10-Year Review Agreement. As of December 31, 2023, the balance in the recorded liability associated with the St. Lawrence-FDR Project relicensing on the consolidated statement of net position is \$31 million (\$3 million in current and \$28 million in other noncurrent liabilities).

j) Relicensing of Blenheim-Gilboa Pumped Storage Power Project

FERC issued a new 50-year operating license, effective May 1, 2019, to the Power Authority for the Blenheim-Gilboa Pumped Storage Power Project. In 2019, the Authority's Trustees accepted the new license and approved the settlement package with state and federal resource agencies, the towns of Gilboa and Blenheim, and Schoharie County. The Authority's Trustees also authorized \$37 million in capital expenditures for the period 2019-2069 for all compliance, implementation, and settlement activities. The Authority has spent \$9.5 million through December 31, 2023. The Authority has established a Recreation Fund in the amount of \$4 million (total commitment under the settlement package is \$6 million) of which \$3 million has been disbursed and an Ecological Fund in the amount of \$2 million (total commitment under the settlement package is \$4 million) of which \$1 million has been disbursed. As of December 31, 2023, the balance in the recorded liability associated with the Blenheim-Gilboa Pumped Storage Power Project relicensing on the consolidated statement of net position is \$20 million (\$1 million in current and \$19 million in other noncurrent liabilities).

k) Construction Contracts

Estimated costs to be incurred on outstanding contracts in connection with the Authority's construction programs aggregate to approximately \$899 million at December 31, 2023.

(19) Other Developments

Transmission LEM Program

In 2012, the Authority's Trustees approved a \$726 million Transmission Life Extension and Modernization Program ("Transmission LEM Program") on the Authority's Transmission system through 2030. As of December 31, 2023, the Authority has spent approximately \$541 million: \$482 million in capital and \$59

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

million in non-recurring O&M Investment. The Transmission LEM Program encompasses transmission assets in the Central, Northern and Western regions of New York and will include work to be done such as upgrades, refurbishments and replacements associated with switchyards and substations, transmission line structures or towers and associated hardware and replacement of the submarine cable on the PV-20 line. Reinvestment in this strategic component of the Authority's overall mission supports the repair, upgrade and/or expansion of the transmission infrastructure. The Transmission LEM Program will be financed with internal funds and proceeds from debt obligations issued by the Authority. The work on the Transmission LEM Program is underway and is expected to continue through 2030.

Lewiston LEM Program

The Authority's Trustees approved a \$460 million Life Extension and Modernization Program at the Niagara project's Lewiston Pump-Generating Plant, (Lewiston LEM Program) of which approximately \$394 million has been spent as of December 31, 2023. The work to be done includes a major overhaul of the plant's 12 pump turbine generator units. The Lewiston LEM Program will increase pump and turbine efficiency, operating efficiency, and the peaking capacity of the overall Niagara project. The Lewiston LEM Program will be financed with internal funds and proceeds from debt obligations issued by the Authority. The unit work began in late 2012 and is ongoing, with the final unit expected to be completed in 2025.

Next Generation Niagara

The NextGen Niagara program replaces, overhauls, and/or upgrades the thirteen (13) generating units and their associated auxiliary power generating equipment. Improvements will include replacing aging equipment with the latest machinery that reflects advanced digital technologies for optimizing the hydroelectric project's performance. The program is comprised of four main projects: Controls Upgrade, Mechanical/Electrical Overhauls, Penstock Platform, and 630-ton Gantry Crane Replacement. As of December 31, 2023, the Authority has spent approximately \$150 million.

BuildSmart 2025

BuildSmart 2025 is New York State's program for aggressively pursuing energy efficiency savings in New York State-owned and occupied buildings of 11 TBtu by December 31, 2025, while advancing economic growth, environmental protection, and energy security in New York State. BuildSmart 2025 expands and continues the requirements of BuildSmart NY to assist State entities in meeting statutory requirements established by the CLCPA, that "all state agencies shall assess and implement strategies to reduce their greenhouse gas emissions". The Authority manages the BuildSmart 2025 program and monitors New York State agency performance. Since the baseline of state fiscal year (SFY) 2014/15, the program has achieved 8.03 TBtu towards the 11 TBtu goal. This progress puts New York State on track to meet the 11 TBtu goal by the end of the year 2025.

Clean Energy Standard

In 2016, the NYSPSC issued an order establishing a Clean Energy Standard (the "CES Order") to implement the clean energy goals of the State Energy Plan. Pursuant to the CES Order, load-serving entities identified in the order are required to purchase Zero Emission Credits ("ZECs") from the New York State Energy Research Development Authority ("NYSERDA") to support the preservation of existing at-risk zero emissions nuclear generation. The Authority is not subject to NYSPSC jurisdiction for purposes of the CES Order but has assumed an obligation to purchase ZECs consistent with the terms of the CES Order and intends to seek recovery of such costs from the Authority's customers. In January 2017, the Authority's Trustees authorized (a) participation in the NYSPSC's ZEC program and (b) execution of an agreement with NYSERDA to purchase ZECs associated with the Authority's applicable

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

share of energy sales. The Authority and NYSERDA executed an agreement covering a two-year period from April 1, 2017, to March 31, 2019, under which the Authority committed to purchase ZECs in a quantity based on its proportional load in the New York control area. The Authority and NYSERDA executed an additional agreement covering a nine-year period from April 1, 2020, to April 1, 2029, under which the Authority committed to purchase ZECs in a quantity based on its proportional load in the New York control area, subject to certain adjustments. As of December 31, 2023, the Authority has paid \$397 million in ZEC purchase costs.

Erie Canal Harbor Development Corporation (“ECHDC”)

On March 15, 2007, the FERC approved the Authority’s application for a new license for the continued operation and maintenance of the Niagara Project. The Erie County/City of Buffalo Relicensing Agreement originally provided for the Authority to make annual payments of \$1 million to ESDC and annual payments of \$2.5 million to the Waterfront Development Fund for fifty (50) years to support economic development and revitalization activities within the vicinity of the Buffalo Waterfront.

This agreement was amended in 2011, for the Authority to make annual payments through 2028 of \$5 million to ECHDC for the Waterfront Development Fund to support the Canal Side Project and other economic development.

In order to further facilitate the financing of the Canal Side Project and to support other economic development and revitalization activities within the vicinity of the Buffalo Waterfront, ESDC and ECHDC requested that the Authority convert the modified payment schedule referenced above by replacing the final seven (7) outstanding annual payments of \$4.7 million, totaling payments of \$33 million, with a lump sum payment (net present value) of \$27 million. The Authority’s Trustees, at the December 13, 2022, meeting, authorized a conversion of the payment schedule, to an equivalent lump sum payment of \$27 million to ECHDC. This payment was made on January 10, 2023.

Electric Vehicle Acceleration Initiative

In 2018, the Authority’s Trustees approved an overall allocation of up to \$250 million to be used through 2025 for an electric vehicle charging acceleration initiative of which to date \$116.8 million was authorized for capital expenditure. The Authority will operate a charging network of up to 400 DC fast chargers across the State by 2025. As of December 31, 2023, 156 fast chargers were in operation. As of December 31, 2023, approximately \$46 million has been spent.

(20) Canal Corporation

The Canal Transfer Legislation enacted on April 4, 2016, authorized, but does not require, the Authority, to the extent that the Authority’s Trustees deem it feasible and advisable, to transfer money, property, and personnel to the Canal Corporation.

The Canal Corporation continues to require substantial operating and maintenance support and capital investment. The Canal Corporation’s expenses are funded by transfers of funds from the Authority. Any transfer of funds is subject to approval by the Authority’s Trustees and compliance with the Authority’s General Bond Resolution. Certain expenses eligible for reimbursement are reimbursed to the Authority by moneys held in the Canal Development Fund maintained by the State Comptroller and the Commissioner of Taxation and Finance. For the year ended December 31, 2023, the Canal Corporation recognized \$2 million in revenues, \$74 million in operations and maintenance expenses, and \$41 million in depreciation expenses.

NEW YORK POWER AUTHORITY

(A Component Unit of the State of New York)

Notes to the Consolidated Financial Statements

December 31, 2023

(21) Inflation Reduction Act

On August 16, 2022, the Inflation Reduction Act of 2022 (“IRA”) was signed into law which aims to reduce U.S. carbon emissions and promote economic development through investments in clean and renewable energy projects. The clean energy tax credits created or expanded by the IRA are intended to drive rapid adoption of energy efficiency, electric transportation, and solar energy. The Authority has undertaken initiatives, as listed below, to take advantage of clean energy tax credits by investing in clean energy such as battery storage, and solar, transitioning our fleet to electric vehicles (“EV”), and placement of EV infrastructure in non-urban, low-income areas. The Authority expects to monetize IRA tax credits via a direct pay option which allows tax-exempted entities to receive cash payments equal to the tax credits.

North Country Energy Storage – The Authority developed and built a 20MW/20MWh battery to be the first of its kind in the North Country. The battery participates in the NYISO wholesale market as a merchant plant. By strategically siting the storage system at the Willis Substation, the project will maximize wholesale market revenue, demonstrate storage integration in a renewable rich area of the state, and position the Authority as a leader in battery storage.

The other projects include 175 KWac rooftop solar installation at the Authority’s Zeltmann facility, development and operation of Direct Current Fast Charger stations, and fleet electrification of light duty assets (Sedans, SUV’s, and light pickups).

Required Supplementary Information
(Unaudited)

New York Power Authority
(A Component Unit of the State of New York)
 Required Supplementary Information
 (Unaudited)

Schedule of Changes in the New York Power Authority's Net OPEB Liability and Related Ratios
(\$ in millions, except percentages)

	<u>June 30,</u>				<u>December 31,</u>		
	2023	2022	2021	2020	2019	2018	2017
<u>Total OPEB Liability</u>							
Service cost	\$ 14	\$ 14	\$ 20	\$ 6	\$ 13	\$ 12	\$ 12
Interest	43	43	42	18	39	38	36
Change of benefit terms	-	4	(2)	-	-	-	-
Differences between expected and actual experience	(1)	8	(1)	(2)	2	-	-
Change of assumptions	-	(42)	(153)	(3)	(72)	-	-
Canal transfer to the Power Authority OPEB Plan	-	-	218	-	-	-	-
Benefit payments	(30)	(32)	(34)	(12)	(25)	(25)	(22)
Net change in total OPEB liability	26	(5)	90	7	(43)	25	26
Total OPEB liability – beginning	609	614	524	517	560	535	509
Total OPEB liability – ending	\$ 635	\$ 609	\$ 614	\$ 524	\$ 517	\$ 560	\$ 535
<u>Plan Fiduciary Net Position</u>							
Contributions – employer	\$ 29	\$ 32	\$ 34	\$ 12	\$ 25	\$ 25	\$ 22
Net investment income	74	(93)	136	(36)	122	(35)	88
Benefit payments	(30)	(32)	(34)	(12)	(25)	(25)	(22)
Administrative expense	(9)	(9)	-	(1)	(2)	(2)	(2)
Net change in plan fiduciary net position	64	(102)	136	(37)	120	(37)	86
Plan fiduciary net position – beginning	683	785	649	686	566	603	517
Plan fiduciary net position – ending	\$ 747	\$ 683	\$ 785	\$ 649	\$ 686	\$ 566	\$ 603
Net OPEB liability / (asset) – ending	\$ (112)	\$ (74)	\$ (171)	\$ (125)	\$ (169)	\$ (6)	\$ (68)
Plan fiduciary net position as a percentage of the total OPEB liability	118%	112%	128%	124%	133%	101%	113%
Covered-employee payroll	\$ 257	\$ 257	\$ 227	\$ 200	\$ 200	\$ 177	\$ 177
Net OPEB liability / (asset) as a percentage of covered-employee payroll	(44%)	(29%)	(75%)	(63%)	(85%)	(3%)	(38%)

Notes to schedule:

The amounts presented for the Authority's 2023 net OPEB liability (asset) were measured as of June 30, 2023, based on valuation results as of December 31, 2021, for the Power Authority's plan and May 1, 2022, for the Canal plan, projected to the measurement date on a no gain/loss basis.

This schedule is intended to present 10 years of data. Additional years will be presented prospectively.

The 2021 amount includes the Canal Corporation transfer to the Power Authority OPEB Plan (merged plan).

New York Power Authority

(A Component Unit of the State of New York)

Required Supplementary Information

(Unaudited)

Schedule of the New York Power Authority’s OPEB Contributions

(\$ in millions, except percentages)

Measurement Date	(a) Contractually/ Actuarially determined contribution	(b) Contributions made	Contribution deficiency/ (excess) (a) - (b)	(c) Covered employee payroll	Contributions as a percent of covered payroll column (b) ÷ (c)
June 30, 2023	\$ 29	\$ 29	\$ -	\$ 257	11%
June 30, 2022	32	32	-	257	12%
June 30, 2021	34	34	-	227	15%
June 30, 2020	12	12	-	200	6%
December 31, 2019	25	25	-	200	13%
December 31, 2018	25	25	-	177	14%
December 31, 2017	40	22	18	177	12%
December 31, 2016	39	24	15	161	15%
December 31, 2015	38	38	-	149	26%
December 31, 2014	33	39	(6)	145	27%

Notes to schedule:
Contributions: The Power Authority made contributions on a pay as you go basis in 2023 and did not contribute any amount beyond the contractually / actuarially required amounts.
Valuation date: December 31, 2021, for the Power Authority; May 1, 2022, for Canal

Methods and assumptions used to determine contributions

Actuarial cost method: Entry Age Normal, Level Percent of Salary
Amortization period: Five-year period for differences between the expected earnings on plan investments and actual returns. Differences in assumptions and experience from expected are recognized over the average remaining service lives of all participants in the plan. Changes in benefit terms are recognized immediately.
Asset Valuation: Market Value
Per Capita Claims: The Power Authority - Developed using 2022 projected funding rates using the Power Authority’s claims experience from January 1, 2020, through April 30, 2022.
Canal – Developed using Canal claims experience from 2018 through 2019, and 2021.
Salary increases: Varies by service, average of 8.80 percent for first year of service, 4.95 percent for 5 years of service, 4.18 percent for 10 years of service, 3.63 percent for 15 years of service, and 3.30 percent for 20 years or more of service
Participation rates: Assumed 100% of future retirees who meet the eligibility requirements will participate in the OPEB plan.
Discount rate: 7.0%

Mortality: The General Pub-2010 headcount weighted tables were used for active employees and healthy retirees and dependents, while the corresponding Contingent Survivor mortality tables were used for surviving spouses and the corresponding Disabled Retiree mortality tables were used for disabled participants. To project mortality improvement for years after 2010, the MP-2021 Projection Scale is applied on a fully- generational basis to the base rates.

New York Power Authority

(A Component Unit of the State of New York)

Required Supplementary Information

(Unaudited)

Schedule of Investment Returns for the New York Power Authority OPEB Trust

Measurement Date	Annual money-weighted rate of return, net of investment expense
June 30, 2023	10.30%
June 30, 2022	(11.86%)
June 30, 2021	21.00%
June 30, 2020	(5.30%)
December 31, 2019	21.40%
December 31, 2018	(6.30%)
December 31, 2017	16.70%
December 31, 2016	7.00%
December 31, 2015	0.41%
December 31, 2014	3.99%

Note to schedule:

Average rate of return over ten-year period was 5.7%.

New York Power Authority

(A Component Unit of the State of New York)

Required Supplementary Information

(Unaudited)

Schedule of Changes in the Canal Corporation's Net OPEB Liability and Related Ratios (\$ in millions, except percentages)

	<u>June 30,</u>		<u>December 31,</u>		
	<u>2021</u>	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>
<u>Change in Net OPEB Liability</u>					
Service cost	\$ -	\$ 4	\$ 8	\$ 9	\$ 7
Interest	-	3	8	8	8
Differences between expected and actual experience	-	-	(8)	-	-
Change of assumptions	-	16	(30)	(18)	20
Canal transfer to the Power Authority OPEB Plan	(218)	-	-	-	-
Benefit payments	-	(3)	(6)	(7)	(6)
Net change in total OPEB liability	(218)	20	(28)	(8)	29
Net OPEB liability – beginning	218	198	226	234	205
Net OPEB liability – ending	<u>\$ -</u>	<u>\$ 218</u>	<u>\$ 198</u>	<u>\$ 226</u>	<u>\$ 234</u>
Covered-employee payroll	N/A	\$ 27	\$ 27	\$ 24	\$ 24
Net OPEB liability / (asset) as a percentage of covered-employee payroll	N/A	807%	733%	942%	975%

New York Power Authority

(A Component Unit of the State of New York)

Required Supplementary Information

(Unaudited)

Schedules Relating to the Employees’ Retirement System Pension Plan

(\$ in millions, except percentages)

Schedule of Proportionate Share of the Net Pension Liability

As of March 31,	Proportion of the Net Pension Liability (Asset) Percentage	Proportionate Share of the Net Pension Liability (Asset)	Covered Employee Payroll	Proportionate Share of the Net Pension Liability (Asset) as a percentage of Covered Payroll	Plan Fiduciary Net Position as a percentage of the Total Pension Liability
2023	0.81%	\$ 175	\$ 252	69.2%	90.8%
2022	(0.83%)	(68)	242	(28.1%)	103.7%
2021	0.76%	1	233	0.4%	99.9%
2020	0.77%	203	219	92.8%	86.4%
2019	0.76%	53	214	25.0%	96.3%
2018	0.72%	23	205	11.3%	98.2%
2017	0.72%	67	193	35.0%	94.7%
2016	0.60%	96	166	57.4%	90.7%
2015	0.59%	20	150	13.3%	97.9%
2014	0.60%	27	148	18.2%	97.2%

Schedule of Contributions

Year Ending December 31,	Actuarially Required Contribution	Actual Contribution	Contribution (Excess) Deficiency	Covered Employee Payroll	Contribution as a percentage of Covered Payroll
2023	\$ 32	\$ 32	\$ -	\$ 252	13%
2022	27	27	-	242	11%
2021	36	36	-	233	15%
2020	30	30	-	219	14%
2019	29	29	-	214	14%
2018	28	28	-	205	14%
2017	28	28	-	193	15%
2016	24	24	-	166	14%
2015	25	25	-	150	17%
2014	28	28	-	148	19%

Independent Auditors' Report on Internal Control Over Financial Reporting and on Compliance and Other Matters Based on an Audit of Financial Statements Performed in Accordance With Government Auditing Standards



KPMG LLP
345 Park Avenue
New York, NY 10154-0102

Independent Auditors' Report on Internal Control Over Financial Reporting and on Compliance and Other Matters Based on an Audit of Financial Statements Performed in Accordance With *Government Auditing Standards*

Board of Trustees
Power Authority of the State of New York:

We have audited, in accordance with the auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States, the financial statements of the business-type activities and fiduciary activities of the Power Authority of the State of New York (the Authority), a component unit of the State of New York, as of and for the year ended December 31, 2023, and the related notes to the financial statements, which collectively comprise the Authority's basic financial statements for the year then ended as listed in the table of contents, and have issued our report thereon dated March 28, 2024.

Report on Internal Control Over Financial Reporting

In planning and performing our audit of the financial statements, we considered the Authority's internal control over financial reporting (internal control) as a basis for designing audit procedures that are appropriate in the circumstances for the purpose of expressing our opinion on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the Authority's internal control. Accordingly, we do not express an opinion on the effectiveness of the Authority's internal control.

A deficiency in internal control exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements on a timely basis. A material weakness is a deficiency, or a combination of deficiencies, in internal control, such that there is a reasonable possibility that a material misstatement of the Authority's financial statements will not be prevented, or detected and corrected, on a timely basis. A significant deficiency is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. However, material weaknesses or significant deficiencies may exist that were not identified.

Report on Compliance and Other Matters

As part of obtaining reasonable assurance about whether the Authority's financial statements are free from material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements, noncompliance with which could have a direct and material effect on the financial statements. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards*.



Purpose of This Report

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the Authority’s internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the Authority’s internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

KPMG LLP

New York, New York
March 28. 2024