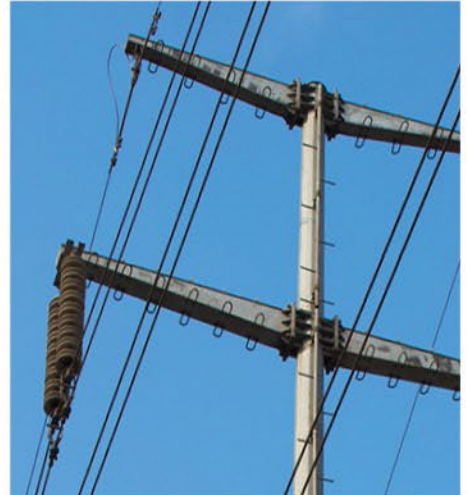


2023 Load & Capacity Data



A report by
The New York
Independent System
Operator, Inc.

Gold Book



2023 Load & Capacity Data Report

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2023 Load & Capacity Data Report

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Overview

In this *Load and Capacity Data* report (“*Gold Book*”), the New York Independent System Operator, Inc. (“NYISO”) presents load and capacity data for 2023 and future years. Energy and peak forecasts are provided through 2053 by NYISO Load Zone (referenced in the rest of this document as “Zone”) and for the New York Control Area (“NYCA”).¹ Generating capacity is projected through 2033. The information reported in this document is current as of March 15, 2023, unless otherwise noted. The seven sections of this *Gold Book* address the following topics:

- Historical and forecast seasonal peak demand and energy usage, and energy efficiency, electrification, and other distributed energy resources and load-modifying impacts;
- Existing and proposed generation and other capacity resources; and
- Existing and proposed transmission facilities.

Historical and Forecast Energy Usage and Seasonal Peak Demand

Section I of this report presents the baseline forecast, policy scenario forecasts, and historical data on annual energy and seasonal peak demand in the NYCA. The baseline and scenario forecasts are based on information obtained from the New York State Department of Public Service (“DPS”), the New York State Energy Research and Development Authority (“NYSERDA”), state power authorities, Transmission Owners, the U.S. Census Bureau, the U.S. Energy Information Administration, Moody’s Analytics, and Itron. The baseline and scenario forecasts reflect a combination of forecasts provided by Transmission Owners for their respective territories and forecasts prepared by the NYISO.

The baseline forecasts, which report the expected NYCA load, include the projected impacts of energy efficiency programs, building codes and appliance standards, distributed energy resources, behind-the-meter (“BTM”) energy storage, BTM solar photovoltaic (“PV”) power, electric vehicle usage, and electrification of space heating and other end uses. The baseline forecasts also incorporate projected load increases from existing and future large load projects interconnecting to the transmission system. Zonal forecasts extend through 2053 for studies that use longer time horizons.

Over a 30-year horizon, the NYCA baseline energy and summer and winter peak demand forecast growth rates have increased compared to last year, as exhibited in the following table:

¹ Capitalized terms not otherwise defined herein have the meaning set forth in the NYISO’s Tariffs – NYISO’s Market Administration and Control Area Services Tariff (“Services Tariff”) and NYISO’s Open Access Transmission Tariff (“OATT”).

	Average Annual Growth Rates											
	Baseline Energy Usage				Baseline Summer Peak Demand				Baseline Winter Peak Demand			
	Years 1-30	Years 1-10	Years 11-20	Years 21-30	Years 1-30	Years 1-10	Years 11-20	Years 21-30	Years 1-30	Years 1-10	Years 11-20	Years 21-30
2022 Gold Book (2022-52)	1.0%	0.2%	2.3%	0.5%	0.4%	0.1%	0.7%	0.3%	2.9%	2.5%	4.2%	0.5%
2023 Gold Book (2023-53)	1.8%	1.0%	3.0%	0.8%	0.9%	0.5%	1.4%	0.6%	3.7%	3.6%	4.5%	0.7%

Baseline energy and coincident peak demand increases significantly throughout the forecast period, driven largely by large load project growth in the early forecast years, and electrification of space heating, non-weather sensitive appliances, and electric vehicle charging in the outer forecast years. Increases in growth rates relative to the *2022 Gold Book* are primarily attributed to increased large load projects and EV charging impacts, including greater coincidence with periods of peak electric demand.

Over the course of the forecast horizon, significant load-reducing impacts occur due to energy efficiency initiatives and the growth of distributed BTM energy resources, such as solar PV. These impacts result primarily from New York State’s energy policies and programs, including the 2019 Climate Leadership and Community Protection Act (“CLCPA”), the 2020 Accelerated Renewable Energy Growth and Community Benefit Act (“AREA”), the Clean Energy Standard (“CES”), the Clean Energy Fund (“CEF”), the NY-SUN initiative, the energy storage initiative, and other PSC programs.

The NYISO employs a multi-stage process to develop load forecasts for each of the eleven Zones within the NYCA. In the first stage, baseline energy and peak models are developed based on projections of end-use intensities and economic variables. End-use intensities modeled include those for lighting, refrigeration, cooking, heating, cooling, miscellaneous plug loads, and others. Appliance end-use intensities are generally defined as the product of saturation levels (average number of units per household or commercial square foot) and efficiency levels (energy usage per unit or a similar measure). End-use intensities specific to New York are estimated from appliance saturation and efficiency levels in both the residential and commercial sectors. These intensities include the projected impacts of energy efficiency programs and improved building codes and appliance standards. Economic variables considered include Gross Domestic Product (“GDP”), number of households, population, and commercial and industrial employment. Projected long-term weather trends from the NYISO *Climate Change Impact Study Phase I*² are included in the end-use models. In the second stage, the incremental impacts of

² NYISO *Climate Change Impact Study Phase I*: <https://www.nyiso.com/documents/20142/10773574/NYISO-Climate-Impact-Study-Phase1-Report.pdf>

additional policy-driven energy efficiency, BTM solar PV, and distributed generation are deducted from the forecast, and the incremental impacts of electric vehicle usage and building electrification are added to the forecast. The impacts of net electricity consumption of energy storage resources due to charging and discharging are added to the energy forecasts, while the peak-reducing impacts of BTM energy storage resources are deducted from the peak forecasts. In the final stage, the NYISO aggregates load forecasts by zone.

Starting with the 2020 *Gold Book*, scenario forecasts have been included to reflect the increasing uncertainty in forecasting future energy usage across the state. This *Gold Book* contains two scenario forecasts, the Lower Demand Policy Scenario and Higher Demand Policy Scenario, both of which are meant to reflect achievement of all state policy targets. Additional information and discussion on the policy scenario forecasts is included in Section I.

The load recovery from the COVID-19 pandemic is largely complete throughout the state, with the exception of New York City (Zone J), which continues to see slightly lower than expected energy and peak levels. The baseline and policy scenario forecasts both assume a small degree of continued recovery in New York City energy and peak demand levels through 2024. Additional summary information about the load impacts of the COVID-19 recession is discussed in Section I.

Generation and Other Capacity Resources

The Total Resource Capability in the NYCA for the summer of 2023 is projected to be 40,262 MW, which is a decrease of 798 MW compared to the information provided for summer 2022 in the 2022 *Gold Book*. This decrease is due to the aggregate changes in existing NYCA generating capability, changes in Special Case Resources (“SCR”), and changes in net purchases of capacity from other control areas. The projected total resource capability for summer 2023 includes:

- NYCA generating capability (36,894 MW);
- SCR (1,226 MW); and
- Net of long-term purchases and sales with neighboring control areas (2,142 MW).

The existing NYCA generating capability includes renewable resources totaling 6,800 MW. This total includes conventional hydro (4,265 MW), wind generation (2,051 MW), large-scale solar PV (154 MW), and other renewable resources (330 MW, including methane and refuse). For purposes of this report, references to renewable resources do not necessarily align with the New York State Clean Energy Standard definition.

Table III-2 reports the summer and winter Dependable Maximum Net Capability (“DMNC”)³ for applicable generators, along with the nameplate rating, Capacity Resource Interconnection Service (“CRIS”) rating, and annual energy generated in the year 2022, where applicable. Table III-2a reports this information for generators that participate in the NYISO’s markets, while Table III-2b reports applicable information for generators that do not participate in the NYISO’s markets, such as generators that operate solely as load modifiers. Section III contains additional information on the generation resources by Zone, fuel type and generation type.

Since the publication of the 2022 *Gold Book* in April 2022, there has been a reduction of 347 megawatts (MW) of summer capability due to generator deactivations and a decrease of 337 MW of summer capability due to ratings changes. Over the same period, there has been an increase of 342 MW in summer capability due to the addition of new generation and uprates to existing generation. As a result, net summer capability as of March 15, 2023 is 37,178 MW, a decrease of 342 MW. These changes are summarized in Section II.

These changes are based on information received from generation owners that provided status changes since the 2022 *Gold Book*. These changes may include new generators, generators returning to service, generator outages and deactivations, the withdrawal of a notice of intent to deactivate, generator uprates, and restoration to full capacity operation. The NYCA generating capability for summer 2023 is projected to be 537 MW lower than the capability reported for summer 2022 in the 2022 *Gold Book*.

Beyond 2023, the resource capability in the NYCA will be affected by additions of new generation, re-rates of currently operating units, and the deactivation of existing generators. Table IV-1 shows the proposed facilities that have completed, are enrolled in, or are candidates to enter a Class Year Interconnection Facilities Study, or have met other comparable milestones. Of the total reported, the proposed summer capability of these resources is:

- 14,594 MW of wind turbine projects;
- 9,319 MW of grid-connected solar projects;
- 6,883 MW of energy storage;
- 1,140 MW of hybrid solar and storage projects; and
- 1,171 MW of natural gas or dual-fuel projects.

Table IV-1 also identifies completed CRIS-only requests (not already reflected in Table III-2) totaling 240 MW.

³ The NYISO does not specify the fuel to be used in DMNC testing.

Tables IV-2 through IV-4 report on units that have planned updates in capability and units that are no longer in operation. Table IV-5 lists existing generators with a collective 483 MW of summer capability that have provided deactivation notices.

In December 2019, the New York State Department of Environmental Conservation (“DEC”) adopted a final rule regulating emissions from simple-cycle combustion turbine generators (“Peaker Rule”).⁴ The regulations will phase in additional air emission compliance requirements in 2023 and 2025. Table IV-6 shows proposed status changes of units affected by the Peaker Rule that have submitted a compliance plan to the DEC indicating a change in their availability. Table IV-6 does not include those units that are listed elsewhere in Section IV.

Section V provides a summary of NYCA projected capacity from 2023 through 2033. Information for Tables V-2a and V-2b is obtained from Tables III-2, IV-1 through IV-6, and V-1.

Transmission Facilities

Section VI lists existing transmission facilities (constructed for 115 kV and larger) in the NYCA, including new transmission facilities that came into service since the publication of the 2022 *Gold Book*.

Section VII reports proposed transmission facilities that include merchant projects as well as firm and non-firm projects submitted by each Transmission Owner. Table VII includes the Smart Path Connect Project (“SPCP”), a priority transmission project approved by the NYPSC under New York’s Accelerated Renewable Energy Growth and Community Benefit Act. This project is co-owned by National Grid and the New York Power Authority (“NYPA”). On April 14, 2022, the NYPSC approved two Tier 4 contracts: one for the Champlain-Hudson Power Express (“CHPE”) project to deliver hydropower from Canada directly to Queens, and the second for a NYPA-led proposal, known as Clean Path NY, which proposes to deliver renewable energy from upstate New York directly to New York City. Pre-construction activities have begun on the CHPE project, with a projected in-service date of late-spring 2026. The Clean Path NY project is in the latter stages of the interconnection process, and is awaiting Article VII certification from the NYPSC, which is necessary prior to construction of the project.

Sections VI and VII also list as appropriate the various components of the three public policy transmission projects that have been selected by the NYISO Board of Directors. The Empire State Line project (NextEra Energy Transmission New York, Inc.) was selected in the Western New York Public Policy

⁴ DEC Peaker Rule (Subpart 227-3): <https://www.dec.ny.gov/regs/2492.html>

solicitation and went into service on June 1, 2022. The two projects selected in the AC Transmission Public Policy solicitation, Segment A Double Circuit (LS Power Grid New York Corporation I (“LSP”) and NYPA), and Segment B (Segment B Knickerbocker-PV by National Grid and New York Transco), have received siting approval from the NYPSC under Article VII of the Public Service Law and have commenced construction. Segment A and Segment B are expected to be in-service by the end of 2023. The NYISO will continue to track the progress of these projects.

Section I

Annual Energy & Peak Demand – Historical & Forecast

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Section I

Forecast Tables

This section reports historical and forecast energy and seasonal peak demand for the NYCA and by Zone. Zonal and system-level summary forecasts are provided for 30 years. Historical load values reflect the actual weather conditions experienced, while forecasted load values assume either expected or extreme weather conditions. Historical weather-normalized annual energy and seasonal peak demand is reported at the NYCA level in Table I-19. Projected long-term weather trends from the NYISO *Climate Change Impact Study Phase I* are included in the baseline and scenario forecasts. The baseline forecasts project the NYCA and zonal loads under expected future weather conditions, which include increasing temperature trends over the forecast horizon. The baseline forecasts account for the load-reducing impacts of energy efficiency programs, building codes, and appliance efficiency standards (Table I-8); behind-the-meter solar PV (Table I-9); and BTM non-solar distributed energy generation (Table I-10). The baseline forecasts also include the expected impacts of electric vehicle usage (Table I-11) and building electrification (Table I-13). The impacts of net electricity consumption of energy storage resources are added to the baseline energy forecast, while the peak-reducing impacts of BTM energy storage resources are deducted from the baseline peak forecasts (Table I-12). The baseline forecasts also include projected load increases from new and expanding large load projects (Table I-14).

Table I-1a reports the NYCA baseline energy and peak demand forecasts. System-level summary tables for annual baseline energy, summer peak, and winter peak are shown in Tables I-1b, I-1c, and I-1d respectively. These tables show the progression of the load forecast from the econometric forecast without expected efficiency gains, first to the end-use consumption forecast incorporating end-use efficiency gains relative to the current and future end-use mix, and finally to the baseline forecast incorporating all other load-modifying components. The impacts due to electric vehicles, other electrification, BTM solar PV, BTM distributed generation, energy storage units, and energy efficiency and codes & standards are listed in this progression.

Figures I-1, I-2, and I-3 show the baseline and policy scenario forecasts for NYCA annual energy, summer peak, and winter peak, respectively. Figure I-4 compares the baseline summer and winter peak forecasts. The NYISO is projected to become a winter peaking system in future decades due to electrification, primarily from space heating and electric vehicles. The lower demand policy scenario and higher demand policy scenario forecasts are summarized in Tables I-15 and I-16 respectively.

Historical and baseline forecast data for annual energy and seasonal peak demand are reported in

Tables I-2 through I-5. The baseline peak forecasts are designed by the Transmission Owners at 67th percentile weather conditions for the Con Edison and Orange and Rockland service territories, and at the 50th percentile in the remaining transmission districts.

Table I-6 shows the 90th and 10th percentile forecasts of annual energy due to weather variability. The 90th and 10th percentile energy forecasts are based on the historical distribution of weather-related impacts on annual energy usage. Table I-7 shows the 90th, 10th, and 99th percentile baseline seasonal coincident peak demand forecasts due to weather variation. The 90th, 10th, and 99th percentile peak forecasts are based on the historical variation in peak day weather coupled with projected temperature trends. The 90th percentile summer peak forecast represents a warmer than expected summer peak day; while the 99th percentile forecast represents an extremely hot and humid summer peak day, well above the expected temperature. The 90th percentile winter peak forecast represents a colder than expected winter peak day; while the 99th percentile winter peak forecast represents an extremely cold winter peak day, well below the expected temperature. The 10th percentile forecasts represent milder than expected seasonal peak days, with cooler weather during the summer peak and warmer weather during the winter peak. All baseline and percentile forecasts include increasing temperature trends throughout the forecast horizon from the NYISO *Climate Change Impact Study Phase I* report. On average, the increasing temperature trend throughout the state is 0.7 degrees F per decade; and the trend differs by location, time of year, and time of day. Historical distributions of system peak day temperatures are reported in Table I-20.

The energy efficiency and codes & standards annual energy reductions listed in Table I-8a are separated into estimated historical impacts and forecasted impacts from programs and activities expected to occur from 2023 onwards. Tables I-8b and I-8c report the projected peak reductions due to the impacts of codes & standards and energy efficiency programs.

Table I-9a reports the forecast of installed nameplate capacity of BTM solar PV. Table I-9b lists the expected annual GWh energy reductions due to BTM solar. Table I-9c shows the expected reductions in the NYCA summer coincident peak by zone due to BTM solar. The actual impact of solar PV varies considerably by hour of day. The hour of the actual NYCA peak varies annually. Currently, the NYCA summer peak typically occurs in late afternoon. The NYCA summer peak will likely shift into the evening as additional BTM solar is added to the system, and as electric vehicle charging impacts increase during the evening hours. Because the hour of the summer peak shifts into the evening over the course of the forecast horizon, BTM solar generation becomes less coincident with the NYCA peak hour, and BTM solar coincident peak reductions are forecast to decrease in later years. The forecast of solar PV-related

reductions to the winter peak is zero because the system typically peaks after sunset. Table I-9d lists the expected maximum hourly NYCA BTM solar generation by year, which typically occurs in the spring around the noon hour.

Table I-10a reports the forecast of installed nameplate capacity of BTM non-solar distributed generation. These resources include combined heat and power, anaerobic digesters, fuel cell facilities, small wind, and others. Table I-10a makes no projection of future participation of BTM distributed generation resources in the wholesale distributed energy resources market. Tables I-10b and I-10c list the projected annual energy and coincident peak reductions of these BTM resources.

Table I-11 lists the forecast of electric vehicle (“EV”) impacts, including EV annual energy usage (Table I-11b), EV summer coincident peak demand (Table I-11c), and EV winter coincident peak demand (Table I-11d). The baseline forecast assumes a stock of over six million EVs by 2040, including passenger vehicles, trucks, and buses. Table I-11a lists the assumed annual electric vehicle stock by type at the NYCA level. The baseline and policy scenario forecasts assume an increasing share of managed EV charging over the course of the forecast horizon. The lower demand policy scenario reflects greater managed charging impacts than the baseline forecast; conversely, the higher demand policy scenario forecast reflects more natural charging.⁵ At this time, the NYISO does not assume potential supply by vehicle storage systems to the power system, known as Vehicle to Grid (“V2G”). Future policies for managing EVs could have beneficial impacts for the grid.

Table I-12 shows the forecast of nameplate capacity of BTM energy storage resources (Table I-12a), net annual electricity consumption of energy storage (Table I-12b), and the peak-reducing impacts of BTM energy storage (Table I-12c). These tables do not include the installed nameplate capacity of existing pumped storage units (see Table 3-2 for current resources). Energy storage resources are split between transmission system, distribution system, and customer-sited storage. Customer-sited resources and certain distribution system resources are assumed to be behind-the-meter. Transmission system and most distribution system resources are assumed to participate in the wholesale market. The capacity forecast in Table I-12a reflects solely BTM storage resources.

BTM energy storage resources reduce peak demand on the system when they are injecting energy into the grid or supplying electricity to the customer’s facility during the peak hour. Only a portion of installed resources are expected to be injecting energy into the grid or supplying electricity to customers during the

⁵ Managed charging entails coordinating charging cycles with system conditions through use of smart meters, time of use rates, or other factors; while natural charging refers to the projected unconstrained charging behavior that would otherwise occur.

NYCA summer and winter peak hours. BTM storage injecting during the peak hour reduces the measured NYISO demand, while wholesale market storage is dispatched by the NYISO similar to other generation in order to meet the load. Thus, while wholesale storage does not act to reduce the measured NYISO peak demand, when dispatched it does lessen the requirements of other wholesale generation during the peak hour. Peak demand reductions would be offset by increased demand in other hours during which energy storage resources are charging, resulting in a shifting of load across hours and an overall increase in load due to cycling losses. Both wholesale and BTM energy storage resources have relatively small positive net annual electricity consumption due to charging and discharging cycles (approximately 1% relative to the forecasted total load across the NYCA system in the outer forecast years).

Table I-13 shows the impact of future building electrification, which includes projected load increases due to electrification of residential households and commercial and industrial buildings. The building electrification energy and winter peak forecasts (Tables I-13a and I-13c) are largely driven by conversion of space heating from fossil fuel sources to electric heat pumps and other electric heating systems, including electric resistance heating; along with electrification of non-weather sensitive end-uses such as cooking and water heating. The baseline forecast assumes that roughly 60% of residential homes convert to electric heating by 2050, with similar large-scale adoption in the commercial sector. The building electrification summer peak forecast (Table I-13b) is largely driven by electrification of non-weather sensitive appliance energy use coincident with the peak load hour. Increases in electric cooling from heat pumps are largely offset by decreasing saturations of central and room air conditioning. The building electrification tables do not include the impacts of EV charging, which are accounted for separately in Table I-11. Table I-13d compares the total NYCA annual energy electrification impacts by scenario, including the impacts of both EV and building electrification.

Table I-14 shows projected increases in annual energy and seasonal peak demand due to existing and future interconnecting large projects.

Table I-17 shows the projected SCR and Emergency Demand Response Program (“EDRP”) enrollment. Table I-18 reports the date and hour of the NYCA system peak for the Summer and Winter Capability Periods from 1997 forward. Table I-19 reports historical weather normalized system annual energy and seasonal peak demand. Table I-20 reports the approximate distribution of zonal peak load design temperatures.

Load Forecast Scenarios

Starting with the *2020 Gold Book*, scenario forecasts have been included to reflect the increasing uncertainty in forecasting future energy usage across the state. This Gold Book contains two scenario forecasts, both of which are meant to reflect compliance with all state policy targets. Both scenarios reflect achievement of state energy efficiency polices, 100% light duty vehicle Zero Emission Vehicle (ZEV) sales share in 2035, and sufficient building electrification consistent with the achievement of 2050 greenhouse gas emissions targets. The Lower Demand Policy Scenario includes peak-mitigating assumptions including additional EV managed charging, and a higher share of heating electrification via air source heat pumps. The Higher Demand Policy Scenario reflects a more natural or unmanaged EV charging shape, and a greater share of electric resistance heating and supplemental heat (relative to the air source heat pump share). The higher demand scenario assumes 100% LDV EV sales in 2035, while the lower demand scenario assumes a portion of the ZEV target is met through vehicles powered by clean hydrogen.

The baseline and scenario forecasts meet the state policy target of 10,000 MW DC installed BTM solar in 2030. The lower demand scenario includes additional BTM solar growth beyond 2030 relative to the baseline forecast. The higher demand scenario BTM solar forecast matches the baseline.

The BTM energy storage forecast is consistent across the baseline and policy scenarios. The storage capacity forecast includes only BTM resources, which reflect only a portion of the State's energy storage targets. These targets are expected to be met largely through interconnecting wholesale energy storage projects.

The baseline and lower demand policy scenario forecasts assume expected economic conditions, including population and household decline in New York state during the later forecast years. The higher demand policy scenario end-use models and EV and building electrification forecasts assume an increasing population and number of households over the duration of the forecast horizon. The higher demand scenario also includes additional potential large load project impacts beyond those included in the baseline and lower demand scenario forecasts.

The baseline forecast does not include any potential future load increases from low carbon fuel production (e.g., hydrogen production via electrolysis). The potential load growth from hydrogen production in future decades could be significant. For example, the Climate Action Council Integration

Analysis scenarios⁶ assume that large-scale hydrogen production may be needed in order to meet state decarbonization goals, specifically to address hard to electrify end-uses. This potential load growth from electrolysis is included in the higher demand policy scenario forecast, slightly discounted to reflect 100% LDV EV sales saturation with no ZEV alternatives. The lower demand policy forecast only includes sufficient electrolysis needed to produce hydrogen for non-EV zero emission vehicles (100% ZEV sales beginning in 2035). Electrolysis production is expected to be non-coincident with system peak electricity demand.

The baseline and policy forecasts generally do not include conversion of the Con Edison district steam system to electricity. Potential impacts on annual energy and seasonal peak demand due to the partial or full electrification of steam generation or steam customers' buildings could be significant, and NYISO continues to monitor prospective changes.⁷ The summer peak forecast does assume some limited increase in air conditioning demand (switching from the steam system).

The baseline and lower demand policy scenario peak forecasts assume an increasing share of managed electric vehicle charging over the course of the forecast horizon, limiting the potential EV impact on system peak demand. The baseline and scenario forecasts do not assume further peak demand reductions from end-use load flexibility.

Table I-15 shows a state-level summary of the Lower Demand Policy Scenario forecast, and Table I-16 summarizes the Higher Demand Policy Scenario forecast. Zonal forecasts for the policy scenarios are posted as Excel files on the NYISO website.⁸

⁶ Climate Act Resources: <https://climate.ny.gov/Resources/Scoping-Plan>. Integration Analysis Scenario 2 assumes over 40,000 GWh of annual electricity usage in 2050 for in-state hydrogen production.

⁷ Any near-term impacts due to steam generation electrification or decarbonization demonstration projects are expected to be small, with no anticipated impacts over the next few years. The current winter peak electric forecast assumes no conversion of steam buildings to electric heat. No electrification of steam system boilers or installation of large industrial heat pumps are included in this forecast.

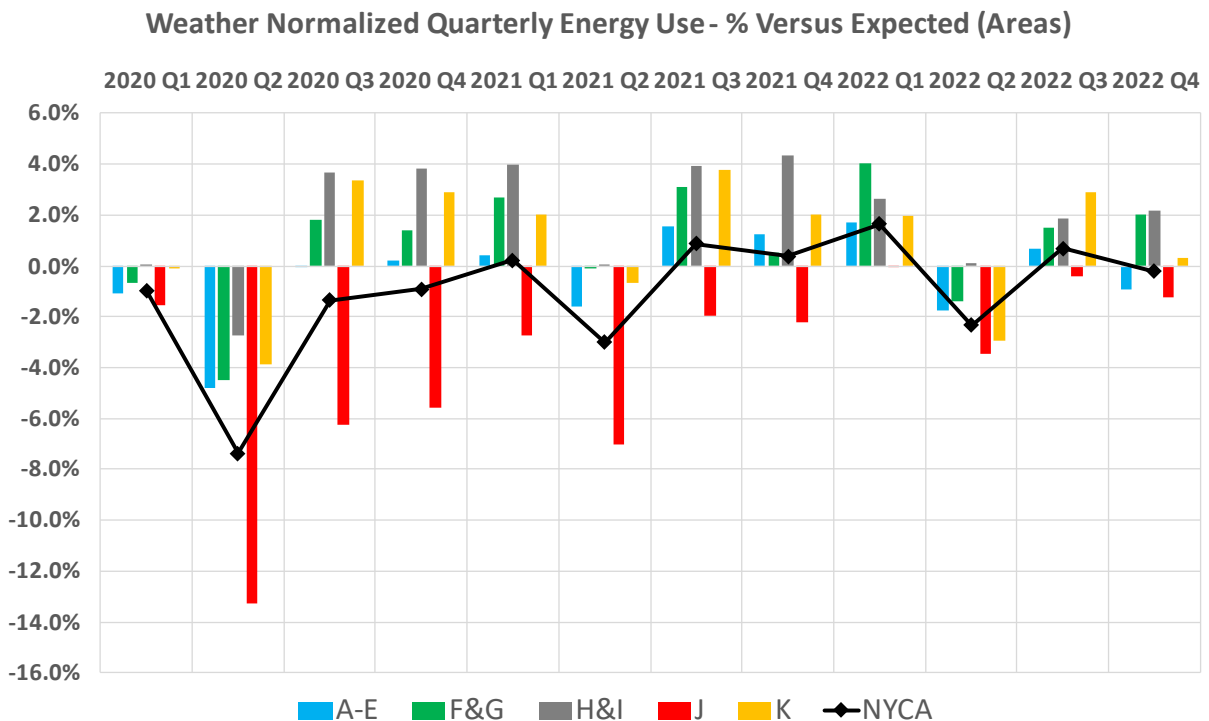
⁸ Policy scenario forecast tables: <https://www.nyiso.com/library>

Load Scenario Summary

Forecast Component	Baseline Forecast	Lower Demand Policy Scenario	Higher Demand Policy Scenario
Weather Trends	Trended weather from NYISO Climate Change Impact Study - average NYCA temperature gain of approximately 0.7 degrees Fahrenheit per decade	Same as Baseline Forecast	Same as Baseline Forecast
Economic Assumptions	Baseline economic forecast - expected economic growth in the long run. Declining population and households in later forecast years - statewide population of under 18 million in 2050	Same as Baseline Forecast	Increase in population and households over the forecast horizon - statewide population of over 20 million in 2050
Energy Efficiency (Table I-8)	Significant energy savings and peak reductions due to energy efficiency programs, codes & standards improvements, and building shell upgrades	Very significant energy savings and peak reductions due to energy efficiency programs, codes & standards improvements, and building shell upgrades, reflecting full achievement of State policy targets	Very significant energy savings and peak reductions due to energy efficiency programs, codes & standards improvements, and building shell upgrades, reflecting full achievement of State policy targets
BTM Solar PV (Table I-9)	Baseline BTM solar - 6,000 MW DC installed nameplate capacity by 2024, and 10,000 MW DC installed by 2030, and over 13,000 MW DC installed in 2050	Increased solar growth relative to baseline after 2030. Over 16,000 MW DC installed in 2050	Same as Baseline Forecast
BTM Non-Solar DG (Table I-10)	Total of more than 600 MW installed non-solar BTM DG nameplate capacity in 2040. No assumption of future entry of resources into the wholesale DER market	Same as Baseline Forecast	Same as Baseline Forecast
Electric Vehicles (Table I-11)	85% LDV EV sales saturation in 2035. Roughly 6 million EVs (passenger vehicles, trucks and buses) on the road in 2040. Increasing share of managed charging over time	85% LDV EV sales saturation in 2035. Roughly 6 million EVs on the road in 2040. Reduced peak load impact due to increased managed charging and improved battery efficiency trends	100% LDV EV sales saturation by 2035. Over 7 million EVs on the road in 2040. Decreased share of managed charging relative to the baseline forecast
BTM Energy Storage (Table I-12)	Over 1,000 MW installed BTM nameplate capacity by 2030, with over 2,000 MW installed by 2045. Does not include wholesale storage resources which are expected to contribute significantly to State policy targets	Same as Baseline Forecast	Same as Baseline Forecast
Building Electrification (Table I-13)	Significant electrification of space heating and other end uses. 60% saturation of primary residential electric heating by 2050, including air source and ground source heat pumps, and electric resistance heating: <ul style="list-style-type: none"> * 27% full capacity ASHP * 10% ASHP with supplemental electric heat * 10% ASHP with backup fossil heat * 8% primary electric resistance heat * 5% Ground Source Heat Pumps ("GSHP") * 40% primary fossil fuel heating 	Very high saturation of electrific space heating and other end uses. 90% saturation of residential electric heating by 2050. Increased share of air source heat pumps relative to the baseline forecast: <ul style="list-style-type: none"> * 50% full capacity ASHP * 20% ASHP with supplemental electric heat * 5% ASHP with backup fossil heat * 10% primary electric resistance heat * 5% GSHP * 10% primary fossil fuel heating 	Very high saturation of electric space heating and other end uses. 90% saturation of residential electric heating by 2050: <ul style="list-style-type: none"> * 40% full capacity ASHP * 25% ASHP with supplemental electric heat * 5% ASHP with backup fossil heat * 15% primary electric resistance heat * 5% GSHP * 10% primary fossil fuel heating
Large Loads (Table I-14)	Expected load growth from large load projects in the NYISO IQ, along with impacts from significant projects not in the queue	Same as Baseline Forecast	Additional load growth from large load projects beyond that included in the baseline forecast
Electrolysis (Hydrogen Production)	No electrolysis	Sufficient hydrogen production to meet demand for non-EV Zero Emission Vehicles (100% ZEV LDV by 2035). No peak load impact	Similar to Climate Action Council Integration Analysis Scenario 2 electrolysis forecast. Nearly 40,000 GWh annual energy impact in 2050. No peak load impact

COVID-19 Impacts

The economic and behavioral changes stemming from the COVID-19 pandemic changed 2020 and 2021 load levels and load shapes relative to a typical year. The impact on total energy consumption in 2020 was significant. Weather normalized annual energy usage across the state in 2020 was more than 4,000 GWh (2.6%) below the pre-COVID baseline forecast developed in early 2020. The largest impacts were seen in 2020 Q2 during the height of the initial lockdown period, with usage across the NYCA more than 7% below expected. These effects tapered off into the summer and fall, with smaller deviations relative to expected levels. In 2021, impacts on total load were much smaller. Weather normalized energy usage in 2021 was about 600 GWh (0.4%) below the pre-COVID baseline. Throughout the pandemic, the largest load reductions were consistently in New York City (Zone J), being an urban area with a large share of commercial load. On a weather normalized basis, systemwide energy usage in 2022 was effectively level with the pre-pandemic forecast. Only Zone J loads remained consistently below or equal to the expected level throughout 2022, but with significantly lesser deficits than in 2020 and 2021. The figure below shows estimated quarterly weather normalized load differences relative to expected levels through 2022 Q4.



This chart shows the estimated differences of weather normalized load levels relative to expected levels. The five bar sets show the difference between the actual weather normalized load and the

expected monthly load from the pre-COVID long term forecast across five regions of the state, while the black line shows the aggregate NYCA departure from expected. In 2021 and 2022, remaining load reductions due to the pandemic were concentrated in New York City (Zone J). The remainder of the state has largely recovered to or exceeded pre-pandemic expected load levels. The baseline and policy scenario forecasts both assume continued load recovery in Zone J energy and peak demand levels through 2024, along with increasing demand due to strong economic growth and impacts from EVs and building electrification.

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Table I-1a: NYCA Baseline Energy and Demand Forecasts
Reflects Impacts of Energy Saving Programs & Behind-the-Meter Generation

2023 Long Term Forecast ¹ - 2023 to 2053												
Energy - GWh				Summer Peak Demand ² - MW				Winter Peak Demand ² - MW				
Year	Low ³	Baseline ⁴	High ³	Year	Low ³	Baseline ^{4,5}	High ³	Year	Low ³	Baseline ⁴	High ³	
2022		152,058		2022		31,709		2022-23		23,674		
2023	150,510	151,780	150,950	2023	31,680	32,048	31,950	2023-24	24,030	24,220	24,220	
2024	150,540	152,140	151,750	2024	31,670	32,280	32,250	2024-25	24,780	24,530	25,220	
2025	150,260	152,390	153,430	2025	31,450	32,390	32,340	2025-26	25,730	25,100	26,490	
2026	150,640	153,250	155,160	2026	31,150	32,440	32,400	2026-27	26,690	25,700	27,920	
2027	150,550	153,780	158,770	2027	30,660	32,410	32,630	2027-28	27,530	26,300	29,440	
2028	150,900	154,390	163,180	2028	30,180	32,310	32,840	2028-29	28,520	26,990	31,080	
2029	151,970	155,530	166,640	2029	29,820	32,300	33,080	2029-30	29,710	27,920	32,790	
2030	154,550	157,660	171,480	2030	29,610	32,490	33,420	2030-31	31,100	28,970	34,760	
2031	157,480	160,100	176,620	2031	29,560	32,750	33,900	2031-32	32,660	30,160	36,960	
2032	161,190	163,260	183,050	2032	29,590	33,110	34,380	2032-33	34,290	31,530	39,290	
2033	165,630	167,220	189,940	2033	29,690	33,520	34,950	2033-34	35,980	32,980	41,720	
2034	170,910	171,840	197,800	2034	29,850	34,010	35,610	2034-35	38,070	34,760	44,700	
2035	176,690	176,910	206,360	2035	30,050	34,540	36,340	2035-36	40,120	36,600	47,630	
2036	182,590	182,200	215,500	2036	30,260	35,040	37,120	2036-37	41,920	38,310	50,350	
2037	188,530	187,580	225,390	2037	30,500	35,510	37,920	2037-38	43,840	40,120	53,240	
2038	194,500	193,060	235,740	2038	30,750	36,030	38,730	2038-39	45,560	41,850	55,940	
2039	200,500	198,670	246,220	2039	31,000	36,500	39,650	2039-40	47,040	43,380	58,360	
2040	206,110	204,030	256,250	2040	31,250	36,930	40,550	2040-41	48,330	44,800	60,610	
2041	211,130	208,910	265,360	2041	31,490	37,350	41,410	2041-42	49,430	46,030	62,670	
2042	215,680	213,380	273,870	2042	31,720	37,740	42,110	2042-43	50,110	46,930	64,250	
2043	219,800	217,500	281,970	2043	31,950	38,090	42,760	2043-44	50,900	47,870	65,910	
2044	223,230	221,090	289,360	2044	32,160	38,420	43,390	2044-45	51,540	48,730	67,480	
2045	226,080	224,200	296,000	2045	32,350	38,740	43,980	2045-46	52,040	49,440	68,870	
2046	228,220	226,750	301,790	2046	32,510	39,020	44,530	2046-47	52,280	50,030	69,980	
2047	229,980	229,070	307,120	2047	32,640	39,290	45,040	2047-48	52,260	50,390	70,740	
2048	231,330	230,990	311,920	2048	32,750	39,560	45,560	2048-49	52,170	50,700	71,540	
2049	232,070	232,370	316,020	2049	32,870	39,800	46,060	2049-50	52,170	51,060	72,410	
2050	232,300	233,350	319,600	2050	32,960	40,010	46,540	2050-51	51,980	51,260	73,070	
2051	232,400	234,220	322,960	2051	33,020	40,210	46,960	2051-52	51,630	51,250	73,460	
2052	232,200	234,740	325,920	2052	33,060	40,320	47,330	2052-53	51,400	51,410	73,950	
2053	231,750	235,020	328,580	2053	33,070	40,410	47,510	2053-54	50,800	51,190	74,090	

Average Annual Growth - Percent											
Period	Low	Baseline	High	Period	Low	Baseline	High	Period	Low	Baseline	High
2023-28	0.05%	0.34%	1.62%	2023-28	-0.95%	0.16%	0.56%	2023-28	3.74%	2.29%	5.66%
2028-33	1.95%	1.66%	3.28%	2028-33	-0.32%	0.75%	1.29%	2028-33	5.23%	4.44%	6.85%
2033-38	3.49%	3.09%	4.82%	2033-38	0.71%	1.50%	2.16%	2033-38	5.33%	5.38%	6.82%
2038-43	2.60%	2.53%	3.92%	2038-43	0.78%	1.14%	2.08%	2038-43	2.34%	2.88%	3.56%
2023-33	1.00%	1.02%	2.58%	2023-33	-0.63%	0.46%	0.94%	2023-33	4.97%	3.62%	7.23%
2033-43	3.27%	3.01%	4.85%	2033-43	0.76%	1.36%	2.23%	2033-43	4.15%	4.51%	5.80%
2043-53	0.54%	0.81%	1.65%	2043-53	0.35%	0.61%	1.11%	2043-53	-0.02%	0.69%	1.24%
2023-43	2.30%	2.16%	4.34%	2023-43	0.04%	0.94%	1.69%	2023-43	5.59%	4.88%	8.61%
2023-53	1.80%	1.83%	3.92%	2023-53	0.15%	0.87%	1.62%	2023-53	3.71%	3.71%	6.86%

Notes

- All results in the Section I tables include transmission & distribution losses.
- Summer Capability period is from May 1 to October 31. Winter Capability period is from November 1 of the current year to April 30 of the next year.
- The low and high columns reflect the lower demand policy scenario and higher demand policy scenario forecasts under expected weather conditions, which are summarized in Tables I-15 and I-16. These do not reflect the 90th and 10th percentile forecasts due to weather, which are found in Tables I-6 and I-7.
- Energy and peak figures for 2022 are weather-normalized. The values for the actual annual energy, summer peak, and winter peak are reported in Tables I-2, I-3a, and I-3b respectively.
- The 2023 NYCA summer peak forecast is the same as the 2023 ICAP forecast.

Figure I-1: NYCA Energy Forecasts – Annual Energy, GWh

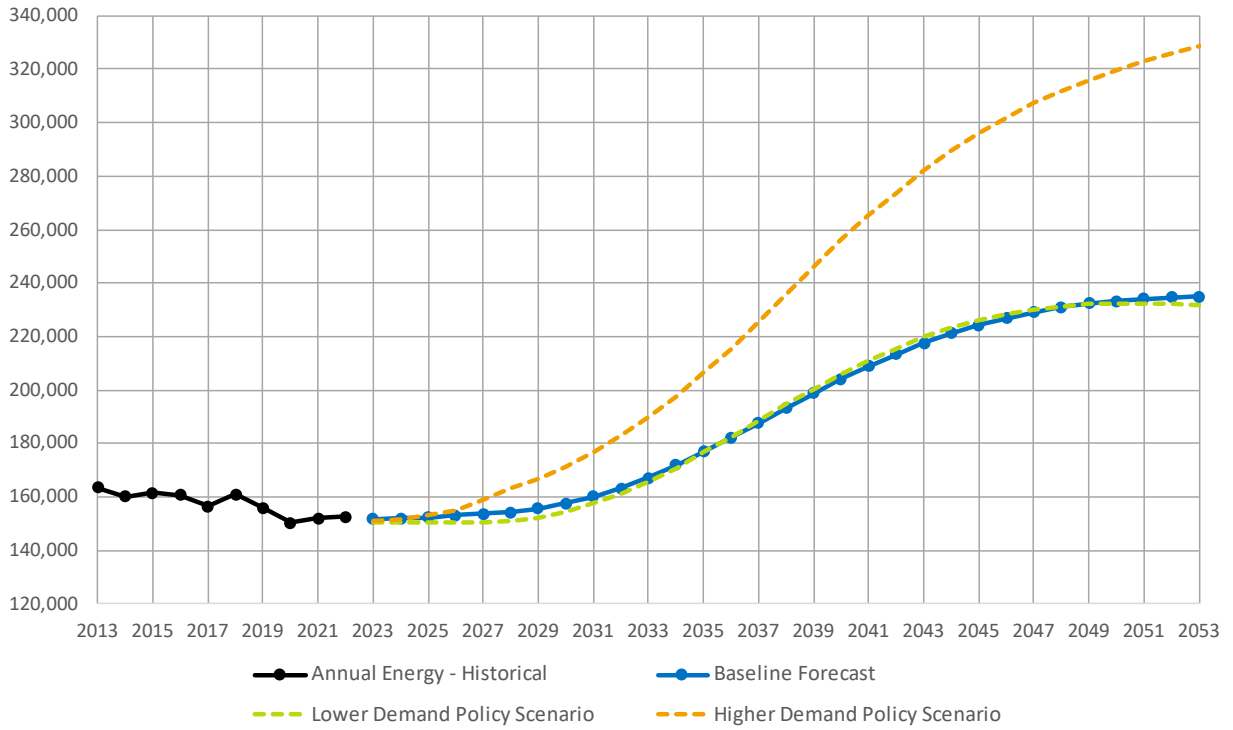


Figure I-2: NYCA Summer Peak Forecasts – Coincident Peak, MW

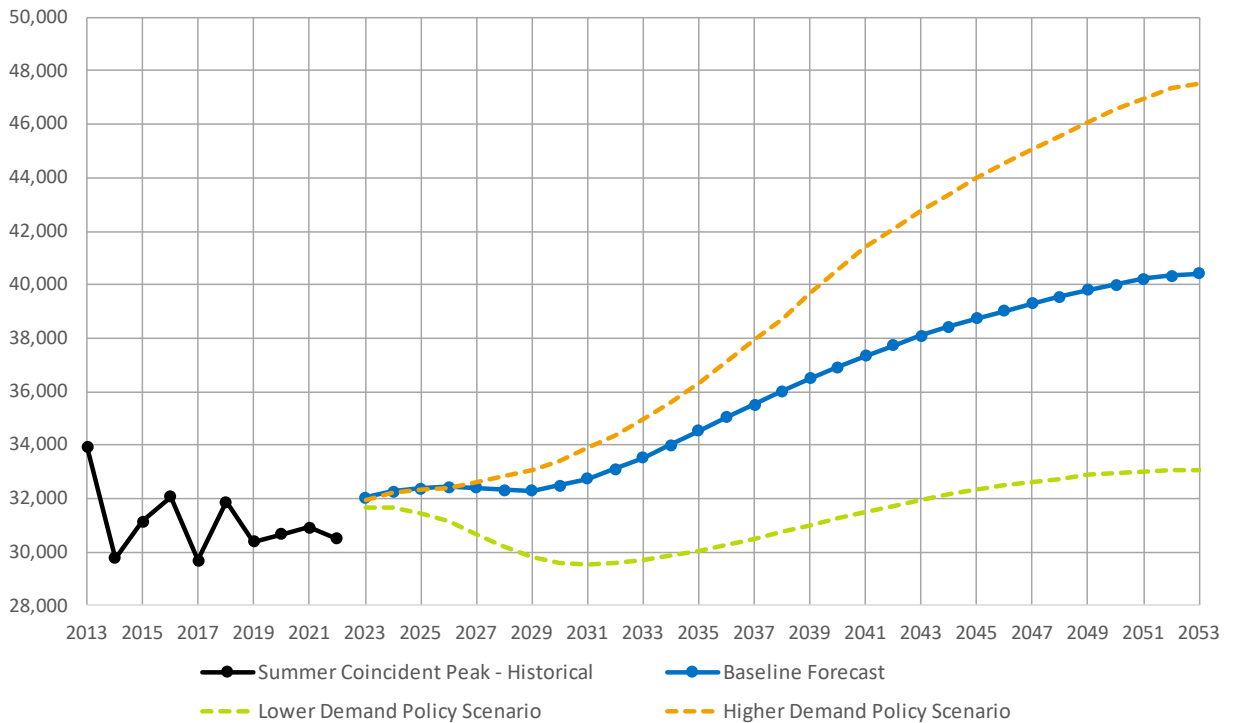


Figure I-3: NYCA Winter Peak Forecasts – Coincident Peak, MW

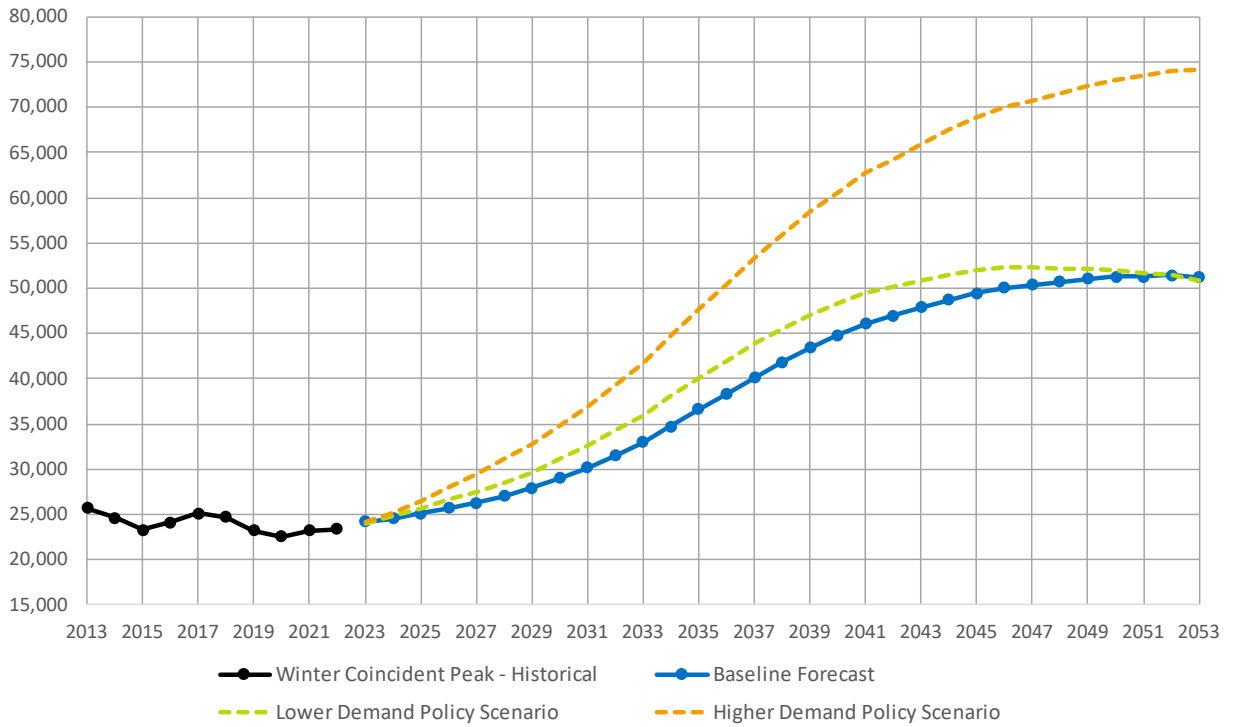


Figure I-4: NYCA Baseline Peak Forecast Comparison – Coincident Peak, MW

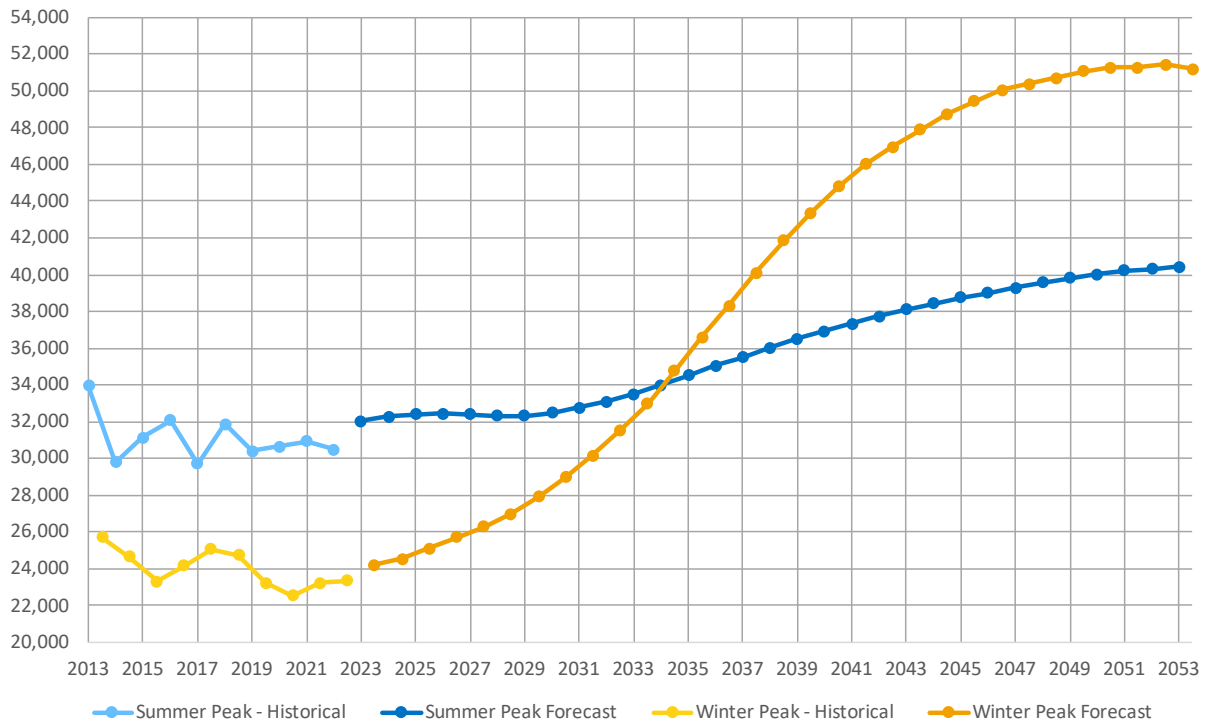


Table I-1b: Summary of NYCA Baseline Annual Energy Forecasts – GWh

Year	(a) Econometric Energy	(b) (-) EE and C&S	(c) = a - b End-Use Energy	(d) (-) Solar PV, BTM	(e) (-) Non-Solar DG, BTM	(f) (+) Storage Net Energy Consumption	(g) (+) EV Energy	(h) (+) Building Electrification	(i) (+) Large Load Projects	(j) = c-d-e+f+g+h+i Baseline Annual Energy Forecast
2023	157,127	2,137	154,990	5,329	1,969	57	737	954	2,340	151,780
2024	158,646	4,732	153,914	6,529	2,130	159	1,112	1,474	4,140	152,140
2025	159,307	7,322	151,985	7,719	2,186	247	1,630	2,253	6,180	152,390
2026	160,028	9,863	150,165	8,834	2,246	374	2,339	3,212	8,240	153,250
2027	160,753	12,168	148,585	9,827	2,309	573	3,291	4,447	9,020	153,780
2028	161,568	14,455	147,113	10,654	2,367	678	4,454	5,856	9,310	154,390
2029	162,213	16,638	145,575	11,337	2,411	781	5,841	7,551	9,530	155,530
2030	163,007	18,881	144,126	11,879	2,446	881	7,463	9,485	10,030	157,660
2031	163,931	20,956	142,975	12,325	2,503	975	9,290	11,658	10,030	160,100
2032	164,871	22,993	141,878	12,727	2,540	1,066	11,344	14,209	10,030	163,260
2033	165,960	24,862	141,098	13,106	2,586	1,159	13,639	16,986	10,030	167,220
2034	167,148	26,643	140,505	13,458	2,622	1,249	16,186	19,950	10,030	171,840
2035	168,230	28,334	139,896	13,775	2,656	1,341	18,992	23,082	10,030	176,910
2036	169,163	29,894	139,269	14,068	2,682	1,430	21,808	26,413	10,030	182,200
2037	170,099	31,328	138,771	14,336	2,714	1,521	24,602	29,706	10,030	187,580
2038	171,090	32,704	138,386	14,582	2,757	1,610	27,338	33,035	10,030	193,060
2039	172,320	34,067	138,253	14,816	2,778	1,699	29,990	36,292	10,030	198,670
2040	173,593	35,533	138,060	15,023	2,816	1,787	32,539	39,453	10,030	204,030
2041	174,812	36,989	137,823	15,218	2,848	1,879	34,955	42,289	10,030	208,910
2042	175,929	38,390	137,539	15,399	2,873	1,967	37,223	44,893	10,030	213,380
2043	176,955	39,606	137,349	15,560	2,889	2,056	39,338	47,176	10,030	217,500
2044	177,818	40,792	137,026	15,707	2,920	2,144	41,288	49,229	10,030	221,090
2045	178,722	41,926	136,796	15,841	2,949	2,231	43,065	50,868	10,030	224,200
2046	179,448	43,019	136,429	15,974	2,963	2,321	44,627	52,280	10,030	226,750
2047	180,493	44,180	136,313	16,089	2,980	2,410	45,971	53,415	10,030	229,070
2048	181,504	45,354	136,150	16,201	3,015	2,496	47,090	54,440	10,030	230,990
2049	182,426	46,455	135,971	16,290	3,026	2,583	47,992	55,110	10,030	232,370
2050	183,267	47,523	135,744	16,384	3,043	2,670	48,679	55,654	10,030	233,350
2051	184,468	48,628	135,840	16,477	3,069	2,758	49,064	56,074	10,030	234,220
2052	185,517	49,711	135,806	16,547	3,097	2,845	49,224	56,479	10,030	234,740
2053	186,625	50,749	135,876	16,620	3,110	2,932	49,260	56,652	10,030	235,020

- (a) - Econometric Energy Forecast - Reflects impacts of projected weather trends and economic growth
- (b) - Table I-8a Energy Efficiency and Codes & Standards Energy Impacts, Relative to 2022
- (c) - End-Use Energy Consumption - Reflects projected end use energy consumption
- (d) - Table I-9b Solar PV Impacts, Behind-the-Meter - Total Reductions in Annual Energy
- (e) - Table I-10b Non-Solar Distributed Generation Impacts, Behind-the-Meter - Total Reductions in Annual Energy
- (f) - Table I-12b Storage Annual Net Energy Consumption, both wholesale and behind-the-meter (pumped storage is not included - see Table III-2 for current resources)
- (g) - Table I-11b Electric Vehicle Energy Usage
- (h) - Table I-13a Building Electrification Energy Usage - future end-use electrification including heat pumps, water heating, cooking, and other end-uses
- (i) - Table I-14 Large Loads Forecast - reflects existing plus future load growth
- (j) - Table I-2 Baseline Annual Energy Forecast

Table I-1c: Summary of NYCA Baseline Summer Coincident Peak Demand Forecasts – MW

Year	(a) Econometric Peak Demand	(b) (-) EE and C&S	(c) = a - b End-Use Peak Demand	(d) (-) Solar PV, BTM	(e) (-) Non-Solar DG, BTM	(f) (-) BTM Storage Peak Reductions	(g) (+) EV Peak Demand	(h) (+) Building Electrification	(i) (+) Large Load Projects	(j) = c-d-e-f+g+h+i Baseline Summer Peak Forecast
2023	33,653	366	33,287	1,113	342	234	116	73	261	32,048
2024	34,145	806	33,339	1,133	367	351	176	99	517	32,280
2025	34,509	1,279	33,230	1,165	376	453	257	133	764	32,390
2026	34,795	1,760	33,035	1,190	387	557	364	171	1,004	32,440
2027	35,078	2,240	32,838	1,202	398	671	506	219	1,118	32,410
2028	35,316	2,713	32,603	1,201	408	780	678	272	1,146	32,310
2029	35,552	3,165	32,387	1,185	417	871	882	330	1,174	32,300
2030	35,886	3,603	32,283	1,160	422	943	1,112	396	1,224	32,490
2031	36,268	4,015	32,253	1,127	433	1,002	1,368	467	1,224	32,750
2032	36,687	4,425	32,262	1,090	439	1,048	1,654	547	1,224	33,110
2033	37,074	4,794	32,280	1,047	448	1,092	1,967	636	1,224	33,520
2034	37,477	5,147	32,330	999	453	1,132	2,309	731	1,224	34,010
2035	37,863	5,478	32,385	947	458	1,169	2,676	829	1,224	34,540
2036	38,193	5,787	32,406	892	463	1,202	3,037	930	1,224	35,040
2037	38,480	6,070	32,410	837	469	1,235	3,385	1,032	1,224	35,510
2038	38,812	6,338	32,474	783	476	1,264	3,720	1,135	1,224	36,030
2039	39,109	6,607	32,502	723	480	1,291	4,033	1,235	1,224	36,500
2040	39,396	6,868	32,528	665	487	1,324	4,324	1,330	1,224	36,930
2041	39,709	7,140	32,569	610	492	1,354	4,590	1,423	1,224	37,350
2042	39,987	7,379	32,608	556	497	1,379	4,829	1,511	1,224	37,740
2043	40,222	7,599	32,623	506	500	1,407	5,046	1,610	1,224	38,090
2044	40,438	7,795	32,643	459	505	1,435	5,234	1,718	1,224	38,420
2045	40,676	7,982	32,694	418	510	1,461	5,396	1,815	1,224	38,740
2046	40,840	8,160	32,680	380	513	1,484	5,591	1,902	1,224	39,020
2047	41,041	8,343	32,698	352	516	1,505	5,760	1,981	1,224	39,290
2048	41,281	8,520	32,761	328	522	1,528	5,899	2,054	1,224	39,560
2049	41,525	8,690	32,835	313	524	1,547	6,010	2,115	1,224	39,800
2050	41,772	8,844	32,928	306	527	1,570	6,094	2,167	1,224	40,010
2051	42,042	9,004	33,038	302	531	1,588	6,150	2,219	1,224	40,210
2052	42,247	9,154	33,093	297	537	1,606	6,178	2,265	1,224	40,320
2053	42,447	9,302	33,145	294	538	1,623	6,189	2,307	1,224	40,410

- (a) - Econometric Summer Peak Demand - Reflects impacts of projected weather trends and economic growth
- (b) - Table I-8b Energy Efficiency and Codes & Standards Summer Coincident Peak Demand Reductions, Relative to 2022
- (c) - End-Use Summer Peak Demand - Reflects projected end use summer coincident peak demand
- (d) - Table I-9c Solar PV Impacts, Behind-the-Meter, Total Reductions in Summer Coincident Peak Demand
- (e) - Table I-10c Non-Solar Distributed Generation Impacts, Behind-the-Meter, Total Reductions in Coincident Peak Demand
- (f) - Table I-12c Storage Impacts, Behind-the-Meter, Reductions in Coincident Peak Demand (pumped storage is not included - see Table III-2 for current resources)
- (g) - Table I-11c Electric Vehicle Summer Coincident Peak Demand
- (h) - Table I-13b Building Electrification Summer Coincident Peak Demand - future end-use electrification including heat pumps, water heating, cooking, and other end-uses
- (i) - Table I-14 Large Loads Forecast - reflects existing plus future load growth
- (j) - Table I-3a Baseline Summer Coincident Peak Demand Forecast

Table I-1d: Summary of NYCA Baseline Winter Coincident Peak Demand Forecasts – MW

Year	(a) Econometric Peak Demand	(b) (-) EE and C&S	(c) = a - b End-Use Peak Demand	(d) (-) Solar PV, BTM	(e) (-) Non-Solar DG, BTM	(f) (-) BTM Storage Peak Reductions	(g) (+) EV Peak Demand	(h) (+) Building Electrification	(i) (+) Large Load Projects	(j) = c-d-e-f+g+h+i Baseline Winter Peak Forecast
2023-24	24,033	310	23,723	0	342	234	147	426	500	24,220
2024-25	24,151	684	23,467	0	367	351	223	923	635	24,530
2025-26	24,275	1,066	23,209	0	376	453	328	1,488	904	25,100
2026-27	24,442	1,441	23,001	0	387	557	463	2,136	1,044	25,700
2027-28	24,519	1,795	22,724	0	398	671	645	2,882	1,118	26,300
2028-29	24,593	2,148	22,445	0	408	780	865	3,722	1,146	26,990
2029-30	24,708	2,493	22,215	0	417	871	1,123	4,666	1,204	27,920
2030-31	24,818	2,857	21,961	0	422	943	1,419	5,731	1,224	28,970
2031-32	24,930	3,205	21,725	0	433	1,002	1,748	6,898	1,224	30,160
2032-33	25,070	3,563	21,507	0	439	1,048	2,112	8,174	1,224	31,530
2033-34	25,157	3,902	21,255	0	448	1,092	2,512	9,529	1,224	32,980
2034-35	25,356	4,239	21,117	0	453	1,132	2,948	11,056	1,224	34,760
2035-36	25,614	4,577	21,037	0	458	1,169	3,418	12,548	1,224	36,600
2036-37	25,744	4,905	20,839	0	463	1,202	3,880	14,032	1,224	38,310
2037-38	25,986	5,231	20,755	0	469	1,235	4,325	15,520	1,224	40,120
2038-39	26,244	5,561	20,683	0	476	1,264	4,753	16,930	1,224	41,850
2039-40	26,375	5,897	20,478	0	480	1,291	5,150	18,299	1,224	43,380
2040-41	26,576	6,257	20,319	0	487	1,324	5,523	19,545	1,224	44,800
2041-42	26,744	6,611	20,133	0	492	1,354	5,864	20,655	1,224	46,030
2042-43	26,796	6,967	19,829	0	497	1,379	6,171	21,582	1,224	46,930
2043-44	26,992	7,299	19,693	0	500	1,407	6,445	22,415	1,224	47,870
2044-45	27,231	7,630	19,601	0	505	1,435	6,686	23,159	1,224	48,730
2045-46	27,448	7,958	19,490	0	510	1,461	6,894	23,803	1,224	49,440
2046-47	27,680	8,284	19,396	0	513	1,484	7,142	24,265	1,224	50,030
2047-48	27,854	8,633	19,221	0	516	1,505	7,356	24,610	1,224	50,390
2048-49	28,067	8,981	19,086	0	522	1,528	7,536	24,904	1,224	50,700
2049-50	28,374	9,320	19,054	0	524	1,547	7,677	25,176	1,224	51,060
2050-51	28,619	9,641	18,978	0	527	1,570	7,786	25,369	1,224	51,260
2051-52	28,734	9,971	18,763	0	531	1,588	7,857	25,525	1,224	51,250
2052-53	29,105	10,295	18,810	0	537	1,606	7,893	25,626	1,224	51,410
2053-54	29,130	10,613	18,517	0	538	1,623	7,908	25,702	1,224	51,190

- (a) - Econometric Winter Peak Demand - Reflects impacts of projected weather trends and economic growth
- (b) - Table I-8c Energy Efficiency and Codes & Standards Winter Coincident Peak Demand Reductions, Relative to 2022-23
- (c) - End-Use Winter Peak Demand - Reflects projected end use winter coincident peak demand
- (d) - The forecast of solar PV-related reductions to the winter peak is zero because the system typically peaks after sunset
- (e) - Table I-10c Non-Solar Distributed Generation Impacts, Behind-the-Meter, Total Reductions in Coincident Peak Demand
- (f) - Table I-12c Storage Impacts, Behind-the-Meter, Reductions in Coincident Peak Demand (pumped storage is not included - see Table III-2 for current resources)
- (g) - Table I-11d Electric Vehicle Winter Coincident Peak Demand
- (h) - Table I-13c Building Electrification Winter Coincident Peak Demand - future end-use electrification including heat pumps, water heating, cooking, and other end-uses
- (i) - Table I-14 Large Loads Forecast - reflects existing plus future load growth
- (j) - Table I-3b Baseline Winter Coincident Peak Demand Forecast

Table I-2: Baseline Annual Energy, Historical & Forecast
Reflects Impacts of Energy Saving Programs & Behind-the-Meter Generation

Annual Energy by Zone - GWh

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2013	15,790	9,981	16,368	6,448	8,312	12,030	9,965	2,986	6,204	53,316	22,114	163,514
2014	15,885	9,899	16,345	4,835	8,155	12,008	9,832	2,694	6,281	52,529	21,563	160,026
2015	15,761	9,906	16,299	4,441	8,141	12,422	10,065	2,847	6,299	53,485	21,906	161,572
2016	15,803	9,995	16,205	4,389	7,894	12,298	9,975	2,856	6,139	53,653	21,591	160,798
2017	15,261	9,775	15,819	4,322	7,761	11,823	9,669	2,883	5,976	52,266	20,815	156,370
2018	15,894	10,090	16,561	4,670	7,995	12,375	9,965	2,807	6,071	53,360	21,326	161,114
2019	14,872	9,715	15,809	4,825	7,868	11,829	9,574	2,816	5,976	52,003	20,545	155,832
2020	14,514	9,698	15,450	5,047	7,626	11,827	9,217	2,849	5,729	48,060	20,181	150,198
2021	14,731	9,797	15,560	5,415	7,616	11,827	9,262	2,884	5,781	48,832	20,273	151,978
2022	14,687	9,616	15,365	5,884	7,357	11,935	9,325	2,902	5,775	49,740	20,095	152,681
2023	14,960	9,800	15,310	5,950	7,440	11,740	9,150	2,830	5,610	49,230	19,760	151,780
2024	14,950	10,730	15,300	5,940	7,340	11,650	9,030	2,820	5,590	48,980	19,810	152,140
2025	14,800	10,740	16,490	5,880	7,220	11,560	8,960	2,820	5,540	48,480	19,900	152,390
2026	14,740	10,860	17,780	5,860	7,080	11,530	8,890	2,800	5,550	48,190	19,970	153,250
2027	14,800	10,770	18,040	6,070	6,980	11,610	8,830	2,820	5,570	48,250	20,040	153,780
2028	14,890	10,720	17,920	6,320	6,930	11,700	8,830	2,860	5,640	48,410	20,170	154,390
2029	14,950	10,730	17,920	6,540	6,940	11,900	8,920	2,900	5,710	48,600	20,420	155,530
2030	15,070	10,800	18,430	6,630	7,000	12,160	9,060	2,960	5,830	48,950	20,770	157,660
2031	15,260	10,950	18,620	6,660	7,150	12,470	9,250	3,030	5,960	49,490	21,260	160,100
2032	15,580	11,150	18,870	6,690	7,310	12,840	9,550	3,120	6,120	50,180	21,850	163,260
2033	15,960	11,400	19,200	6,710	7,510	13,240	9,880	3,220	6,350	51,230	22,520	167,220
2034	16,400	11,680	19,570	6,750	7,750	13,680	10,260	3,340	6,590	52,550	23,270	171,840
2035	16,930	12,030	20,050	6,810	8,040	14,200	10,700	3,470	6,830	53,710	24,140	176,910
2036	17,480	12,400	20,550	6,860	8,340	14,720	11,150	3,590	7,090	54,960	25,060	182,200
2037	18,030	12,770	21,060	6,910	8,660	15,270	11,610	3,720	7,340	56,240	25,970	187,580
2038	18,550	13,140	21,570	6,960	8,970	15,780	12,050	3,840	7,600	57,730	26,870	193,060
2039	19,080	13,510	22,100	7,000	9,280	16,330	12,500	3,960	7,890	59,260	27,760	198,670
2040	19,590	13,860	22,590	7,050	9,580	16,830	12,920	4,070	8,160	60,790	28,590	204,030
2041	20,040	14,180	23,030	7,090	9,850	17,290	13,300	4,160	8,410	62,230	29,330	208,910
2042	20,450	14,460	23,420	7,130	10,090	17,710	13,650	4,240	8,650	63,590	29,990	213,380
2043	20,840	14,730	23,810	7,170	10,330	18,120	14,000	4,320	8,860	64,700	30,620	217,500
2044	21,190	14,960	24,140	7,200	10,540	18,500	14,320	4,380	9,030	65,650	31,180	221,090
2045	21,490	15,160	24,420	7,230	10,720	18,840	14,610	4,440	9,190	66,450	31,650	224,200
2046	21,720	15,320	24,650	7,250	10,870	19,130	14,860	4,490	9,310	67,130	32,020	226,750
2047	21,940	15,460	24,860	7,270	11,000	19,410	15,090	4,530	9,420	67,730	32,360	229,070
2048	22,110	15,580	25,020	7,290	11,110	19,640	15,300	4,550	9,520	68,240	32,630	230,990
2049	22,230	15,660	25,150	7,300	11,180	19,840	15,460	4,580	9,580	68,570	32,820	232,370
2050	22,310	15,720	25,220	7,310	11,240	20,000	15,580	4,590	9,640	68,810	32,930	233,350
2051	22,360	15,760	25,280	7,320	11,270	20,150	15,690	4,600	9,690	69,090	33,010	234,220
2052	22,380	15,780	25,300	7,320	11,280	20,260	15,760	4,610	9,720	69,290	33,040	234,740
2053	22,370	15,780	25,300	7,320	11,280	20,350	15,800	4,600	9,740	69,420	33,060	235,020

Note: Historical values reflect actual experienced weather conditions. Forecasted values reflect expected trended weather conditions.

Note: Expected weather conditions include an increasing temperature trend from the NYISO *Climate Change Impact Study Phase I* report.

Table I-3a: Baseline Summer Coincident Peak Demand, Historical & Forecast
 Reflects Impacts of Energy Saving Programs & Behind-the-Meter Generation

Coincident Summer Peak Demand by Zone - MW

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2013	2,549	2,030	2,921	819	1,540	2,392	2,358	721	1,517	11,456	5,653	33,956
2014	2,227	1,617	2,574	527	1,267	2,033	2,036	584	1,333	10,567	5,017	29,782
2015	2,632	1,926	2,705	557	1,376	2,294	2,151	617	1,345	10,410	5,126	31,139
2016	2,672	2,008	2,812	561	1,384	2,328	2,123	636	1,392	10,990	5,169	32,075
2017	2,439	1,800	2,557	502	1,152	2,032	2,063	607	1,334	10,241	4,972	29,699
2018	2,391	1,947	2,747	600	1,300	2,378	2,190	631	1,393	10,890	5,394	31,861
2019	2,367	1,841	2,592	603	1,305	2,224	2,180	652	1,313	10,015	5,305	30,397
2020	2,405	1,804	2,752	661	1,345	2,374	2,177	666	1,352	9,798	5,326	30,660
2021	2,611	1,918	2,705	588	1,366	2,352	2,236	686	1,353	10,108	4,996	30,919
2022	2,489	1,921	2,689	733	1,269	2,292	2,133	631	1,301	9,934	5,113	30,505
2023	2,687	1,993	2,694	690	1,386	2,408	2,150	621	1,397	11,023	4,999	32,048
2024	2,701	2,137	2,731	692	1,426	2,412	2,137	620	1,397	11,060	4,967	32,280
2025	2,688	2,140	2,881	690	1,420	2,415	2,114	616	1,396	11,080	4,950	32,390
2026	2,678	2,140	3,026	686	1,406	2,422	2,103	613	1,384	11,040	4,942	32,440
2027	2,669	2,139	3,051	724	1,386	2,429	2,105	612	1,377	10,980	4,938	32,410
2028	2,660	2,138	3,040	751	1,366	2,434	2,110	611	1,370	10,880	4,950	32,310
2029	2,651	2,144	3,022	779	1,364	2,448	2,125	613	1,363	10,830	4,961	32,300
2030	2,652	2,156	3,087	780	1,370	2,465	2,152	619	1,367	10,860	4,982	32,490
2031	2,657	2,174	3,110	781	1,381	2,485	2,183	626	1,381	10,970	5,002	32,750
2032	2,688	2,198	3,133	782	1,395	2,508	2,220	638	1,400	11,120	5,028	33,110
2033	2,718	2,220	3,157	783	1,407	2,530	2,258	650	1,424	11,310	5,063	33,520
2034	2,763	2,251	3,199	785	1,436	2,564	2,307	659	1,448	11,490	5,108	34,010
2035	2,808	2,282	3,243	789	1,466	2,606	2,354	665	1,479	11,670	5,178	34,540
2036	2,863	2,315	3,290	794	1,502	2,656	2,402	672	1,506	11,800	5,240	35,040
2037	2,916	2,347	3,342	800	1,537	2,698	2,448	680	1,533	11,910	5,299	35,510
2038	2,963	2,379	3,392	805	1,567	2,755	2,494	688	1,552	12,070	5,365	36,030
2039	3,004	2,407	3,431	808	1,594	2,797	2,533	696	1,579	12,220	5,431	36,500
2040	3,057	2,438	3,479	813	1,627	2,838	2,574	704	1,601	12,320	5,479	36,930
2041	3,095	2,465	3,505	816	1,652	2,887	2,609	710	1,626	12,450	5,535	37,350
2042	3,129	2,489	3,538	819	1,674	2,923	2,641	716	1,648	12,580	5,583	37,740
2043	3,170	2,512	3,580	823	1,700	2,963	2,673	721	1,668	12,660	5,620	38,090
2044	3,211	2,535	3,621	827	1,726	3,004	2,706	726	1,687	12,730	5,647	38,420
2045	3,241	2,556	3,647	829	1,745	3,036	2,739	730	1,700	12,830	5,687	38,740
2046	3,269	2,575	3,675	832	1,762	3,066	2,772	733	1,712	12,910	5,714	39,020
2047	3,296	2,593	3,701	834	1,778	3,095	2,804	737	1,724	12,980	5,748	39,290
2048	3,322	2,611	3,721	836	1,794	3,123	2,837	741	1,735	13,060	5,780	39,560
2049	3,345	2,628	3,741	837	1,807	3,149	2,866	744	1,746	13,130	5,807	39,800
2050	3,365	2,642	3,752	838	1,817	3,171	2,893	747	1,756	13,200	5,829	40,010
2051	3,383	2,655	3,769	839	1,826	3,191	2,917	750	1,764	13,270	5,846	40,210
2052	3,392	2,662	3,779	839	1,831	3,201	2,930	751	1,769	13,310	5,856	40,320
2053	3,400	2,668	3,789	840	1,834	3,210	2,941	752	1,773	13,340	5,863	40,410

Note: Historical values include demand response reductions when called. Forecast values assume no demand response reductions.

Note: Historical values reflect actual experienced weather conditions. Forecasted values reflect expected trended weather conditions.

Note: Con Edison and Orange & Rockland design their forecasts at the 67th percentile. Other Transmission Owners design their forecasts at the 50th percentile.

The aggregate NYCA baseline forecast design condition is 57th percentile summer peak day weather.

Note: Expected weather conditions include an increasing temperature trend from the NYISO *Climate Change Impact Study Phase I* report.

Table I-3b: Baseline Winter Coincident Peak Demand, Historical & Forecast
 Reflects Impacts of Energy Saving Programs & Behind-the-Meter Generation

Coincident Winter Peak Demand by Zone - MW

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2013-14	2,358	1,645	2,781	848	1,415	1,989	1,700	625	974	7,810	3,594	25,739
2014-15	2,419	1,617	2,689	725	1,339	1,925	1,556	537	954	7,481	3,406	24,648
2015-16	2,253	1,486	2,469	667	1,307	1,861	1,496	453	889	7,274	3,164	23,319
2016-17	2,295	1,600	2,573	671	1,395	1,867	1,549	530	917	7,482	3,285	24,164
2017-18	2,313	1,533	2,766	735	1,398	2,012	1,638	506	933	7,822	3,425	25,081
2018-19	2,107	1,566	2,668	747	1,416	2,066	1,618	534	941	7,674	3,390	24,727
2019-20	2,100	1,460	2,482	741	1,305	1,854	1,468	479	842	7,398	3,124	23,253
2020-21	2,095	1,505	2,418	750	1,251	1,856	1,481	485	869	6,689	3,143	22,542
2021-22	2,120	1,507	2,512	846	1,283	1,894	1,506	491	861	7,116	3,101	23,237
2022-23	2,087	1,566	2,637	721	1,344	1,927	1,580	487	872	7,070	3,078	23,369
2023-24	2,129	1,676	2,663	887	1,308	1,885	1,539	500	881	7,510	3,242	24,220
2024-25	2,148	1,695	2,755	891	1,326	1,914	1,534	500	886	7,580	3,301	24,530
2025-26	2,187	1,765	2,958	893	1,349	1,964	1,531	501	894	7,670	3,388	25,100
2026-27	2,236	1,803	3,101	896	1,366	2,024	1,575	506	908	7,790	3,495	25,700
2027-28	2,281	1,852	3,164	941	1,390	2,094	1,612	514	923	7,920	3,609	26,300
2028-29	2,341	1,910	3,213	976	1,418	2,168	1,674	524	942	8,080	3,744	26,990
2029-30	2,408	1,983	3,309	1,015	1,460	2,269	1,748	541	969	8,310	3,908	27,920
2030-31	2,485	2,068	3,419	1,024	1,511	2,384	1,831	562	1,003	8,590	4,093	28,970
2031-32	2,573	2,166	3,520	1,036	1,571	2,511	1,926	585	1,042	8,930	4,300	30,160
2032-33	2,691	2,277	3,633	1,048	1,638	2,652	2,035	612	1,088	9,320	4,536	31,530
2033-34	2,820	2,395	3,749	1,063	1,709	2,802	2,150	642	1,137	9,730	4,783	32,980
2034-35	3,001	2,548	3,914	1,079	1,807	2,965	2,294	668	1,202	10,220	5,062	34,760
2035-36	3,191	2,703	4,083	1,095	1,911	3,134	2,444	696	1,270	10,730	5,343	36,600
2036-37	3,354	2,852	4,222	1,108	1,999	3,285	2,578	720	1,337	11,240	5,615	38,310
2037-38	3,536	3,005	4,381	1,123	2,099	3,450	2,723	747	1,405	11,760	5,891	40,120
2038-39	3,711	3,153	4,534	1,137	2,191	3,609	2,863	773	1,470	12,250	6,159	41,850
2039-40	3,868	3,284	4,675	1,150	2,276	3,750	2,987	795	1,525	12,680	6,390	43,380
2040-41	4,011	3,407	4,808	1,161	2,353	3,883	3,101	814	1,577	13,080	6,605	44,800
2041-42	4,138	3,515	4,917	1,169	2,421	3,998	3,201	830	1,622	13,430	6,789	46,030
2042-43	4,219	3,594	4,978	1,176	2,465	4,078	3,275	842	1,659	13,720	6,924	46,930
2043-44	4,313	3,674	5,067	1,182	2,515	4,165	3,356	855	1,693	13,990	7,060	47,870
2044-45	4,400	3,748	5,137	1,189	2,561	4,247	3,432	865	1,725	14,240	7,186	48,730
2045-46	4,473	3,808	5,200	1,194	2,601	4,317	3,503	874	1,751	14,430	7,289	49,440
2046-47	4,532	3,857	5,256	1,199	2,634	4,376	3,560	882	1,773	14,590	7,371	50,030
2047-48	4,569	3,888	5,282	1,202	2,656	4,414	3,606	887	1,787	14,680	7,419	50,390
2048-49	4,591	3,914	5,301	1,203	2,667	4,443	3,640	889	1,803	14,790	7,459	50,700
2049-50	4,625	3,944	5,324	1,205	2,686	4,478	3,682	894	1,817	14,900	7,505	51,060
2050-51	4,645	3,960	5,339	1,204	2,695	4,500	3,711	896	1,825	14,960	7,525	51,260
2051-52	4,645	3,961	5,339	1,206	2,694	4,505	3,723	894	1,824	14,950	7,509	51,250
2052-53	4,659	3,975	5,353	1,205	2,699	4,522	3,744	896	1,831	15,010	7,516	51,410
2053-54	4,628	3,958	5,315	1,203	2,683	4,499	3,734	890	1,827	14,980	7,473	51,190

Note: Historical values reflect actual experienced weather conditions. Forecasted values reflect expected trended weather conditions.

Note: Expected weather conditions include an increasing temperature trend from the NYISO *Climate Change Impact Study Phase I* report.

Table I-4a: Baseline Summer Non-Coincident Peak Demand, Historical & Forecast
 Reflects Impacts of Energy Saving Programs & Behind-the-Meter Generation

Non-Coincident Summer Peak Demand by Zone - MW

Year	A	B	C	D	E	F	G	H	I	J	K
2013	2,821	2,103	2,998	822	1,559	2,423	2,367	721	1,517	11,456	5,747
2014	2,620	1,898	2,832	552	1,410	2,300	2,052	590	1,348	10,572	5,035
2015	2,728	1,954	2,815	595	1,403	2,306	2,204	632	1,398	10,586	5,236
2016	2,800	2,023	2,830	642	1,397	2,342	2,198	652	1,392	10,990	5,394
2017	2,494	1,828	2,649	543	1,343	2,192	2,125	633	1,395	10,671	5,121
2018	2,769	2,073	3,021	620	1,409	2,424	2,251	642	1,399	11,070	5,394
2019	2,620	1,926	2,705	609	1,396	2,301	2,243	659	1,392	10,802	5,438
2020	2,660	2,022	2,781	668	1,355	2,386	2,178	669	1,368	10,150	5,405
2021	2,650	2,002	2,803	694	1,395	2,392	2,274	686	1,417	10,352	5,120
2022	2,555	1,923	2,707	813	1,314	2,383	2,218	671	1,385	10,830	5,210
2023	2,774	2,037	2,762	709	1,425	2,449	2,193	633	1,424	11,239	5,082
2024	2,791	2,184	2,799	712	1,466	2,453	2,180	632	1,424	11,280	5,049
2025	2,778	2,187	2,953	710	1,460	2,456	2,156	628	1,423	11,300	5,032
2026	2,768	2,187	3,101	706	1,445	2,463	2,145	625	1,411	11,260	5,024
2027	2,758	2,186	3,127	745	1,425	2,470	2,147	624	1,404	11,200	5,020
2028	2,749	2,185	3,116	773	1,404	2,475	2,152	623	1,397	11,090	5,032
2029	2,740	2,191	3,097	802	1,402	2,490	2,168	625	1,390	11,040	5,043
2030	2,741	2,203	3,164	803	1,408	2,507	2,195	631	1,394	11,070	5,065
2031	2,746	2,222	3,187	804	1,420	2,527	2,227	638	1,408	11,190	5,085
2032	2,778	2,246	3,211	805	1,434	2,551	2,265	651	1,427	11,340	5,111
2033	2,809	2,269	3,236	806	1,446	2,573	2,303	663	1,452	11,530	5,147
2034	2,856	2,301	3,279	808	1,476	2,608	2,353	672	1,476	11,720	5,193
2035	2,902	2,332	3,324	812	1,507	2,650	2,401	678	1,508	11,900	5,264
2036	2,959	2,366	3,372	817	1,544	2,701	2,450	685	1,536	12,030	5,327
2037	3,014	2,399	3,425	823	1,580	2,744	2,497	693	1,563	12,140	5,387
2038	3,062	2,431	3,476	829	1,611	2,802	2,544	701	1,582	12,310	5,454
2039	3,105	2,460	3,516	832	1,639	2,845	2,584	710	1,610	12,460	5,521
2040	3,159	2,492	3,566	837	1,673	2,886	2,626	718	1,632	12,560	5,570
2041	3,199	2,519	3,592	840	1,698	2,936	2,661	724	1,658	12,690	5,627
2042	3,234	2,544	3,626	843	1,721	2,973	2,694	730	1,680	12,830	5,676
2043	3,276	2,567	3,669	847	1,748	3,013	2,727	735	1,701	12,910	5,713
2044	3,319	2,591	3,711	851	1,774	3,055	2,760	740	1,720	12,980	5,741
2045	3,350	2,612	3,738	853	1,794	3,088	2,794	744	1,733	13,080	5,781
2046	3,379	2,632	3,767	856	1,811	3,118	2,828	747	1,746	13,160	5,809
2047	3,406	2,650	3,793	858	1,828	3,148	2,860	751	1,758	13,230	5,843
2048	3,433	2,668	3,814	860	1,844	3,176	2,894	756	1,769	13,320	5,876
2049	3,457	2,686	3,834	862	1,858	3,203	2,924	759	1,780	13,390	5,903
2050	3,478	2,700	3,845	863	1,868	3,225	2,951	762	1,790	13,460	5,926
2051	3,496	2,713	3,863	864	1,877	3,245	2,976	765	1,799	13,530	5,943
2052	3,506	2,721	3,873	864	1,882	3,255	2,989	766	1,804	13,570	5,953
2053	3,514	2,727	3,883	865	1,885	3,265	3,000	767	1,808	13,600	5,960

Note: Historical values include demand response reductions when called. Forecast values assume no demand response reductions.

Note: Historical values reflect actual experienced weather conditions. Forecasted values reflect expected trended weather conditions.

Note: Con Edison and Orange & Rockland design their forecasts at the 67th percentile.

Other Transmission Owners design their forecasts at the 50th percentile.

Note: Expected weather conditions include an increasing temperature trend from the NYISO *Climate Change Impact Study Phase I* report.

Table I-4b: Baseline Winter Non-Coincident Peak Demand, Historical & Forecast
Reflects Impacts of Energy Saving Programs & Behind-the-Meter Generation

Non-Coincident Winter Peak Demand by Zone - MW

Year	A	B	C	D	E	F	G	H	I	J	K
2013-14	2,358	1,645	2,781	848	1,415	1,989	1,700	625	974	7,810	3,594
2014-15	2,419	1,617	2,689	725	1,339	1,925	1,556	537	954	7,481	3,406
2015-16	2,253	1,486	2,469	667	1,307	1,861	1,496	453	889	7,274	3,164
2016-17	2,295	1,600	2,573	671	1,395	1,867	1,549	530	917	7,482	3,285
2017-18	2,313	1,533	2,766	735	1,398	2,012	1,638	506	933	7,822	3,425
2018-19	2,107	1,566	2,668	747	1,416	2,066	1,618	534	941	7,674	3,390
2019-20	2,100	1,460	2,482	741	1,305	1,854	1,468	479	842	7,398	3,124
2020-21	2,095	1,505	2,418	750	1,251	1,856	1,481	485	869	6,689	3,143
2021-22	2,120	1,507	2,512	846	1,283	1,894	1,506	491	861	7,116	3,101
2022-23	2,087	1,566	2,637	835	1,344	1,927	1,580	522	872	7,070	3,123
2023-24	2,152	1,689	2,668	906	1,332	1,896	1,550	511	891	7,580	3,255
2024-25	2,172	1,709	2,761	910	1,350	1,925	1,545	511	896	7,650	3,314
2025-26	2,211	1,779	2,964	912	1,373	1,976	1,542	512	904	7,740	3,401
2026-27	2,261	1,817	3,108	915	1,391	2,036	1,586	517	918	7,860	3,509
2027-28	2,306	1,867	3,170	961	1,415	2,107	1,623	525	933	7,990	3,623
2028-29	2,367	1,925	3,220	996	1,444	2,181	1,686	535	952	8,150	3,759
2029-30	2,434	1,999	3,315	1,036	1,486	2,283	1,760	552	980	8,380	3,924
2030-31	2,512	2,085	3,426	1,046	1,538	2,398	1,844	574	1,014	8,670	4,110
2031-32	2,601	2,183	3,527	1,058	1,599	2,526	1,939	597	1,053	9,010	4,317
2032-33	2,721	2,295	3,641	1,070	1,667	2,668	2,049	625	1,100	9,400	4,554
2033-34	2,851	2,414	3,756	1,085	1,740	2,819	2,165	655	1,150	9,820	4,802
2034-35	3,034	2,568	3,922	1,102	1,840	2,983	2,310	682	1,215	10,310	5,082
2035-36	3,226	2,725	4,091	1,118	1,945	3,153	2,461	711	1,284	10,830	5,364
2036-37	3,391	2,875	4,230	1,131	2,035	3,305	2,596	735	1,352	11,340	5,637
2037-38	3,575	3,029	4,390	1,147	2,137	3,471	2,742	763	1,420	11,870	5,915
2038-39	3,752	3,178	4,543	1,161	2,230	3,631	2,883	789	1,486	12,360	6,184
2039-40	3,911	3,310	4,684	1,174	2,317	3,773	3,008	812	1,542	12,790	6,416
2040-41	4,055	3,434	4,818	1,185	2,395	3,906	3,123	831	1,594	13,200	6,631
2041-42	4,184	3,543	4,927	1,194	2,465	4,022	3,223	847	1,640	13,550	6,816
2042-43	4,265	3,623	4,988	1,201	2,509	4,102	3,298	860	1,677	13,840	6,952
2043-44	4,360	3,703	5,077	1,207	2,560	4,190	3,379	873	1,712	14,120	7,088
2044-45	4,448	3,778	5,147	1,214	2,607	4,272	3,456	883	1,744	14,370	7,215
2045-46	4,522	3,838	5,210	1,219	2,648	4,343	3,528	892	1,770	14,560	7,318
2046-47	4,582	3,888	5,267	1,224	2,681	4,402	3,585	901	1,793	14,720	7,400
2047-48	4,619	3,919	5,293	1,227	2,704	4,440	3,631	906	1,807	14,810	7,449
2048-49	4,642	3,945	5,312	1,228	2,715	4,470	3,665	908	1,823	14,920	7,489
2049-50	4,676	3,976	5,335	1,230	2,734	4,505	3,708	913	1,837	15,030	7,535
2050-51	4,696	3,992	5,350	1,229	2,744	4,527	3,737	915	1,845	15,090	7,555
2051-52	4,696	3,993	5,350	1,231	2,742	4,532	3,749	913	1,844	15,080	7,539
2052-53	4,710	4,007	5,364	1,230	2,748	4,549	3,770	915	1,851	15,150	7,546
2053-54	4,679	3,990	5,326	1,228	2,731	4,526	3,760	909	1,847	15,110	7,503

Note: Historical values reflect actual experienced weather conditions. Forecasted values reflect expected trended weather conditions.

Note: Expected weather conditions include an increasing temperature trend from the NYSO *Climate Change Impact Study Phase I* report.

Table I-5: Baseline Peak Demand in G-to-J Locality, Historical & Forecast
 Reflects Impacts of Energy Saving Programs & Behind-the-Meter Generation

G-to-J Locality Summer Peak Demand by Zone - MW

Year	G	H	I	J	G-J
2013	2,358	721	1,517	11,456	16,052
2014	2,046	585	1,348	10,572	14,551
2015	2,168	629	1,398	10,583	14,778
2016	2,123	636	1,392	10,990	15,141
2017	2,125	611	1,367	10,671	14,774
2018	2,130	642	1,379	10,979	15,130
2019	1,992	582	1,336	10,767	14,677
2020	1,992	648	1,368	10,139	14,147
2021	2,197	673	1,407	10,352	14,629
2022	2,133	671	1,385	10,779	14,968
2023	2,178	629	1,416	11,170	15,393
2024	2,165	628	1,416	11,207	15,416
2025	2,142	624	1,415	11,227	15,408
2026	2,131	621	1,402	11,187	15,341
2027	2,133	620	1,395	11,126	15,274
2028	2,138	619	1,388	11,025	15,170
2029	2,153	621	1,381	10,974	15,129
2030	2,181	627	1,385	11,004	15,197
2031	2,212	634	1,399	11,116	15,361
2032	2,250	646	1,419	11,268	15,583
2033	2,288	659	1,443	11,460	15,850
2034	2,338	668	1,467	11,643	16,116
2035	2,385	674	1,499	11,825	16,383
2036	2,434	681	1,526	11,957	16,598
2037	2,481	689	1,553	12,068	16,791
2038	2,527	697	1,573	12,231	17,028
2039	2,567	705	1,600	12,383	17,255
2040	2,608	713	1,622	12,484	17,427
2041	2,644	719	1,648	12,616	17,627
2042	2,676	726	1,670	12,747	17,819
2043	2,709	731	1,690	12,828	17,958
2044	2,742	736	1,709	12,899	18,086
2045	2,775	740	1,723	13,001	18,239
2046	2,809	743	1,735	13,082	18,369
2047	2,841	747	1,747	13,153	18,488
2048	2,875	751	1,758	13,234	18,618
2049	2,904	754	1,769	13,305	18,732
2050	2,931	757	1,779	13,376	18,843
2051	2,956	760	1,787	13,446	18,949
2052	2,969	761	1,793	13,487	19,010
2053	2,980	762	1,797	13,517	19,056

G-to-J Locality Winter Peak Demand by Zone - MW

Year	G	H	I	J	G-J
2013-14	1,683	601	965	7,896	11,145
2014-15	1,500	515	941	7,632	10,588
2015-16	1,524	442	896	7,297	10,159
2016-17	1,549	530	917	7,483	10,479
2017-18	1,638	506	933	7,822	10,899
2018-19	1,593	521	941	7,727	10,782
2019-20	1,468	479	842	7,398	10,187
2020-21	1,465	533	841	6,829	9,668
2021-22	1,506	491	861	7,116	9,974
2022-23	1,580	487	872	7,070	10,009
2023-24	1,536	498	881	7,555	10,470
2024-25	1,531	498	886	7,625	10,540
2025-26	1,528	499	894	7,716	10,637
2026-27	1,572	504	908	7,837	10,821
2027-28	1,609	512	923	7,968	11,012
2028-29	1,671	522	942	8,128	11,263
2029-30	1,745	539	969	8,360	11,613
2030-31	1,827	560	1,003	8,642	12,032
2031-32	1,922	583	1,042	8,984	12,531
2032-33	2,031	610	1,088	9,376	13,105
2033-34	2,146	639	1,137	9,788	13,710
2034-35	2,289	665	1,202	10,281	14,437
2035-36	2,439	693	1,270	10,794	15,196
2036-37	2,573	717	1,337	11,307	15,934
2037-38	2,718	744	1,405	11,831	16,698
2038-39	2,857	770	1,470	12,324	17,421
2039-40	2,981	792	1,525	12,756	18,054
2040-41	3,095	811	1,577	13,158	18,641
2041-42	3,195	827	1,622	13,511	19,155
2042-43	3,268	839	1,659	13,802	19,568
2043-44	3,349	852	1,693	14,074	19,968
2044-45	3,425	862	1,725	14,325	20,337
2045-46	3,496	871	1,751	14,517	20,635
2046-47	3,553	878	1,773	14,678	20,882
2047-48	3,599	883	1,787	14,768	21,037
2048-49	3,633	885	1,803	14,879	21,200
2049-50	3,675	890	1,817	14,989	21,371
2050-51	3,704	892	1,825	15,050	21,471
2051-52	3,716	890	1,824	15,040	21,470
2052-53	3,737	892	1,831	15,100	21,560
2053-54	3,727	886	1,827	15,070	21,510

Note: Historical values include demand response reductions when called. Forecast values assume no demand response reductions.

Note: Historical values reflect actual experienced weather conditions. Forecasted values reflect expected trended weather conditions.

Note: Con Edison and Orange & Rockland design their forecasts at the 67th percentile. Other Transmission Owners design their forecasts at the 50th percentile. The aggregate NYCA baseline forecast design condition is 57th percentile summer peak day weather.

Note: Expected weather conditions include an increasing temperature trend from the NYISO *Climate Change Impact Study Phase I* report.

Table I-6a: 90th Percentile Forecast of Baseline Energy due to Weather
 Reflects Impacts of Energy Saving Programs & Behind-the-Meter Generation

90th Percentile of Annual Energy due to Weather - GWh

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2023	15,083	9,900	15,429	5,980	7,500	11,859	9,264	2,870	5,682	49,796	20,047	153,410
2024	15,073	10,839	15,419	5,970	7,399	11,768	9,143	2,860	5,662	49,543	20,097	153,773
2025	14,921	10,850	16,619	5,909	7,278	11,677	9,072	2,860	5,611	49,038	20,189	154,024
2026	14,861	10,971	17,919	5,889	7,137	11,646	9,001	2,840	5,621	48,744	20,260	154,889
2027	14,921	10,880	18,181	6,100	7,037	11,727	8,940	2,860	5,641	48,805	20,331	155,423
2028	15,012	10,829	18,060	6,352	6,986	11,818	8,940	2,901	5,712	48,967	20,462	156,039
2029	15,073	10,839	18,060	6,573	6,996	12,020	9,032	2,941	5,783	49,159	20,716	157,192
2030	15,194	10,910	18,574	6,663	7,057	12,283	9,173	3,002	5,905	49,513	21,071	159,345
2031	15,385	11,062	18,765	6,693	7,208	12,596	9,366	3,073	6,036	50,059	21,568	161,811
2032	15,708	11,264	19,017	6,723	7,369	12,970	9,669	3,165	6,198	50,757	22,167	165,007
2033	16,091	11,516	19,350	6,744	7,571	13,374	10,004	3,266	6,431	51,819	22,847	169,013
2034	16,534	11,799	19,723	6,784	7,813	13,818	10,388	3,388	6,674	53,154	23,607	173,682
2035	17,069	12,153	20,206	6,844	8,105	14,343	10,834	3,520	6,917	54,328	24,490	178,809
2036	17,623	12,526	20,710	6,894	8,408	14,869	11,289	3,641	7,181	55,592	25,423	184,156
2037	18,178	12,900	21,224	6,945	8,730	15,424	11,755	3,773	7,434	56,887	26,347	189,597
2038	18,702	13,274	21,738	6,995	9,043	15,939	12,201	3,895	7,697	58,394	27,260	195,138
2039	19,236	13,648	22,272	7,035	9,355	16,495	12,656	4,017	7,991	59,941	28,163	200,809
2040	19,751	14,001	22,766	7,085	9,658	17,000	13,082	4,128	8,264	61,489	29,005	206,229
2041	20,204	14,325	23,210	7,125	9,930	17,465	13,466	4,219	8,518	62,946	29,755	211,163
2042	20,618	14,607	23,603	7,166	10,172	17,889	13,821	4,301	8,761	64,321	30,425	215,684
2043	21,011	14,880	23,996	7,206	10,414	18,303	14,175	4,382	8,973	65,444	31,064	219,848
2044	21,364	15,113	24,328	7,236	10,625	18,687	14,499	4,443	9,146	66,405	31,632	223,478
2045	21,666	15,315	24,610	7,266	10,807	19,030	14,793	4,503	9,308	67,214	32,109	226,621
2046	21,898	15,476	24,842	7,286	10,958	19,323	15,046	4,554	9,429	67,902	32,484	229,198
2047	22,120	15,618	25,054	7,306	11,089	19,606	15,279	4,595	9,541	68,509	32,829	231,546
2048	22,291	15,739	25,215	7,326	11,200	19,838	15,491	4,615	9,642	69,025	33,103	233,485
2049	22,412	15,820	25,346	7,337	11,271	20,040	15,653	4,645	9,703	69,359	33,296	234,882
2050	22,493	15,880	25,417	7,347	11,331	20,202	15,775	4,656	9,763	69,601	33,407	235,872
2051	22,543	15,921	25,477	7,357	11,361	20,354	15,886	4,666	9,814	69,885	33,489	236,753
2052	22,564	15,941	25,497	7,357	11,371	20,465	15,957	4,676	9,844	70,087	33,519	237,278
2053	22,553	15,941	25,497	7,357	11,371	20,556	15,998	4,666	9,865	70,218	33,539	237,561

Note: 90th percentile energy forecast is representative of warmer than expected trended weather conditions in summer and colder than expected trended weather conditions in winter.

Note: Expected weather conditions include an increasing temperature trend from the NYISO *Climate Change Impact Study Phase I* report.

Table I-6b: 10th Percentile Forecast of Baseline Energy due to Weather
 Reflects Impacts of Energy Saving Programs & Behind-the-Meter Generation

10th Percentile of Annual Energy due to Weather - GWh

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2023	14,837	9,700	15,191	5,920	7,380	11,621	9,036	2,790	5,538	48,664	19,473	150,150
2024	14,827	10,621	15,181	5,910	7,281	11,532	8,917	2,780	5,518	48,417	19,523	150,507
2025	14,679	10,630	16,361	5,851	7,162	11,443	8,848	2,780	5,469	47,922	19,611	150,756
2026	14,619	10,749	17,641	5,831	7,023	11,414	8,779	2,760	5,479	47,636	19,680	151,611
2027	14,679	10,660	17,899	6,040	6,923	11,493	8,720	2,780	5,499	47,695	19,749	152,137
2028	14,768	10,611	17,780	6,288	6,874	11,582	8,720	2,819	5,568	47,853	19,878	152,741
2029	14,827	10,621	17,780	6,507	6,884	11,780	8,809	2,859	5,637	48,041	20,124	153,869
2030	14,946	10,690	18,286	6,597	6,943	12,037	8,947	2,918	5,755	48,387	20,469	155,975
2031	15,135	10,838	18,475	6,627	7,092	12,344	9,134	2,987	5,884	48,921	20,952	158,389
2032	15,452	11,036	18,723	6,657	7,251	12,710	9,431	3,075	6,042	49,603	21,533	161,513
2033	15,829	11,284	19,050	6,676	7,449	13,106	9,757	3,174	6,269	50,641	22,193	165,428
2034	16,266	11,561	19,417	6,716	7,687	13,542	10,132	3,292	6,506	51,946	22,933	169,998
2035	16,791	11,907	19,894	6,776	7,975	14,057	10,566	3,420	6,743	53,092	23,790	175,011
2036	17,337	12,274	20,390	6,826	8,272	14,571	11,011	3,539	6,999	54,328	24,697	180,244
2037	17,882	12,640	20,896	6,875	8,590	15,116	11,465	3,667	7,246	55,593	25,593	185,563
2038	18,398	13,006	21,402	6,925	8,897	15,621	11,899	3,785	7,503	57,066	26,480	190,982
2039	18,924	13,372	21,928	6,965	9,205	16,165	12,344	3,903	7,789	58,579	27,357	196,531
2040	19,429	13,719	22,414	7,015	9,502	16,660	12,759	4,012	8,056	60,091	28,175	201,832
2041	19,876	14,035	22,850	7,055	9,770	17,115	13,134	4,101	8,302	61,514	28,905	206,657
2042	20,282	14,313	23,237	7,094	10,008	17,531	13,479	4,179	8,539	62,859	29,555	211,076
2043	20,669	14,580	23,624	7,134	10,246	17,937	13,825	4,258	8,747	63,956	30,176	215,152
2044	21,016	14,807	23,952	7,164	10,455	18,313	14,141	4,317	8,914	64,895	30,728	218,702
2045	21,314	15,005	24,230	7,194	10,633	18,650	14,427	4,377	9,072	65,686	31,191	221,779
2046	21,542	15,164	24,458	7,214	10,782	18,937	14,674	4,426	9,191	66,358	31,556	224,302
2047	21,760	15,302	24,666	7,234	10,911	19,214	14,901	4,465	9,299	66,951	31,891	226,594
2048	21,929	15,421	24,825	7,254	11,020	19,442	15,109	4,485	9,398	67,455	32,157	228,495
2049	22,048	15,500	24,954	7,264	11,089	19,640	15,267	4,515	9,457	67,781	32,344	229,859
2050	22,127	15,560	25,023	7,273	11,149	19,798	15,385	4,524	9,517	68,019	32,453	230,828
2051	22,177	15,599	25,083	7,283	11,179	19,946	15,494	4,534	9,566	68,295	32,531	231,687
2052	22,196	15,619	25,103	7,283	11,189	20,055	15,563	4,544	9,596	68,493	32,561	232,202
2053	22,187	15,619	25,103	7,283	11,189	20,144	15,603	4,534	9,615	68,622	32,581	232,480

Note: 90th percentile energy forecast is representative of cooler than expected trended weather conditions in summer and warmer than expected trended weather conditions in winter.

Note: Expected weather conditions include an increasing temperature trend from the NYISO *Climate Change Impact Study Phase I* report.

Table I-7a: 90th Percentile Forecast of Baseline Summer Coincident Peak Demand due to Weather
 Reflects Impacts of Energy Saving Programs & Behind-the-Meter Generation

90th Percentile of Summer Coincident Peak Demand due to Weather - MW

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2023	2,870	2,129	2,877	737	1,480	2,553	2,279	653	1,468	11,434	5,403	33,883
2024	2,885	2,282	2,917	739	1,523	2,557	2,266	652	1,468	11,473	5,369	34,131
2025	2,871	2,286	3,077	737	1,517	2,560	2,241	648	1,467	11,494	5,350	34,248
2026	2,860	2,286	3,232	733	1,502	2,568	2,230	644	1,455	11,452	5,342	34,304
2027	2,851	2,285	3,259	773	1,480	2,575	2,232	643	1,447	11,390	5,338	34,273
2028	2,841	2,283	3,247	802	1,459	2,580	2,237	642	1,440	11,286	5,350	34,167
2029	2,831	2,290	3,228	832	1,457	2,595	2,253	644	1,433	11,234	5,362	34,159
2030	2,832	2,303	3,297	833	1,463	2,613	2,281	651	1,437	11,265	5,385	34,360
2031	2,838	2,322	3,322	834	1,475	2,635	2,314	658	1,452	11,379	5,407	34,636
2032	2,871	2,348	3,346	835	1,490	2,659	2,354	671	1,472	11,535	5,435	35,016
2033	2,903	2,371	3,372	836	1,503	2,682	2,394	683	1,497	11,732	5,473	35,446
2034	2,951	2,404	3,417	838	1,534	2,718	2,446	693	1,522	11,919	5,521	35,963
2035	2,999	2,437	3,464	843	1,566	2,763	2,496	699	1,555	12,106	5,597	36,525
2036	3,058	2,473	3,514	848	1,604	2,816	2,547	706	1,583	12,240	5,664	37,053
2037	3,114	2,507	3,569	854	1,642	2,860	2,595	715	1,611	12,355	5,728	37,550
2038	3,165	2,541	3,623	860	1,674	2,921	2,644	723	1,631	12,521	5,799	38,102
2039	3,208	2,571	3,664	863	1,702	2,965	2,685	732	1,660	12,676	5,870	38,596
2040	3,265	2,604	3,716	868	1,738	3,009	2,729	740	1,683	12,780	5,922	39,054
2041	3,306	2,633	3,743	872	1,764	3,061	2,766	746	1,709	12,915	5,983	39,498
2042	3,342	2,658	3,779	875	1,788	3,099	2,800	753	1,732	13,050	6,035	39,911
2043	3,386	2,683	3,824	879	1,816	3,141	2,834	758	1,753	13,133	6,075	40,282
2044	3,429	2,707	3,867	883	1,843	3,185	2,869	763	1,773	13,205	6,104	40,628
2045	3,462	2,730	3,895	885	1,864	3,219	2,904	767	1,787	13,309	6,147	40,969
2046	3,491	2,750	3,925	889	1,882	3,250	2,939	771	1,800	13,392	6,176	41,265
2047	3,520	2,769	3,953	891	1,899	3,281	2,973	775	1,812	13,465	6,213	41,551
2048	3,548	2,789	3,974	893	1,916	3,311	3,008	779	1,824	13,547	6,248	41,837
2049	3,573	2,807	3,996	894	1,930	3,338	3,038	782	1,835	13,620	6,277	42,090
2050	3,594	2,822	4,007	895	1,941	3,362	3,067	785	1,846	13,693	6,301	42,313
2051	3,613	2,836	4,025	896	1,950	3,383	3,093	788	1,854	13,765	6,319	42,522
2052	3,623	2,843	4,036	896	1,956	3,394	3,106	789	1,860	13,807	6,330	42,640
2053	3,631	2,850	4,047	897	1,959	3,403	3,118	790	1,864	13,838	6,337	42,734

Note: 90th percentile summer peak demand forecast is representative of a warmer than expected summer peak day.

Note: Expected weather conditions include an increasing temperature trend from the NYISO *Climate Change Impact Study Phase I* report.

Note: Forecast values assume no demand response reductions.

Table I-7b: 10th Percentile Forecast of Baseline Summer Coincident Peak Demand due to Weather
 Reflects Impacts of Energy Saving Programs & Behind-the-Meter Generation

10th Percentile of Summer Coincident Peak Demand due to Weather - MW

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2023	2,490	1,847	2,497	640	1,285	2,212	1,975	553	1,243	10,094	4,540	29,376
2024	2,503	1,981	2,531	641	1,322	2,216	1,963	552	1,243	10,128	4,511	29,591
2025	2,491	1,983	2,670	640	1,316	2,218	1,942	548	1,242	10,146	4,496	29,692
2026	2,482	1,983	2,805	636	1,303	2,225	1,932	545	1,232	10,110	4,489	29,742
2027	2,474	1,983	2,828	671	1,285	2,231	1,934	545	1,225	10,055	4,485	29,716
2028	2,465	1,982	2,818	696	1,266	2,236	1,938	544	1,219	9,963	4,496	29,623
2029	2,457	1,987	2,801	722	1,264	2,249	1,952	545	1,213	9,917	4,506	29,613
2030	2,458	1,998	2,861	723	1,270	2,264	1,977	551	1,216	9,945	4,525	29,788
2031	2,463	2,015	2,883	724	1,280	2,283	2,005	557	1,229	10,046	4,543	30,028
2032	2,491	2,037	2,904	725	1,293	2,304	2,039	568	1,246	10,183	4,567	30,357
2033	2,519	2,058	2,926	726	1,304	2,324	2,074	578	1,267	10,357	4,599	30,732
2034	2,561	2,086	2,965	728	1,331	2,355	2,119	586	1,288	10,522	4,639	31,180
2035	2,603	2,115	3,006	731	1,359	2,394	2,162	592	1,316	10,687	4,703	31,668
2036	2,654	2,146	3,049	736	1,392	2,440	2,206	598	1,340	10,806	4,759	32,126
2037	2,703	2,175	3,098	741	1,425	2,478	2,249	605	1,364	10,906	4,813	32,557
2038	2,746	2,205	3,144	746	1,452	2,531	2,291	612	1,381	11,053	4,873	33,034
2039	2,784	2,231	3,180	749	1,477	2,569	2,327	619	1,405	11,190	4,933	33,464
2040	2,833	2,260	3,225	754	1,508	2,607	2,364	626	1,425	11,282	4,976	33,860
2041	2,869	2,285	3,249	756	1,531	2,652	2,397	632	1,447	11,401	5,027	34,246
2042	2,900	2,307	3,279	759	1,552	2,685	2,426	637	1,466	11,520	5,071	34,602
2043	2,938	2,328	3,318	763	1,576	2,722	2,455	642	1,484	11,593	5,104	34,923
2044	2,976	2,350	3,356	767	1,600	2,759	2,486	646	1,501	11,657	5,129	35,227
2045	3,004	2,369	3,380	768	1,617	2,789	2,516	650	1,513	11,749	5,165	35,520
2046	3,030	2,387	3,406	771	1,633	2,816	2,546	652	1,523	11,822	5,190	35,776
2047	3,055	2,403	3,430	773	1,648	2,843	2,576	656	1,534	11,886	5,221	36,025
2048	3,079	2,420	3,449	775	1,663	2,869	2,606	659	1,544	11,960	5,250	36,274
2049	3,100	2,436	3,467	776	1,675	2,893	2,633	662	1,554	12,024	5,274	36,494
2050	3,119	2,449	3,478	777	1,684	2,913	2,657	665	1,563	12,088	5,294	36,687
2051	3,136	2,461	3,493	778	1,692	2,931	2,679	667	1,570	12,152	5,310	36,869
2052	3,144	2,467	3,503	778	1,697	2,940	2,691	668	1,574	12,188	5,319	36,969
2053	3,151	2,473	3,512	779	1,700	2,949	2,702	669	1,578	12,216	5,325	37,054

Note: 10th percentile summer peak demand forecast is representative of a cooler than expected summer peak day.

Note: Expected weather conditions include an increasing temperature trend from the NYISO *Climate Change Impact Study Phase I* report.

Note: Forecast values assume no demand response reductions.

Table I-7c: 90th Percentile Forecast of Baseline Winter Coincident Peak Demand due to Weather
 Reflects Impacts of Energy Saving Programs & Behind-the-Meter Generation

90th Percentile of Winter Coincident Peak Demand due to Weather - MW

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2023-24	2,218	1,746	2,775	924	1,363	1,964	1,604	521	918	7,825	3,378	25,236
2024-25	2,238	1,766	2,871	928	1,382	1,994	1,598	521	923	7,898	3,439	25,558
2025-26	2,279	1,839	3,082	930	1,406	2,046	1,595	522	932	7,992	3,530	26,153
2026-27	2,330	1,879	3,231	934	1,423	2,109	1,641	527	946	8,117	3,641	26,778
2027-28	2,377	1,930	3,297	980	1,448	2,182	1,680	536	962	8,252	3,760	27,404
2028-29	2,439	1,990	3,348	1,017	1,477	2,259	1,744	546	982	8,419	3,901	28,122
2029-30	2,509	2,066	3,447	1,058	1,521	2,364	1,821	564	1,010	8,659	4,072	29,091
2030-31	2,589	2,155	3,562	1,067	1,574	2,484	1,908	586	1,045	8,950	4,265	30,185
2031-32	2,681	2,257	3,667	1,079	1,637	2,616	2,007	610	1,086	9,305	4,481	31,426
2032-33	2,804	2,373	3,786	1,092	1,707	2,763	2,120	638	1,134	9,711	4,726	32,854
2033-34	2,938	2,495	3,906	1,108	1,781	2,920	2,240	669	1,185	10,138	4,984	34,364
2034-35	3,127	2,655	4,078	1,124	1,883	3,089	2,390	696	1,252	10,649	5,274	36,217
2035-36	3,325	2,816	4,254	1,141	1,991	3,265	2,547	725	1,323	11,180	5,567	38,134
2036-37	3,495	2,972	4,399	1,154	2,083	3,423	2,686	750	1,393	11,712	5,851	39,918
2037-38	3,684	3,131	4,565	1,170	2,187	3,595	2,837	778	1,464	12,253	6,138	41,802
2038-39	3,867	3,285	4,724	1,185	2,283	3,760	2,983	805	1,532	12,764	6,417	43,605
2039-40	4,030	3,422	4,871	1,198	2,371	3,907	3,112	828	1,589	13,212	6,658	45,198
2040-41	4,179	3,550	5,010	1,210	2,452	4,046	3,231	848	1,643	13,629	6,882	46,680
2041-42	4,312	3,662	5,123	1,218	2,523	4,166	3,335	865	1,690	13,993	7,074	47,961
2042-43	4,396	3,745	5,187	1,225	2,568	4,249	3,412	877	1,729	14,296	7,214	48,898
2043-44	4,494	3,828	5,280	1,232	2,621	4,340	3,497	891	1,764	14,577	7,356	49,880
2044-45	4,585	3,905	5,352	1,239	2,668	4,425	3,576	901	1,797	14,837	7,487	50,772
2045-46	4,661	3,968	5,418	1,244	2,710	4,498	3,650	911	1,824	15,035	7,595	51,514
2046-47	4,722	4,019	5,476	1,249	2,744	4,560	3,709	919	1,847	15,202	7,680	52,127
2047-48	4,761	4,051	5,504	1,252	2,767	4,599	3,757	924	1,862	15,296	7,730	52,503
2048-49	4,784	4,078	5,523	1,253	2,779	4,629	3,793	926	1,879	15,410	7,772	52,826
2049-50	4,819	4,109	5,547	1,256	2,799	4,666	3,836	932	1,893	15,525	7,820	53,202
2050-51	4,840	4,126	5,563	1,255	2,808	4,689	3,867	934	1,902	15,588	7,841	53,413
2051-52	4,840	4,127	5,563	1,257	2,807	4,694	3,879	932	1,901	15,577	7,824	53,401
2052-53	4,854	4,142	5,578	1,256	2,812	4,712	3,901	934	1,908	15,640	7,831	53,568
2053-54	4,822	4,124	5,538	1,253	2,796	4,688	3,891	927	1,904	15,608	7,786	53,337

Note: 90th percentile winter peak demand forecast is representative of a colder than expected winter peak day.

Note: Expected weather conditions include an increasing temperature trend from the NYISO *Climate Change Impact Study Phase I* report.

Table I-7d: 10th Percentile Forecast of Baseline Winter Coincident Peak Demand due to Weather
 Reflects Impacts of Energy Saving Programs & Behind-the-Meter Generation

10th Percentile of Winter Coincident Peak Demand due to Weather - MW

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2023-24	2,023	1,593	2,531	843	1,243	1,792	1,463	475	837	7,138	3,081	23,019
2024-25	2,042	1,611	2,618	847	1,260	1,819	1,458	475	842	7,204	3,137	23,313
2025-26	2,079	1,677	2,811	849	1,282	1,867	1,455	476	850	7,290	3,220	23,856
2026-27	2,125	1,714	2,948	852	1,298	1,924	1,497	481	863	7,404	3,321	24,427
2027-28	2,168	1,760	3,007	894	1,321	1,990	1,532	489	877	7,527	3,430	24,995
2028-29	2,225	1,815	3,054	928	1,348	2,061	1,591	498	895	7,679	3,558	25,652
2029-30	2,289	1,885	3,145	965	1,388	2,157	1,661	514	921	7,898	3,715	26,538
2030-31	2,362	1,965	3,249	973	1,436	2,266	1,740	534	953	8,164	3,890	27,532
2031-32	2,445	2,059	3,345	985	1,493	2,387	1,831	556	990	8,487	4,087	28,665
2032-33	2,558	2,164	3,453	996	1,557	2,521	1,934	582	1,034	8,858	4,311	29,968
2033-34	2,680	2,276	3,563	1,010	1,624	2,663	2,043	610	1,081	9,248	4,546	31,344
2034-35	2,852	2,422	3,720	1,026	1,717	2,818	2,180	635	1,142	9,713	4,811	33,036
2035-36	3,033	2,569	3,881	1,041	1,816	2,979	2,323	661	1,207	10,198	5,078	34,786
2036-37	3,188	2,711	4,013	1,053	1,900	3,122	2,450	684	1,271	10,683	5,337	36,412
2037-38	3,361	2,856	4,164	1,067	1,995	3,279	2,588	710	1,335	11,177	5,599	38,131
2038-39	3,527	2,997	4,309	1,081	2,082	3,430	2,721	735	1,397	11,643	5,854	39,776
2039-40	3,676	3,121	4,443	1,093	2,163	3,564	2,839	756	1,449	12,051	6,073	41,228
2040-41	3,812	3,238	4,570	1,103	2,236	3,690	2,947	774	1,499	12,432	6,278	42,579
2041-42	3,933	3,341	4,673	1,111	2,301	3,800	3,042	789	1,542	12,764	6,452	43,748
2042-43	4,010	3,416	4,731	1,118	2,343	3,876	3,113	800	1,577	13,040	6,581	44,605
2043-44	4,099	3,492	4,816	1,123	2,390	3,959	3,190	813	1,609	13,296	6,710	45,497
2044-45	4,182	3,562	4,882	1,130	2,434	4,036	3,262	822	1,639	13,534	6,830	46,313
2045-46	4,251	3,619	4,942	1,135	2,472	4,103	3,329	831	1,664	13,715	6,928	46,989
2046-47	4,307	3,666	4,995	1,140	2,503	4,159	3,384	838	1,685	13,867	7,006	47,550
2047-48	4,342	3,695	5,020	1,142	2,524	4,195	3,427	843	1,698	13,952	7,051	47,889
2048-49	4,363	3,720	5,038	1,143	2,535	4,223	3,460	845	1,714	14,057	7,089	48,187
2049-50	4,396	3,748	5,060	1,145	2,553	4,256	3,499	850	1,727	14,161	7,133	48,528
2050-51	4,415	3,764	5,074	1,144	2,561	4,277	3,527	852	1,735	14,218	7,152	48,719
2051-52	4,415	3,765	5,074	1,146	2,560	4,282	3,538	850	1,734	14,209	7,137	48,710
2052-53	4,428	3,778	5,088	1,145	2,565	4,298	3,558	852	1,740	14,266	7,143	48,861
2053-54	4,399	3,762	5,052	1,143	2,550	4,276	3,549	846	1,736	14,237	7,103	48,653

Note: 10th percentile winter peak demand forecast is representative of a warmer than expected winter peak day.

Note: Expected weather conditions include an increasing temperature trend from the NYISO *Climate Change Impact Study Phase I* report.

Table I-7e: 99th Percentile Forecast of Baseline Summer Coincident Peak Demand due to Weather
 Reflects Impacts of Energy Saving Programs & Behind-the-Meter Generation

99th Percentile of Summer Coincident Peak Demand due to Weather - MW

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2023	2,998	2,224	3,006	770	1,546	2,653	2,369	679	1,528	11,876	5,733	35,382
2024	3,014	2,384	3,047	772	1,591	2,657	2,354	678	1,528	11,916	5,696	35,637
2025	2,999	2,388	3,214	770	1,584	2,660	2,329	674	1,527	11,937	5,677	35,759
2026	2,988	2,388	3,376	765	1,569	2,668	2,317	670	1,514	11,894	5,668	35,817
2027	2,978	2,387	3,404	808	1,546	2,676	2,319	669	1,506	11,829	5,663	35,785
2028	2,968	2,385	3,392	838	1,524	2,681	2,324	668	1,498	11,722	5,677	35,677
2029	2,958	2,392	3,372	869	1,522	2,697	2,341	670	1,491	11,668	5,690	35,670
2030	2,959	2,406	3,444	870	1,529	2,716	2,371	677	1,495	11,700	5,714	35,881
2031	2,965	2,426	3,470	871	1,541	2,738	2,405	685	1,510	11,819	5,737	36,167
2032	2,999	2,452	3,496	873	1,556	2,763	2,446	698	1,531	11,980	5,766	36,560
2033	3,033	2,477	3,522	874	1,570	2,787	2,488	711	1,557	12,185	5,807	37,011
2034	3,083	2,512	3,569	876	1,602	2,825	2,542	721	1,583	12,379	5,858	37,550
2035	3,133	2,546	3,618	880	1,636	2,871	2,593	727	1,617	12,573	5,938	38,132
2036	3,194	2,583	3,671	886	1,676	2,926	2,646	735	1,647	12,713	6,010	38,687
2037	3,254	2,619	3,729	893	1,715	2,972	2,697	744	1,676	12,831	6,077	39,207
2038	3,306	2,654	3,785	898	1,748	3,035	2,748	752	1,697	13,004	6,153	39,780
2039	3,352	2,686	3,828	902	1,779	3,081	2,790	761	1,727	13,165	6,229	40,300
2040	3,411	2,720	3,882	907	1,815	3,126	2,836	770	1,751	13,273	6,284	40,775
2041	3,453	2,750	3,911	910	1,843	3,180	2,874	776	1,778	13,413	6,348	41,236
2042	3,491	2,777	3,948	914	1,868	3,220	2,909	783	1,802	13,553	6,403	41,668
2043	3,537	2,803	3,994	918	1,897	3,264	2,945	788	1,824	13,639	6,445	42,054
2044	3,583	2,828	4,040	923	1,926	3,309	2,981	794	1,845	13,715	6,476	42,420
2045	3,616	2,852	4,069	925	1,947	3,345	3,017	798	1,859	13,822	6,522	42,772
2046	3,647	2,873	4,100	928	1,966	3,378	3,054	802	1,872	13,909	6,553	43,082
2047	3,678	2,893	4,129	931	1,984	3,410	3,089	806	1,885	13,984	6,592	43,381
2048	3,707	2,913	4,152	933	2,002	3,440	3,125	810	1,897	14,070	6,629	43,678
2049	3,732	2,932	4,174	934	2,016	3,469	3,157	814	1,909	14,146	6,660	43,943
2050	3,754	2,948	4,186	935	2,027	3,493	3,187	817	1,920	14,221	6,685	44,173
2051	3,775	2,962	4,205	936	2,037	3,515	3,214	820	1,929	14,297	6,705	44,395
2052	3,785	2,970	4,216	936	2,043	3,526	3,228	821	1,935	14,340	6,716	44,516
2053	3,794	2,977	4,228	937	2,046	3,536	3,240	822	1,939	14,372	6,724	44,615

Note: 99th percentile summer peak demand forecast is representative of an extremely hot and humid (well above expected weather) summer peak day.

Note: Expected weather conditions include an increasing temperature trend from the NYISO *Climate Change Impact Study Phase I* report.

Note: Forecast values assume no demand response reductions.

Table I-7f: 99th Percentile Forecast of Baseline Winter Coincident Peak Demand due to Weather
 Reflects Impacts of Energy Saving Programs & Behind-the-Meter Generation

99th Percentile of Winter Coincident Peak Demand due to Weather - MW

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2023-24	2,375	1,870	2,971	990	1,459	2,103	1,717	558	983	8,379	3,617	27,022
2024-25	2,397	1,891	3,074	994	1,479	2,136	1,712	558	989	8,457	3,683	27,370
2025-26	2,440	1,969	3,301	996	1,505	2,191	1,708	559	997	8,558	3,780	28,004
2026-27	2,495	2,012	3,460	1,000	1,524	2,258	1,757	565	1,013	8,692	3,899	28,675
2027-28	2,545	2,066	3,530	1,050	1,551	2,336	1,799	573	1,030	8,837	4,027	29,344
2028-29	2,612	2,131	3,585	1,089	1,582	2,419	1,868	585	1,051	9,015	4,177	30,114
2029-30	2,687	2,213	3,692	1,132	1,629	2,532	1,950	604	1,081	9,272	4,361	31,153
2030-31	2,773	2,307	3,814	1,143	1,686	2,660	2,043	627	1,119	9,584	4,567	32,323
2031-32	2,871	2,417	3,927	1,156	1,753	2,802	2,149	653	1,163	9,964	4,798	33,653
2032-33	3,002	2,541	4,054	1,169	1,828	2,959	2,271	683	1,214	10,399	5,061	35,181
2033-34	3,146	2,672	4,183	1,186	1,907	3,126	2,399	716	1,269	10,856	5,337	36,797
2034-35	3,348	2,843	4,367	1,204	2,016	3,308	2,560	745	1,341	11,403	5,648	38,783
2035-36	3,560	3,016	4,556	1,222	2,132	3,497	2,727	777	1,417	11,972	5,961	40,837
2036-37	3,742	3,182	4,711	1,236	2,230	3,665	2,876	803	1,492	12,541	6,265	42,743
2037-38	3,945	3,353	4,888	1,253	2,342	3,849	3,038	833	1,568	13,121	6,573	44,763
2038-39	4,141	3,518	5,059	1,269	2,445	4,027	3,194	862	1,640	13,668	6,872	46,695
2039-40	4,316	3,664	5,216	1,283	2,539	4,184	3,333	887	1,702	14,148	7,130	48,402
2040-41	4,475	3,801	5,365	1,295	2,625	4,332	3,460	908	1,760	14,594	7,370	49,985
2041-42	4,617	3,922	5,486	1,304	2,701	4,461	3,572	926	1,810	14,984	7,575	51,358
2042-43	4,707	4,010	5,554	1,312	2,750	4,550	3,654	939	1,851	15,308	7,725	52,360
2043-44	4,812	4,099	5,653	1,319	2,806	4,647	3,744	954	1,889	15,609	7,877	53,409
2044-45	4,909	4,182	5,732	1,327	2,857	4,739	3,829	965	1,925	15,888	8,018	54,371
2045-46	4,991	4,249	5,802	1,332	2,902	4,817	3,908	975	1,954	16,100	8,133	55,163
2046-47	5,057	4,303	5,864	1,338	2,939	4,883	3,972	984	1,978	16,279	8,224	55,821
2047-48	5,098	4,338	5,893	1,341	2,963	4,925	4,023	990	1,994	16,379	8,278	56,222
2048-49	5,122	4,367	5,915	1,342	2,976	4,957	4,061	992	2,012	16,502	8,322	56,568
2049-50	5,160	4,401	5,940	1,344	2,997	4,996	4,108	997	2,027	16,625	8,374	56,969
2050-51	5,183	4,418	5,957	1,343	3,007	5,021	4,141	1,000	2,036	16,692	8,396	57,194
2051-52	5,183	4,419	5,957	1,346	3,006	5,026	4,154	997	2,035	16,680	8,378	57,181
2052-53	5,198	4,435	5,973	1,344	3,011	5,045	4,177	1,000	2,043	16,747	8,386	57,359
2053-54	5,164	4,416	5,930	1,342	2,994	5,020	4,166	993	2,038	16,714	8,338	57,115

Note: 99th percentile winter peak demand forecast is representative of an extremely cold (well below expected weather) winter peak day.

Note: Expected weather conditions include an increasing temperature trend from the NYISO *Climate Change Impact Study Phase I* report.

Table I-8a: Energy Efficiency and Codes & Standards Energy Impacts
Reflects Cumulative Impacts

Estimated Historical Cumulative Reductions in Annual Energy by Zone - GWh

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2004	228	114	224	21	105	168	46	29	42	371	21	1,369
2005	320	163	316	29	148	237	68	42	63	555	36	1,977
2006	451	236	447	41	210	334	100	61	92	804	57	2,833
2007	540	287	537	49	253	401	131	76	118	1,039	81	3,512
2008	588	347	587	53	275	441	153	82	130	1,125	255	4,036
2009	703	423	698	63	331	535	228	99	157	1,371	429	5,037
2010	873	507	838	75	411	672	297	120	207	1,840	639	6,479
2011	1,124	651	1,049	94	525	865	439	152	273	2,433	880	8,485
2012	1,279	758	1,192	107	602	988	534	172	311	2,768	1,173	9,884
2013	1,442	886	1,353	121	687	1,125	643	197	356	3,206	1,513	11,529
2014	1,641	1,031	1,542	137	787	1,284	771	225	412	3,687	1,852	13,369
2015	1,859	1,170	1,742	154	896	1,471	897	252	459	4,105	2,228	15,233
2016	2,052	1,260	1,898	168	989	1,643	1,055	271	504	4,508	2,647	16,995
2017	2,279	1,397	2,097	186	1,102	1,839	1,258	302	580	5,195	2,986	19,221
2018	2,500	1,517	2,290	203	1,212	2,030	1,467	333	658	5,901	3,377	21,488
2019	2,745	1,650	2,501	222	1,333	2,244	1,711	369	760	6,814	3,803	24,152
2020	2,987	1,778	2,709	241	1,452	2,455	1,934	404	855	7,664	4,264	26,743
2021	3,259	1,894	2,929	263	1,583	2,697	2,146	436	944	8,455	4,609	29,215
2022	3,502	2,032	3,147	282	1,704	2,906	2,371	470	1,024	9,169	4,934	31,541

Forecast of Cumulative Reductions in Annual Energy by Zone Relative to 2022 - GWh

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2023	200	177	206	18	104	161	170	36	70	623	372	2,137
2024	439	342	462	42	230	349	341	85	171	1,521	750	4,732
2025	696	520	752	67	369	547	531	137	260	2,317	1,126	7,322
2026	952	700	1,040	95	506	744	720	188	344	3,070	1,504	9,863
2027	1,207	874	1,329	119	644	940	906	234	407	3,634	1,874	12,168
2028	1,453	1,047	1,609	145	777	1,127	1,093	280	471	4,201	2,252	14,455
2029	1,683	1,217	1,883	168	904	1,299	1,272	326	530	4,728	2,628	16,638
2030	1,905	1,387	2,149	191	1,026	1,463	1,453	374	598	5,334	3,001	18,881
2031	2,109	1,531	2,379	214	1,136	1,619	1,634	414	661	5,898	3,361	20,956
2032	2,311	1,688	2,626	235	1,248	1,767	1,815	457	720	6,421	3,705	22,993
2033	2,484	1,804	2,817	252	1,340	1,902	1,990	492	782	6,973	4,026	24,862
2034	2,646	1,912	2,996	267	1,427	2,028	2,166	524	840	7,493	4,344	26,643
2035	2,798	2,016	3,163	286	1,508	2,146	2,341	554	896	7,989	4,637	28,334
2036	2,936	2,107	3,316	300	1,582	2,254	2,505	582	947	8,448	4,917	29,894
2037	3,062	2,188	3,453	311	1,649	2,352	2,674	608	995	8,871	5,165	31,328
2038	3,179	2,268	3,582	324	1,711	2,443	2,840	632	1,040	9,273	5,412	32,704
2039	3,297	2,344	3,713	335	1,774	2,535	2,998	656	1,085	9,675	5,655	34,067
2040	3,410	2,419	3,836	347	1,835	2,623	3,165	681	1,139	10,161	5,917	35,533
2041	3,526	2,497	3,965	362	1,897	2,713	3,332	706	1,190	10,614	6,187	36,989
2042	3,631	2,563	4,080	372	1,953	2,795	3,499	730	1,242	11,081	6,444	38,390
2043	3,733	2,630	4,191	382	2,007	2,874	3,564	752	1,288	11,491	6,694	39,606
2044	3,826	2,690	4,294	392	2,057	2,947	3,623	774	1,336	11,917	6,936	40,792
2045	3,914	2,752	4,390	402	2,103	3,015	3,683	793	1,379	12,304	7,191	41,926
2046	3,999	2,808	4,483	410	2,149	3,082	3,731	813	1,422	12,687	7,435	43,019
2047	4,086	2,863	4,579	419	2,195	3,150	3,794	833	1,468	13,097	7,696	44,180
2048	4,172	2,922	4,673	429	2,241	3,216	3,846	854	1,517	13,527	7,957	45,354
2049	4,252	2,974	4,761	438	2,283	3,279	3,904	872	1,559	13,908	8,225	46,455
2050	4,325	3,027	4,841	447	2,322	3,336	3,957	890	1,602	14,285	8,491	47,523
2051	4,405	3,079	4,928	455	2,365	3,398	4,011	909	1,645	14,672	8,761	48,628
2052	4,478	3,131	5,009	464	2,404	3,455	4,056	928	1,689	15,069	9,028	49,711
2053	4,549	3,182	5,086	472	2,442	3,510	4,109	945	1,730	15,434	9,290	50,749

Table I-8b: Energy Efficiency and Codes & Standards Summer Peak Impacts
Reflects Cumulative Impacts

Reductions in Summer Coincident Peak Demand by Zone Relative to 2022 - MW

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2023	33	34	37	3	18	25	28	6	10	92	80	366
2024	72	65	82	8	39	55	57	15	25	226	162	806
2025	114	99	134	12	63	86	89	25	42	371	244	1,279
2026	157	134	187	18	86	117	121	35	58	520	327	1,760
2027	200	168	239	22	110	149	153	45	75	669	410	2,240
2028	242	203	290	27	133	179	186	55	91	813	494	2,713
2029	281	236	341	33	156	207	217	65	106	945	578	3,165
2030	319	270	390	37	177	233	249	75	120	1,070	663	3,603
2031	353	299	432	41	196	259	281	83	134	1,193	744	4,015
2032	388	330	478	45	216	283	313	92	147	1,310	823	4,425
2033	418	353	513	48	233	305	344	99	160	1,424	897	4,794
2034	446	375	546	51	248	326	375	105	172	1,533	970	5,147
2035	471	396	576	55	262	345	406	112	183	1,635	1,037	5,478
2036	495	415	604	58	275	362	436	117	194	1,730	1,101	5,787
2037	516	432	629	60	287	378	465	122	204	1,818	1,159	6,070
2038	536	448	653	62	297	393	494	127	213	1,900	1,215	6,338
2039	555	463	676	64	308	408	524	132	222	1,984	1,271	6,607
2040	574	477	697	66	318	422	553	136	232	2,065	1,328	6,868
2041	593	492	720	69	329	436	583	141	241	2,149	1,387	7,140
2042	609	504	739	70	337	448	611	145	249	2,225	1,442	7,379
2043	624	517	757	73	346	460	621	149	258	2,299	1,495	7,599
2044	638	528	773	74	353	470	631	153	265	2,365	1,545	7,795
2045	651	538	788	75	360	480	639	156	272	2,428	1,595	7,982
2046	663	547	801	77	367	488	646	159	279	2,490	1,643	8,160
2047	675	556	816	78	373	497	656	162	286	2,551	1,693	8,343
2048	686	564	829	79	380	506	664	165	293	2,612	1,742	8,520
2049	696	572	841	80	385	514	673	168	299	2,671	1,791	8,690
2050	705	580	851	81	390	521	679	171	305	2,723	1,838	8,844
2051	715	587	862	82	395	528	686	173	311	2,779	1,886	9,004
2052	723	594	872	84	400	534	692	175	317	2,830	1,933	9,154
2053	731	601	880	85	404	540	699	178	323	2,882	1,979	9,302

Table I-8c: Energy Efficiency and Codes & Standards Winter Peak Impacts
Reflects Cumulative Impacts

Reductions in Winter Coincident Peak Demand by Zone Relative to 2022-23 - MW

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2023-24	28	28	31	3	15	21	22	6	10	91	55	310
2024-25	61	55	71	6	33	46	41	14	25	222	110	684
2025-26	98	84	116	10	54	73	66	22	38	339	166	1,066
2026-27	135	111	162	15	74	100	88	31	51	451	223	1,441
2027-28	172	141	208	19	95	127	114	39	61	540	279	1,795
2028-29	209	169	254	23	116	153	138	47	71	631	337	2,148
2029-30	244	196	299	27	136	178	162	55	81	719	396	2,493
2030-31	279	226	345	31	156	203	186	63	92	822	454	2,857
2031-32	313	251	386	34	174	227	212	71	103	922	512	3,205
2032-33	346	278	430	38	194	251	238	79	115	1,024	570	3,563
2033-34	376	299	466	42	210	273	262	86	127	1,135	626	3,902
2034-35	406	318	501	45	226	295	287	93	140	1,245	683	4,239
2035-36	435	339	535	49	242	317	315	100	152	1,355	738	4,577
2036-37	462	358	568	53	257	338	341	107	164	1,464	793	4,905
2037-38	489	376	599	55	272	358	368	113	177	1,579	845	5,231
2038-39	516	394	630	59	286	378	396	120	190	1,692	900	5,561
2039-40	544	413	663	62	302	399	422	126	203	1,809	954	5,897
2040-41	572	432	695	66	317	420	451	133	217	1,940	1,014	6,257
2041-42	599	450	726	68	332	441	479	140	232	2,069	1,075	6,611
2042-43	626	469	757	71	346	462	509	146	247	2,199	1,135	6,967
2043-44	653	487	787	75	361	483	527	153	260	2,320	1,193	7,299
2044-45	681	507	818	78	376	504	544	159	273	2,440	1,250	7,630
2045-46	709	526	849	82	391	526	562	165	286	2,552	1,310	7,958
2046-47	738	547	880	85	406	548	582	171	298	2,662	1,367	8,284
2047-48	769	569	915	88	423	572	602	178	311	2,777	1,429	8,633
2048-49	800	591	949	92	439	597	624	184	324	2,892	1,489	8,981
2049-50	832	613	984	96	456	622	645	191	336	2,993	1,552	9,320
2050-51	863	638	1,017	100	473	647	666	196	346	3,085	1,610	9,641
2051-52	897	661	1,053	104	491	673	688	202	356	3,176	1,670	9,971
2052-53	929	684	1,087	108	508	699	711	208	366	3,266	1,729	10,295
2053-54	961	706	1,121	112	524	724	737	214	376	3,351	1,787	10,613

Table I-9a: Solar PV Nameplate Capacity, Behind-the-Meter
Reflects Total Cumulative Nameplate Capacity

Nameplate Capacity by Zone - MW DC

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2013	15	6	16	1	7	35	27	4	10	27	74	222
2014	19	13	26	2	14	65	49	7	15	47	126	383
2015	27	25	46	3	26	100	89	15	24	73	225	653
2016	34	37	73	4	38	151	128	24	33	109	333	964
2017	53	63	101	4	61	219	151	29	40	147	413	1,281
2018	65	97	134	10	90	298	189	36	47	194	478	1,638
2019	94	126	199	25	126	342	276	44	54	240	632	2,158
2020	139	159	289	28	187	436	361	52	63	285	696	2,695
2021	183	258	464	38	266	495	469	72	75	349	774	3,443
2022	226	404	602	45	418	537	573	83	107	423	872	4,290
2023	329	474	846	56	562	701	667	102	115	465	917	5,234
2024	476	607	1,082	95	720	850	729	106	120	476	925	6,186
2025	677	635	1,294	116	905	992	777	117	134	499	951	7,097
2026	725	728	1,431	127	1,002	1,079	892	132	152	574	1,077	7,919
2027	765	808	1,548	137	1,086	1,154	991	145	167	639	1,185	8,625
2028	799	874	1,645	145	1,155	1,216	1,073	155	180	692	1,274	9,208
2029	825	926	1,723	151	1,210	1,265	1,138	163	190	734	1,345	9,670
2030	846	967	1,783	156	1,253	1,303	1,189	170	198	767	1,400	10,032
2031	864	1,002	1,834	160	1,289	1,338	1,239	176	206	799	1,453	10,360
2032	880	1,031	1,879	164	1,321	1,370	1,288	182	213	829	1,503	10,660
2033	894	1,056	1,917	167	1,348	1,399	1,337	188	220	858	1,552	10,936
2034	906	1,077	1,949	170	1,370	1,426	1,385	194	226	885	1,599	11,187
2035	917	1,095	1,976	172	1,390	1,451	1,431	200	233	912	1,643	11,420
2036	926	1,109	1,999	175	1,406	1,474	1,476	205	238	936	1,685	11,629
2037	934	1,121	2,019	176	1,419	1,495	1,519	211	244	960	1,726	11,824
2038	941	1,130	2,034	178	1,430	1,514	1,561	216	249	982	1,764	11,999
2039	947	1,137	2,047	180	1,439	1,531	1,602	221	254	1,003	1,800	12,161
2040	952	1,143	2,058	181	1,446	1,547	1,640	225	259	1,023	1,834	12,308
2041	957	1,147	2,066	183	1,451	1,562	1,677	230	263	1,042	1,867	12,445
2042	961	1,150	2,072	184	1,455	1,575	1,712	234	267	1,060	1,897	12,567
2043	964	1,152	2,077	185	1,458	1,588	1,746	238	271	1,077	1,926	12,682
2044	967	1,154	2,080	186	1,460	1,599	1,777	242	275	1,092	1,953	12,785
2045	969	1,156	2,082	187	1,462	1,609	1,807	246	278	1,107	1,978	12,881
2046	970	1,157	2,084	188	1,464	1,618	1,835	249	281	1,120	2,001	12,967
2047	972	1,159	2,085	188	1,465	1,626	1,860	252	284	1,132	2,022	13,045
2048	973	1,160	2,087	189	1,466	1,633	1,884	255	287	1,143	2,042	13,119
2049	974	1,161	2,088	190	1,468	1,640	1,905	258	289	1,153	2,060	13,186
2050	975	1,162	2,089	190	1,469	1,646	1,925	260	291	1,163	2,076	13,246
2051	976	1,163	2,090	191	1,470	1,651	1,944	262	293	1,171	2,091	13,302
2052	977	1,164	2,091	191	1,470	1,656	1,961	264	295	1,179	2,105	13,353
2053	978	1,165	2,091	192	1,471	1,660	1,977	266	297	1,186	2,117	13,400

Note: Historical values reflect information from New York State's "Solar Electric Programs Reported by NYSERDA" database, and from Standardized Interconnection Requirements (SIR) Inventory Information submitted by Transmission Owners.

Note: Nameplate values reflect aggregate MW DC rating of installed panels.

Table I-9b: Solar PV Annual Energy Reductions, Behind-the-Meter
Reflects Total Cumulative Impacts

Reductions in Annual Energy by Zone - GWh

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2023	303	500	751	57	534	681	714	106	127	504	1,052	5,329
2024	453	637	1,057	86	726	874	816	118	134	537	1,091	6,529
2025	661	749	1,347	128	943	1,060	891	127	146	556	1,111	7,719
2026	825	830	1,582	150	1,128	1,209	991	142	164	613	1,200	8,834
2027	887	946	1,758	166	1,251	1,318	1,125	159	184	694	1,339	9,827
2028	935	1,044	1,905	178	1,351	1,407	1,239	173	201	762	1,459	10,654
2029	975	1,123	2,025	190	1,435	1,484	1,332	182	216	817	1,558	11,337
2030	1,009	1,186	2,118	196	1,502	1,543	1,406	192	226	863	1,638	11,879
2031	1,036	1,236	2,195	204	1,553	1,592	1,470	200	236	901	1,702	12,325
2032	1,060	1,280	2,262	207	1,599	1,635	1,532	206	244	937	1,765	12,727
2033	1,080	1,319	2,320	213	1,640	1,677	1,592	214	254	971	1,826	13,106
2034	1,100	1,352	2,371	220	1,674	1,715	1,655	223	261	1,004	1,883	13,458
2035	1,115	1,378	2,416	223	1,705	1,751	1,714	228	269	1,037	1,939	13,775
2036	1,130	1,401	2,454	227	1,731	1,784	1,774	235	274	1,066	1,992	14,068
2037	1,143	1,419	2,487	230	1,753	1,813	1,830	241	283	1,094	2,043	14,336
2038	1,155	1,435	2,516	232	1,771	1,842	1,885	246	290	1,120	2,090	14,582
2039	1,165	1,448	2,541	236	1,785	1,869	1,937	255	295	1,147	2,138	14,816
2040	1,175	1,459	2,563	237	1,801	1,892	1,989	259	300	1,168	2,180	15,023
2041	1,184	1,467	2,581	239	1,810	1,916	2,037	264	307	1,193	2,220	15,218
2042	1,190	1,474	2,595	242	1,821	1,938	2,083	270	311	1,215	2,260	15,399
2043	1,197	1,481	2,607	246	1,825	1,957	2,126	273	317	1,235	2,296	15,560
2044	1,201	1,485	2,619	246	1,831	1,972	2,169	281	320	1,254	2,329	15,707
2045	1,205	1,488	2,627	247	1,838	1,989	2,207	283	324	1,271	2,362	15,841
2046	1,210	1,492	2,635	249	1,842	2,003	2,246	287	329	1,288	2,393	15,974
2047	1,212	1,496	2,639	252	1,847	2,017	2,280	290	332	1,303	2,421	16,089
2048	1,216	1,500	2,647	253	1,849	2,028	2,312	297	335	1,319	2,445	16,201
2049	1,219	1,503	2,651	253	1,853	2,039	2,342	298	338	1,329	2,465	16,290
2050	1,221	1,505	2,657	255	1,856	2,048	2,369	301	341	1,343	2,488	16,384
2051	1,226	1,509	2,664	255	1,860	2,059	2,394	305	344	1,353	2,508	16,477
2052	1,228	1,513	2,665	255	1,861	2,067	2,418	306	347	1,362	2,525	16,547
2053	1,228	1,514	2,673	256	1,865	2,074	2,440	309	348	1,372	2,541	16,620

Table I-9c: Solar PV Peak Reductions, Behind-the-Meter
Reflects Total Cumulative Impacts

Reductions in Summer Coincident Peak Demand by Zone - MW AC

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2023	118	130	186	14	127	134	114	20	22	86	162	1,113
2024	122	134	191	14	130	135	115	20	22	87	163	1,133
2025	129	140	200	15	136	136	117	20	23	88	161	1,165
2026	136	145	208	15	141	137	117	20	23	89	159	1,190
2027	142	149	214	16	144	134	116	20	23	89	155	1,202
2028	146	152	217	16	146	130	114	19	22	88	151	1,201
2029	145	152	216	16	145	125	112	19	22	86	147	1,185
2030	141	151	212	15	142	120	110	19	22	85	143	1,160
2031	135	148	205	15	137	116	109	18	21	84	139	1,127
2032	129	143	198	14	132	112	106	18	21	82	135	1,090
2033	123	138	189	14	126	107	103	17	20	79	131	1,047
2034	116	132	180	13	120	101	100	17	19	76	125	999
2035	109	125	170	12	113	96	96	16	18	73	119	947
2036	102	117	161	12	107	90	91	15	17	68	112	892
2037	96	109	153	11	102	84	85	14	16	64	103	837
2038	90	102	146	11	97	77	79	13	15	59	94	783
2039	83	94	139	10	91	71	72	12	13	53	85	723
2040	77	86	131	9	85	65	66	11	12	48	75	665
2041	71	78	122	9	80	59	60	10	11	43	67	610
2042	65	71	114	8	74	53	54	9	10	39	59	556
2043	59	64	105	8	68	48	49	8	9	35	53	506
2044	54	58	96	7	62	44	45	7	8	31	47	459
2045	49	53	87	6	56	40	41	7	7	29	43	418
2046	44	48	79	6	51	36	38	6	7	26	39	380
2047	41	44	73	5	47	33	35	6	6	25	37	352
2048	38	41	68	5	43	31	33	5	6	23	35	328
2049	36	39	64	5	41	30	32	5	6	22	33	313
2050	35	38	62	5	40	29	32	5	6	22	32	306
2051	35	37	61	5	40	29	31	5	6	21	32	302
2052	34	37	61	4	39	28	31	5	5	21	32	297
2053	33	37	61	4	38	27	31	5	5	21	32	294

Note: The actual impact of solar PV varies considerably by hour of day. The hour of the NYCA coincident peak varies annually. Currently, the NYCA summer peak typically occurs in late afternoon. The NYCA summer peak will likely shift into the evening as additional BTM PV is added to the system, and as electric vehicle charging impacts increase during the evening hours.

Note: The winter coincident peak behind-the-meter solar PV impact is zero because the system typically peaks after sunset.

Table I-9d: Maximum Solar PV Generation, Behind-the-Meter
Reflects Total Cumulative Impacts

Maximum Hourly NYCA BTM Solar PV Generation - MW AC

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2023	192	287	483	42	318	396	447	63	85	315	630	3,258
2024	278	348	651	59	419	500	507	73	91	337	652	3,915
2025	398	413	810	88	532	596	549	78	97	347	661	4,569
2026	509	446	941	103	637	677	599	86	109	376	703	5,186
2027	542	505	1,032	113	700	732	680	96	122	427	788	5,737
2028	570	556	1,110	120	754	778	748	104	134	471	860	6,205
2029	593	597	1,174	126	798	816	804	111	143	507	918	6,587
2030	611	629	1,224	131	833	846	848	117	150	535	965	6,889
2031	625	655	1,264	135	860	870	885	121	156	559	1,003	7,133
2032	638	677	1,299	139	884	893	922	125	162	581	1,040	7,360
2033	649	696	1,328	142	904	913	958	130	168	602	1,076	7,566
2034	659	712	1,354	145	922	932	993	134	173	623	1,110	7,757
2035	668	725	1,375	147	936	949	1,027	138	178	642	1,142	7,927
2036	675	736	1,393	149	949	965	1,061	142	183	661	1,173	8,087
2037	682	745	1,408	151	959	979	1,093	146	187	678	1,203	8,231
2038	687	752	1,421	152	967	993	1,125	150	191	695	1,231	8,364
2039	692	758	1,431	154	974	1,005	1,155	153	195	711	1,257	8,485
2040	696	762	1,440	155	980	1,016	1,184	157	199	726	1,282	8,597
2041	700	766	1,447	156	984	1,026	1,212	160	203	740	1,306	8,700
2042	703	768	1,452	158	988	1,036	1,238	163	206	753	1,329	8,794
2043	706	770	1,456	159	990	1,044	1,264	166	209	765	1,350	8,879
2044	708	771	1,459	160	992	1,052	1,288	169	212	777	1,370	8,958
2045	710	773	1,461	160	993	1,059	1,310	171	215	788	1,389	9,029
2046	711	774	1,462	161	994	1,065	1,331	174	217	798	1,406	9,093
2047	712	775	1,463	162	996	1,071	1,351	176	220	807	1,422	9,155
2048	713	776	1,464	162	997	1,076	1,369	178	222	816	1,436	9,209
2049	714	777	1,465	163	997	1,081	1,386	180	224	824	1,449	9,260
2050	715	777	1,466	163	998	1,085	1,401	182	225	831	1,462	9,305
2051	716	778	1,467	164	999	1,089	1,415	184	227	837	1,473	9,349
2052	716	779	1,467	164	999	1,092	1,428	185	228	843	1,483	9,384
2053	717	779	1,468	165	1,000	1,095	1,441	187	230	849	1,493	9,424

Note: These values represent the hour with maximum BTM solar generation across the NYCA.

Table I-10a: Non-Solar Distributed Generation Nameplate Capacity, Behind-the-Meter
Reflects Total Cumulative Nameplate Capacity

Nameplate Capacity by Zone - MW

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2013	16	3	36	1	5	9	4	1	4	72	6	157
2014	16	3	42	1	8	11	4	1	5	73	7	171
2015	17	4	43	1	9	12	4	1	5	75	8	179
2016	17	4	45	1	11	14	5	2	6	79	12	196
2017	17	4	46	1	12	23	7	2	6	84	13	215
2018	17	5	48	1	13	32	7	2	6	102	15	248
2019	17	7	48	1	13	33	7	2	6	131	18	283
2020	17	7	49	2	13	34	7	2	10	148	31	320
2021	17	8	49	2	17	36	8	2	10	159	42	350
2022	17	8	49	2	27	36	8	2	10	172	42	373
2023	19	8	53	7	50	42	9	2	10	178	43	421
2024	20	8	56	8	59	44	10	2	11	185	51	454
2025	21	9	59	8	59	45	10	2	11	191	51	466
2026	22	9	61	8	60	46	10	2	12	197	52	479
2027	23	9	64	9	60	47	11	2	12	203	52	492
2028	23	10	66	9	61	48	11	2	13	208	53	504
2029	24	10	68	9	61	49	11	2	13	214	53	514
2030	24	10	69	9	62	49	12	2	13	219	53	522
2031	25	11	71	9	62	50	12	2	14	224	54	534
2032	25	11	72	9	63	51	12	2	14	229	54	542
2033	26	11	73	9	63	52	13	3	14	234	54	552
2034	26	11	75	9	63	52	13	3	15	238	55	560
2035	26	12	75	9	64	53	13	3	15	243	55	568
2036	26	12	76	9	64	54	13	3	15	247	55	574
2037	26	12	77	9	64	54	14	3	16	251	55	581
2038	27	12	78	9	65	55	14	3	16	255	56	590
2039	27	12	78	10	65	55	14	3	16	259	56	595
2040	27	13	79	10	65	56	14	3	17	263	56	603
2041	27	13	80	10	66	56	15	3	17	267	56	610
2042	27	13	80	10	66	57	15	3	17	271	57	616
2043	27	13	80	10	66	58	15	3	17	274	57	620
2044	27	13	81	10	67	58	15	3	18	278	57	627
2045	27	14	81	10	67	59	16	3	18	281	57	633
2046	27	14	81	10	67	59	16	3	18	284	58	637
2047	27	14	82	10	67	59	16	3	18	287	58	641
2048	27	14	82	10	68	60	16	4	19	290	58	648
2049	27	14	82	10	68	60	16	4	19	293	58	651
2050	27	14	82	10	68	61	16	4	19	296	58	655
2051	27	15	82	10	68	61	17	4	19	299	59	661
2052	27	15	83	10	69	62	17	4	19	302	59	667
2053	27	15	83	10	69	62	17	4	20	304	59	670

Note: Historical values reflect information from NYSERDA's "DER Integrated Data System" and from Transmission Owners.

Note: Resources include combined heat and power, anaerobic digesters, fuel cell facilities, small wind resources, and others.

Table I-10b: Non-Solar Distributed Generation Annual Energy Reductions, Behind-the-Meter
Reflects Total Cumulative Impacts

Reductions in Annual Energy by Zone - GWh

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2023	110	46	306	40	289	243	52	12	58	655	158	1,969
2024	116	46	324	46	341	254	58	12	64	681	188	2,130
2025	121	52	341	46	341	260	58	12	64	703	188	2,186
2026	127	52	353	46	347	266	58	12	69	725	191	2,246
2027	133	52	370	52	347	272	64	12	69	747	191	2,309
2028	133	58	382	52	353	278	64	12	75	765	195	2,367
2029	139	58	393	52	353	283	64	12	75	787	195	2,411
2030	139	58	399	52	358	283	69	12	75	806	195	2,446
2031	145	64	410	52	358	289	69	12	81	824	199	2,503
2032	145	64	416	52	364	295	69	12	81	843	199	2,540
2033	150	64	422	52	364	301	75	17	81	861	199	2,586
2034	150	64	434	52	364	301	75	17	87	876	202	2,622
2035	150	69	434	52	370	306	75	17	87	894	202	2,656
2036	150	69	439	52	370	312	75	17	87	909	202	2,682
2037	150	69	445	52	370	312	81	17	93	923	202	2,714
2038	156	69	451	52	376	318	81	17	93	938	206	2,757
2039	156	69	451	58	376	318	81	17	93	953	206	2,778
2040	156	75	457	58	376	324	81	17	98	968	206	2,816
2041	156	75	463	58	382	324	87	17	98	982	206	2,848
2042	156	75	463	58	382	330	87	17	98	997	210	2,873
2043	156	75	463	58	382	335	87	17	98	1,008	210	2,889
2044	156	75	468	58	387	335	87	17	104	1,023	210	2,920
2045	156	81	468	58	387	341	93	17	104	1,034	210	2,949
2046	156	81	468	58	387	341	93	17	104	1,045	213	2,963
2047	156	81	474	58	387	341	93	17	104	1,056	213	2,980
2048	156	81	474	58	393	347	93	23	110	1,067	213	3,015
2049	156	81	474	58	393	347	93	23	110	1,078	213	3,026
2050	156	81	474	58	393	353	93	23	110	1,089	213	3,043
2051	156	87	474	58	393	353	98	23	110	1,100	217	3,069
2052	156	87	480	58	399	358	98	23	110	1,111	217	3,097
2053	156	87	480	58	399	358	98	23	116	1,118	217	3,110

Table I-10c: Non-Solar Distributed Generation Peak Reductions, Behind-the-Meter
Reflects Total Cumulative Impacts

Reductions in Summer and Winter Coincident Peak Demand by Zone - MW

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2023	17	7	46	6	44	37	8	2	9	134	32	342
2024	17	7	49	7	51	38	9	2	10	139	38	367
2025	18	8	51	7	51	39	9	2	10	143	38	376
2026	19	8	53	7	52	40	9	2	10	148	39	387
2027	20	8	56	8	52	41	10	2	10	152	39	398
2028	20	9	57	8	53	42	10	2	11	156	40	408
2029	21	9	59	8	53	43	10	2	11	161	40	417
2030	21	9	60	8	54	43	10	2	11	164	40	422
2031	22	10	62	8	54	44	10	2	12	168	41	433
2032	22	10	63	8	55	44	10	2	12	172	41	439
2033	23	10	64	8	55	45	11	3	12	176	41	448
2034	23	10	65	8	55	45	11	3	13	179	41	453
2035	23	10	65	8	56	46	11	3	13	182	41	458
2036	23	10	66	8	56	47	11	3	13	185	41	463
2037	23	10	67	8	56	47	12	3	14	188	41	469
2038	23	10	68	8	57	48	12	3	14	191	42	476
2039	23	10	68	9	57	48	12	3	14	194	42	480
2040	23	11	69	9	57	49	12	3	15	197	42	487
2041	23	11	70	9	57	49	13	3	15	200	42	492
2042	23	11	70	9	57	50	13	3	15	203	43	497
2043	23	11	70	9	57	50	13	3	15	206	43	500
2044	23	11	70	9	58	50	13	3	16	209	43	505
2045	23	12	70	9	58	51	14	3	16	211	43	510
2046	23	12	70	9	58	51	14	3	16	213	44	513
2047	23	12	71	9	58	51	14	3	16	215	44	516
2048	23	12	71	9	59	52	14	3	17	218	44	522
2049	23	12	71	9	59	52	14	3	17	220	44	524
2050	23	12	71	9	59	53	14	3	17	222	44	527
2051	23	13	71	9	59	53	15	3	17	224	44	531
2052	23	13	72	9	60	54	15	3	17	227	44	537
2053	23	13	72	9	60	54	15	3	17	228	44	538

Note: Peak reductions reflect estimated summer reductions for the year listed, along with reductions for the following winter.
For example, the values listed for 2023 reflect reductions to the 2023 summer peak and the 2023-24 winter peak.

Table I-11a: Electric Vehicle Stock Forecast
Reflects Total New York State Stock

Number of Electric Vehicles by Type - NYCA

Year	LDV ⁽¹⁾	MHDV ⁽²⁾	Buses ⁽³⁾	Total Stock
2023	181,400	1,000	1,200	183,600
2024	268,300	2,300	2,600	273,200
2025	387,600	4,300	4,800	396,700
2026	541,500	7,200	8,200	556,900
2027	734,300	10,800	13,300	758,400
2028	963,000	15,300	18,500	996,800
2029	1,230,500	20,700	23,800	1,275,000
2030	1,540,200	27,000	28,800	1,596,000
2031	1,888,700	34,100	33,600	1,956,400
2032	2,280,000	42,100	37,800	2,359,900
2033	2,716,400	51,000	41,600	2,809,000
2034	3,200,400	60,800	44,800	3,306,000
2035	3,732,100	71,300	47,300	3,850,700
2036	4,253,400	82,600	49,200	4,385,200
2037	4,756,900	94,400	50,400	4,901,700
2038	5,235,700	106,900	51,200	5,393,800
2039	5,684,800	119,800	51,600	5,856,200
2040	6,099,500	133,100	51,800	6,284,400
2041	6,476,100	146,600	52,000	6,674,700
2042	6,812,200	160,300	52,200	7,024,700
2043	7,107,500	174,200	52,300	7,334,000
2044	7,361,200	188,200	52,500	7,601,900
2045	7,573,000	202,200	52,700	7,827,900
2046	7,742,900	215,200	52,800	8,010,900
2047	7,872,200	227,100	52,900	8,152,200
2048	7,961,500	237,900	53,000	8,252,400
2049	8,012,600	247,400	53,000	8,313,000
2050	8,027,800	255,600	52,900	8,336,300
2051	8,012,100	261,800	52,800	8,326,700
2052	7,973,200	266,600	52,700	8,292,500
2053	7,919,400	270,100	52,400	8,241,900

(1) - Light Duty Vehicles, at most 8,500 lb.

(2) - Medium and Heavy Duty Vehicles, greater than 8,500 lb.

(3) - Includes school and transit buses.

Note: For reference, according to the New York State Department of Motor Vehicles, there are approximately 9.8 million LDVs, 515,000 MHDVs, and 60,000 buses currently registered in the state.

Table I-11b: Electric Vehicle Annual Energy Usage
Reflects Total Cumulative Impacts

Total Annual Energy Usage by Zone - GWh

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2023	54	49	57	4	29	67	76	25	43	158	175	737
2024	88	76	94	8	52	106	119	36	63	209	261	1,112
2025	140	113	148	13	86	161	179	49	88	280	373	1,630
2026	214	164	223	20	136	236	261	67	120	378	520	2,339
2027	314	232	325	30	204	338	373	89	162	509	715	3,291
2028	438	314	451	42	288	463	510	115	213	670	950	4,454
2029	588	413	602	57	390	612	675	145	272	860	1,227	5,841
2030	764	527	779	74	511	788	869	180	340	1,083	1,548	7,463
2031	964	656	979	94	647	987	1,088	219	416	1,334	1,906	9,290
2032	1,189	800	1,205	117	802	1,211	1,337	262	500	1,615	2,306	11,344
2033	1,442	961	1,457	142	976	1,463	1,616	310	593	1,929	2,750	13,639
2034	1,724	1,139	1,738	170	1,169	1,743	1,927	362	695	2,278	3,241	16,186
2035	2,034	1,335	2,048	201	1,383	2,054	2,272	418	807	2,662	3,778	18,992
2036	2,346	1,531	2,358	233	1,597	2,366	2,620	475	919	3,048	4,315	21,808
2037	2,655	1,725	2,666	264	1,810	2,678	2,966	531	1,030	3,432	4,845	24,602
2038	2,957	1,914	2,968	294	2,018	2,985	3,308	585	1,137	3,809	5,363	27,338
2039	3,250	2,097	3,260	323	2,220	3,285	3,640	636	1,241	4,176	5,862	29,990
2040	3,531	2,272	3,541	352	2,415	3,574	3,961	685	1,340	4,530	6,338	32,539
2041	3,797	2,437	3,807	378	2,599	3,851	4,267	731	1,434	4,867	6,787	34,955
2042	4,047	2,591	4,056	403	2,771	4,112	4,556	774	1,521	5,185	7,207	37,223
2043	4,278	2,734	4,288	426	2,931	4,357	4,827	814	1,603	5,483	7,597	39,338
2044	4,489	2,866	4,500	447	3,077	4,585	5,078	850	1,678	5,761	7,957	41,288
2045	4,680	2,985	4,693	466	3,209	4,795	5,308	883	1,747	6,015	8,284	43,065
2046	4,846	3,088	4,861	482	3,323	4,982	5,512	912	1,808	6,241	8,572	44,627
2047	4,987	3,176	5,004	495	3,420	5,144	5,691	937	1,861	6,437	8,819	45,971
2048	5,102	3,249	5,121	506	3,498	5,282	5,842	958	1,905	6,603	9,024	47,090
2049	5,192	3,307	5,214	514	3,559	5,395	5,966	975	1,941	6,739	9,190	47,992
2050	5,258	3,349	5,282	520	3,603	5,485	6,064	988	1,969	6,846	9,315	48,679
2051	5,289	3,371	5,316	523	3,623	5,540	6,126	995	1,986	6,911	9,384	49,064
2052	5,295	3,377	5,324	522	3,625	5,571	6,161	998	1,994	6,946	9,411	49,224
2053	5,286	3,374	5,318	520	3,617	5,588	6,182	999	1,997	6,963	9,416	49,260

Table I-11c: Electric Vehicle Summer Coincident Peak Demand
Reflects Total Cumulative Impacts

Total Increase in Summer Coincident Peak Demand by Zone - MW

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2023	8	8	9	1	5	10	12	4	7	25	27	116
2024	14	12	15	1	8	17	19	6	10	33	41	176
2025	22	18	23	2	14	25	28	8	14	44	59	257
2026	33	25	35	3	21	37	41	10	19	59	81	364
2027	48	36	50	5	31	52	57	14	25	78	110	506
2028	67	48	69	6	44	70	78	17	32	102	145	678
2029	89	62	91	9	59	92	102	22	41	130	185	882
2030	114	79	116	11	76	117	129	27	51	161	231	1,112
2031	142	97	144	14	95	145	160	32	61	197	281	1,368
2032	173	117	176	17	117	177	195	38	73	235	336	1,654
2033	208	139	210	20	141	211	233	45	85	278	397	1,967
2034	246	162	248	24	167	249	275	52	99	325	462	2,309
2035	287	188	289	28	195	289	320	59	114	375	532	2,676
2036	327	213	328	32	222	330	365	66	128	425	601	3,037
2037	365	237	367	36	249	369	408	73	142	472	667	3,385
2038	402	260	404	40	275	406	450	80	155	518	730	3,720
2039	437	282	438	43	299	442	489	86	167	562	788	4,033
2040	469	302	471	47	321	475	526	91	178	602	842	4,324
2041	499	320	500	50	341	506	560	96	188	639	891	4,590
2042	525	336	526	52	360	534	591	100	197	673	935	4,829
2043	549	351	550	55	376	559	619	104	206	703	974	5,046
2044	569	363	570	57	390	581	644	108	213	730	1,009	5,234
2045	586	374	588	58	402	601	665	111	219	754	1,038	5,396
2046	607	387	609	60	416	624	691	114	227	782	1,074	5,591
2047	625	398	627	62	428	645	713	117	233	807	1,105	5,760
2048	639	407	642	63	438	662	732	120	239	827	1,130	5,899
2049	650	414	653	64	446	676	747	122	243	844	1,151	6,010
2050	658	419	661	65	451	687	759	124	247	857	1,166	6,094
2051	663	423	666	66	454	694	768	125	249	866	1,176	6,150
2052	665	424	668	66	455	699	773	125	250	872	1,181	6,178
2053	664	424	668	65	454	702	777	126	251	875	1,183	6,189

Note: The baseline electric vehicle peak forecast assumes an increasing share of managed charging over time.

Table I-11d: Electric Vehicle Winter Coincident Peak Demand
Reflects Total Cumulative Impacts

Total Increase in Winter Coincident Peak Demand by Zone - MW

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2023-24	11	10	11	1	6	13	15	5	9	31	35	147
2024-25	18	15	19	2	10	21	24	7	13	42	52	223
2025-26	28	23	30	3	17	32	36	10	18	56	75	328
2026-27	42	32	44	4	27	47	52	13	24	75	103	463
2027-28	62	45	64	6	40	66	73	17	32	100	140	645
2028-29	85	61	88	8	56	90	99	22	41	130	185	865
2029-30	113	79	116	11	75	118	130	28	52	165	236	1,123
2030-31	145	100	148	14	97	150	165	34	65	206	295	1,419
2031-32	181	123	184	18	122	186	205	41	78	251	359	1,748
2032-33	221	149	224	22	149	226	249	49	93	301	429	2,112
2033-34	266	177	268	26	180	269	298	57	109	355	507	2,512
2034-35	314	207	317	31	213	317	351	66	127	415	590	2,948
2035-36	366	240	369	36	249	370	409	75	145	479	680	3,418
2036-37	417	272	420	41	284	421	466	85	164	542	768	3,880
2037-38	467	303	469	46	318	471	522	93	181	603	852	4,325
2038-39	514	333	516	51	351	519	575	102	198	662	932	4,753
2039-40	558	360	560	56	381	564	625	109	213	717	1,007	5,150
2040-41	599	386	601	60	410	607	672	116	227	769	1,076	5,523
2041-42	637	409	639	63	436	646	716	123	240	816	1,139	5,864
2042-43	671	430	672	67	459	682	755	128	252	860	1,195	6,171
2043-44	701	448	702	70	480	714	791	133	263	898	1,245	6,445
2044-45	727	464	729	72	498	743	822	138	272	933	1,288	6,686
2045-46	749	478	751	75	514	767	850	141	280	963	1,326	6,894
2046-47	776	494	778	77	532	797	882	146	289	999	1,372	7,142
2047-48	798	508	801	79	547	823	911	150	298	1,030	1,411	7,356
2048-49	816	520	820	81	560	845	935	153	305	1,057	1,444	7,536
2049-50	831	529	834	82	569	863	954	156	311	1,078	1,470	7,677
2050-51	841	536	845	83	576	877	970	158	315	1,095	1,490	7,786
2051-52	847	540	851	84	580	887	981	159	318	1,107	1,503	7,857
2052-53	849	541	854	84	581	893	988	160	320	1,114	1,509	7,893
2053-54	848	542	854	84	581	897	992	160	321	1,118	1,511	7,908

Note: The baseline electric vehicle peak forecast assumes an increasing share of managed charging over time.

Table I-12a: Energy Storage Nameplate Capacity, Behind-the-Meter
 Reflects Total Cumulative Nameplate Capacity of Behind-the-Meter Storage

Nameplate Capacity by Zone - MW

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2023	13	8	72	0	43	36	74	8	10	22	34	320
2024	25	12	83	0	47	47	103	23	27	80	43	490
2025	37	15	96	0	53	59	128	33	39	130	53	643
2026	48	19	107	0	57	70	152	45	51	184	62	795
2027	58	22	119	0	62	81	174	57	65	259	72	969
2028	69	26	130	1	66	92	183	66	74	340	81	1,128
2029	79	29	140	1	70	102	192	74	82	404	91	1,264
2030	88	33	149	1	74	111	200	79	86	448	100	1,369
2031	97	36	159	1	78	120	205	81	88	473	110	1,448
2032	103	39	167	2	81	127	210	83	90	492	119	1,513
2033	111	42	174	2	84	134	214	85	91	506	129	1,572
2034	117	44	181	2	87	141	219	86	93	519	138	1,627
2035	123	47	187	2	89	147	221	87	94	530	148	1,675
2036	128	49	192	2	91	152	225	89	95	542	157	1,722
2037	132	51	196	2	93	156	228	90	96	554	167	1,765
2038	135	52	201	2	95	159	231	91	97	566	176	1,805
2039	138	53	204	3	96	163	235	92	99	579	186	1,848
2040	142	55	208	3	98	165	240	94	100	592	195	1,892
2041	144	56	210	4	99	169	243	96	102	605	205	1,933
2042	146	57	211	4	99	170	249	97	104	619	214	1,970
2043	148	58	214	5	100	172	254	98	105	632	224	2,010
2044	150	58	216	5	101	174	258	100	107	645	233	2,047
2045	151	59	218	5	102	176	261	102	108	656	243	2,081
2046	153	60	219	5	103	177	266	103	110	668	252	2,116
2047	154	60	221	5	103	179	269	105	111	678	261	2,146
2048	155	61	222	5	104	179	273	106	113	688	271	2,177
2049	157	61	224	5	104	181	276	107	114	696	280	2,205
2050	157	62	225	6	105	182	280	108	115	704	290	2,234
2051	159	62	226	6	106	183	283	109	116	711	299	2,260
2052	159	63	226	6	107	184	286	110	118	717	309	2,285
2053	161	63	228	6	107	185	289	111	119	723	318	2,310

Note: The storage capacity forecast includes only behind-the-meter resources, which reflect only a portion of the State's energy storage targets. These targets are expected to be met largely through interconnecting wholesale energy storage projects. Pumped Storage is not included. See Table III-2 for current resources.

Table I-12b: Energy Storage Energy Impacts
 Reflects Total Cumulative Impacts – Including Wholesale and Behind-the-Meter

Annual Net Electricity Consumption by Zone - GWh

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2023	2	1	16	3	6	8	11	1	1	3	5	57
2024	7	2	21	3	8	11	48	12	6	21	20	159
2025	9	2	25	3	10	15	56	21	11	60	35	247
2026	34	3	29	3	12	18	64	32	15	77	87	374
2027	36	3	46	3	14	21	72	42	19	215	102	573
2028	38	4	53	3	16	26	81	59	25	244	129	678
2029	41	5	59	3	19	30	90	76	31	271	156	781
2030	44	5	66	4	22	35	99	92	36	295	183	881
2031	46	6	72	4	25	39	108	108	41	317	209	975
2032	48	6	78	4	27	43	117	124	46	337	236	1,066
2033	50	7	85	4	30	47	126	140	50	357	263	1,159
2034	52	7	91	4	33	51	134	156	55	376	290	1,249
2035	54	8	97	4	35	55	143	172	60	396	317	1,341
2036	56	8	102	5	38	59	151	188	65	415	343	1,430
2037	58	9	108	5	40	63	160	204	69	435	370	1,521
2038	60	9	114	5	43	66	168	220	74	454	397	1,610
2039	61	9	120	5	45	70	177	236	79	473	424	1,699
2040	63	10	125	5	47	73	186	252	83	493	450	1,787
2041	65	10	131	6	50	77	194	268	88	513	477	1,879
2042	66	11	136	6	52	80	203	284	93	532	504	1,967
2043	67	11	141	6	54	84	212	300	98	552	531	2,056
2044	69	11	147	6	57	87	220	316	102	571	558	2,144
2045	70	11	152	6	59	90	229	332	107	591	584	2,231
2046	72	12	158	6	61	93	238	348	112	610	611	2,321
2047	73	12	163	7	64	97	246	364	117	629	638	2,410
2048	74	12	168	7	66	100	255	380	121	648	665	2,496
2049	76	12	174	7	68	103	263	396	126	667	691	2,583
2050	77	12	179	7	70	106	272	412	131	686	718	2,670
2051	78	13	184	7	73	110	280	428	135	705	745	2,758
2052	80	13	189	7	75	113	289	444	140	723	772	2,845
2053	81	13	195	8	77	116	297	459	145	742	799	2,932

Note: Both wholesale and behind-the-meter storage contribute to sytem net energy consumption.

Note: Values listed reflect net energy consumption due to round trip efficiency or battery losses.

Table I-12c: Energy Storage Peak Reductions, Behind-the-Meter
Reflects Total Cumulative Impacts

Reductions in Summer and Winter Coincident Peak Demand by Zone - MW

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2023	10	6	58	0	34	29	44	5	6	13	29	234
2024	20	10	66	0	38	38	62	16	16	48	37	351
2025	30	12	77	0	42	47	77	22	23	78	45	453
2026	38	15	86	0	46	56	91	30	31	111	53	557
2027	46	18	95	0	50	65	104	38	39	155	61	671
2028	55	21	104	1	53	74	110	45	44	204	69	780
2029	63	23	112	1	56	82	115	50	49	243	77	871
2030	70	26	119	1	59	89	120	53	52	269	85	943
2031	78	29	127	1	62	96	123	55	53	284	94	1,002
2032	82	31	134	2	65	102	126	56	54	295	101	1,048
2033	89	34	139	2	67	107	128	57	55	304	110	1,092
2034	94	35	145	2	70	113	131	58	56	311	117	1,132
2035	98	38	150	2	71	118	133	59	56	318	126	1,169
2036	102	39	154	2	73	122	135	60	57	325	133	1,202
2037	106	41	157	2	74	125	137	61	58	332	142	1,235
2038	108	42	161	2	76	127	139	61	58	340	150	1,264
2039	110	42	163	2	77	130	141	62	59	347	158	1,291
2040	114	44	166	2	78	132	144	63	60	355	166	1,324
2041	115	45	168	3	79	135	146	65	61	363	174	1,354
2042	117	46	169	3	79	136	149	65	62	371	182	1,379
2043	118	46	171	4	80	138	152	66	63	379	190	1,407
2044	120	46	173	4	81	139	155	68	64	387	198	1,435
2045	121	47	174	4	82	141	157	69	65	394	207	1,461
2046	122	48	175	4	82	142	160	70	66	401	214	1,484
2047	123	48	177	4	82	143	161	71	67	407	222	1,505
2048	124	49	178	4	83	143	164	72	68	413	230	1,528
2049	126	49	179	4	83	145	166	72	68	417	238	1,547
2050	126	50	180	5	84	146	168	73	69	422	247	1,570
2051	127	50	181	5	85	146	170	74	70	426	254	1,588
2052	127	50	181	5	86	147	172	74	71	430	263	1,606
2053	129	50	182	5	86	148	173	75	71	434	270	1,623

Note: Peak Reductions due to behind-the-meter storage. Wholesale market storage is assumed to be dispatched as generation.

Note: Peak reductions reflect estimated summer reductions for the year listed, along with reductions for the following winter.

For example, the values listed for 2023 reflect reductions to the 2023 summer peak and the 2023-24 winter peak.

Table I-13a: Building Electrification Annual Energy Usage
Reflects Cumulative Future Impacts

Total Annual Energy Usage by Zone - GWh

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2023	94	67	98	9	49	76	61	21	44	285	150	954
2024	147	91	161	15	78	115	95	37	72	426	237	1,474
2025	224	136	249	22	120	174	146	59	112	647	364	2,253
2026	319	192	356	30	172	247	208	84	161	924	519	3,212
2027	441	266	490	42	236	343	289	117	223	1,283	717	4,447
2028	580	352	643	55	311	451	382	154	292	1,693	943	5,856
2029	748	459	824	70	399	583	492	196	374	2,192	1,214	7,551
2030	938	581	1,030	89	500	732	619	244	468	2,761	1,523	9,485
2031	1,152	720	1,260	108	614	900	763	297	573	3,402	1,869	11,658
2032	1,402	885	1,527	131	746	1,098	931	359	694	4,161	2,275	14,209
2033	1,674	1,067	1,816	156	889	1,314	1,114	425	826	4,989	2,716	16,986
2034	1,964	1,260	2,124	182	1,042	1,545	1,310	496	967	5,874	3,186	19,950
2035	2,270	1,466	2,447	209	1,203	1,788	1,518	571	1,115	6,812	3,683	23,082
2036	2,596	1,687	2,790	238	1,374	2,048	1,740	638	1,272	7,818	4,212	26,413
2037	2,918	1,907	3,128	268	1,543	2,305	1,959	708	1,427	8,809	4,734	29,706
2038	3,242	2,129	3,469	297	1,713	2,564	2,181	783	1,582	9,814	5,261	33,035
2039	3,559	2,347	3,799	325	1,878	2,817	2,400	854	1,735	10,801	5,777	36,292
2040	3,867	2,559	4,120	352	2,039	3,064	2,613	915	1,882	11,764	6,278	39,453
2041	4,143	2,750	4,407	377	2,183	3,285	2,805	967	2,015	12,629	6,728	42,289
2042	4,396	2,923	4,670	400	2,316	3,488	2,982	1,012	2,137	13,427	7,142	44,893
2043	4,617	3,075	4,901	419	2,431	3,666	3,138	1,050	2,244	14,128	7,507	47,176
2044	4,815	3,209	5,106	437	2,535	3,824	3,280	1,088	2,341	14,760	7,834	49,229
2045	4,973	3,317	5,271	451	2,617	3,951	3,394	1,111	2,419	15,267	8,097	50,868
2046	5,108	3,408	5,411	463	2,688	4,059	3,494	1,137	2,485	15,704	8,323	52,280
2047	5,216	3,480	5,523	473	2,744	4,145	3,575	1,152	2,540	16,060	8,507	53,415
2048	5,313	3,544	5,624	481	2,795	4,223	3,650	1,163	2,590	16,384	8,673	54,440
2049	5,375	3,586	5,690	487	2,827	4,273	3,701	1,173	2,622	16,594	8,782	55,110
2050	5,426	3,618	5,742	491	2,854	4,314	3,743	1,179	2,648	16,768	8,871	55,654
2051	5,464	3,642	5,782	495	2,874	4,344	3,778	1,175	2,670	16,908	8,942	56,074
2052	5,499	3,663	5,818	498	2,892	4,373	3,811	1,179	2,691	17,044	9,011	56,479
2053	5,513	3,672	5,833	499	2,899	4,384	3,830	1,166	2,701	17,111	9,044	56,652

Note: Reflects end-use electrification of space heating, water heating, cooking, and other end-uses.

Table I-13b: Building Electrification Summer Coincident Peak Demand
Reflects Cumulative Future Impacts

Total Increase in Summer Coincident Peak Demand by Zone - MW

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2023	6	5	5	1	3	5	4	1	3	31	9	73
2024	8	7	5	1	4	7	6	1	5	42	13	99
2025	10	9	9	1	5	9	8	2	6	57	17	133
2026	13	12	12	1	6	11	10	3	8	73	22	171
2027	17	15	15	2	8	15	13	3	10	93	28	219
2028	21	19	18	2	10	18	16	4	13	116	35	272
2029	25	23	24	2	12	22	19	5	16	140	42	330
2030	31	28	27	3	15	26	23	6	19	168	50	396
2031	36	32	32	3	18	31	28	7	22	199	59	467
2032	42	38	37	4	21	36	32	8	26	233	70	547
2033	49	44	44	5	24	42	38	9	30	270	81	636
2034	56	51	49	5	28	48	44	11	35	311	93	731
2035	64	58	55	6	31	55	50	12	39	353	106	829
2036	71	65	61	7	35	62	56	14	44	396	119	930
2037	79	72	69	8	39	68	62	15	49	439	132	1,032
2038	87	79	77	8	43	75	68	17	53	483	145	1,135
2039	95	86	83	9	46	82	74	18	58	526	158	1,235
2040	102	92	89	10	50	88	80	20	63	566	170	1,330
2041	109	99	96	10	53	94	86	21	67	606	182	1,423
2042	115	105	100	11	57	100	92	23	71	644	193	1,511
2043	123	112	107	11	60	106	98	24	76	687	206	1,610
2044	131	119	114	12	64	113	104	26	81	734	220	1,718
2045	138	125	121	13	68	119	110	27	86	776	232	1,815
2046	144	131	126	13	71	125	116	28	90	814	244	1,902
2047	150	136	131	13	74	130	121	29	94	849	254	1,981
2048	155	141	138	14	76	134	125	30	97	881	263	2,054
2049	160	145	141	14	78	138	129	31	100	908	271	2,115
2050	163	149	144	14	80	141	132	32	103	931	278	2,167
2051	167	152	146	15	82	144	136	33	105	954	285	2,219
2052	170	155	149	15	83	147	139	33	108	975	291	2,265
2053	173	158	149	15	85	150	142	34	110	994	297	2,307

Note: Reflects end-use electrification of space conditioning, water heating, cooking, and other end-uses.

Table I-13c: Building Electrification Winter Coincident Peak Demand
Reflects Cumulative Future Impacts

Total Increase in Winter Coincident Peak Demand by Zone - MW

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2023-24	43	39	38	3	21	37	27	6	15	134	63	426
2024-25	93	84	80	7	46	80	59	13	33	291	137	923
2025-26	149	135	133	12	73	128	95	21	53	469	220	1,488
2026-27	214	193	188	17	105	184	137	30	77	675	316	2,136
2027-28	288	260	254	22	142	248	186	41	104	911	426	2,882
2028-29	372	335	328	29	183	320	240	53	135	1,177	550	3,722
2029-30	462	417	409	36	227	398	300	66	168	1,498	685	4,666
2030-31	567	512	500	44	279	488	369	81	207	1,842	842	5,731
2031-32	681	615	602	53	335	587	445	98	249	2,221	1,012	6,898
2032-33	806	728	712	62	396	695	529	116	295	2,635	1,200	8,174
2033-34	939	848	829	72	461	809	618	135	345	3,075	1,398	9,529
2034-35	1,088	983	960	84	535	937	719	157	400	3,571	1,622	11,056
2035-36	1,233	1,115	1,088	95	606	1,062	817	178	455	4,059	1,840	12,548
2036-37	1,377	1,246	1,214	106	677	1,187	916	199	509	4,543	2,058	14,032
2037-38	1,521	1,376	1,341	117	748	1,311	1,015	220	564	5,031	2,276	15,520
2038-39	1,658	1,500	1,460	128	815	1,429	1,110	239	616	5,492	2,483	16,930
2039-40	1,790	1,620	1,578	138	879	1,543	1,202	259	666	5,940	2,684	18,299
2040-41	1,910	1,729	1,684	147	938	1,646	1,287	276	712	6,349	2,867	19,545
2041-42	2,016	1,826	1,777	155	990	1,738	1,363	292	753	6,715	3,030	20,655
2042-43	2,104	1,906	1,853	162	1,034	1,814	1,427	305	787	7,023	3,167	21,582
2043-44	2,183	1,978	1,924	168	1,072	1,882	1,485	316	818	7,300	3,289	22,415
2044-45	2,254	2,042	1,983	174	1,107	1,943	1,538	326	846	7,546	3,400	23,159
2045-46	2,314	2,098	2,038	178	1,136	1,996	1,584	335	870	7,759	3,495	23,803
2046-47	2,357	2,137	2,072	181	1,157	2,033	1,619	342	887	7,915	3,565	24,265
2047-48	2,387	2,165	2,099	184	1,172	2,060	1,645	346	901	8,034	3,617	24,610
2048-49	2,413	2,190	2,121	186	1,185	2,082	1,669	350	912	8,135	3,661	24,904
2049-50	2,438	2,213	2,141	188	1,197	2,104	1,691	354	922	8,225	3,703	25,176
2050-51	2,454	2,228	2,155	189	1,205	2,118	1,708	356	930	8,292	3,734	25,369
2051-52	2,467	2,240	2,167	190	1,210	2,129	1,722	358	936	8,348	3,758	25,525
2052-53	2,474	2,247	2,173	190	1,214	2,135	1,733	359	940	8,386	3,775	25,626
2053-54	2,478	2,252	2,175	190	1,216	2,139	1,742	360	944	8,419	3,787	25,702

Note: Reflects end-use electrification of space heating, water heating, cooking, and other end-uses.

Table I-13d: Electrification Impacts by Scenario
Reflects Cumulative Impacts

NYCA Annual Energy Usage - GWh

Year	Baseline Forecast			Lower Demand Policy Scenario			Higher Demand Policy Scenario		
	EV	Building	Total	EV	Building	Total	EV	Building	Total
2023	737	954	1,691	677	1,244	1,921	810	1,308	2,118
2024	1,112	1,474	2,586	986	2,653	3,639	1,218	2,803	4,021
2025	1,630	2,253	3,883	1,378	4,294	5,672	1,818	4,547	6,365
2026	2,339	3,212	5,551	1,894	6,194	8,088	2,626	6,574	9,200
2027	3,291	4,447	7,738	2,575	8,387	10,962	3,683	8,924	12,607
2028	4,454	5,856	10,310	3,400	10,896	14,296	4,948	11,623	16,571
2029	5,841	7,551	13,392	4,380	13,691	18,071	6,432	14,646	21,078
2030	7,463	9,485	16,948	5,531	16,831	22,362	8,159	18,054	26,213
2031	9,290	11,658	20,948	6,856	20,289	27,145	10,113	21,822	31,935
2032	11,344	14,209	25,553	8,383	24,098	32,481	12,313	25,991	38,304
2033	13,639	16,986	30,625	10,133	28,156	38,289	14,781	30,458	45,239
2034	16,186	19,950	36,136	12,090	32,463	44,553	17,543	35,224	52,767
2035	18,992	23,082	42,074	14,209	36,915	51,124	20,634	40,183	60,817
2036	21,808	26,413	48,221	16,387	41,483	57,870	23,714	45,298	69,012
2037	24,602	29,706	54,308	18,551	45,969	64,520	26,765	50,372	77,137
2038	27,338	33,035	60,373	20,658	50,391	71,049	29,763	55,410	85,173
2039	29,990	36,292	66,282	22,683	54,632	77,315	32,677	60,291	92,968
2040	32,539	39,453	71,992	24,614	58,649	83,263	35,485	64,976	100,461
2041	34,955	42,289	77,244	26,434	62,268	88,702	38,164	69,270	107,434
2042	37,223	44,893	82,116	28,137	65,570	93,707	40,699	73,246	113,945
2043	39,338	47,176	86,514	29,714	68,463	98,177	43,081	76,820	119,901
2044	41,288	49,229	90,517	31,158	71,035	102,193	45,305	80,064	125,369
2045	43,065	50,868	93,933	32,451	73,113	105,564	47,342	82,800	130,142
2046	44,627	52,280	96,907	33,575	74,868	108,443	49,170	85,203	134,373
2047	45,971	53,415	99,386	34,514	76,278	110,792	50,768	87,242	138,010
2048	47,090	54,440	101,530	35,265	77,541	112,806	52,131	89,124	141,255
2049	47,992	55,110	103,102	35,830	78,383	114,213	53,259	90,564	143,823
2050	48,679	55,654	104,333	36,216	79,047	115,263	54,205	91,815	146,020
2051	49,064	56,074	105,138	36,393	79,553	115,946	54,828	92,878	147,706
2052	49,224	56,479	105,703	36,392	79,995	116,387	55,267	93,860	149,127
2053	49,260	56,652	105,912	36,296	80,181	116,477	55,567	94,562	150,129

Note: Electric Vehicle annual energy usage from Tables I-1b, I-11b, I-15a, I-16a.

Includes light duty vehicles, medium and heavy duty vehicles, and buses.

Note: Building electrification annual energy usage from Tables I-1b, I-13a, I-15a, and I-16a.

Includes electrification of space heating, water heating, cooking, and other end uses.

Table I-14: Interconnecting Large Loads Forecast
Reflects Cumulative Existing and Future Impacts of Large Load Projects

Annual Energy by Zone - GWh

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2023	650	220	70	1,270	130	0	0	0	0	0	0	2,340
2024	850	1,300	420	1,290	280	0	0	0	0	0	0	4,140
2025	1,010	1,470	2,010	1,290	400	0	0	0	0	0	0	6,180
2026	1,170	1,720	3,610	1,290	450	0	0	0	0	0	0	8,240
2027	1,310	1,720	4,020	1,520	450	0	0	0	0	0	0	9,020
2028	1,340	1,720	4,020	1,780	450	0	0	0	0	0	0	9,310
2029	1,340	1,720	4,020	2,000	450	0	0	0	0	0	0	9,530
2030	1,340	1,720	4,440	2,080	450	0	0	0	0	0	0	10,030
2031	1,340	1,720	4,440	2,080	450	0	0	0	0	0	0	10,030
2032	1,340	1,720	4,440	2,080	450	0	0	0	0	0	0	10,030
2033	1,340	1,720	4,440	2,080	450	0	0	0	0	0	0	10,030

Summer Peak Demand by Zone - MW

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2023	95	0	0	166	0	0	0	0	0	0	0	261
2024	110	151	50	169	37	0	0	0	0	0	0	517
2025	130	175	240	169	50	0	0	0	0	0	0	764
2026	150	200	430	169	55	0	0	0	0	0	0	1,004
2027	170	200	480	213	55	0	0	0	0	0	0	1,118
2028	170	200	480	241	55	0	0	0	0	0	0	1,146
2029	170	200	480	269	55	0	0	0	0	0	0	1,174
2030	170	200	530	269	55	0	0	0	0	0	0	1,224
2031	170	200	530	269	55	0	0	0	0	0	0	1,224
2032	170	200	530	269	55	0	0	0	0	0	0	1,224
2033	170	200	530	269	55	0	0	0	0	0	0	1,224

Winter Peak Demand by Zone - MW

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2023-24	100	151	50	169	30	0	0	0	0	0	0	500
2024-25	120	151	150	169	45	0	0	0	0	0	0	635
2025-26	140	200	340	169	55	0	0	0	0	0	0	904
2026-27	160	200	460	169	55	0	0	0	0	0	0	1,044
2027-28	170	200	480	213	55	0	0	0	0	0	0	1,118
2028-29	170	200	480	241	55	0	0	0	0	0	0	1,146
2029-30	170	200	510	269	55	0	0	0	0	0	0	1,204
2030-31	170	200	530	269	55	0	0	0	0	0	0	1,224
2031-32	170	200	530	269	55	0	0	0	0	0	0	1,224
2032-33	170	200	530	269	55	0	0	0	0	0	0	1,224
2033-34	170	200	530	269	55	0	0	0	0	0	0	1,224

Notes:

Forecasts for 2034 onward match the final year forecasts in these tables.

These forecast values are embedded in the final annual energy, summer peak, and winter peak demand forecasts.

Table IV-7 lists the NYISO Interconnection Queue information for proposed interconnecting large loads. These forecast tables do not necessarily reflect the proposed date and MW values listed in Table IV-7, and include impacts for load projects not listed in the NYISO IQ as of March 15, 2023.

Table I-15a: Summary of NYCA Lower Demand Policy Scenario Annual Energy Forecasts – GWh
 Reflects Achievement of State Policy Targets

Year	(a) Econometric Energy	(b) (-) EE and C&S	(c) = a - b End-Use Energy	(d) (-) Solar PV, BTM	(e) (-) Non-Solar DG, BTM	(f) (+) Storage Net Energy Consumption	(g) (+) EV Energy	(h) (+) Building Electrification	(i) (+) Large Load Projects	(j) (+) Electrolysis	(k) = c-d-e+f+g+h+i+j Lower Demand Scenario Annual Energy Forecast
2023	157,090	3,600	153,490	5,329	1,969	57	677	1,244	2,340	0	150,510
2024	158,611	7,350	151,261	6,529	2,130	159	986	2,653	4,140	0	150,540
2025	159,255	11,410	147,845	7,719	2,186	247	1,378	4,294	6,180	221	150,260
2026	159,969	15,430	144,539	8,834	2,246	374	1,894	6,194	8,240	479	150,640
2027	160,702	19,410	141,292	9,827	2,309	573	2,575	8,387	9,020	839	150,550
2028	161,517	23,180	138,337	10,654	2,367	678	3,400	10,896	9,310	1,300	150,900
2029	162,179	26,690	135,489	11,343	2,411	781	4,380	13,691	9,530	1,853	151,970
2030	162,968	29,710	133,258	12,024	2,446	881	5,531	16,831	10,030	2,489	154,550
2031	163,880	32,520	131,360	12,681	2,503	975	6,856	20,289	10,030	3,154	157,480
2032	164,841	35,200	129,641	13,330	2,540	1,066	8,383	24,098	10,030	3,842	161,190
2033	165,895	37,680	128,215	14,012	2,586	1,159	10,133	28,156	10,030	4,535	165,630
2034	167,090	40,020	127,070	14,649	2,622	1,249	12,090	32,463	10,030	5,279	170,910
2035	168,187	42,260	125,927	15,233	2,656	1,341	14,209	36,915	10,030	6,157	176,690
2036	169,114	44,330	124,784	15,777	2,682	1,430	16,387	41,483	10,030	6,935	182,590
2037	170,036	46,260	123,776	16,280	2,714	1,521	18,551	45,969	10,030	7,677	188,530
2038	171,048	48,150	122,898	16,746	2,757	1,610	20,658	50,391	10,030	8,416	194,500
2039	172,276	50,000	122,276	17,185	2,778	1,699	22,683	54,632	10,030	9,143	200,500
2040	173,547	51,960	121,587	17,583	2,816	1,787	24,614	58,649	10,030	9,842	206,110
2041	174,736	53,910	120,826	17,959	2,848	1,879	26,434	62,268	10,030	10,500	211,130
2042	175,886	55,840	120,046	18,310	2,873	1,967	28,137	65,570	10,030	11,113	215,680
2043	176,904	57,530	119,374	18,623	2,889	2,056	29,714	68,463	10,030	11,675	219,800
2044	177,762	59,250	118,512	18,916	2,920	2,144	31,158	71,035	10,030	12,187	223,230
2045	178,686	60,970	117,716	19,182	2,949	2,231	32,451	73,113	10,030	12,670	226,080
2046	179,395	62,640	116,755	19,442	2,963	2,321	33,575	74,868	10,030	13,076	228,220
2047	180,429	64,450	115,979	19,674	2,980	2,410	34,514	76,278	10,030	13,423	229,980
2048	181,452	66,270	115,182	19,889	3,015	2,496	35,265	77,541	10,030	13,720	231,330
2049	182,392	68,020	114,372	20,069	3,026	2,583	35,830	78,383	10,030	13,967	232,070
2050	183,233	69,770	113,463	20,252	3,043	2,670	36,216	79,047	10,030	14,169	232,300
2051	184,405	71,550	112,855	20,427	3,069	2,758	36,393	79,553	10,030	14,307	232,400
2052	185,457	73,310	112,147	20,505	3,097	2,845	36,392	79,995	10,030	14,393	232,200
2053	186,587	75,020	111,567	20,588	3,110	2,932	36,296	80,181	10,030	14,442	231,750

- (a) - Econometric Energy Forecast - Reflects impacts of projected weather trends and economic growth
- (b) - Table I-8a-L: Energy Efficiency and Codes & Standards Energy Impacts, Relative to 2022
- (c) - End-Use Energy Consumption - Reflects projected end use energy consumption
- (d) - Table I-9b-L: Solar PV Impacts, Behind-the-Meter - Total Reductions in Annual Energy
- (e) - Table I-10b-L: Non-Solar Distributed Generation Impacts, Behind-the-Meter - Total Reductions in Annual Energy
- (f) - Table I-12b-L: Storage Annual Net Energy Consumption, both wholesale and behind-the-meter (pumped storage is not included - see Table III-2 for current resources)
- (g) - Table I-11b-L: Electric Vehicle Energy Usage
- (h) - Table I-13a-L: Building Electrification Energy Usage - future end-use electrification including heat pumps, water heating, cooking, and other end-uses
- (i) - Table I-14-L: Large Loads Forecast - reflects existing plus future load growth
- (j) - Table I-21-L: Electrolysis Annual Energy Impacts
- (k) - Table I-2-L: Lower Demand Policy Scenario Annual Energy Forecast

Lower demand policy scenario forecast tables: <https://www.nyiso.com/library>

Table I-15b: Summary of NYCA Lower Demand Policy Scenario Summer Coincident Peak Demand Forecasts – MW
 Reflects Achievement of State Policy Targets

Year	(a) Econometric Peak Demand	(b) (-) EE and C&S	(c) = a - b End-Use Peak Demand	(d) (-) Solar PV, BTM	(e) (-) Non-Solar DG, BTM	(f) (-) BTM Storage Peak Reductions	(g) (+) EV Peak Demand	(h) (+) Building Electrification	(i) (+) Large Load Projects	(j) (+) Electrolysis	(k) = c-d-e-f+g+h+i+j Lower Demand Scenario Summer Peak Forecast
2023	33,653	690	32,963	1,113	342	234	72	73	261	0	31,680
2024	34,140	1,340	32,800	1,133	367	351	105	99	517	0	31,670
2025	34,511	2,110	32,401	1,165	376	453	146	133	764	0	31,450
2026	34,791	2,880	31,911	1,190	387	557	198	171	1,004	0	31,150
2027	35,071	3,740	31,331	1,202	398	671	263	219	1,118	0	30,660
2028	35,346	4,540	30,806	1,201	408	780	345	272	1,146	0	30,180
2029	35,664	5,320	30,344	1,186	417	871	446	330	1,174	0	29,820
2030	35,900	5,930	29,970	1,177	422	943	562	396	1,224	0	29,610
2031	36,305	6,540	29,765	1,161	433	1,002	700	467	1,224	0	29,560
2032	36,718	7,130	29,588	1,143	439	1,048	861	547	1,224	0	29,590
2033	37,094	7,650	29,444	1,118	448	1,092	1,044	636	1,224	0	29,690
2034	37,504	8,190	29,314	1,084	453	1,132	1,250	731	1,224	0	29,850
2035	37,875	8,680	29,195	1,044	458	1,169	1,473	829	1,224	0	30,050
2036	38,193	9,130	29,063	997	463	1,202	1,705	930	1,224	0	30,260
2037	38,495	9,540	28,955	944	469	1,235	1,937	1,032	1,224	0	30,500
2038	38,800	9,940	28,860	891	476	1,264	2,162	1,135	1,224	0	30,750
2039	39,110	10,350	28,760	830	480	1,291	2,382	1,235	1,224	0	31,000
2040	39,395	10,710	28,685	767	487	1,324	2,589	1,330	1,224	0	31,250
2041	39,706	11,100	28,606	707	492	1,354	2,790	1,423	1,224	0	31,490
2042	39,975	11,440	28,535	648	497	1,379	2,974	1,511	1,224	0	31,720
2043	40,238	11,770	28,468	593	500	1,407	3,148	1,610	1,224	0	31,950
2044	40,429	12,040	28,389	540	505	1,435	3,309	1,718	1,224	0	32,160
2045	40,636	12,310	28,326	494	510	1,461	3,450	1,815	1,224	0	32,350
2046	40,845	12,590	28,255	453	513	1,484	3,579	1,902	1,224	0	32,510
2047	41,054	12,860	28,194	422	516	1,505	3,684	1,981	1,224	0	32,640
2048	41,256	13,110	28,146	393	522	1,528	3,769	2,054	1,224	0	32,750
2049	41,524	13,380	28,144	376	524	1,547	3,834	2,115	1,224	0	32,870
2050	41,784	13,630	28,154	369	527	1,570	3,881	2,167	1,224	0	32,960
2051	42,015	13,860	28,155	364	531	1,588	3,905	2,219	1,224	0	33,020
2052	42,234	14,070	28,164	358	537	1,606	3,908	2,265	1,224	0	33,060
2053	42,473	14,320	28,153	355	538	1,623	3,902	2,307	1,224	0	33,070

- (a) - Econometric Summer Peak Demand - Reflects impacts of projected weather trends and economic growth
- (b) - Table I-8b-L: Energy Efficiency and Codes & Standards Summer Coincident Peak Demand Reductions, Relative to 2022
- (c) - End-Use Summer Peak Demand - Reflects projected end use summer coincident peak demand
- (d) - Table I-9c-L: Solar PV Impacts, Behind-the-Meter, Total Reductions in Summer Coincident Peak Demand
- (e) - Table I-10c-L: Non-Solar Distributed Generation Impacts, Behind-the-Meter, Total Reductions in Coincident Peak Demand
- (f) - Table I-12c-L: Storage Impacts, Behind-the-Meter, Reductions in Coincident Peak Demand (pumped storage is not included - see Table III-2 for current resources)
- (g) - Table I-11c-L: Electric Vehicle Summer Coincident Peak Demand
- (h) - Table I-13b-L: Building Electrification Summer Coincident Peak Demand - future end-use electrification including heat pumps, water heating, cooking, and other end-uses
- (i) - Table I-14-L: Large Loads Forecast - reflects existing plus future load growth
- (j) - There are no electrolysis peak demand impacts as hydrogen production is expected to occur non-coincident with system peak electric load
- (k) - Table I-3a-L: Lower Demand Policy Scenario Summer Coincident Peak Demand Forecast

Lower demand policy scenario forecast tables: <https://www.nyiso.com/library>

Table I-15c: Summary of NYCA Lower Demand Policy Scenario Winter Coincident Peak Demand Forecasts – MW
 Reflects Achievement of State Policy Targets

Year	(a) Econometric Peak Demand	(b) (-) EE and C&S	(c) = a - b End-Use Peak Demand	(d) (-) Solar PV, BTM	(e) (-) Non-Solar DG, BTM	(f) (-) BTM Storage Peak Reductions	(g) (+) EV Peak Demand	(h) (+) Building Electrification	(i) (+) Large Load Projects	(j) (+) Electrolysis	(k) = c-d-e-f+g+h+i+j Lower Demand Scenario Winter Peak Forecast
2023-24	24,034	590	23,444	0	342	234	99	563	500	0	24,030
2024-25	24,150	1,140	23,010	0	367	351	141	1,712	635	0	24,780
2025-26	24,271	1,740	22,531	0	376	453	194	2,930	904	0	25,730
2026-27	24,446	2,380	22,066	0	387	557	264	4,260	1,044	0	26,690
2027-28	24,526	3,020	21,506	0	398	671	355	5,620	1,118	0	27,530
2028-29	24,594	3,650	20,944	0	408	780	466	7,152	1,146	0	28,520
2029-30	24,717	4,250	20,467	0	417	871	599	8,728	1,204	0	29,710
2030-31	24,815	4,810	20,005	0	422	943	756	10,480	1,224	0	31,100
2031-32	24,926	5,350	19,576	0	433	1,002	940	12,355	1,224	0	32,660
2032-33	25,076	5,930	19,146	0	439	1,048	1,154	14,253	1,224	0	34,290
2033-34	25,156	6,480	18,676	0	448	1,092	1,397	16,223	1,224	0	35,980
2034-35	25,359	7,060	18,299	0	453	1,132	1,673	18,459	1,224	0	38,070
2035-36	25,612	7,640	17,972	0	458	1,169	1,975	20,576	1,224	0	40,120
2036-37	25,744	8,240	17,504	0	463	1,202	2,284	22,573	1,224	0	41,920
2037-38	25,984	8,840	17,144	0	469	1,235	2,594	24,582	1,224	0	43,840
2038-39	26,249	9,490	16,759	0	476	1,264	2,898	26,419	1,224	0	45,560
2039-40	26,372	10,140	16,232	0	480	1,291	3,193	28,162	1,224	0	47,040
2040-41	26,571	10,810	15,761	0	487	1,324	3,470	29,686	1,224	0	48,330
2041-42	26,742	11,490	15,252	0	492	1,354	3,739	31,061	1,224	0	49,430
2042-43	26,793	12,200	14,593	0	497	1,379	3,989	32,180	1,224	0	50,110
2043-44	26,991	12,830	14,161	0	500	1,407	4,222	33,200	1,224	0	50,900
2044-45	27,232	13,510	13,722	0	505	1,435	4,436	34,098	1,224	0	51,540
2045-46	27,440	14,190	13,250	0	510	1,461	4,633	34,904	1,224	0	52,040
2046-47	27,674	14,870	12,804	0	513	1,484	4,801	35,448	1,224	0	52,280
2047-48	27,858	15,590	12,268	0	516	1,505	4,945	35,844	1,224	0	52,260
2048-49	28,068	16,310	11,758	0	522	1,528	5,062	36,176	1,224	0	52,170
2049-50	28,376	17,030	11,346	0	524	1,547	5,152	36,519	1,224	0	52,170
2050-51	28,612	17,720	10,892	0	527	1,570	5,217	36,744	1,224	0	51,980
2051-52	28,734	18,380	10,354	0	531	1,588	5,246	36,925	1,224	0	51,630
2052-53	29,113	19,060	10,053	0	537	1,606	5,255	37,011	1,224	0	51,400
2053-54	29,132	19,730	9,402	0	538	1,623	5,246	37,089	1,224	0	50,800

- (a) - Econometric Winter Peak Demand - Reflects impacts of projected weather trends and economic growth
- (b) - Table I-8c-L: Energy Efficiency and Codes & Standards Winter Coincident Peak Demand Reductions, Relative to 2022-23
- (c) - End-Use Winter Peak Demand - Reflects projected end use winter coincident peak demand
- (d) - The forecast of solar PV-related reductions to the winter peak is zero because the system typically peaks after sunset
- (e) - Table I-10c-L: Non-Solar Distributed Generation Impacts, Behind-the-Meter, Total Reductions in Coincident Peak Demand
- (f) - Table I-12c-L: Storage Impacts, Behind-the-Meter, Reductions in Coincident Peak Demand (pumped storage is not included - see Table III-2 for current resources)
- (g) - Table I-11d-L: Electric Vehicle Winter Coincident Peak Demand
- (h) - Table I-13c-L: Building Electrification Winter Coincident Peak Demand - future end-use electrification including heat pumps, water heating, cooking, and other end-uses
- (i) - Table I-14-L: Large Loads Forecast - reflects existing plus future load growth
- (j) - There are no electrolysis peak demand impacts as hydrogen production is expected to occur non-coincident with system peak electric load
- (k) - Table I-3b-L: Lower Demand Policy Scenario Winter Coincident Peak Demand Forecast

Lower demand policy scenario forecast tables: <https://www.nyiso.com/library>

Table I-16a: Summary of NYCA Higher Demand Policy Scenario Annual Energy Forecasts – GWh
 Reflects Achievement of State Policy Targets

Year	(a) Econometric Energy	(b) (-) EE and C&S	(c) = a - b End-Use Energy	(d) (-) Solar PV, BTM	(e) (-) Non-Solar DG, BTM	(f) (+) Storage Net Energy Consumption	(g) (+) EV Energy	(h) (+) Building Electrification	(i) (+) Large Load Projects	(j) (+) Electrolysis	(k) = c-d-e+f+g+h+i+j Higher Demand Scenario Annual Energy Forecast
2023	157,263	3,530	153,733	5,329	1,969	57	810	1,308	2,340	0	150,950
2024	158,989	7,250	151,739	6,529	2,130	159	1,218	2,803	4,490	0	151,750
2025	159,861	11,240	148,621	7,719	2,186	247	1,818	4,547	7,190	912	153,430
2026	160,825	15,190	145,635	8,834	2,246	374	2,626	6,574	9,720	1,311	155,160
2027	161,786	19,020	142,766	9,827	2,309	573	3,683	8,924	13,080	1,880	158,770
2028	162,902	22,690	140,212	10,654	2,367	678	4,948	11,623	16,020	2,720	163,180
2029	163,860	26,050	137,810	11,337	2,411	781	6,432	14,646	16,950	3,769	166,640
2030	164,956	28,900	136,056	11,879	2,446	881	8,159	18,054	17,680	4,975	171,480
2031	166,213	31,520	134,693	12,325	2,503	975	10,113	21,822	17,680	6,165	176,620
2032	167,521	34,000	133,521	12,727	2,540	1,066	12,313	25,991	18,100	7,326	183,050
2033	168,957	36,270	132,687	13,106	2,586	1,159	14,781	30,458	18,100	8,447	189,940
2034	170,573	38,380	132,193	13,458	2,622	1,249	17,543	35,224	18,100	9,571	197,800
2035	172,062	40,420	131,642	13,775	2,656	1,341	20,634	40,183	18,100	10,891	206,360
2036	173,415	42,300	131,115	14,068	2,682	1,430	23,714	45,298	18,100	12,593	215,500
2037	174,804	43,990	130,814	14,336	2,714	1,521	26,765	50,372	18,100	14,868	225,390
2038	176,291	45,620	130,671	14,582	2,757	1,610	29,763	55,410	18,100	17,525	235,740
2039	177,988	47,210	130,778	14,816	2,778	1,699	32,677	60,291	18,100	20,269	246,220
2040	179,828	48,890	130,938	15,023	2,816	1,787	35,485	64,976	18,100	22,803	256,250
2041	181,607	50,630	130,977	15,218	2,848	1,879	38,164	69,270	18,100	25,036	265,360
2042	183,317	52,280	131,037	15,399	2,873	1,967	40,699	73,246	18,100	27,093	273,870
2043	184,975	53,660	131,315	15,560	2,889	2,056	43,081	76,820	18,100	29,047	281,970
2044	186,453	54,990	131,463	15,707	2,920	2,144	45,305	80,064	18,100	30,911	289,360
2045	188,031	56,290	131,741	15,841	2,949	2,231	47,342	82,800	18,100	32,576	296,000
2046	189,439	57,520	131,919	15,974	2,963	2,321	49,170	85,203	18,100	34,014	301,790
2047	191,215	58,830	132,385	16,089	2,980	2,410	50,768	87,242	18,100	35,284	307,120
2048	192,969	60,140	132,829	16,201	3,015	2,496	52,131	89,124	18,100	36,456	311,920
2049	194,670	61,410	133,260	16,290	3,026	2,583	53,259	90,564	18,100	37,570	316,020
2050	196,246	62,630	133,616	16,384	3,043	2,670	54,205	91,815	18,100	38,621	319,600
2051	198,211	63,900	134,311	16,477	3,069	2,758	54,828	92,878	18,100	39,631	322,960
2052	200,027	65,150	134,877	16,547	3,097	2,845	55,267	93,860	18,100	40,615	325,920
2053	201,919	66,370	135,549	16,620	3,110	2,932	55,567	94,562	18,100	41,600	328,580

- (a) - Econometric Energy Forecast - Reflects impacts of projected weather trends and economic growth
- (b) - Table I-8a-H: Energy Efficiency and Codes & Standards Energy Impacts, Relative to 2022
- (c) - End-Use Energy Consumption - Reflects projected end use energy consumption
- (d) - Table I-9b-H: Solar PV Impacts, Behind-the-Meter - Total Reductions in Annual Energy
- (e) - Table I-10b-H: Non-Solar Distributed Generation Impacts, Behind-the-Meter - Total Reductions in Annual Energy
- (f) - Table I-12b-H: Storage Annual Net Energy Consumption, both wholesale and behind-the-meter (pumped storage is not included - see Table III-2 for current resources)
- (g) - Table I-11b-H: Electric Vehicle Energy Usage
- (h) - Table I-13a-H: Building Electrification Energy Usage - future end-use electrification including heat pumps, water heating, cooking, and other end-uses
- (i) - Table I-14-H: Large Loads Forecast - reflects existing plus future load growth
- (j) - Table I-21-H: Electrolysis Annual Energy Impacts
- (k) - Table I-2-H: Higher Demand Policy Scenario Annual Energy Forecast

Higher demand policy scenario forecast tables: <https://www.nyiso.com/library>

Table I-16b: Summary of NYCA Higher Demand Policy Scenario Summer Coincident Peak Demand Forecasts – MW
 Reflects Achievement of State Policy Targets

Year	(a) Econometric Peak Demand	(b) (-) EE and C&S	(c) = a - b End-Use Peak Demand	(d) (-) Solar PV, BTM	(e) (-) Non-Solar DG, BTM	(f) (-) BTM Storage Peak Reductions	(g) (+) EV Peak Demand	(h) (+) Building Electrification	(i) (+) Large Load Projects	(j) (+) Electrolysis	(k) = c-d-e-f+g+h+i+j Higher Demand Scenario Summer Peak Forecast
2023	33,793	650	33,143	1,113	342	234	162	73	261	0	31,950
2024	34,469	1,270	33,199	1,133	367	351	240	99	563	0	32,250
2025	34,961	2,010	32,951	1,165	376	453	354	134	895	0	32,340
2026	35,411	2,750	32,661	1,190	387	557	506	172	1,195	0	32,400
2027	35,897	3,540	32,357	1,202	398	671	704	221	1,619	0	32,630
2028	36,339	4,290	32,049	1,201	408	780	937	276	1,967	0	32,840
2029	36,921	5,000	31,921	1,185	417	871	1,212	335	2,085	0	33,080
2030	37,407	5,560	31,847	1,160	422	943	1,529	404	2,165	0	33,420
2031	38,000	6,070	31,930	1,127	433	1,002	1,887	480	2,165	0	33,900
2032	38,477	6,590	31,887	1,090	439	1,048	2,291	564	2,215	0	34,380
2033	38,974	7,050	31,924	1,047	448	1,092	2,740	658	2,215	0	34,950
2034	39,426	7,450	31,976	999	453	1,132	3,243	760	2,215	0	35,610
2035	39,871	7,840	32,031	947	458	1,169	3,801	867	2,215	0	36,340
2036	40,355	8,220	32,135	892	463	1,202	4,352	975	2,215	0	37,120
2037	40,842	8,570	32,272	837	469	1,235	4,888	1,086	2,215	0	37,920
2038	41,300	8,870	32,430	783	476	1,264	5,408	1,200	2,215	0	38,730
2039	41,887	9,180	32,707	723	480	1,291	5,909	1,313	2,215	0	39,650
2040	42,491	9,480	33,011	665	487	1,324	6,379	1,421	2,215	0	40,550
2041	43,091	9,790	33,301	610	492	1,354	6,822	1,528	2,215	0	41,410
2042	43,538	10,070	33,468	556	497	1,379	7,230	1,629	2,215	0	42,110
2043	43,921	10,310	33,611	506	500	1,407	7,600	1,747	2,215	0	42,760
2044	44,267	10,510	33,757	459	505	1,435	7,942	1,875	2,215	0	43,390
2045	44,650	10,730	33,920	418	510	1,461	8,242	1,992	2,215	0	43,980
2046	44,988	10,900	34,088	380	513	1,484	8,503	2,101	2,215	0	44,530
2047	45,378	11,100	34,278	352	516	1,505	8,719	2,201	2,215	0	45,040
2048	45,778	11,300	34,478	328	522	1,528	8,948	2,297	2,215	0	45,560
2049	46,182	11,470	34,712	313	524	1,547	9,138	2,379	2,215	0	46,060
2050	46,629	11,650	34,979	306	527	1,570	9,296	2,453	2,215	0	46,540
2051	47,059	11,820	35,239	302	531	1,588	9,397	2,530	2,215	0	46,960
2052	47,473	11,980	35,493	297	537	1,606	9,465	2,597	2,215	0	47,330
2053	47,705	12,130	35,575	294	538	1,623	9,514	2,661	2,215	0	47,510

- (a) - Econometric Summer Peak Demand - Reflects impacts of projected weather trends and economic growth
- (b) - Table I-8b-H: Energy Efficiency and Codes & Standards Summer Coincident Peak Demand Reductions, Relative to 2022
- (c) - End-Use Summer Peak Demand - Reflects projected end use summer coincident peak demand
- (d) - Table I-9c-H: Solar PV Impacts, Behind-the-Meter, Total Reductions in Summer Coincident Peak Demand
- (e) - Table I-10c-H: Non-Solar Distributed Generation Impacts, Behind-the-Meter, Total Reductions in Coincident Peak Demand
- (f) - Table I-12c-H: Storage Impacts, Behind-the-Meter, Reductions in Coincident Peak Demand (pumped storage is not included - see Table III-2 for current resources)
- (g) - Table I-11c-H: Electric Vehicle Summer Coincident Peak Demand
- (h) - Table I-13b-H: Building Electrification Summer Coincident Peak Demand - future end-use electrification including heat pumps, water heating, cooking, and other end-uses
- (i) - Table I-14-H: Large Loads Forecast - reflects existing plus future load growth
- (j) - There are no electrolysis peak demand impacts as hydrogen production is expected to occur non-coincident with system peak electric load
- (k) - Table I-3a-H: Higher Demand Policy Scenario Summer Coincident Peak Demand Forecast

Higher demand policy scenario forecast tables: <https://www.nyiso.com/library>

Table I-16c: Summary of NYCA Higher Demand Policy Scenario Winter Coincident Peak Demand Forecasts – MW
 Reflects Achievement of State Policy Targets

Year	(a) Econometric Peak Demand	(b) (-) EE and C&S	(c) = a - b End-Use Peak Demand	(d) (-) Solar PV, BTM	(e) (-) Non-Solar DG, BTM	(f) (-) BTM Storage Peak Reductions	(g) (+) EV Peak Demand	(h) (+) Building Electrification	(i) (+) Large Load Projects	(j) (+) Electrolysis	(k) = c-d-e-f+g+h+i+j Higher Demand Scenario Winter Peak Forecast
2023-24	24,047	570	23,477	0	342	234	215	594	510	0	24,220
2024-25	24,192	1,120	23,072	0	367	351	320	1,810	736	0	25,220
2025-26	24,358	1,680	22,678	0	376	453	474	3,102	1,065	0	26,490
2026-27	24,549	2,270	22,279	0	387	557	679	4,521	1,385	0	27,920
2027-28	24,676	2,870	21,806	0	398	671	945	5,979	1,779	0	29,440
2028-29	24,793	3,420	21,373	0	408	780	1,254	7,629	2,012	0	31,080
2029-30	24,953	3,960	20,993	0	417	871	1,620	9,335	2,130	0	32,790
2030-31	25,104	4,430	20,674	0	422	943	2,047	11,239	2,165	0	34,760
2031-32	25,273	4,890	20,383	0	433	1,002	2,528	13,289	2,195	0	36,960
2032-33	25,464	5,340	20,124	0	439	1,048	3,067	15,371	2,215	0	39,290
2033-34	25,601	5,770	19,831	0	448	1,092	3,669	17,545	2,215	0	41,720
2034-35	25,864	6,160	19,704	0	453	1,132	4,339	20,027	2,215	0	44,700
2035-36	26,189	6,630	19,559	0	458	1,169	5,089	22,394	2,215	0	47,630
2036-37	26,381	7,050	19,331	0	463	1,202	5,825	24,644	2,215	0	50,350
2037-38	26,692	7,440	19,252	0	469	1,235	6,545	26,932	2,215	0	53,240
2038-39	27,035	7,860	19,175	0	476	1,264	7,244	29,046	2,215	0	55,940
2039-40	27,235	8,310	18,925	0	480	1,291	7,913	31,078	2,215	0	58,360
2040-41	27,522	8,750	18,772	0	487	1,324	8,548	32,886	2,215	0	60,610
2041-42	27,781	9,170	18,611	0	492	1,354	9,140	34,550	2,215	0	62,670
2042-43	27,910	9,630	18,280	0	497	1,379	9,687	35,944	2,215	0	64,250
2043-44	28,202	10,040	18,162	0	500	1,407	10,192	37,248	2,215	0	65,910
2044-45	28,545	10,420	18,125	0	505	1,435	10,652	38,428	2,215	0	67,480
2045-46	28,864	10,820	18,044	0	510	1,461	11,060	39,522	2,215	0	68,870
2046-47	29,210	11,200	18,010	0	513	1,484	11,414	40,338	2,215	0	69,980
2047-48	29,494	11,650	17,844	0	516	1,505	11,707	40,995	2,215	0	70,740
2048-49	29,829	12,050	17,779	0	522	1,528	12,019	41,577	2,215	0	71,540
2049-50	30,267	12,470	17,797	0	524	1,547	12,277	42,192	2,215	0	72,410
2050-51	30,639	12,860	17,779	0	527	1,570	12,493	42,680	2,215	0	73,070
2051-52	30,882	13,260	17,622	0	531	1,588	12,631	43,111	2,215	0	73,460
2052-53	31,366	13,640	17,726	0	537	1,606	12,726	43,426	2,215	0	73,950
2053-54	31,519	14,020	17,499	0	538	1,623	12,795	43,742	2,215	0	74,090

- (a) - Econometric Winter Peak Demand - Reflects impacts of projected weather trends and economic growth
- (b) - Table I-8c-H: Energy Efficiency and Codes & Standards Winter Coincident Peak Demand Reductions, Relative to 2022-23
- (c) - End-Use Winter Peak Demand - Reflects projected end use winter coincident peak demand
- (d) - The forecast of solar PV-related reductions to the winter peak is zero because the system typically peaks after sunset
- (e) - Table I-10c-H: Non-Solar Distributed Generation Impacts, Behind-the-Meter, Total Reductions in Coincident Peak Demand
- (f) - Table I-12c-H: Storage Impacts, Behind-the-Meter, Reductions in Coincident Peak Demand (pumped storage is not included - see Table III-2 for current resources)
- (g) - Table I-11d-H: Electric Vehicle Winter Coincident Peak Demand
- (h) - Table I-13c-H: Building Electrification Winter Coincident Peak Demand - future end-use electrification including heat pumps, water heating, cooking, and other end-uses
- (i) - Table I-14-H: Large Loads Forecast - reflects existing plus future load growth
- (j) - There are no electrolysis peak demand impacts as hydrogen production is expected to occur non-coincident with system peak electric load
- (k) - Table I-3b-H: Higher Demand Policy Scenario Winter Coincident Peak Demand Forecast

Higher demand policy scenario forecast tables: <https://www.nyiso.com/library>

Table I-17: Projection of SCR and EDRP Enrollment

Special Case Resources - MW

Zone	Summer	Winter
A	209.6	147.5
B	29.7	18.3
C	90.1	63.0
D	217.8	207.4
E	33.1	17.9
F	114.2	56.0
G	36.1	24.7
H	10.9	8.8
I	32.2	18.0
J	418.6	223.3
K	33.7	16.6
NYCA	1,226.0	801.5

Emergency Demand Response Program - MW

Zone	Summer	Winter
A	0.0	0.0
B	0.0	0.0
C	0.0	0.0
D	0.0	0.1
E	0.3	0.0
F	0.0	0.0
G	0.0	0.0
H	0.0	0.0
I	0.3	0.1
J	7.8	0.3
K	0.0	0.0
NYCA	8.4	0.5

Note: SCR and EDRP values are based on the projected enrollment for Summer 2023 and Winter 2023-24. Projected SCR enrollment is assumed to remain constant through the 2033-34 Capability Year in Table V-2.

Table I-18: Historical NYCA System Peak Demand

New York Control Area System Coincident Peaks

Summer Coincident Peak Dates & Times

May 1 through October 31

Year	Date	Hour Beginning	Summer Peak MW
1997	7/15/1997	14	28,699
1998	7/22/1998	16	28,161
1999	7/6/1999	13	30,311
2000	6/26/2000	16	28,138
2001	8/9/2001	14	30,982
2002	7/29/2002	16	30,664
2003	6/26/2003	16	30,333
2004	6/9/2004	16	28,433
2005	7/26/2005	16	32,075
2006	8/2/2006	13	33,939
2007	8/8/2007	16	32,169
2008	6/9/2008	16	32,432
2009	8/17/2009	15	30,844
2010	7/6/2010	16	33,452
2011	7/22/2011	15	33,865
2012	7/17/2012	16	32,439
2013	7/19/2013	16	33,956
2014	9/2/2014	15	29,782
2015	7/29/2015	16	31,138
2016	8/11/2016	16	32,076
2017	7/19/2017	17	29,699
2018	8/29/2018	16	31,861
2019	7/20/2019	16	30,397
2020	7/27/2020	17	30,660
2021*	6/29/2021	17	30,919
2022	7/20/2022	17	30,505

Winter Coincident Peak Dates & Times

November 1 through following April 30

Year	Date	Hour Beginning	Winter Peak MW
1997 - 98	12/10/1997	17	22,445
1998 - 99	1/14/1999	17	23,878
1999 - 00	1/18/2000	17	24,041
2000 - 01	12/13/2000	17	23,774
2001 - 02	4/18/2002	16	23,713
2002 - 03	1/23/2003	18	24,454
2003 - 04	1/15/2004	18	25,262
2004 - 05	12/20/2004	17	25,541
2005 - 06	12/14/2005	18	25,060
2006 - 07	2/5/2007	17	25,057
2007 - 08	1/3/2008	18	25,021
2008 - 09	12/22/2008	17	24,673
2009 - 10	12/17/2009	17	24,074
2010 - 11	12/14/2010	17	24,654
2011 - 12	1/3/2012	17	23,901
2012 - 13	1/24/2013	18	24,658
2013 - 14	1/7/2014	18	25,738
2014 - 15	1/7/2015	18	24,648
2015 - 16	1/19/2016	18	23,317
2016 - 17	12/15/2016	17	24,164
2017 - 18	1/5/2018	17	25,081
2018 - 19	1/21/2019	18	24,728
2019 - 20	12/19/2019	17	23,253
2020 - 21	12/16/2020	17	22,542
2021 - 22	1/11/2022	17	23,237
2022 - 23	2/3/2023	18	23,369

Note: Record peaks are highlighted.

Note: Peak hours are reported as hour beginning (e.g., if the peak occurs during the 4 to 5 PM hour, the hour beginning value is 16).

Note: Beginning in 2021, the peak hour for purposes of the ICAP market weather normalization and forecast is constrained to July and August non-holiday weekdays.

* The ICAP market peak hour in 2021 was 8/26/2021, hour beginning 16 (30,309 MW).

Note: Values reflect NYISO operational data metered peak load, before weather normalization and demand response addbacks.

Table I-19: Weather Normalized Annual Energy and Seasonal Peak Demand

Historical System Weather Normalized Values

Year	WN Annual Energy (GWh)	Summer	WN Peak (MW)	Winter	WN Peak (MW)
2003	158,141	2003	31,410	2003 - 04	24,900
2004	160,843	2004	31,400	2004 - 05	25,250
2005	164,105	2005	33,068	2005 - 06	24,770
2006	163,200	2006	32,992	2006 - 07	25,030
2007	165,922	2007	33,444	2007 - 08	25,490
2008	166,950	2008	33,670	2008 - 09	25,016
2009	161,680	2009	33,063	2009 - 10	24,537
2010	161,838	2010	32,453	2010 - 11	24,452
2011	163,123	2011	33,019	2011 - 12	24,630
2012	163,081	2012	33,106	2012 - 13	24,630
2013	163,610	2013	33,497	2013 - 14	24,610
2014	161,113	2014	33,291	2014 - 15	24,500
2015	160,352	2015	33,226	2015 - 16	24,220
2016	159,203	2016	33,225	2016 - 17	24,416
2017	156,747	2017	32,914	2017 - 18	24,265
2018	158,435	2018	32,512	2018 - 19	24,114
2019	155,848	2019	32,357	2019 - 20	24,123
2020	150,310	2020	31,723	2020 - 21	23,890
2021	152,147	2021	31,528	2021 - 22	23,708
2022	152,058	2022	31,709	2022 - 23	23,674

Note: Historical summer peak weather normalized values are from the ICAP forecast process, and include estimated demand response impacts added back. The NYCA aggregate design weather condition is 57th percentile summer peak day weather.

Note: Weather normalized annual energy values for all prior years have been calculated using the current methodology, and may differ slightly from values reported in prior Gold Books.

Table I-20: Historical NYCA Peak Day Weather Distributions

Summer NYCA Peak Day Temperature - Daily Average (deg F)

Weather	A	B	C	D	E	F	G	H	I	J	K	NYCA
10th	74	75	75	73	75	77	78	79	80	82	79	78
Baseline	79	79	79	78	78	80	82	83	85	87	83	83
90th	83	84	83	83	81	84	85	86	87	90	87	86
99th	86	87	86	87	84	87	88	89	90	93	91	89

Summer NYCA Peak Day Temperature - Daily Maximum (deg F)

Weather	A	B	C	D	E	F	G	H	I	J	K	NYCA
10th	82	85	85	82	85	87	89	89	88	89	87	87
Baseline	87	89	90	88	89	91	94	94	95	95	92	91
90th	91	94	95	94	93	96	97	98	98	98	98	95
99th	95	97	98	98	96	99	100	102	102	102	103	99

Winter NYCA Peak Day Temperature - Daily Average (deg F)

Weather	A	B	C	D	E	F	G	H	I	J	K	NYCA
10th	20	20	19	13	17	20	24	25	26	29	29	24
Baseline	11	10	9	3	7	9	12	14	14	16	19	13
90th	1	1	-1	-8	-4	-2	4	6	7	10	10	5
99th	-6	-7	-9	-17	-12	-11	-4	-2	0	3	3	-2

Winter NYCA Peak Day Temperature - Daily Minimum (deg F)

Weather	A	B	C	D	E	F	G	H	I	J	K	NYCA
10th	15	14	13	6	10	14	18	19	21	24	23	19
Baseline	5	5	3	-5	-1	2	6	8	8	11	14	8
90th	-4	-5	-8	-16	-12	-9	-3	0	1	4	4	0
99th	-12	-12	-16	-25	-21	-18	-11	-8	-7	-4	-4	-8

Section II

**Changes in Generating Facilities &
Generation Since the 2022 *Gold Book***

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Section II

This section provides an overview of significant changes in generating facilities since the 2022 *Gold Book* was issued, together with a summary of changes in energy generation in the past year. This information is presented in two steps. Reported first is the net change in existing generation from the 2022 Gold Book through March 15, 2022, which is a decrease of 342.4 MW⁹ for the summer. Second, any additional generation changes from March 15, 2023 until the summer of 2023 are reported, which is a decrease of 283.9 MW, excluding changes in Special Case Resources and Net Purchases. This results in a total capacity decrease of 626.3 MW from the summer of 2022 to the summer of 2023. All generator capacity values listed in this section are DMNC.

Changes in Existing Generation Since the 2022 Gold Book

The existing summer 2023 NYCA installed generating capacity of 37,177.9 MW (as of March 15, 2023) decreased by 342.4 MW from the summer 2022 generating capacity of 37,520.3 MW, as shown in Table II-1a. The winter 2023-24 NYCA installed generating capacity of 39,782.9 MW (as of March 15, 2023) decreased by 356.1 MW from the winter 2022-23 generating capacity of 40,139.0 MW, as shown in Table II-1b.

Table II-1a: Summary of Changes in Summer Capacity Since 2022 – MW

Generator Fuel Types	2022 Capacity	Deactivations	Additions & Uprates	Reclassifications	Ratings Changes	2023 Capacity
Gas	4,717.6	-7.7	0.0		-118.0	4,591.9
Oil	2,287.9	-283.5	0.0		-9.9	1,994.5
Gas & Oil	19,295.8	-54.6	0.0		-161.7	19,079.5
Nuclear	3,341.2	0.0	0.0		-36.6	3,304.6
Hydro	4,273.8	0.0	0.0		-8.5	4,265.3
Wind	1,817.6	0.0	233.0		0.0	2,050.6
Solar	51.5	0.0	102.9		0.0	154.4
Energy Storage	1,408.8	0.0	0.0		-1.4	1,407.4
Other	326.1	-1.6	5.6		-0.4	329.7
Total	37,520.3	-347.4	341.5	0.0	-336.5	37,177.9

⁹ All values in this section have been rounded to the 0.1 MW. This may result in slight numerical differences as compared to values reported in other sections of this report.

Since the publication of the 2022 *Gold Book*, nine generating units totaling 341.5 MW have been added in the summer and winter capability periods. There were 21 units that have been deactivated¹⁰ totaling 347.4 MW of summer capacity and 464.9 MW of winter capacity. There were no reclassifications of generators from one fuel type to another since the 2022 *Gold Book*. Finally, capability (or ratings) changes in existing generators resulted in a net decrease of 336.5 MW in summer and a net decrease of 232.7 MW in winter.

Table II-1b: Summary of Changes in Winter Capacity Since 2022 – MW

Generator Fuel Types	2022-23 Capacity	Deactivations	Additions & Uprates	Reclassifications	Ratings Changes	2023-24 Capacity
Gas	5,122.8	-11.1	0.0		-44.1	5,067.6
Oil	2,689.1	-378.8	0.0		-5.8	2,304.5
Gas & Oil	21,130.8	-73.4	0.0		-157.4	20,900.0
Nuclear	3,358.3	0.0	0.0		-2.5	3,355.8
Hydro	4,227.8	0.0	0.0		-20.6	4,207.2
Wind	1,817.6	0.0	233.0		0.0	2,050.6
Solar	51.5	0.0	102.9		0.0	154.4
Energy Storage	1,410.9	0.0	0.0		-3.3	1,407.6
Other	330.2	-1.6	5.6		1.0	335.2
Total	40,139.0	-464.9	341.5	0.0	-232.7	39,782.9

The gas and oil fuel type is identified based upon whether or not environmental permits, pipeline connections, regulatory compliance requirements, and/or storage tanks, as appropriate, are in place to allow for the use of the fuel(s) listed for each generating unit in Table III-2. The fuel type selection is not meant to provide any information on current fuel inventory. It should be noted that maximum capabilities on secondary fuels may be limited.

Generator ratings are updated semi-annually for the summer and winter capability periods. Additional information on existing generation is provided in Section III. The NYISO also reports generator status changes each month on our website at: <https://www.nyiso.com/ny-power-system-information-outlook>.

¹⁰ Deactivations include units in an ICAP Ineligible Forced Outage (“IIFO”) state that have been removed from Table III-2.

Proposed Changes to Generation for Summer 2023

Proposed generator additions result in an increase of 365.7 MW for the summer capability period. Proposed generator deactivations result in a decrease 649.6 MW for the summer, resulting in an overall decrease of 283.9 MW, as shown in Table V-2a.

Demand Response Resources for Summer 2023 and Winter 2023-24

The projected 2023 summer capability for SCR is 1,226.0 MW. The projected summer 2023 enrollment for the EDRP is 8.4 MW. For winter 2023-24, the SCR total is 801.5 MW and the EDRP enrollment is 0.5 MW.

Total Resource Capability for Summer 2023 and Winter 2023-24

The total resource capability forecasted for the 2023 summer capability period is 40,261.6 MW. This value is the sum of existing facilities (37,177.9 MW), Special Case Resources (1,226.0 MW), net generation additions¹¹ and deactivations (-283.9 MW) and net purchases from external areas (2,141.6 MW). This is a decrease of 798.3 MW from the 2022 value of 41,059.9 MW projected in the 2022 *Gold Book*.

For the winter capability period, the forecasted total resource capability is 42,545.7 MW. This value is the sum of existing facilities (39,782.9 MW), Special Case Resources (801.5MW), net generation additions and deactivations (372.7 MW), and net purchases from external areas (1,588.6 MW). This is a decrease of 1,770.0 MW from the 2022-2023 value of 44,315.7 MW projected in the 2022 *Gold Book*.

Summary of 2022 Energy Generation

In 2022, a total of 125,691 GWh was generated in the NYCA, a decrease of 0.8% from the 126,766 GWh generated in 2021. Renewable energy generation was 34,658 GWh in 2022 (27.6% of total NYCA generation), compared to 35,321 GWh in 2021 (27.9%). Fossil-fueled energy generation in 2022 was 64,151 GWh (51.0%), compared to 60,332 GWh in 2021 (47.6%). Nuclear energy generation was 26,883 GWh in 2022 (21.4%), compared to 31,113 GWh in 2021 (24.5%).

¹¹ Expected additions include projects that have either completed a Class Year Interconnection Facilities Study or an Interconnection Agreement for Non Class Year Generators, as shown in Table IV-1.

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Section III

Existing Generating Facilities

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Section III

This section lists existing generating resources operating in the NYCA as of March 15, 2023. Table III-2 reports information on generator ownership, location, in-service date, fuels used, and generator type. It includes values for nameplate rating, NYISO summer and winter Capacity Resource Interconnection Service (CRIS) MW values¹² for generators, summer and winter capability, and net energy generated during the preceding calendar year. Generator facilities that have been deactivated since the publication of the 2022 *Gold Book* remain listed in Table III-2 for one year. Table III-2a reports this information for generators that participate in the NYISO's markets, while Table III-2b reports applicable information for generators that do not participate in the NYISO's markets, such as generators that operate solely as load modifiers. Generators are listed by zone, and generally by PTID number and/or station-unit name. Net energy values reported for battery storage, flywheel, and pumped storage resources reflect aggregate net injections (energy supplied to the grid less energy drawn from the grid).

The values for the Summer Capability Period in this *Gold Book* reflect the most recent DMNC values available. The 2023 Summer Installed Capacity market will generally use DMNC values taken from the 2022 Summer Capability Period. The Winter Capability Period values represent the most recent DMNC values demonstrated during a Winter Capability Period. The 2023-24 Winter Installed Capacity Market will generally use DMNC values taken from the 2022-23 Winter Capability Period.

Units are classified as dual-fuel (gas & oil) when environmental permits, pipeline connections, regulatory compliance requirements, and/or storage tanks allow for the use of the Type 2 fuel listed for each generating unit in Table III-2. Generators may choose the fuel type when conducting their DMNC test. The fuel type selection is not meant to provide any information on current fuel inventories, nor does it indicate which of the fuels generators might consider as their primary fuel. The NYISO does not report the DMNC for generation with alternate fuels for the following reasons: (1) the NYISO does not currently require a DMNC test on alternate fuels, (2) alternate fuel inventories are unit-specific, and (3) permit capabilities do not necessarily reflect unit performance.

Table III-3c provides the amount of energy generated in the state, and Table III-3d provides the amount of NYCA net energy interchange scheduled with other control areas.

¹² CRIS values, in MW of Installed Capacity, for the Summer Capability Period are established pursuant to applicable procedures contained in Attachments X, S and Z to the NYISO OATT.

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Table III-1: Existing Generating Facilities Codes and Abbreviations

FUEL TYPE	UNIT TYPE
BAT - Battery	CC - Combined Cycle
BUT - Butane	CG - Cogeneration
FO2 - No. 2 Fuel Oil	CT - Combustion Turbine Portion (CC)
FO4 - No. 4 Fuel Oil	CW - Waste Heat Only (CC)
FO6 - No. 6 Fuel Oil	ES - Energy Storage
FW - Fly Wheel	FC - Fuel Cell
JF - Jet Fuel	GT - Combustion Turbine
KER - Kerosene	HY - Conventional Hydro
MTE - Methane (Bio Gas)	IC - Internal Combustion
NG - Natural Gas	JE - Jet Engine
OT - Other (Describe In Footnote)	NB - Steam (BWR Nuclear)
REF - Refuse (Solid Waste)	NP - Steam (PWR Nuclear)
SUN - Sunlight	PS - Pumped Storage Hydro
UR - Uranium	PV - Photovoltaic
WAT - Water	ST - Steam Turbine (Fossil)
WD - Wood and/or Wood Waste	WT - Wind Turbine
WND - Wind	

COUNTY CODES NEW YORK - NY - 36	
001 - Albany	063 - Niagara
003 - Allegany	065 - Oneida
005 - Bronx	067 - Onondaga
007 - Broome	069 - Ontario
009 - Cattaraugus	071 - Orange
011 - Cayuga	073 - Orleans
013 - Chautauqua	075 - Oswego
015 - Chemung	077 - Otsego
017 - Chenango	079 - Putnam
019 - Clinton	081 - Queens
021 - Columbia	083 - Rensselaer
023 - Cortland	085 - Richmond
025 - Delaware	087 - Rockland
027 - Dutchess	089 - St Lawrence
029 - Erie	091 - Saratoga
031 - Essex	093 - Schenectady
033 - Franklin	095 - Schoharie
035 - Fulton	097 - Schuyler
037 - Genesee	099 - Seneca
039 - Greene	101 - Steuben
041 - Hamilton	103 - Suffolk
043 - Herkimer	105 - Sullivan
045 - Jefferson	107 - Tioga
047 - Kings	109 - Tompkins
049 - Lewis	111 - Ulster
051 - Livingston	113 - Warren
053 - Madison	115 - Washington
055 - Monroe	117 - Wayne
057 - Montgomery	119 - Westchester
059 - Nassau	121 - Wyoming
061 - New York	123 - Yates

COUNTY CODES PENNSYLVANIA - PA - 42	
001 - Adams	067 - Juniata
003 - Allegheny	069 - Lackawanna
005 - Armstrong	071 - Lancaster
007 - Beaver	073 - Lawrence
009 - Bedford	075 - Lebanon
011 - Berks	077 - Lehigh
013 - Blair	079 - Luzerne
015 - Bradford	081 - Lycoming
017 - Bucks	083 - McKean
019 - Butler	085 - Mercer
021 - Cambria	087 - Mifflin
023 - Cameron	089 - Monroe
025 - Carbon	091 - Montgomery
027 - Centre	093 - Montour
029 - Chester	095 - Northampton
031 - Clarion	097 - Northumberland
033 - Clearfield	099 - Perry
035 - Clinton	101 - Philadelphia
037 - Columbia	103 - Pike
039 - Crawford	105 - Potter
041 - Cumberland	107 - Schuylkill
043 - Dauphin	109 - Snyder
045 - Delaware	111 - Somerset
047 - Elk	113 - Sullivan
049 - Erie	115 - Susquehanna
051 - Fayette	117 - Tioga
053 - Forest	119 - Union
055 - Franklin	121 - Venango
057 - Fulton	123 - Warren
059 - Greene	125 - Washington
061 - Huntingdon	127 - Wayne
063 - Indiana	129 - Westmoreland
065 - Jefferson	131 - Wyoming
	133 - York

COUNTY CODES MASSACHUSETTS - MA - 25	
001 - Barnstable	
003 - Berkshire	
005 - Bristol	
007 - Dukes	
009 - Essex	
011 - Franklin	
013 - Hampden	
015 - Hampshire	
017 - Middlesex	
019 - Nantucket	
021 - Norfolk	
023 - Plymouth	
025 - Suffolk	
027 - Worcester	

COUNTY CODES NEW JERSEY - NJ - 34	
001 - Atlantic	
003 - Bergen	
005 - Burlington	
007 - Camden	
009 - Cape May	
011 - Cumberland	
013 - Essex	
015 - Gloucester	
017 - Hudson	
019 - Hunterdon	
021 - Mercer	
023 - Middlesex	
025 - Monmouth	
027 - Morris	
029 - Ocean	
031 - Passaic	
033 - Salem	
035 - Somerset	
037 - Sussex	
039 - Union	
041 - Warren	

Table III-2a: NYISO Market Generators

Owner, Operator, and / or Billing Organization	Station	Unit	Zone	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(D) MW	2023 CRIS ^(A) MW		2023 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(U)		2022 Net Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
					Jamestown Board of Public Utilities	Jamestown 5		A	1658	Jamestown	013	36	1951-08-01	28.7	23.0	23.0	22.4	21.1	YES
Jamestown Board of Public Utilities	Jamestown 6		A	1658	Jamestown	013	36	1968-08-01	25.0	22.4	22.4	19.5	18.4	YES	ST	NG	FO2	9.6	
Jamestown Board of Public Utilities	Jamestown 7		A	1659	Jamestown	013	36	2002-01-01	47.3	40.0	40.0	40.4	47.0		GT	NG		66.3	
New York Power Authority	Lewiston PS (Fleet)		A	23760	Niagara Falls	063	36	1961-01-01	240.0	240.0	240.0	240.0	240.0		PS	WAT		-230.3	
New York Power Authority	Moses Niagara (Fleet)		A	23760	Niagara Falls	063	36	1961-01-01	2,860.0	2,460.0	2,460.0	2,435.0	2,435.0		HY	WAT		15,489.5	
Indeck-Yerkes LP	Indeck-Yerkes		A	23781	Tonawanda	029	36	1990-02-01	59.9	49.7	60.5	45.8	57.3	YES	CC	NG	FO2	13.8	
Erie Blvd. Hydro - NYS Barge	Hydraulic Race		A	23848	Lockport	063	36	1942-01-01	4.7	3.1	3.1	4.7	4.7		HY	WAT		7.1	
Indeck-Olean LP	Indeck-Olean		A	23982	Olean	009	36	1993-12-01	90.6	79.4	88.5	77.2	85.7	YES	CC	NG	FO2	100.5	
Covanta Niagara, LP	American Ref-Fuel 1		A	24010	Niagara	063	36	1993-05-01	25.0	19.6	19.6	17.9	18.0		ST	REF		140.1	(G)
Covanta Niagara, LP	American Ref-Fuel 2		A	24010	Niagara	063	36	1993-05-01	25.0	19.6	19.6	17.9	17.9		ST	REF			
Emera Energy Services Sub. No. 3 LLC	Fortistar - N.Tonawanda		A	24026	N Tonawanda	029	36	1993-06-01	68.5	59.0	75.0	57.3	64.5	YES	CC	NG	FO2	55.1	
Model City Energy LLC	Model City Energy		A	24167	Lewiston	063	36	2001-06-01	5.6	5.6	5.6	5.6	5.6		IC	MTE		28.9	
Modern Innovative Energy, LLC	Modern LF		A	323580	Lewiston	063	36	2006-02-01	6.4	6.4	6.4	6.4	6.4		IC	MTE		33.2	
Niagara Wind Power, LLC	Steel Wind		A	323596	Lackawanna	029	36	2007-01-23	20.0	0.0	0.0	0.0	0.0		WT	WND		66.0	
Exelon Generation Company, LLC	Chaffee		A	323603	Chaffee	029	36	2007-08-09	6.4	6.4	6.4	6.4	6.4		IC	MTE		43.1	
Noble Bliss Windpark, LLC	Bliss Wind Power		A	323608	Bliss	121	36	2008-03-20	100.5	100.5	100.5	100.5	100.5		WT	WND		199.4	
Innovative Energy Systems, Inc.	Chautauqua LFGE		A	323629	Jamestown	013	36	2010-02-12	9.6	0.0	0.0	0.0	0.0		IC	MTE		18.0	
Erie Wind, LLC	Erie Wind		A	323693	Lackawanna	029	36	2012-02-01	15.0	0.0	0.0	0.0	0.0		WT	WND		47.1	
EDP Renewables NA	Arkwright Summit Wind Farm		A	323751	Arkwright	013	36	2018-09-01	78.4	78.4	78.4	78.4	78.4		WT	WND		257.9	
Consolidated Edison Energy, Inc.	Lockport CC1		A	323769	Lockport	063	36	1992-07-01	73.8	75.1	87.3	69.1	76.4	YES	CC	NG	FO2	194.3	(G)
Consolidated Edison Energy, Inc.	Lockport CC2		A	323770	Lockport	063	36	1992-07-01	73.8	75.1	87.2	69.1	76.4	YES	CC	NG	FO2		
Consolidated Edison Energy, Inc.	Lockport CC3		A	323771	Lockport	063	36	1992-07-01	73.8	75.0	87.2	69.1	76.4	YES	CC	NG	FO2		
Cassadaga Wind, LLC	Cassadaga Wind		A	323784	Charlotte	013	36	2021-04-01	126.5	126.0	126.0	0.0	0.0		WT	WND		264.4	
Orangeville Energy Storage LLC	Orangeville ESR		A	323794	Orangeville	121	36	2021-10-19	20.0	0.0	0.0	0.0	0.0		ES	BAT		0.0	
Seneca Power Partners, L.P.	Allegany		B	23514	Hume	003	36	1995-03-01	67.0	62.9	82.2	62.2	63.2		CC	NG		43.9	
R.E. Ginna Nuclear Power Plant, LLC	R. E. Ginna		B	23603	Ontario	117	36	1970-07-01	614.0	582.0	582.0	580.3	582.0		NP	UR		5,045.0	
Rochester Gas and Electric Corp.	Station 2 1		B	23604	Rochester	055	36	1913-07-01	8.5	6.5	6.5	8.5	8.5		HY	WAT		21.5	(G)
Rochester Gas and Electric Corp.	Station 26 1		B	23604	Rochester	055	36	1952-08-01	3.0	3.0	3.0	3.0	3.0		HY	WAT			
Rochester Gas and Electric Corp.	Station 5 1		B	23604	Rochester	055	36	1918-07-01	14.0	11.8	11.8	14.0	14.0		HY	WAT			
Rochester Gas and Electric Corp.	Station 5 2		B	23604	Rochester	055	36	1918-07-01	13.6	11.8	11.8	13.6	13.6		HY	WAT			
Rochester Gas and Electric Corp.	Station 5 3		B	23604	Rochester	055	36	1918-07-01	18.0	16.5	16.5	18.0	18.0		HY	WAT			
Seneca Power Partners, L.P.	Batavia		B	24024	Batavia	037	36	1992-06-01	67.3	57.1	71.7	47.8	58.6		CC	NG		2.3	
Erie Blvd. Hydro - Oak Orchard	Glenwood 1		B	24046	Medina	073	36	1950-01-01	0.5	0.5	0.5	0.5	0.5		HY	WAT		1.9	
Erie Blvd. Hydro - Oak Orchard	Glenwood 2		B	24046	Medina	073	36	1950-01-01	0.5	0.5	0.5	0.5	0.5		HY	WAT		1.5	
Erie Blvd. Hydro - Oak Orchard	Glenwood 3		B	24046	Medina	073	36	1950-01-01	0.5	0.5	0.5	0.5	0.5		HY	WAT		2.3	
Erie Blvd. Hydro - Oak Orchard	Oak Orchard		B	24046	Waterport	073	36	1941-01-01	0.4	0.3	0.3	0.4	0.4		HY	WAT		9.2	
Erie Blvd. Hydro - Oak Orchard	Waterport 1		B	24046	Waterport	073	36	1941-01-01	2.3	1.6	1.6	2.3	2.3		HY	WAT		9.2	
Erie Blvd. Hydro - Oak Orchard	Waterport 2		B	24046	Waterport	073	36	1968-01-01	2.5	1.8	1.8	2.5	2.5		HY	WAT		2.7	

Table III-2a: NYISO Market Generators (cont'd)

Owner, Operator, and / or Billing Organization	Station	Unit	Zone	PTID	Location			In-Service Date	Name Plate Rating ^(D)	2023 CRIS ^(A)		2023 Capability ^(B)		D U A L	Unit Type	Fuel ^(J)		2022 Net Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
					YYYY-MM-DD	MW	SUM	WIN	SUM	WIN									
Western New York Wind Corp.	Western NY Wind Power		B	24143	Wethersfield	121	36	2000-10-01	6.6	0.0	0.0	0.0	0.0	WT	WND			0.0	
Exelon Generation Company, LLC	Mill Seat		B	323607	Riga	055	36	2007-07-20	6.4	6.4	6.4	6.4	6.4	IC	MTE			49.1	
Innovative Energy Systems, Inc.	Hyland LFGE		B	323620	Angelica	003	36	2008-09-08	4.8	4.8	4.8	4.8	4.8	IC	MTE			36.6	
Exelon Generation Company, LLC	Synergy Biogas		B	323694	Wyoming	121	36	2012-09-01	2.0	0.0	0.0	0.0	0.0	IC	MTE			0.0	
RED-Rochester, LLC	Red Rochester (BTM:NG)		B	323720	Rochester	055	36	2021-04-05	117.0	14.8	14.8	12.5	13.0	YES	ST	NG	F02	11.8	(31)(E)
New York State Elec. & Gas Corp.	Allegheny 8		C	23528	Kittanning PA	005	42	1990-10-01	16.0	14.7	14.7	16.0	16.0	HY	WAT			157.3	(G)
New York State Elec. & Gas Corp.	Allegheny 9		C	23528	Kittanning PA	005	42	1990-10-01	22.0	20.2	20.2	22.0	22.0	HY	WAT				
Nine Mile Point Nuclear Station, LLC	Nine Mile Point 1		C	23575	Scriba	075	36	1969-11-01	641.8	630.5	630.5	620.9	626.5	NB	UR			5,407.7	
Nine Mile Point Nuclear Station, LLC	Nine Mile Point 2		C	23744	Scriba	075	36	1988-08-01	1,399.0	1,310.0	1,310.0	1,272.1	1,293.9	NB	UR			9,815.9	
Emera Energy U.S. Sub. No. 1, Inc.	Greenidge 4 (BTM:NG)		C	23583	Torrey	123	36	1953-12-01	112.5	106.3	106.3	24.0	55.4	ST	NG	WD		151.5	(29)(E)
Exelon Generation Company, LLC	James A. FitzPatrick		C	23598	Scriba	075	36	1975-07-01	882.0	858.9	858.9	831.3	853.4	NB	UR			6,614.1	
NRG Power Marketing LLC	Oswego 5		C	23606	Oswego	075	36	1976-02-01	901.8	850.3	850.3	798.1	824.2	ST	F06			19.3	
NRG Power Marketing LLC	Oswego 6		C	23613	Oswego	075	36	1980-07-01	901.8	835.2	835.2	823.4	828.6	YES	ST	F06	NG	27.5	
Exelon Generation Company, LLC	High Acres		C	23767	Fairport	117	36	1991-06-01	9.6	9.6	9.6	9.6	9.6	IC	MTE			24.4	
Indeck Energy Services of Silver Springs	Indeck-Silver Springs		C	23768	Silver Springs	121	36	1991-04-01	56.6	51.5	66.1	52.6	61.1	YES	CC	NG	F02	16.1	
Indeck-Oswego LP	Indeck-Oswego		C	23783	Oswego	075	36	1990-05-01	57.4	51.6	66.7	52.7	59.9	YES	CC	NG	F02	13.0	
Seneca Energy II, LLC	Seneca Energy 1		C	23797	Seneca Falls	099	36	1996-03-01	8.8	8.8	8.8	8.8	8.8	IC	MTE			104.7	(G)
Seneca Energy II, LLC	Seneca Energy 2		C	23797	Seneca Falls	099	36	1997-08-01	8.8	8.8	8.8	8.8	8.8	IC	MTE				
Seneca Energy II, LLC	Ontario LFGE		C	23819	Canandaigua	069	36	2003-12-01	11.2	11.2	11.2	11.2	11.2	IC	MTE			76.5	
Consolidated Edison Energy, Inc.	Syracuse		C	23985	Syracuse	067	36	1993-09-01	102.7	88.8	109.3	87.1	102.5	YES	CC	NG	F02	2.7	
Erie Blvd. Hydro - Seneca Oswego	Baldwinsville 1		C	24041	Baldwinsville	067	36	1927-01-01	0.3	0.2	0.2	0.3	0.3	HY	WAT			1.1	
Erie Blvd. Hydro - Seneca Oswego	Baldwinsville 2		C	24041	Baldwinsville	067	36	1927-01-01	0.3	0.2	0.2	0.3	0.3	HY	WAT			0.8	
Erie Blvd. Hydro - Seneca Oswego	Fulton 1		C	24041	Fulton	075	36	1924-01-01	0.8	0.8	0.8	0.8	0.8	HY	WAT			2.1	
Erie Blvd. Hydro - Seneca Oswego	Fulton 2		C	24041	Fulton	075	36	1928-01-01	0.5	0.4	0.4	0.5	0.5	HY	WAT			3.0	
Erie Blvd. Hydro - Seneca Oswego	Granby 1		C	24041	Granby	075	36	1983-05-01	5.0	5.1	5.1	5.0	5.0	HY	WAT			19.3	
Erie Blvd. Hydro - Seneca Oswego	Granby 2		C	24041	Granby	075	36	1983-05-01	5.0	5.1	5.1	5.0	5.0	HY	WAT			10.6	
Erie Blvd. Hydro - Seneca Oswego	Minetto 2		C	24041	Minetto	075	36	1915-01-01	1.6	1.5	1.5	1.6	1.6	HY	WAT			5.5	
Erie Blvd. Hydro - Seneca Oswego	Minetto 3		C	24041	Minetto	075	36	1915-01-01	1.6	1.5	1.5	1.6	1.6	HY	WAT			7.2	
Erie Blvd. Hydro - Seneca Oswego	Minetto 4		C	24041	Minetto	075	36	1915-01-01	1.6	1.5	1.5	1.6	1.6	HY	WAT			4.9	
Erie Blvd. Hydro - Seneca Oswego	Minetto 5		C	24041	Minetto	075	36	1975-01-01	1.6	1.5	1.5	1.6	1.6	HY	WAT			4.7	
Erie Blvd. Hydro - Seneca Oswego	Minetto 6		C	24041	Minetto	075	36	1975-01-01	1.6	1.5	1.5	1.6	1.6	HY	WAT			2.8	
Erie Blvd. Hydro - Seneca Oswego	Oswego Falls E 1		C	24041	Oswego	075	36	1914-01-01	1.5	1.5	1.5	1.5	1.5	HY	WAT			7.9	
Erie Blvd. Hydro - Seneca Oswego	Oswego Falls E 2		C	24041	Oswego	075	36	1914-01-01	1.5	1.5	1.5	1.5	1.5	HY	WAT			6.4	
Erie Blvd. Hydro - Seneca Oswego	Oswego Falls E 3		C	24041	Oswego	075	36	1914-01-01	1.5	1.5	1.5	1.5	1.5	HY	WAT			8.1	
Erie Blvd. Hydro - Seneca Oswego	Oswego Falls W 4		C	24041	Oswego	075	36	1914-01-01	0.9	1.0	1.0	0.9	0.9	HY	WAT			0.9	
Erie Blvd. Hydro - Seneca Oswego	Oswego Falls W 5		C	24041	Oswego	075	36	1914-01-01	0.9	1.0	1.0	0.9	0.9	HY	WAT			1.4	
Erie Blvd. Hydro - Seneca Oswego	Oswego Falls W 6		C	24041	Oswego	075	36	2007-01-01	0.5	0.5	0.5	0.5	0.5	HY	WAT			1.2	
Erie Blvd. Hydro - Seneca Oswego	Oswego Falls W 7		C	24041	Oswego	075	36	2007-01-01	0.5	0.5	0.5	0.5	0.5	HY	WAT			0.2	

Table III-2a: NYISO Market Generators (cont'd)

Owner, Operator, and / or Billing Organization	Station	Unit	Zone	PTID	Location			In-Service Date	Name Plate Rating ^(D)	2023 CRIS ^(A)		2023 Capability ^(B)		D U A L	Unit Type	Fuel ^(J)		2022 Net Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
					YYYY-MM-DD	MW	SUM	WIN	SUM	WIN									
Erie Blvd. Hydro - Seneca Oswego	Varick 2		C	24041	Oswego	075	36	1926-01-01	2.2	1.9	1.9	2.2	2.2	HY	WAT			5.2	
Erie Blvd. Hydro - Seneca Oswego	Varick 3		C	24041	Oswego	075	36	1926-01-01	2.2	2.1	2.1	2.2	2.2	HY	WAT			5.1	
Erie Blvd. Hydro - Seneca Oswego	Varick 4		C	24041	Oswego	075	36	1926-01-01	2.2	1.9	1.9	2.2	2.2	HY	WAT			2.5	
Erie Blvd. Hydro - Seneca Oswego	Varick 5		C	24041	Oswego	075	36	1926-01-01	2.2	1.9	1.9	2.2	2.2	HY	WAT			2.9	
Erie Blvd. Hydro - South Salmon	Bennetts Bridge 1		C	24043	Altmar	075	36	1964-01-01	6.4	7.0	7.0	6.4	6.4	HY	WAT			12.0	
Erie Blvd. Hydro - South Salmon	Bennetts Bridge 2		C	24043	Altmar	075	36	1966-01-01	6.4	7.0	7.0	6.4	6.4	HY	WAT			16.5	
Erie Blvd. Hydro - South Salmon	Bennetts Bridge 3		C	24043	Altmar	075	36	1970-01-01	7.0	7.7	7.7	7.0	7.0	HY	WAT			29.1	
Erie Blvd. Hydro - South Salmon	Bennetts Bridge 4		C	24043	Altmar	075	36	1970-01-01	7.0	7.7	7.7	7.0	7.0	HY	WAT			28.4	
Erie Blvd. Hydro - South Salmon	Lighthouse Hill 1		C	24043	Altmar	075	36	1930-01-01	3.8	4.1	4.1	3.8	3.8	HY	WAT			10.6	
Erie Blvd. Hydro - South Salmon	Lighthouse Hill 2		C	24043	Altmar	075	36	1930-01-01	3.8	4.1	4.1	3.8	3.8	HY	WAT			10.7	
Carr Street Generating Station LP	Carr St.-E. Syr		C	24060	Dewitt	067	36	1993-08-01	122.6	89.0	116.8	86.5	104.6	YES	CC	NG	FO2	63.3	
Dynegy Marketing and Trade, LLC	Independence GS1		C	24169	Scriba	075	36	1994-11-01	313.5	253.2	303.0	239.7	299.3	CC	NG			3,693.1	(G)
Dynegy Marketing and Trade, LLC	Independence GS2		C	24170	Scriba	075	36	1994-11-01	313.5	253.2	302.9	239.7	299.3	CC	NG				
Dynegy Marketing and Trade, LLC	Independence GS3		C	24171	Scriba	075	36	1994-11-01	313.5	253.3	303.0	239.7	299.3	CC	NG				
Dynegy Marketing and Trade, LLC	Independence GS4		C	24172	Scriba	075	36	1994-11-01	313.5	253.2	302.8	239.7	299.3	CC	NG				
Canastota Windpower LLC	Fenner Wind Power		C	24204	Fenner	053	36	2001-12-01	30.0	30.0	30.0	0.0	0.0	WT	WND			86.8	
Consolidated Edison Energy, Inc.	Broome LFGE		C	323600	Binghamton	007	36	2007-09-01	2.4	2.1	2.1	2.4	2.4	IC	MTE			7.6	
Canandaigua Power Partners, LLC	Canandaigua Wind Power		C	323617	Avoca	101	36	2008-12-05	125.0	125.0	125.0	125.0	125.0	WT	WND			308.3	
Sheldon Energy LLC	High Sheldon Wind Farm		C	323625	Sheldon	121	36	2009-02-01	118.1	112.5	112.5	118.1	118.1	WT	WND			238.4	
Noble Wethersfield Windpark, LLC	Wethersfield Wind Power		C	323626	Wethersfield	121	36	2008-12-11	126.0	126.0	126.0	126.0	126.0	WT	WND			247.5	
Consolidated Edison Energy, Inc.	Broome 2 LFGE		C	323671	Binghamton	007	36	2013-01-31	2.1	2.0	2.0	2.1	2.1	IC	MTE			12.8	
Howard Wind LLC	Howard Wind		C	323690	Howard	101	36	2011-12-01	55.4	57.4	57.4	55.4	55.4	WT	WND			121.9	
Stony Creek Energy LLC	Orangeville Wind Farm		C	323706	Orangeville	121	36	2013-12-01	93.9	94.4	94.4	93.9	93.9	WT	WND			223.8	
Marsh Hill Energy LLC	Marsh Hill Wind Farm		C	323713	Jasper	101	36	2014-12-01	16.2	0.0	0.0	0.0	0.0	WT	WND			50.4	
Galt Power Inc.	Puckett Solar		C	323809	Greene	017	36	2022-09-27	20.0	20.0	20.0	20.0	20.0	PV	SUN			5.3	(2)(N)
Galt Power Inc.	Janis Solar		C	323808	Willet	023	36	2023-02-23	20.0	20.0	20.0	20.0	20.0	PV	SUN			0.0	(4)(N)
NextEra Energy Marketing, LLC	Eight Point Wind		C	323820	Greenwood	101	36	2023-02-08	111.2	101.2	101.2	111.2	111.2	WT	WND			0.0	(7)(N)
Baron Winds, LLC	Baron Winds		C	323822	Cohocton	101	36	2023-02-07	238.4	300.0	300.0	121.8	121.8	WT	WND			0.0	(6)(N)
New York Power Authority	St Lawrence - FDR (Fleet)		D	23600	Massena	089	36	1958-07-01	1,088.0	856.0	856.0	856.0	790.0	HY	WAT			7,312.7	
New York State Elec. & Gas Corp.	Cadyville 1		D	23628	Schuyler Falls	019	36	1921-08-01	1.2	1.0	1.0	1.2	1.2	HY	WAT			124.8	(G)
New York State Elec. & Gas Corp.	Cadyville 2		D	23628	Schuyler Falls	019	36	1921-08-01	1.2	1.0	1.0	1.2	1.2	HY	WAT				
New York State Elec. & Gas Corp.	Cadyville 3		D	23628	Schuyler Falls	019	36	1986-09-01	3.1	2.7	2.7	3.1	3.1	HY	WAT				
New York State Elec. & Gas Corp.	High Falls 1		D	23628	Saranac	019	36	1948-08-01	4.0	4.3	4.3	4.0	4.0	HY	WAT				
New York State Elec. & Gas Corp.	High Falls 2		D	23628	Saranac	019	36	1949-08-01	4.0	4.3	4.3	4.0	4.0	HY	WAT				
New York State Elec. & Gas Corp.	High Falls 3		D	23628	Saranac	019	36	1956-08-01	7.0	8.2	8.2	7.0	7.0	HY	WAT				
New York State Elec. & Gas Corp.	Kent Falls 1		D	23628	Schuyler Falls	019	36	1928-08-01	3.6	3.0	3.0	3.6	3.6	HY	WAT				
New York State Elec. & Gas Corp.	Kent Falls 2		D	23628	Schuyler Falls	019	36	1928-08-01	3.6	3.0	3.0	3.6	3.6	HY	WAT				
New York State Elec. & Gas Corp.	Kent Falls 3		D	23628	Schuyler Falls	019	36	1985-07-01	6.4	6.0	6.0	6.4	6.4	HY	WAT				

Table III-2a: NYISO Market Generators (cont'd)

Owner, Operator, and / or Billing Organization	Station	Unit	Zone	PTID	Location			In-Service Date	Name Plate Rating ^(D)	2023 CRIS ^(A)		2023 Capability ^(B)		D U A L	Unit Type	Fuel ^(J)		2022 Net Energy GWh	Notes
					Town	Cnty	St			MW		MW				Type 1	Type 2		
					YYYY-MM-DD	SUM	WIN	SUM	WIN										
New York State Elec. & Gas Corp.	Mill C 1		D	23628	Plattsburgh	019	36	1944-08-01	1.0	0.9	0.9	1.0	1.0	HY	WAT				
New York State Elec. & Gas Corp.	Mill C 2		D	23628	Plattsburgh	019	36	1943-08-01	1.2	1.2	1.2	1.2	1.2	HY	WAT				
New York State Elec. & Gas Corp.	Mill C 3		D	23628	Plattsburgh	019	36	1984-11-01	3.8	3.7	3.7	3.8	3.8	HY	WAT				
New York State Elec. & Gas Corp.	Rainbow Falls 1		D	23628	Ausable	019	36	1926-08-01	1.3	1.5	1.5	1.3	1.3	HY	WAT				
New York State Elec. & Gas Corp.	Rainbow Falls 2		D	23628	Ausable	019	36	1927-08-01	1.3	1.5	1.5	1.3	1.3	HY	WAT				
Seneca Power Partners, L.P.	Massena		D	23902	Massena	089	36	1992-07-01	102.1	82.2	107.9	79.9	92.3	YES	CC	NG	FO2	0.5	
Erie Blvd. Hydro - North Salmon	Allens Falls		D	24042	Allens Falls	089	36	1927-01-01	4.4	5.0	5.0	4.4	4.4	HY	WAT			24.4	
Erie Blvd. Hydro - North Salmon	Chasm 1		D	24042	Chateaugay	033	36	1913-01-01	1.0	1.1	1.1	1.0	1.0	HY	WAT			7.9	
Erie Blvd. Hydro - North Salmon	Chasm 2		D	24042	Chateaugay	033	36	1913-01-01	1.0	1.1	1.1	1.0	1.0	HY	WAT			5.2	
Erie Blvd. Hydro - North Salmon	Chasm 3		D	24042	Chateaugay	033	36	1926-01-01	1.4	1.6	1.6	1.4	1.4	HY	WAT			8.4	
Erie Blvd. Hydro - North Salmon	Franklin 1		D	24042	Franklin	033	36	1911-01-01	1.1	1.1	1.1	1.1	1.1	HY	WAT			5.3	
Erie Blvd. Hydro - North Salmon	Franklin 2		D	24042	Franklin	033	36	1926-01-01	1.1	1.1	1.1	1.1	1.1	HY	WAT			5.2	
Erie Blvd. Hydro - North Salmon	Macomb		D	24042	Malone	033	36	1940-01-01	1.0	1.1	1.1	1.0	1.0	HY	WAT			5.8	
Erie Blvd. Hydro - North Salmon	Parishville		D	24042	Parishville	089	36	1925-01-01	2.4	2.4	2.4	2.4	2.4	HY	WAT			14.5	
Erie Blvd. Hydro - North Salmon	Piercefield 1		D	24042	Piercefield	089	36	1957-01-01	1.5	1.6	1.6	1.5	1.5	HY	WAT			9.4	
Erie Blvd. Hydro - North Salmon	Piercefield 2		D	24042	Piercefield	089	36	1924-01-01	0.6	0.6	0.6	0.6	0.6	HY	WAT			2.1	
Erie Blvd. Hydro - North Salmon	Piercefield 3		D	24042	Piercefield	089	36	1924-01-01	0.6	0.6	0.6	0.6	0.6	HY	WAT			4.2	
Triton Power Company	Chateaugay High Falls		D	323578	Chateaugay	033	36	1987-12-01	1.7	0.0	0.0	0.0	0.0	HY	WAT			2.0	
Noble Ellenburg Windpark, LLC	Ellenburg Wind Power		D	323604	Ellenburg	019	36	2008-03-31	81.0	81.0	81.0	81.0	81.0	WT	WND			150.5	
Noble Clinton Windpark 1, LLC	Clinton Wind Power		D	323605	Clinton	019	36	2008-04-09	100.5	100.5	100.5	100.5	100.5	WT	WND			156.1	
Noble Altona Windpark, LLC	Altona Wind Power		D	323606	Altona	019	36	2008-09-23	97.5	97.5	97.5	97.5	97.5	WT	WND			165.0	
Noble Chateaugay Windpark, LLC	Chateaugay Wind Power		D	323614	Chateaugay	033	36	2008-10-07	106.5	106.5	106.5	106.5	106.5	WT	WND			184.0	
Innovative Energy Systems, Inc.	Clinton LFGE		D	323618	Morrisonville	019	36	2008-10-01	6.4	6.4	6.4	6.4	6.4	IC	MTE			43.1	
Marble River LLC	Marble River Wind		D	323696	Ellenburg	019	36	2012-07-01	215.2	215.2	215.2	215.2	215.2	WT	WND			444.0	
Jericho Rise Wind Farm LLC	Jericho Rise Wind Farm		D	323719	Chateaugay	033	36	2016-12-01	77.7	77.7	77.7	77.7	77.7	WT	WND			215.8	
New York Power Authority	North Country ESR		D	323785	Chateaugay	033	36	2023-02-01	20.0	0.0	0.0	0.0	0.0	ES	BAT			0.0	(5)(N)
TransAlta Energy Marketing (U.S.) Inc.	Saranac Energy CC1		D	323796	Plattsburgh	019	36	1994-06-01	142.8	126.9	149.2	110.6	123.2	CC	NG			92.6	(G)
TransAlta Energy Marketing (U.S.) Inc.	Saranac Energy CC2		D	323797	Plattsburgh	019	36	1994-06-01	142.8	126.8	149.2	124.9	134.2	CC	NG				
Northbrook Lyons Falls, LLC	Lyons Falls Hydro (BTM:NG)		E	23570	Lyons Falls	049	36	1986-01-01	8.6	0.0	0.0	0.0	0.0	HY	WAT			13.4	(30)(E)
New York Power Authority	Jarvis 1		E	23743	Hinckley	065	36	1991-07-01	4.5	4.5	4.5	4.5	4.5	HY	WAT			17.4	
New York Power Authority	Jarvis 2		E	23743	Hinckley	065	36	1991-07-01	4.5	4.5	4.5	4.5	4.5	HY	WAT			13.8	
Seneca Power Partners, L.P.	Sterling		E	23777	Sherrill	065	36	1991-06-01	65.3	57.4	72.1	48.3	62.0	CC	NG			3.8	
Black River Hydroelectric, LLC	Glen Park Hydro		E	23778	Glen Park	045	36	1986-01-01	32.6	40.4	40.4	32.6	32.6	HY	WAT			134.0	
Seneca Power Partners, L.P.	Carthage Energy		E	23857	Carthage	045	36	1991-08-01	62.9	59.0	70.6	55.6	64.8	YES	CC	NG	FO2	2.8	
Consolidated Edison Energy, Inc.	Beaver Falls		E	23983	Beaver Falls	049	36	1995-03-01	107.8	80.2	94.9	80.3	91.5	YES	CC	NG	FO2	5.4	
Erie Blvd. Hydro - Oswegatchie	Browns Falls 1		E	24044	Oswegatchie	089	36	1923-01-01	7.5	8.0	8.0	7.5	7.5	HY	WAT			32.7	
Erie Blvd. Hydro - Oswegatchie	Browns Falls 2		E	24044	Oswegatchie	089	36	1923-01-01	7.5	8.0	8.0	7.5	7.5	HY	WAT			25.0	
Erie Blvd. Hydro - Oswegatchie	Eel Weir 1		E	24044	Heuvelton	089	36	1928-01-01	0.5	0.3	0.3	0.5	0.5	HY	WAT			2.1	

Table III-2a: NYISO Market Generators (cont'd)

Owner, Operator, and / or Billing Organization	Station	Unit	Zone	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(D) MW	2023 CRIS ^(A) MW		2023 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(J)		2022 Net Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
					Erie Blvd. Hydro - Oswegatchie	Eel Weir 2		E	24044	Heuvelton	089	36	1938-01-01	1.1	0.8	0.8	1.1	1.1	HY
Erie Blvd. Hydro - Oswegatchie	Eel Weir 3		E	24044	Heuvelton	089	36	1938-01-01	1.1	0.8	0.8	1.1	1.1	HY	WAT			3.3	
Erie Blvd. Hydro - Oswegatchie	Flat Rock 1		E	24044	Flat Rock	089	36	1924-01-01	3.0	2.6	2.6	3.0	3.0	HY	WAT			11.1	
Erie Blvd. Hydro - Oswegatchie	Flat Rock 2		E	24044	Flat Rock	089	36	1924-01-01	3.0	2.6	2.6	3.0	3.0	HY	WAT			8.2	
Erie Blvd. Hydro - Oswegatchie	Heuvelton 1		E	24044	Heuvelton	089	36	1924-01-01	0.5	0.4	0.4	0.5	0.5	HY	WAT			2.6	
Erie Blvd. Hydro - Oswegatchie	Heuvelton 2		E	24044	Heuvelton	089	36	1924-01-01	0.5	0.4	0.4	0.5	0.5	HY	WAT			2.1	
Erie Blvd. Hydro - Oswegatchie	Lower Newton Falls 1		E	24044	Newton Falls	089	36	2002-07-01	0.5	0.6	0.6	0.5	0.5	HY	WAT			2.6	
Erie Blvd. Hydro - Oswegatchie	Oswegatchie 1		E	24044	Oswegatchie	089	36	1937-01-01	0.6	1.3	1.3	0.6	0.6	HY	WAT			4.7	
Erie Blvd. Hydro - Oswegatchie	Oswegatchie 2		E	24044	Oswegatchie	089	36	1937-01-01	0.2	0.5	0.5	0.2	0.2	HY	WAT			2.9	
Erie Blvd. Hydro - Oswegatchie	South Edwards 1		E	24044	South Edwards	089	36	1937-01-01	1.0	1.2	1.2	1.0	1.0	HY	WAT			8.0	
Erie Blvd. Hydro - Oswegatchie	South Edwards 2		E	24044	South Edwards	089	36	1937-01-01	1.0	1.2	1.2	1.0	1.0	HY	WAT			4.4	
Erie Blvd. Hydro - Oswegatchie	South Edwards 3		E	24044	South Edwards	089	36	1921-01-01	0.7	0.8	0.8	0.7	0.7	HY	WAT			3.3	
Erie Blvd. Hydro - Oswegatchie	South Edwards 4		E	24044	South Edwards	089	36	1937-01-01	0.2	0.2	0.2	0.2	0.2	HY	WAT			1.5	
Erie Blvd. Hydro - Oswegatchie	Talcville 1		E	24044	Edwards	089	36	1986-12-01	0.5	0.4	0.4	0.5	0.5	HY	WAT			2.4	
Erie Blvd. Hydro - Oswegatchie	Talcville 2		E	24044	Edwards	089	36	1986-12-01	0.5	0.4	0.4	0.5	0.5	HY	WAT			0.6	
Erie Blvd. Hydro - Oswegatchie	Upper Newton Falls 2		E	24044	Newton Falls	089	36	2002-07-01	0.5	0.4	0.4	0.5	0.5	HY	WAT			2.7	
Erie Blvd. Hydro - Oswegatchie	Upper Newton Falls 3		E	24044	Newton Falls	089	36	2002-07-01	0.5	0.4	0.4	0.5	0.5	HY	WAT			2.2	
Erie Blvd. Hydro - Oswegatchie	Upper Newton Falls 4		E	24044	Newton Falls	089	36	2002-07-01	0.5	0.4	0.4	0.5	0.5	HY	WAT			1.4	
Erie Blvd. Hydro - Black River	Beebee Island 1		E	24047	Watertown	045	36	1963-01-01	4.0	4.4	4.4	4.0	4.0	HY	WAT			17.6	
Erie Blvd. Hydro - Black River	Beebee Island 2		E	24047	Watertown	045	36	1968-01-01	4.0	4.4	4.4	4.0	4.0	HY	WAT			29.5	
Erie Blvd. Hydro - Black River	Black River 1		E	24047	Black River	045	36	1920-01-01	2.0	2.3	2.3	2.0	2.0	HY	WAT			12.5	
Erie Blvd. Hydro - Black River	Black River 2		E	24047	Black River	045	36	1920-01-01	2.0	2.3	2.3	2.0	2.0	HY	WAT			16.0	
Erie Blvd. Hydro - Black River	Black River 3		E	24047	Black River	045	36	1920-01-01	2.0	2.3	2.3	2.0	2.0	HY	WAT			5.9	
Erie Blvd. Hydro - Black River	Deferiet 1		E	24047	Deferiet	045	36	1925-01-01	3.6	3.7	3.7	3.6	3.6	HY	WAT			13.8	
Erie Blvd. Hydro - Black River	Deferiet 2		E	24047	Deferiet	045	36	1925-01-01	3.6	3.7	3.7	3.6	3.6	HY	WAT			26.3	
Erie Blvd. Hydro - Black River	Deferiet 3		E	24047	Deferiet	045	36	1925-01-01	3.6	3.7	3.7	3.6	3.6	HY	WAT			14.8	
Erie Blvd. Hydro - Black River	Herrings 1		E	24047	Herrings	045	36	1924-01-01	1.8	1.8	1.8	1.8	1.8	HY	WAT			3.7	
Erie Blvd. Hydro - Black River	Herrings 2		E	24047	Herrings	045	36	1924-01-01	1.8	1.8	1.8	1.8	1.8	HY	WAT			11.6	
Erie Blvd. Hydro - Black River	Herrings 3		E	24047	Herrings	045	36	1924-01-01	1.8	1.8	1.8	1.8	1.8	HY	WAT			8.2	
Erie Blvd. Hydro - Black River	Kamargo 1		E	24047	Black River	045	36	1921-01-01	1.8	1.8	1.8	1.8	1.8	HY	WAT			9.1	
Erie Blvd. Hydro - Black River	Kamargo 2		E	24047	Black River	045	36	1921-01-01	1.8	1.8	1.8	1.8	1.8	HY	WAT			11.9	
Erie Blvd. Hydro - Black River	Kamargo 3		E	24047	Black River	045	36	1921-01-01	1.8	1.8	1.8	1.8	1.8	HY	WAT			5.2	
Erie Blvd. Hydro - Black River	Sewalls 1		E	24047	Watertown	045	36	1925-01-01	1.0	1.1	1.1	1.0	1.0	HY	WAT			7.6	
Erie Blvd. Hydro - Black River	Sewalls 2		E	24047	Watertown	045	36	1925-01-01	1.0	1.1	1.1	1.0	1.0	HY	WAT			7.0	
Erie Blvd. Hydro - Beaver River	Belfort 1		E	24048	Belfort	049	36	1903-01-01	0.4	0.4	0.4	0.4	0.4	HY	WAT			2.6	
Erie Blvd. Hydro - Beaver River	Belfort 2		E	24048	Belfort	049	36	1915-01-01	0.6	0.6	0.6	0.6	0.6	HY	WAT			1.6	
Erie Blvd. Hydro - Beaver River	Belfort 3		E	24048	Belfort	049	36	1918-01-01	1.0	1.0	1.0	1.0	1.0	HY	WAT			7.7	
Erie Blvd. Hydro - Beaver River	Eagle 1		E	24048	Watson	049	36	1914-01-01	1.3	1.2	1.2	1.3	1.3	HY	WAT			6.7	

Table III-2a: NYISO Market Generators (cont'd)

Owner, Operator, and / or Billing Organization	Station	Unit	Zone	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(D) MW	2023 CRIS ^(A) MW		2023 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(J)		2022 Net Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
					Erie Blvd. Hydro - Beaver River	Eagle 2		E	24048	Watson	049	36	1915-01-01			1.4	1.3	1.3	
Erie Blvd. Hydro - Beaver River	Eagle 3		E	24048	Watson	049	36	1919-01-01	1.4	1.3	1.3	1.4	1.4	HY	WAT			7.2	
Erie Blvd. Hydro - Beaver River	Eagle 4		E	24048	Watson	049	36	1925-01-01	2.1	2.0	2.0	2.1	2.1	HY	WAT			13.4	
Erie Blvd. Hydro - Beaver River	Effley 1		E	24048	Belfort	049	36	1902-01-01	0.4	0.3	0.3	0.4	0.4	HY	WAT			2.2	
Erie Blvd. Hydro - Beaver River	Effley 2		E	24048	Belfort	049	36	1907-01-01	0.4	0.3	0.3	0.4	0.4	HY	WAT			0.6	
Erie Blvd. Hydro - Beaver River	Effley 3		E	24048	Belfort	049	36	1910-01-01	0.6	0.5	0.5	0.6	0.6	HY	WAT			3.5	
Erie Blvd. Hydro - Beaver River	Effley 4		E	24048	Belfort	049	36	1923-01-01	1.6	1.5	1.5	1.6	1.6	HY	WAT			9.1	
Erie Blvd. Hydro - Beaver River	Elmer 1		E	24048	Belfort	049	36	1916-01-01	0.8	0.9	0.9	0.8	0.8	HY	WAT			3.9	
Erie Blvd. Hydro - Beaver River	Elmer 2		E	24048	Belfort	049	36	1916-01-01	0.8	0.9	0.9	0.8	0.8	HY	WAT			6.2	
Erie Blvd. Hydro - Beaver River	High Falls 1		E	24048	Indian River	049	36	1925-01-01	1.6	1.9	1.9	1.6	1.6	HY	WAT			7.8	
Erie Blvd. Hydro - Beaver River	High Falls 2		E	24048	Indian River	049	36	1925-01-01	1.6	1.9	1.9	1.6	1.6	HY	WAT			10.4	
Erie Blvd. Hydro - Beaver River	High Falls 3		E	24048	Indian River	049	36	1925-01-01	1.6	1.9	1.9	1.6	1.6	HY	WAT			12.3	
Erie Blvd. Hydro - Beaver River	Moshier 1		E	24048	Belfort	043	36	1929-01-01	4.0	4.0	4.0	4.0	4.0	HY	WAT			20.9	
Erie Blvd. Hydro - Beaver River	Moshier 2		E	24048	Belfort	043	36	1929-01-01	4.0	4.0	4.0	4.0	4.0	HY	WAT			19.9	
Erie Blvd. Hydro - Beaver River	Soft Maple 1		E	24048	Croghan	049	36	1925-01-01	7.5	8.0	8.0	7.5	7.5	HY	WAT			22.7	
Erie Blvd. Hydro - Beaver River	Soft Maple 2		E	24048	Croghan	049	36	1925-01-01	7.5	8.0	8.0	7.5	7.5	HY	WAT			14.9	
Erie Blvd. Hydro - Beaver River	Taylorville 1		E	24048	Belfort	049	36	1913-01-01	1.1	1.0	1.0	1.1	1.1	HY	WAT			7.7	
Erie Blvd. Hydro - Beaver River	Taylorville 2		E	24048	Belfort	049	36	1913-01-01	1.1	1.0	1.0	1.1	1.1	HY	WAT			6.5	
Erie Blvd. Hydro - Beaver River	Taylorville 3		E	24048	Belfort	049	36	1913-01-01	1.1	1.0	1.0	1.1	1.1	HY	WAT			5.0	
Erie Blvd. Hydro - Beaver River	Taylorville 4		E	24048	Belfort	049	36	1927-01-01	1.2	1.1	1.1	1.2	1.2	HY	WAT			3.4	
Erie Blvd. Hydro - West Canada	Prospect		E	24049	Prospect	043	36	1959-01-01	17.3	21.7	21.7	17.3	17.3	HY	WAT			73.2	
Erie Blvd. Hydro - West Canada	Trenton Falls 5		E	24049	Trenton	065	36	1919-01-01	6.8	9.6	9.6	6.8	6.8	HY	WAT			52.7	
Erie Blvd. Hydro - West Canada	Trenton Falls 6		E	24049	Trenton	065	36	1919-01-01	6.4	9.1	9.1	6.4	6.4	HY	WAT			48.4	
Erie Blvd. Hydro - West Canada	Trenton Falls 7		E	24049	Trenton	065	36	1922-01-01	6.4	9.1	9.1	6.4	6.4	HY	WAT			37.1	
Erie Blvd. Hydro - East Canada Mohawk	Inghams 1		E	24050	Little Falls	043	36	1912-01-01	3.2	3.5	3.5	3.2	3.2	HY	WAT			13.1	
Erie Blvd. Hydro - East Canada Mohawk	Inghams 2		E	24050	Little Falls	043	36	1912-01-01	3.2	3.5	3.5	3.2	3.2	HY	WAT			15.9	
Erie Blvd. Hydro - Upper Raquette	Blake		E	24056	Stark	089	36	1957-01-01	14.4	15.6	15.6	14.4	14.4	HY	WAT			59.0	
Erie Blvd. Hydro - Upper Raquette	Five Falls		E	24056	Colton	089	36	1955-01-01	22.5	24.4	24.4	22.5	22.5	HY	WAT			94.1	
Erie Blvd. Hydro - Upper Raquette	Rainbow Falls		E	24056	Colton	089	36	1956-01-01	22.5	24.4	24.4	22.5	22.5	HY	WAT			100.4	
Erie Blvd. Hydro - Upper Raquette	South Colton		E	24056	South Colton	089	36	1954-01-01	19.4	20.9	20.9	19.4	19.4	HY	WAT			81.5	
Erie Blvd. Hydro - Upper Raquette	Stark		E	24056	Stark	089	36	1957-01-01	22.5	24.6	24.6	22.5	22.5	HY	WAT			95.3	
Erie Blvd. Hydro - Lower Raquette	Colton 1		E	24057	Colton	089	36	1962-01-01	10.0	10.0	10.0	10.0	10.0	HY	WAT			51.8	
Erie Blvd. Hydro - Lower Raquette	Colton 2		E	24057	Colton	089	36	1918-01-01	10.0	10.0	10.0	10.0	10.0	HY	WAT			50.9	
Erie Blvd. Hydro - Lower Raquette	Colton 3		E	24057	Colton	089	36	1928-01-01	10.0	10.0	10.0	10.0	10.0	HY	WAT			31.9	
Erie Blvd. Hydro - Lower Raquette	East Norfolk		E	24057	East Norfolk	089	36	1928-01-01	3.6	4.0	4.0	3.6	3.6	HY	WAT			8.4	
Erie Blvd. Hydro - Lower Raquette	Hannawa Falls 1		E	24057	Hannawa Falls	089	36	1914-01-01	3.6	3.7	3.7	3.6	3.6	HY	WAT			26.0	
Erie Blvd. Hydro - Lower Raquette	Hannawa Falls 2		E	24057	Hannawa Falls	089	36	1920-01-01	3.6	3.7	3.7	3.6	3.6	HY	WAT			25.1	
Erie Blvd. Hydro - Lower Raquette	Higley 1		E	24057	Colton	089	36	1913-01-01	1.2	1.1	1.1	1.2	1.2	HY	WAT			8.4	

Table III-2a: NYISO Market Generators (cont'd)

Owner, Operator, and / or Billing Organization	Station	Unit	Zone	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(D) MW	2023 CRIS ^(A) MW		2023 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(J)		2022 Net Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
					Erie Blvd. Hydro - Lower Raquette	Higley 2		E	24057	Colton	089	36	1913-01-01	1.2	1.1	1.1	1.2	1.2	HY
Erie Blvd. Hydro - Lower Raquette	Higley 3		E	24057	Colton	089	36	1943-01-01	2.1	2.0	2.0	2.1	2.1	HY	WAT			9.9	
Erie Blvd. Hydro - Lower Raquette	Higley 4		E	24057	Colton	089	36	1943-01-01	2.1	2.0	2.0	2.1	2.1	HY	WAT			9.8	
Erie Blvd. Hydro - Lower Raquette	Norfolk		E	24057	Norfolk	089	36	1928-01-01	4.5	4.8	4.8	4.5	4.5	HY	WAT			29.6	
Erie Blvd. Hydro - Lower Raquette	Norwood		E	24057	Norwood	089	36	1928-01-01	2.0	2.2	2.2	2.0	2.0	HY	WAT			13.6	
Erie Blvd. Hydro - Lower Raquette	Raymondville		E	24057	Raymondville	089	36	1928-01-01	2.0	2.1	2.1	2.0	2.0	HY	WAT			14.5	
Erie Blvd. Hydro - Lower Raquette	Sugar Island 1		E	24057	Potsdam	089	36	1924-01-01	2.5	2.1	2.1	2.5	2.5	HY	WAT			13.8	
Erie Blvd. Hydro - Lower Raquette	Sugar Island 2		E	24057	Potsdam	089	36	1924-01-01	2.5	2.0	2.0	2.5	2.5	HY	WAT			15.7	
Erie Blvd. Hydro - Lower Raquette	Yaleville 1		E	24057	Norwood	089	36	1940-01-01	0.5	0.2	0.2	0.5	0.5	HY	WAT			2.5	
Erie Blvd. Hydro - Lower Raquette	Yaleville 2		E	24057	Norwood	089	36	1940-01-01	0.2	0.3	0.3	0.2	0.2	HY	WAT			1.2	
Madison Windpower, LLC	Madison Wind Power		E	24146	Madison	053	36	2000-09-01	11.6	11.5	11.5	11.6	11.6	WT	WND			13.8	
Flat Rock Windpower, LLC	Maple Ridge Wind 1		E	323574	Lowville	049	36	2006-01-01	231.0	231.0	231.0	231.0	231.0	WT	WND			496.5	
Flat Rock Windpower II, LLC	Maple Ridge Wind 2		E	323611	Lowville	049	36	2007-12-01	90.8	90.7	90.7	90.8	90.8	WT	WND			180.8	
Northbrook Lyons Falls, LLC	Hampshire Paper		E	323593	Gouverneur	089	36	1987-03-01	3.4	3.5	3.5	3.4	3.4	HY	WAT			14.2	
Munnsville Wind Farm, LLC	Munnsville Wind Power		E	323609	Bouckville	053	36	2007-08-20	34.5	34.5	34.5	34.5	34.5	WT	WND			92.5	
Innovative Energy Systems, Inc.	DANC LFGE		E	323619	Watertown	045	36	2008-09-08	6.4	6.4	6.4	6.4	6.4	IC	MTE			26.1	
Exelon Generation Company, LLC	Madison County LF		E	323628	Wampsville	053	36	2010-03-01	1.6	1.6	1.6	0.0	0.0	IC	MTE			0.0	(9)(I)
Hardscrabble Wind Power LLC	Hardscrabble Wind		E	323673	Fairfield	043	36	2011-02-01	74.0	74.0	74.0	74.0	74.0	WT	WND			173.7	
Exelon Generation Company, LLC	Oneida-Herkimer LFGE		E	323681	Boonville	065	36	2012-04-01	3.2	3.2	3.2	3.2	3.2	IC	MTE			26.5	
EDF Renewable Energy	Copenhagen Wind Farm		E	323753	Copenhagen	049	36	2018-12-01	79.9	0.0	0.0	0.0	0.0	WT	WND			260.1	
Avangrid Renewables LLC	Roaring Brook Wind		E	323790	Martinsburg	049	36	2021-08-30	79.7	79.7	79.7	0.0	0.0	WT	WND			180.4	
Boralex Hydro Operations Inc	NYS Dam		F	23527	Waterford	091	36	1990-12-01	11.4	11.3	11.3	11.4	11.4	HY	WAT			45.7	
New York State Elec. & Gas Corp.	Mechanicville 1		F	23645	Stillwater	091	36	1983-09-01	9.2	10.0	10.0	9.2	9.2	HY	WAT			41.5	(G)
New York State Elec. & Gas Corp.	Mechanicville 2		F	23645	Stillwater	091	36	1983-09-01	9.3	10.0	10.0	9.3	9.3	HY	WAT				
New Athens Generating Company LLC	Athens 1		F	23668	Athens	039	36	2004-05-01	441.0	316.6	399.9	329.6	406.3	YES	CC	NG	F02	1,595.3	
New Athens Generating Company LLC	Athens 2		F	23670	Athens	039	36	2004-05-01	441.0	315.6	398.6	329.6	396.9	YES	CC	NG	F02	1,423.7	
New Athens Generating Company LLC	Athens 3		F	23677	Athens	039	36	2004-05-01	441.0	312.8	395.1	331.3	408.2	YES	CC	NG	F02	1,318.2	
Boralex Hydro Operations Inc	Warrensburg		F	23737	Warrensburg	113	36	1988-12-01	2.9	3.0	3.0	2.9	2.9	HY	WAT			9.1	
New York Power Authority	Gilboa 1		F	23756	Gilboa NY	095	36	1973-07-01	290.0	290.7	290.7	292.4	291.7	PS	WAT			-180.7	
New York Power Authority	Gilboa 2		F	23757	Gilboa NY	095	36	1973-07-01	290.0	291.2	291.2	291.3	292.2	PS	WAT			103.0	
New York Power Authority	Gilboa 3		F	23758	Gilboa NY	095	36	1973-07-01	290.0	291.7	291.7	292.1	291.7	PS	WAT			63.4	
New York Power Authority	Gilboa 4		F	23759	Gilboa NY	095	36	1973-07-01	290.0	291.5	291.5	291.6	292.0	PS	WAT			-196.5	
Consolidated Edison Energy, Inc.	Rensselaer		F	23796	Rensselaer	083	36	1993-12-01	96.9	79.0	79.0	77.0	81.7	YES	CC	NG	F02	71.6	
Wheelabrator Hudson Falls, LLC	Wheelabrator Hudson Falls		F	23798	Hudson Falls	115	36	1991-10-01	14.4	12.7	12.7	10.4	10.5	ST	REF			66.1	
Consolidated Edison Energy, Inc.	Selkirk-I		F	23801	Selkirk	001	36	1992-03-01	107.2	82.1	107.2	74.7	101.8	YES	CC	NG	F02	43.9	
Consolidated Edison Energy, Inc.	Selkirk-II		F	23799	Selkirk	001	36	1994-09-01	338.8	291.3	380.5	275.9	331.4	YES	CC	NG	F02	303.8	
Indeck-Corinth LP	Indeck-Corinth		F	23802	Corinth	091	36	1995-07-01	147.0	131.2	134.0	128.4	136.6	YES	CC	NG	F02	610.8	
Boralex Hydro Operations Inc	Fourth Branch		F	23824	Waterford	091	36	1987-12-01	3.3	3.5	3.5	3.3	3.3	HY	WAT			12.3	

Table III-2a: NYISO Market Generators (cont'd)

Owner, Operator, and / or Billing Organization	Station	Unit	Zone	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(D) MW	2023 CRIS ^(A) MW		2023 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(J)		2022 Net Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
					Castleton Power, LLC	Castleton Energy Center		F	23900	Castleton	083	36	1992-01-01	72.0	69.0	86.6	66.1	75.8	YES
New York Power Authority	Crescent 1		F	24018	Crescent	001	36	1991-07-01	2.8	3.2	3.2	2.8	2.8		HY	WAT		12.9	
New York Power Authority	Crescent 2		F	24018	Crescent	001	36	1991-07-01	2.8	3.2	3.2	2.8	2.8		HY	WAT		12.8	
New York Power Authority	Crescent 3		F	24018	Crescent	001	36	1991-07-01	3.0	3.2	3.2	3.0	3.0		HY	WAT		14.4	
New York Power Authority	Crescent 4		F	24018	Crescent	001	36	1991-07-01	3.0	3.2	3.2	3.0	3.0		HY	WAT		14.3	
New York Power Authority	Vischer Ferry 1		F	24020	Vischer Ferry	091	36	1991-07-01	2.8	3.2	3.2	2.8	2.9		HY	WAT		11.9	
New York Power Authority	Vischer Ferry 2		F	24020	Vischer Ferry	091	36	1991-07-01	2.8	3.2	3.2	2.8	2.9		HY	WAT		14.5	
New York Power Authority	Vischer Ferry 3		F	24020	Vischer Ferry	091	36	1991-07-01	3.0	3.2	3.2	3.0	2.9		HY	WAT		15.7	
New York Power Authority	Vischer Ferry 4		F	24020	Vischer Ferry	091	36	1991-07-01	3.0	3.2	3.2	3.0	2.9		HY	WAT		6.2	
Erie Blvd. Hydro - East Canada Capital	Beardslee 1		F	24051	Little Falls	043	36	1924-01-01	10.0	9.5	9.5	10.0	10.0		HY	WAT		21.2	
Erie Blvd. Hydro - East Canada Capital	Beardslee 2		F	24051	Little Falls	043	36	1924-01-01	10.0	9.5	9.5	10.0	10.0		HY	WAT		31.5	
Erie Blvd. Hydro - East Canada Capital	Ephratah 1		F	24051	Caroga Lake	035	36	1920-01-01	1.4	0.7	0.7	1.4	1.4		HY	WAT		0.0	
Erie Blvd. Hydro - East Canada Capital	Ephratah 2		F	24051	Caroga Lake	035	36	1911-01-01	1.2	0.6	0.6	1.2	1.2		HY	WAT		6.4	
Erie Blvd. Hydro - East Canada Capital	Ephratah 3		F	24051	Caroga Lake	035	36	1911-01-01	1.3	0.0	0.0	1.3	1.3		HY	WAT		2.7	
Erie Blvd. Hydro - East Canada Capital	Ephratah 4		F	24051	Caroga Lake	035	36	1911-01-01	1.3	0.7	0.7	1.3	1.3		HY	WAT		2.4	
Erie Blvd. Hydro - Upper Hudson	E J West 1		F	24058	Hadley	091	36	1930-01-01	10.0	11.9	11.9	11.9	11.9		HY	WAT		22.9	
Erie Blvd. Hydro - Upper Hudson	E J West 2		F	24058	Hadley	091	36	1930-01-01	10.0	11.9	11.9	11.9	11.9		HY	WAT		33.4	
Erie Blvd. Hydro - Upper Hudson	Feeder Dam 1		F	24058	S Glens Falls	091	36	1924-01-01	1.2	0.9	0.9	1.2	1.2		HY	WAT		3.4	
Erie Blvd. Hydro - Upper Hudson	Feeder Dam 2		F	24058	S Glens Falls	091	36	1924-01-01	1.2	0.9	0.9	1.2	1.2		HY	WAT		3.7	
Erie Blvd. Hydro - Upper Hudson	Feeder Dam 3		F	24058	S Glens Falls	091	36	1924-01-01	1.2	0.9	0.9	1.2	1.2		HY	WAT		3.3	
Erie Blvd. Hydro - Upper Hudson	Feeder Dam 4		F	24058	S Glens Falls	091	36	1924-01-01	1.2	0.9	0.9	1.2	1.2		HY	WAT		5.7	
Erie Blvd. Hydro - Upper Hudson	Feeder Dam 5		F	24058	S Glens Falls	091	36	1924-01-01	1.2	0.9	0.9	1.2	1.2		HY	WAT		6.6	
Erie Blvd. Hydro - Upper Hudson	Sherman Island 2		F	24058	Queensbury	113	36	1923-01-01	7.2	8.1	8.1	8.1	8.1		HY	WAT		34.6	
Erie Blvd. Hydro - Upper Hudson	Sherman Island 3		F	24058	Queensbury	113	36	1923-01-01	8.7	9.7	9.7	9.7	9.7		HY	WAT		36.8	
Erie Blvd. Hydro - Upper Hudson	Sherman Island 4		F	24058	Queensbury	113	36	1923-01-01	7.2	8.1	8.1	8.1	8.1		HY	WAT		18.5	
Erie Blvd. Hydro - Upper Hudson	Sherman Island 5		F	24058	Queensbury	113	36	1923-01-01	7.2	8.1	8.1	8.1	8.1		HY	WAT		22.5	
Erie Blvd. Hydro - Upper Hudson	Spier Falls 1		F	24058	Moreau	091	36	1924-01-01	6.8	8.4	8.4	8.1	8.1		HY	WAT		35.8	
Erie Blvd. Hydro - Upper Hudson	Spier Falls 2		F	24058	Moreau	091	36	1930-01-01	37.6	46.9	46.9	38.1	38.1		HY	WAT		147.5	
Erie Blvd. Hydro - Upper Hudson	Stewarts Bridge 1		F	24058	Hadley	091	36	1952-01-01	30.0	35.8	35.8	32.5	32.5		HY	WAT		96.7	
Erie Blvd. Hydro - Lower Hudson	Johnsonville 1		F	24059	Johnsonville	083	36	1909-01-01	1.2	1.3	1.3	1.2	1.2		HY	WAT		2.8	
Erie Blvd. Hydro - Lower Hudson	Johnsonville 2		F	24059	Johnsonville	083	36	1909-01-01	1.2	1.3	1.3	1.2	1.2		HY	WAT		4.1	
Erie Blvd. Hydro - Lower Hudson	Schaghticoke 1		F	24059	Schaghticoke	083	36	1908-01-01	3.3	4.1	4.1	3.3	3.3		HY	WAT		4.1	
Erie Blvd. Hydro - Lower Hudson	Schaghticoke 2		F	24059	Schaghticoke	083	36	1908-01-01	3.3	4.1	4.1	3.3	3.3		HY	WAT		17.7	
Erie Blvd. Hydro - Lower Hudson	Schaghticoke 3		F	24059	Schaghticoke	083	36	1908-01-01	3.3	4.1	4.1	3.3	3.3		HY	WAT		9.9	
Erie Blvd. Hydro - Lower Hudson	Schaghticoke 4		F	24059	Schaghticoke	083	36	1908-01-01	3.3	4.1	4.1	3.3	3.3		HY	WAT		19.6	
Erie Blvd. Hydro - Lower Hudson	School Street 1		F	24059	Cohoes	001	36	1974-01-01	7.2	6.9	6.9	7.2	7.2		HY	WAT		30.8	
Erie Blvd. Hydro - Lower Hudson	School Street 2		F	24059	Cohoes	001	36	1915-01-01	7.2	6.9	6.9	7.2	7.2		HY	WAT		24.5	
Erie Blvd. Hydro - Lower Hudson	School Street 3		F	24059	Cohoes	001	36	1915-01-01	7.2	6.9	6.9	7.2	7.2		HY	WAT		32.5	

Table III-2a: NYISO Market Generators (cont'd)

Owner, Operator, and / or Billing Organization	Station	Unit	Zone	PTID	Location			In-Service Date	Name Plate Rating ^(D)	2023 CRIS ^(A)		2023 Capability ^(B)		D U A L	Unit Type	Fuel ^(J)		2022 Net Energy GWh	Notes
					Town	Cnty	St			MW		MW				Type 1	Type 2		
					YYYY-MM-DD	SUM	WIN	SUM	WIN										
Erie Blvd. Hydro - Lower Hudson	School Street 4		F	24059	Cohoes	001	36	1922-01-01	7.2	6.9	6.9	7.2	7.2	HY	WAT			25.5	
Erie Blvd. Hydro - Lower Hudson	School Street 5		F	24059	Cohoes	001	36	1924-01-01	10.0	9.6	9.6	10.0	10.0	HY	WAT			36.1	
PSEG Power New York LLC	Bethlehem GS1		F	323560	Bethlehem	001	36	2005-07-01	297.7	278.3	308.2	272.9	308.7	YES	CC	NG	F02	5,138.7	(G)
PSEG Power New York LLC	Bethlehem GS2		F	323561	Bethlehem	001	36	2005-07-01	297.7	278.3	308.3	272.9	308.7	YES	CC	NG	F02		
PSEG Power New York LLC	Bethlehem GS3		F	323562	Bethlehem	001	36	2005-07-01	297.7	278.4	308.3	272.9	308.7	YES	CC	NG	F02		
Innovative Energy Systems, Inc.	Colonie LFGTE		F	323577	Colonie	001	36	2006-03-01	6.4	6.4	6.4	6.4	6.4	IC	MTE			36.5	
Albany Energy LLC	Albany LFGE		F	323615	Albany	001	36	1998-05-01	5.6	4.5	4.5	5.6	5.6	IC	MTE			0.6	(33)
Innovative Energy Systems, Inc.	Fulton LFGE		F	323630	Johnstown	035	36	2010-06-04	3.2	3.2	3.2	3.2	3.2	IC	MTE			15.7	
Stephentown Spindle LLC	Beacon LESR		F	323632	Stephentown	083	36	2010-11-29	20.0	0.0	0.0	0.0	0.0	ES	FW			-8.6	
Empire Generating Co, LLC	Empire CC1		F	323656	Rensselaer	083	36	2010-09-02	335.0	294.2	360.2	293.3	332.0	YES	CC	NG	F02	1,559.1	
Empire Generating Co, LLC	Empire CC2		F	323658	Rensselaer	083	36	2010-09-02	335.0	298.2	365.1	293.3	332.0	YES	CC	NG	F02	1,698.5	
Gravity Renewables, Inc.	LaChute		F	323717	Ticonderoga	031	36	1987-12-01	8.9	8.9	8.9	8.9	8.9	HY	WAT			22.3	
Galt Power Inc.	KCE NY 1		F	323755	Stillwater	091	36	2019-03-13	20.0	0.0	0.0	0.0	0.0	ES	BAT			-2.8	
Gravity Renewables, Inc.	Dahowa Hydroelectric		F	323763	Middle Falls	115	36	1987-12-01	12.3	10.5	10.5	12.3	12.3	HY	WAT			7.0	
Branscomb Solar, LLC	Branscomb Solar		F	323811	Easton	115	36	2021-12-18	20.0	20.0	20.0	20.0	20.0	PV	SUN			32.6	
Galt Power Inc.	Regan Solar		F	323812	Greene	057	36	2022-12-28	20.0	20.0	20.0	20.0	20.0	PV	SUN			0.0	(3)(N)
Galt Power Inc.	Grissom Solar		F	323813	Mohawk	057	36	2023-02-23	20.0	20.0	20.0	20.0	20.0	PV	SUN			0.0	(8)(N)
GenOn Energy Management, LLC	Bowline 1		G	23526	West Haverstraw	087	36	1972-09-01	621.0	594.0	594.0	582.0	582.5	YES	ST	NG	F06	1,006.0	
GenOn Energy Management, LLC	Bowline 2		G	23595	West Haverstraw	087	36	1974-05-01	621.0	575.0	575.0	557.0	577.1	YES	ST	NG	F06	459.6	
Consolidated Edison Energy, Inc.	Danskammer 1		G	23586	Newburgh	071	36	1951-12-01	72.0	69.0	69.0	70.2	69.5	YES	ST	NG	F06	1.2	
Consolidated Edison Energy, Inc.	Danskammer 2		G	23589	Newburgh	071	36	1954-09-01	73.5	64.7	64.7	64.2	65.4	YES	ST	NG	F06	1.2	
Consolidated Edison Energy, Inc.	Danskammer 3		G	23590	Newburgh	071	36	1959-10-01	147.1	139.2	139.2	139.7	142.2	ST	NG			5.4	
Consolidated Edison Energy, Inc.	Danskammer 4		G	23591	Newburgh	071	36	1967-09-01	239.4	238.2	238.2	222.1	230.7	ST	NG			7.8	
Consolidated Edison Energy, Inc.	Roseton 1		G	23587	Newburgh	071	36	1974-12-01	621.0	614.8	614.8	576.2	602.8	YES	ST	NG	F06	263.3	
Consolidated Edison Energy, Inc.	Roseton 2		G	23588	Newburgh	071	36	1974-09-01	621.0	607.7	607.7	612.5	610.0	YES	ST	NG	F06	214.4	
New York Power Authority	Grahamsville		G	23607	Grahamsville	105	36	1956-12-01	18.0	16.3	16.3	18.0	18.0	HY	WAT			75.5	
New York Power Authority	Neversink		G	23608	Grahamsville	105	36	1953-12-01	25.0	22.0	22.0	25.0	25.0	HY	WAT			22.4	
Central Hudson Gas & Electric Corp.	Coxsackie GT		G	23611	Coxsackie	039	36	1969-12-01	21.6	21.6	26.0	19.0	23.6	YES	GT	NG	KER	3.9	
Central Hudson Gas & Electric Corp.	South Cairo		G	23612	Cairo	039	36	1970-06-01	21.6	19.8	25.9	18.7	23.1	GT	KER			1.3	
Seneca Power Partners, L.P.	Hillburn GT		G	23639	Hillburn	087	36	1971-04-01	46.5	37.9	51.8	35.7	43.2	YES	JE	NG	KER	1.4	
Seneca Power Partners, L.P.	Shoemaker GT		G	23640	Middletown	071	36	1971-05-01	41.9	33.1	45.2	32.7	41.4	YES	JE	NG	KER	0.4	
Eagle Creek Hydro Power, LLC	Mongaup 1		G	23641	Forestburg	105	36	1923-07-01	1.0	0.9	0.9	0.6	0.9	HY	WAT			44.3	
Eagle Creek Hydro Power, LLC	Mongaup 2		G	23641	Forestburg	105	36	1923-07-01	1.0	1.0	1.0	0.6	0.9	HY	WAT				
Eagle Creek Hydro Power, LLC	Mongaup 3		G	23641	Forestburg	105	36	1923-07-01	1.0	1.0	1.0	0.6	0.9	HY	WAT				
Eagle Creek Hydro Power, LLC	Mongaup 4		G	23641	Forestburg	105	36	1926-01-01	1.0	1.0	1.0	0.6	1.0	HY	WAT				
Eagle Creek Hydro Power, LLC	Rio		G	23641	Glen Spey	105	36	1927-12-01	10.8	10.8	10.8	6.4	10.0	HY	WAT				
Eagle Creek Hydro Power, LLC	Swinging Bridge 2		G	23641	Forestburg	105	36	1930-02-01	9.0	7.9	7.9	5.4	8.4	HY	WAT				
New York Power Authority	Ashokan 1		G	23654	Ashokan	111	36	1982-11-01	2.3	1.8	1.8	2.3	2.3	HY	WAT			7.0	

Table III-2a: NYISO Market Generators (cont'd)

Owner, Operator, and / or Billing Organization	Station	Unit	Zone	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(D) MW	2023 CRIS ^(A) MW		2023 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(J)		2022 Net Energy GWh	Notes	
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2			
New York Power Authority	Ashokan 2		G	23654	Ashokan	111	36	1982-11-01	2.3	1.8	1.8	2.3	2.3		HY	WAT			3.8	
Central Hudson Gas & Electric Corp.	DCRRA		G	23765	Poughkeepsie	027	36	1987-09-01	9.2	8.8	8.8	6.2	6.6		ST	REF			28.1	
Central Hudson Gas & Electric Corp.	Wappingers Falls		G	23765	Wappingers Falls	027	36	1988-12-01	2.0	2.0	2.0	1.4	1.4		HY	WAT			6.3	
Consolidated Hydro New York, Inc.	Walden Hydro		G	24148	Walden	071	36	1983-12-01	2.4	0.0	0.0	0.0	0.0		HY	WAT			1.2	
Erie Blvd. Hydropower LP	West Delaware Hydro		G	323627	Grahamsville	105	36	1988-12-01	7.5	7.5	7.5	7.5	7.5		HY	WAT			20.1	
CPV Valley, LLC	CPV Valley CC1		G	323721	Wawayanda	071	36	2018-03-01	385.0	340.0	380.5	325.9	369.4	YES	CC	NG	FO2		2,425.8	
CPV Valley, LLC	CPV Valley CC2		G	323722	Wawayanda	071	36	2018-03-01	385.0	340.0	380.5	325.9	369.4	YES	CC	NG	FO2		2,405.1	
Cricket Valley Energy Center, LLC	Cricket Valley CC1		G	323756	Dover	027	36	2019-10-29	392.3	364.2	402.4	342.4	375.4		CC	NG			1,501.6	
Cricket Valley Energy Center, LLC	Cricket Valley CC2		G	323757	Dover	028	36	2020-01-03	392.3	361.2	399.1	343.6	376.8		CC	NG			1,670.7	
Cricket Valley Energy Center, LLC	Cricket Valley CC3		G	323758	Dover	029	36	2020-01-17	392.3	364.2	402.4	343.3	371.2		CC	NG			1,529.3	
Wheelabrator Westchester, LP	Wheelabrator Westchester		H	23653	Peekskill	119	36	1984-04-01	59.7	53.5	53.5	52.1	53.7		ST	REF			367.1	
NRG Power Marketing LLC	Arthur Kill GT 1		J	23520	Staten Island	085	36	1970-06-01	20.0	16.5	21.6	12.3	15.8		GT	NG			1.6	
NRG Power Marketing LLC	Arthur Kill ST 2		J	23512	Staten Island	085	36	1959-08-01	376.2	357.7	357.7	346.3	359.7		ST	NG			669.9	
NRG Power Marketing LLC	Arthur Kill ST 3		J	23513	Staten Island	085	36	1969-06-01	535.5	518.0	518.0	519.0	523.4		ST	NG			292.8	
Consolidated Edison Co. of NY, Inc.	Brooklyn Navy Yard		J	23515	Brooklyn	047	36	1996-11-01	322.0	266.9	348.6	244.6	296.8	YES	CC	NG	FO2		1,880.7	
Astoria Generating Company L.P.	Astoria GT 01		J	23523	Queens	081	36	1967-07-01	16.0	15.7	20.5	13.4	19.1		GT	NG			1.4	
Astoria Generating Company L.P.	Astoria 2		J	24149	Queens	081	36	1954-03-01	180.0	177.0	177.0	170.5	170.0		ST	NG			10.2	
Astoria Generating Company L.P.	Astoria 3		J	23516	Queens	081	36	1958-09-01	376.0	369.9	369.9	372.2	369.9	YES	ST	NG	FO2		404.6	
Astoria Generating Company L.P.	Astoria 5		J	23518	Queens	081	36	1962-05-01	387.0	376.3	376.3	374.7	377.9	YES	ST	NG	FO2		407.3	
NRG Power Marketing LLC	Astoria GT 2-1		J	24094	Queens	081	36	1970-06-01	46.5	41.2	50.7	34.9	46.5	YES	JE	NG	KER		2.5	
NRG Power Marketing LLC	Astoria GT 2-2		J	24095	Queens	081	36	1970-06-01	46.5	42.4	52.2	34.3	45.6	YES	JE	NG	KER		3.7	
NRG Power Marketing LLC	Astoria GT 2-3		J	24096	Queens	081	36	1970-06-01	46.5	41.2	50.7	36.3	46.7	YES	JE	NG	KER		5.5	
NRG Power Marketing LLC	Astoria GT 2-4		J	24097	Queens	081	36	1970-06-01	46.5	41.0	50.5	32.5	45.4	YES	JE	NG	KER		5.1	
NRG Power Marketing LLC	Astoria GT 3-1		J	24098	Queens	081	36	1970-06-01	46.5	41.2	50.7	34.6	45.0	YES	JE	NG	KER		5.0	
NRG Power Marketing LLC	Astoria GT 3-2		J	24099	Queens	081	36	1970-06-01	46.5	43.5	53.5	35.7	45.3	YES	JE	NG	KER		3.6	
NRG Power Marketing LLC	Astoria GT 3-3		J	24100	Queens	081	36	1970-06-01	46.5	43.0	52.9	33.9	44.6	YES	JE	NG	KER		2.7	
NRG Power Marketing LLC	Astoria GT 3-4		J	24101	Queens	081	36	1970-06-01	46.5	43.0	52.9	34.9	45.5	YES	JE	NG	KER		4.4	
NRG Power Marketing LLC	Astoria GT 4-1		J	24102	Queens	081	36	1970-07-01	46.5	42.6	52.4	33.6	43.8	YES	JE	NG	KER		3.9	
NRG Power Marketing LLC	Astoria GT 4-2		J	24103	Queens	081	36	1970-07-01	46.5	41.4	51.0	34.3	44.3	YES	JE	NG	KER		3.0	
NRG Power Marketing LLC	Astoria GT 4-3		J	24104	Queens	081	36	1970-07-01	46.5	41.1	50.6	35.4	46.4	YES	JE	NG	KER		3.7	
NRG Power Marketing LLC	Astoria GT 4-4		J	24105	Queens	081	36	1970-07-01	46.5	42.8	52.7	35.2	44.1	YES	JE	NG	KER		5.1	
Helix Ravenswood, LLC	Ravenswood ST 01		J	23533	Queens	081	36	1963-02-01	400.0	365.1	365.1	368.5	374.0	YES	ST	NG	FO4		126.9	
Helix Ravenswood, LLC	Ravenswood ST 02		J	23534	Queens	081	36	1963-05-01	400.0	391.6	391.6	374.5	375.2	YES	ST	NG	FO4		186.3	
Helix Ravenswood, LLC	Ravenswood ST 03		J	23535	Queens	081	36	1965-06-01	1,027.0	986.8	986.8	987.3	968.3	YES	ST	NG	FO4		165.7	
Helix Ravenswood, LLC	Ravenswood CC 04		J	23820	Queens	081	36	2004-05-01	250.0	231.2	276.7	223.2	275.6	YES	CC	NG	FO2		1,536.4	
Helix Ravenswood, LLC	Ravenswood 10		J	24258	Queens	081	36	1970-08-01	25.0	21.2	27.0	16.1	20.3	YES	JE	NG	KER		4.1	
Consolidated Edison Co. of NY, Inc.	Hudson Ave 3		J	23810	Brooklyn	047	36	1970-07-01	16.3	16.0	20.9	0.0	0.0		GT	KER			0.2	(11)(R)
Consolidated Edison Co. of NY, Inc.	Hudson Ave 5		J	23657	Brooklyn	047	36	1970-07-01	16.3	15.1	19.7	0.0	0.0		GT	KER			0.2	(12)(R)

Table III-2a: NYISO Market Generators (cont'd)

Owner, Operator, and / or Billing Organization	Station	Unit	Zone	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(D) MW	2023 CRIS ^(A) MW		2023 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(J)		2022 Net Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
					Consolidated Edison Co. of NY, Inc.	East River 1		J	323558	Manhattan	061	36	2005-04-01	185.0	160.5	199.0	155.1	201.6	YES
Consolidated Edison Co. of NY, Inc.	East River 2		J	323559	Manhattan	061	36	2005-04-05	185.0	162.4	201.4	155.8	198.5	YES	CC	NG	KER	1,163.2	
Consolidated Edison Co. of NY, Inc.	East River 6		J	23660	Manhattan	061	36	1951-11-01	156.2	144.3	144.3	141.4	146.6	YES	ST	NG	F06	498.5	
Consolidated Edison Co. of NY, Inc.	East River 7		J	23524	Manhattan	061	36	1955-06-01	200.0	186.7	186.7	184.2	186.7	YES	ST	NG	F06	295.7	
East Coast Power, LLC	Linden Cogen		J	23786	Linden NJ	039	34	1992-05-01	800.0	790.8	924.9	789.5	798.0	YES	CC	NG	BUT	4,164.9	
Calpine Energy Services LP	KIAC_JFK (BTM:NG)		J	323774	Jamaica	081	36	1995-02-01	121.2	117.0	117.0	98.7	98.2	YES	CC	NG	F02	553.5	(32)(E)
Astoria Generating Company L.P.	Gowanus 1-1		J	24077	Brooklyn	047	36	1971-06-01	20.0	19.1	24.9	0.0	0.0		GT	F02		0.1	(13)(R)
Astoria Generating Company L.P.	Gowanus 1-2		J	24078	Brooklyn	047	36	1971-06-01	20.0	17.1	22.3	0.0	0.0		GT	F02		0.1	(14)(R)
Astoria Generating Company L.P.	Gowanus 1-3		J	24079	Brooklyn	047	36	1971-06-01	20.0	17.2	22.5	0.0	0.0		GT	F02		0.1	(15)(R)
Astoria Generating Company L.P.	Gowanus 1-4		J	24080	Brooklyn	047	36	1971-06-01	20.0	17.1	22.3	0.0	0.0		GT	F02		0.1	(16)(R)
Astoria Generating Company L.P.	Gowanus 1-5		J	24084	Brooklyn	047	36	1971-06-01	20.0	16.5	21.6	0.0	0.0		GT	F02		0.1	(17)(R)
Astoria Generating Company L.P.	Gowanus 1-6		J	24111	Brooklyn	047	36	1971-06-01	20.0	18.0	23.5	0.0	0.0		GT	F02		0.1	(18)(R)
Astoria Generating Company L.P.	Gowanus 1-7		J	24112	Brooklyn	047	36	1971-06-01	20.0	17.6	23.0	0.0	0.0		GT	F02		0.1	(19)(R)
Astoria Generating Company L.P.	Gowanus 2-1		J	24114	Brooklyn	047	36	1971-06-01	20.0	17.9	23.4	17.0	21.5	YES	GT	NG	F02	0.9	
Astoria Generating Company L.P.	Gowanus 2-2		J	24115	Brooklyn	047	36	1971-06-01	20.0	18.8	24.6	16.8	22.7	YES	GT	NG	F02	1.2	
Astoria Generating Company L.P.	Gowanus 2-3		J	24116	Brooklyn	047	36	1971-06-01	20.0	20.6	26.9	18.8	24.2	YES	GT	NG	F02	1.2	
Astoria Generating Company L.P.	Gowanus 2-4		J	24117	Brooklyn	047	36	1971-06-01	20.0	19.3	25.2	16.9	21.7	YES	GT	NG	F02	1.0	
Astoria Generating Company L.P.	Gowanus 2-5		J	24118	Brooklyn	047	36	1971-06-01	20.0	18.6	24.3	17.6	23.3	YES	GT	NG	F02	1.1	
Astoria Generating Company L.P.	Gowanus 2-6		J	24119	Brooklyn	047	36	1971-06-01	20.0	20.3	26.5	19.1	22.7	YES	GT	NG	F02	1.1	
Astoria Generating Company L.P.	Gowanus 2-7		J	24120	Brooklyn	047	36	1971-06-01	20.0	19.6	25.6	18.7	23.9	YES	GT	NG	F02	1.1	
Astoria Generating Company L.P.	Gowanus 2-8		J	24121	Brooklyn	047	36	1971-06-01	20.0	17.7	23.1	17.2	22.0	YES	GT	NG	F02	0.7	
Astoria Generating Company L.P.	Gowanus 3-1		J	24122	Brooklyn	047	36	1971-07-01	20.0	17.7	23.1	17.0	20.7	YES	GT	NG	F02	0.7	
Astoria Generating Company L.P.	Gowanus 3-2		J	24123	Brooklyn	047	36	1971-07-01	20.0	17.7	23.1	16.7	22.2	YES	GT	NG	F02	0.8	
Astoria Generating Company L.P.	Gowanus 3-3		J	24124	Brooklyn	047	36	1971-07-01	20.0	19.8	25.9	17.8	24.3	YES	GT	NG	F02	1.0	
Astoria Generating Company L.P.	Gowanus 3-4		J	24125	Brooklyn	047	36	1971-07-01	20.0	17.9	23.4	16.1	22.4	YES	GT	NG	F02	0.7	
Astoria Generating Company L.P.	Gowanus 3-5		J	24126	Brooklyn	047	36	1971-07-01	20.0	19.0	24.8	17.5	22.6	YES	GT	NG	F02	0.9	
Astoria Generating Company L.P.	Gowanus 3-6		J	24127	Brooklyn	047	36	1971-07-01	20.0	17.6	23.0	15.5	21.2	YES	GT	NG	F02	0.6	
Astoria Generating Company L.P.	Gowanus 3-7		J	24128	Brooklyn	047	36	1971-07-01	20.0	18.1	23.6	18.5	23.2	YES	GT	NG	F02	0.7	
Astoria Generating Company L.P.	Gowanus 3-8		J	24129	Brooklyn	047	36	1971-07-01	20.0	19.0	24.8	17.8	23.3	YES	GT	NG	F02	0.8	
Astoria Generating Company L.P.	Gowanus 4-1		J	24130	Brooklyn	047	36	1971-07-01	20.0	16.8	21.9	0.0	0.0		GT	F02		0.1	(20)(R)
Astoria Generating Company L.P.	Gowanus 4-2		J	24131	Brooklyn	047	36	1971-07-01	20.0	17.3	22.6	0.0	0.0		GT	F02		0.1	(21)(R)
Astoria Generating Company L.P.	Gowanus 4-3		J	24132	Brooklyn	047	36	1971-07-01	20.0	17.6	23.0	0.0	0.0		GT	F02		0.1	(22)(R)
Astoria Generating Company L.P.	Gowanus 4-4		J	24133	Brooklyn	047	36	1971-07-01	20.0	17.1	22.3	0.0	0.0		GT	F02		0.1	(23)(R)
Astoria Generating Company L.P.	Gowanus 4-5		J	24134	Brooklyn	047	36	1971-07-01	20.0	17.1	22.3	0.0	0.0		GT	F02		0.1	(24)(R)
Astoria Generating Company L.P.	Gowanus 4-6		J	24135	Brooklyn	047	36	1971-07-01	20.0	18.6	24.3	0.0	0.0		GT	F02		0.1	(25)(R)
Astoria Generating Company L.P.	Gowanus 4-7		J	24136	Brooklyn	047	36	1971-07-01	20.0	16.6	21.7	0.0	0.0		GT	F02		0.1	(26)(R)
Astoria Generating Company L.P.	Gowanus 4-8		J	24137	Brooklyn	047	36	1971-07-01	20.0	19.0	24.8	0.0	0.0		GT	F02		0.1	(27)(R)
New York Power Authority	Gowanus 5		J	24156	Brooklyn	047	36	2001-08-01	47.0	45.4	45.4	40.0	40.0		GT	NG		61.5	

Table III-2a: NYISO Market Generators (cont'd)

Owner, Operator, and / or Billing Organization	Station	Unit	Zone	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(D) MW	2023 CRIS ^(A) MW		2023 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(J)		2022 Net Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
					New York Power Authority	Gowanus 6		J	24157	Brooklyn	047	36	2001-08-01	47.0	46.1	46.1	39.9	39.9	
Consolidated Edison Co. of NY, Inc.	59 St. GT 1		J	24138	Manhattan	061	36	1969-06-01	17.1	15.4	20.1	13.1	18.8	YES	GT	NG	KER	0.2	
New York Power Authority	Kent		J	24152	Brooklyn	047	36	2001-08-01	47.0	46.9	46.9	45.8	46.0		GT	NG		72.3	
New York Power Authority	Pouch		J	24155	Staten Island	085	36	2001-08-01	47.0	47.1	47.1	45.1	46.0		GT	NG		61.7	
New York Power Authority	Hellgate 1		J	24158	Bronx	005	36	2001-08-01	47.0	45.0	45.0	39.9	39.9		GT	NG		61.8	
New York Power Authority	Hellgate 2		J	24159	Bronx	005	36	2001-08-01	47.0	45.0	45.0	40.0	40.0		GT	NG		51.0	
New York Power Authority	Harlem River 1		J	24160	Bronx	005	36	2001-08-01	47.0	46.0	46.0	39.9	39.9		GT	NG		62.3	
New York Power Authority	Harlem River 2		J	24161	Bronx	005	36	2001-08-01	47.0	45.2	45.2	40.0	40.0		GT	NG		55.8	
New York Power Authority	Vernon Blvd 2		J	24162	Queens	081	36	2001-08-01	47.0	46.2	46.2	40.0	40.0		GT	NG		61.7	
New York Power Authority	Vernon Blvd 3		J	24163	Queens	081	36	2001-08-01	47.0	43.8	43.8	39.9	39.9		GT	NG		64.0	
Astoria Generating Company L.P.	Narrows 1-1		J	24228	Brooklyn	047	36	1972-05-01	22.0	21.0	27.4	18.6	23.4	YES	GT	NG	FO2	3.1	
Astoria Generating Company L.P.	Narrows 1-2		J	24229	Brooklyn	047	36	1972-05-01	22.0	19.5	25.5	17.6	23.5	YES	GT	NG	FO2	3.0	
Astoria Generating Company L.P.	Narrows 1-3		J	24230	Brooklyn	047	36	1972-05-01	22.0	20.4	26.6	16.9	23.2	YES	GT	NG	FO2	2.4	
Astoria Generating Company L.P.	Narrows 1-4		J	24231	Brooklyn	047	36	1972-05-01	22.0	20.1	26.3	18.2	23.5	YES	GT	NG	FO2	2.7	
Astoria Generating Company L.P.	Narrows 1-5		J	24232	Brooklyn	047	36	1972-05-01	22.0	19.8	25.9	19.7	24.9	YES	GT	NG	FO2	4.7	
Astoria Generating Company L.P.	Narrows 1-6		J	24233	Brooklyn	047	36	1972-05-01	22.0	18.9	24.7	16.2	20.9	YES	GT	NG	FO2	1.9	
Astoria Generating Company L.P.	Narrows 1-7		J	24234	Brooklyn	047	36	1972-05-01	22.0	18.4	24.0	18.9	24.2	YES	GT	NG	FO2	3.5	
Astoria Generating Company L.P.	Narrows 1-8		J	24235	Brooklyn	047	36	1972-05-01	22.0	19.9	26.0	16.7	21.7	YES	GT	NG	FO2	2.2	
Astoria Generating Company L.P.	Narrows 2-1		J	24236	Brooklyn	047	36	1972-06-01	22.0	19.4	25.3	18.7	24.4	YES	GT	NG	FO2	3.9	
Astoria Generating Company L.P.	Narrows 2-2		J	24237	Brooklyn	047	36	1972-06-01	22.0	18.7	24.4	16.3	22.1	YES	GT	NG	FO2	1.9	
Astoria Generating Company L.P.	Narrows 2-3		J	24238	Brooklyn	047	36	1972-06-01	22.0	18.4	24.0	17.5	22.9	YES	GT	NG	FO2	2.7	
Astoria Generating Company L.P.	Narrows 2-4		J	24239	Brooklyn	047	36	1972-06-01	22.0	18.4	24.0	19.1	24.8	YES	GT	NG	FO2	4.3	
Astoria Generating Company L.P.	Narrows 2-5		J	24240	Brooklyn	047	36	1972-06-01	22.0	19.9	26.0	20.4	24.9	YES	GT	NG	FO2	5.4	
Astoria Generating Company L.P.	Narrows 2-6		J	24241	Brooklyn	047	36	1972-06-01	22.0	18.1	23.6	16.2	20.5	YES	GT	NG	FO2	1.8	
Astoria Generating Company L.P.	Narrows 2-7		J	24242	Brooklyn	047	36	1972-06-01	22.0	20.7	27.0	18.8	23.7	YES	GT	NG	FO2	3.5	
Astoria Generating Company L.P.	Narrows 2-8		J	24243	Brooklyn	047	36	1972-06-01	22.0	17.5	22.9	16.1	20.6	YES	GT	NG	FO2	1.9	
Consolidated Edison Co. of NY, Inc.	74 St. GT 1		J	24260	Manhattan	061	36	1968-10-01	18.5	19.0	23.5	18.5	21.7		GT	KER		0.1	
Consolidated Edison Co. of NY, Inc.	74 St. GT 2		J	24261	Manhattan	061	36	1968-10-01	18.5	20.1	25.7	19.3	21.9		GT	KER		0.1	
New York Power Authority	Astoria CC 1		J	323568	Queens	081	36	2006-01-01	288.0	246.2	270.2	238.0	270.2	YES	CC	NG	FO2	2,604.4	(G)
New York Power Authority	Astoria CC 2		J	323569	Queens	081	36	2006-01-01	288.0	246.2	270.2	238.0	270.2	YES	CC	NG	FO2		
Astoria Energy LLC	Astoria East Energy - CC1		J	323581	Queens	081	36	2006-04-01	320.0	292.6	355.3	291.9	335.2	YES	CC	NG	FO2	3,616.4	(G)
Astoria Energy LLC	Astoria East Energy - CC2		J	323582	Queens	081	36	2006-04-01	320.0	292.6	355.3	291.9	335.2	YES	CC	NG	FO2		
Astoria Energy II, LLC	Astoria Energy 2 - CC3		J	323677	Queens	081	36	2011-07-01	330.0	288.0	376.3	285.1	330.2	YES	CC	NG	FO2	3,583.2	(G)
Astoria Energy II, LLC	Astoria Energy 2 - CC4		J	323678	Queens	081	36	2011-07-01	330.0	288.0	376.3	285.1	330.2	YES	CC	NG	FO2		
Bayonne Energy Center, LLC	Bayonne EC CTG1		J	323682	Bayonne NJ	017	34	2012-06-01	64.0	63.2	66.1	61.8	63.0	YES	JE	NG	KER	118.8	
Bayonne Energy Center, LLC	Bayonne EC CTG2		J	323683	Bayonne NJ	017	34	2012-06-01	64.0	63.2	66.1	60.2	63.0	YES	JE	NG	KER	114.1	
Bayonne Energy Center, LLC	Bayonne EC CTG3		J	323684	Bayonne NJ	017	34	2012-06-01	64.0	63.2	66.1	58.1	63.0	YES	JE	NG	KER	92.3	
Bayonne Energy Center, LLC	Bayonne EC CTG4		J	323685	Bayonne NJ	017	34	2012-06-01	64.0	63.2	66.1	60.9	62.9	YES	JE	NG	KER	113.1	

Table III-2a: NYISO Market Generators (cont'd)

Owner, Operator, and / or Billing Organization	Station	Unit	Zone	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(D) MW	2023 CRIS ^(A) MW		2023 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(J)		2022 Net Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
Bayonne Energy Center, LLC	Bayonne EC	CTG5	J	323686	Bayonne NJ	017	34	2012-06-01	64.0	63.2	66.1	59.7	63.1	YES	JE	NG	KER	117.2	
Bayonne Energy Center, LLC	Bayonne EC	CTG6	J	323687	Bayonne NJ	017	34	2012-06-01	64.0	63.2	66.1	59.6	62.9	YES	JE	NG	KER	96.5	
Bayonne Energy Center, LLC	Bayonne EC	CTG7	J	323688	Bayonne NJ	017	34	2012-06-01	64.0	63.2	66.1	60.0	63.1	YES	JE	NG	KER	112.8	
Bayonne Energy Center, LLC	Bayonne EC	CTG8	J	323689	Bayonne NJ	017	34	2012-06-01	64.0	63.2	66.1	60.3	62.9	YES	JE	NG	KER	111.6	
Bayonne Energy Center, LLC	Bayonne EC	CTG9	J	323749	Bayonne NJ	017	34	2018-06-01	64.0	63.4	66.3	60.5	65.4	YES	JE	NG	KER	141.0	
Bayonne Energy Center, LLC	Bayonne EC	CTG10	J	323750	Bayonne NJ	017	34	2018-06-01	64.0	63.4	66.3	60.5	65.2	YES	JE	NG	KER	143.4	
Cubit Power One Inc.	Arthur Kill	Cogen	J	323718	Staten Island	085	36	2018-05-22	11.1	11.1	11.1	11.1	10.2		IC	NG		25.2	
New York Power Authority	Greenport	IC 4	K	1652	Greenport	103	36	1957-06-06	1.2	1.7	1.7	1.0	1.0		IC	F02		0.0	
New York Power Authority	Greenport	IC 5	K	1652	Greenport	103	36	1965-07-08	1.8	1.7	1.7	1.5	1.5		IC	F02		0.0	
New York Power Authority	Greenport	IC 6	K	1652	Greenport	103	36	1971-09-17	3.8	2.7	2.7	3.1	3.0		IC	F02		0.0	
Freeport Electric	Freeport	1-2	K	1660	Freeport	059	36	1949-08-01	2.9	2.0	2.0	2.0	2.4		IC	F02		0.0	
Freeport Electric	Freeport	1-3	K	1660	Freeport	059	36	1954-08-01	3.4	2.1	2.1	2.3	2.8		IC	F02		0.0	
Freeport Electric	Freeport	1-4	K	1660	Freeport	059	36	1964-10-01	6.0	4.4	4.4	4.0	4.9		IC	F02		0.0	(R)
Freeport Electric	Freeport	2-3	K	1660	Freeport	059	36	1973-05-01	18.2	18.1	18.1	12.5	14.9		GT	KER		0.4	
Rockville Centre, Village of	Charles P Keller	07	K	1661	Rockville Centre	059	36	1942-09-01	2.0	2.0	2.0	1.0	1.0		IC	F02			(R)
Rockville Centre, Village of	Charles P Keller	09	K	1661	Rockville Centre	059	36	1954-09-01	3.5	3.3	3.3	1.8	1.8	YES	IC	NG	F02	0.0	
Rockville Centre, Village of	Charles P Keller	10	K	1661	Rockville Centre	059	36	1954-09-01	3.5	3.2	3.2	1.8	1.8	YES	IC	NG	F02	0.0	
Rockville Centre, Village of	Charles P Keller	11	K	1661	Rockville Centre	059	36	1962-09-01	5.2	5.2	5.2	2.7	2.7	YES	IC	NG	F02	0.0	
Rockville Centre, Village of	Charles P Keller	12	K	1661	Rockville Centre	059	36	1967-09-01	5.5	5.5	5.5	2.8	2.8	YES	IC	NG	F02	0.0	
Rockville Centre, Village of	Charles P Keller	13	K	1661	Rockville Centre	059	36	1974-09-01	5.5	5.6	5.6	2.8	2.8	YES	IC	NG	F02	0.0	
Rockville Centre, Village of	Charles P Keller	14	K	1661	Rockville Centre	059	36	1994-09-01	6.2	6.3	6.3	3.2	3.2	YES	IC	NG	F02	0.2	
Long Island Power Authority	Wading River	1	K	23522	Shoreham	103	36	1989-08-01	79.5	81.2	106.1	76.8	96.8		GT	F02		6.6	
Long Island Power Authority	Wading River	2	K	23547	Shoreham	103	36	1989-08-01	79.5	81.3	106.2	75.7	97.4		GT	F02		5.3	
Long Island Power Authority	Wading River	3	K	23601	Shoreham	103	36	1989-08-01	79.5	81.3	106.2	74.5	98.2		GT	F02		8.4	
Long Island Power Authority	Barrett	ST 01	K	23545	Island Park	059	36	1956-11-01	188.0	200.2	200.2	193.7	190.7	YES	ST	NG	F06	835.6	
Long Island Power Authority	Barrett	ST 02	K	23546	Island Park	059	36	1963-10-01	188.0	197.5	197.5	178.3	182.4	YES	ST	NG	F06	364.7	
Long Island Power Authority	Barrett	GT 01	K	23704	Island Park	059	36	1970-06-01	18.0	18.1	23.6	14.9	20.0	YES	GT	NG	F02	8.1	
Long Island Power Authority	Barrett	GT 02	K	23705	Island Park	059	36	1970-06-01	18.0	17.4	22.7	15.6	19.3	YES	GT	NG	F02	10.4	
Long Island Power Authority	Barrett	03	K	23706	Island Park	059	36	1970-06-01	18.0	17.9	23.4	15.0	19.2	YES	GT	NG	F02	9.1	
Long Island Power Authority	Barrett	04	K	23707	Island Park	059	36	1970-07-01	18.0	17.7	23.1	13.3	19.0	YES	GT	NG	F02	6.8	
Long Island Power Authority	Barrett	05	K	23708	Island Park	059	36	1970-07-01	18.0	17.8	23.3	13.1	17.9	YES	GT	NG	F02	5.6	
Long Island Power Authority	Barrett	06	K	23709	Island Park	059	36	1970-07-01	18.0	17.8	23.3	15.0	19.1	YES	GT	NG	F02	6.0	
Long Island Power Authority	Barrett	08	K	23711	Island Park	059	36	1970-07-01	18.0	17.3	22.6	14.4	17.1	YES	GT	NG	F02	5.7	
Long Island Power Authority	Barrett	09	K	23700	Island Park	059	36	1971-06-01	41.8	43.4	55.2	38.5	49.8	YES	JE	NG	F02	33.8	
Long Island Power Authority	Barrett	10	K	23701	Island Park	059	36	1971-06-01	41.8	42.7	54.3	38.5	48.3	YES	JE	NG	F02	34.6	
Long Island Power Authority	Barrett	11	K	23702	Island Park	059	36	1971-06-01	41.8	43.3	55.1	38.5	48.6	YES	JE	NG	F02	25.6	
Long Island Power Authority	Barrett	12	K	23703	Island Park	059	36	1971-06-01	41.8	44.0	56.0	39.7	48.2	YES	JE	NG	F02	24.7	
Long Island Power Authority	Northport	GT	K	23718	Northport	103	36	1967-03-01	16.0	13.8	18.0	8.3	12.7		GT	F02		0.0	

Table III-2a: NYISO Market Generators (cont'd)

Owner, Operator, and / or Billing Organization	Station	Unit	Zone	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(D) MW	2023 CRIS ^(A) MW		2023 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(J)		2022 Net Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
Long Island Power Authority	Northport 1		K	23551	Northport	103	36	1967-07-01	387.0	395.0	395.0	396.2	396.2	YES	ST	NG	F06	715.3	
Long Island Power Authority	Northport 2		K	23552	Northport	103	36	1968-06-01	387.0	396.0	396.0	397.5	399.5	YES	ST	NG	F06	565.8	
Long Island Power Authority	Northport 3		K	23553	Northport	103	36	1972-07-01	387.0	399.2	399.2	396.5	395.7	YES	ST	NG	F06	1,115.4	
Long Island Power Authority	Northport 4		K	23650	Northport	103	36	1977-12-01	387.0	399.2	399.2	328.4	376.0	YES	ST	NG	F06	503.6	
Long Island Power Authority	Port Jefferson GT 01		K	23713	Port Jefferson	103	36	1966-12-01	16.0	14.1	18.4	13.0	15.3		GT	F02		0.0	
Long Island Power Authority	Port Jefferson GT 02		K	24210	Port Jefferson	103	36	2002-07-01	53.0	44.0	52.0	41.5	47.5	YES	GT	NG	F02	49.8	
Long Island Power Authority	Port Jefferson GT 03		K	24211	Port Jefferson	103	36	2002-07-01	53.0	43.1	50.9	40.7	47.4	YES	GT	NG	F02	46.5	
Long Island Power Authority	Port Jefferson 3		K	23555	Port Jefferson	103	36	1958-11-01	188.0	194.5	194.5	192.0	192.0	YES	ST	NG	F06	222.4	
Long Island Power Authority	Port Jefferson 4		K	23616	Port Jefferson	103	36	1960-11-01	188.0	198.7	198.7	191.5	197.2	YES	ST	NG	F06	100.7	
Long Island Power Authority	Hempstead (RR)		K	23647	Hempstead	059	36	1989-10-01	78.6	73.7	73.7	73.0	76.2		ST	REF		582.3	
Long Island Power Authority	Glenwood GT 02		K	23688	Glenwood	059	36	1972-06-01	55.0	52.7	68.8	49.9	65.1		GT	F02		1.8	
Long Island Power Authority	Glenwood GT 03		K	23689	Glenwood	059	36	1972-06-01	55.0	54.7	71.5	49.9	67.2		GT	F02		0.8	
Long Island Power Authority	Glenwood GT 04		K	24219	Glenwood	059	36	2002-06-01	53.0	42.3	50.0	39.8	46.1	YES	GT	NG	F02	104.7	
Long Island Power Authority	Glenwood GT 05		K	24220	Glenwood	059	36	2002-06-01	53.0	42.0	49.6	42.7	46.0	YES	GT	NG	F02	99.0	
Long Island Power Authority	Holtsville 01		K	23690	Holtsville	103	36	1974-07-01	56.7	56.7	72.1	56.3	66.1		JE	F02		2.4	
Long Island Power Authority	Holtsville 02		K	23691	Holtsville	103	36	1974-07-01	56.7	55.3	70.3	55.0	65.7		JE	F02		2.5	
Long Island Power Authority	Holtsville 03		K	23692	Holtsville	103	36	1974-07-01	56.7	52.1	66.3	50.2	63.1		JE	F02		2.6	
Long Island Power Authority	Holtsville 04		K	23693	Holtsville	103	36	1974-07-01	56.7	52.7	67.0	54.1	67.3		JE	F02		1.2	
Long Island Power Authority	Holtsville 05		K	23694	Holtsville	103	36	1974-07-01	56.7	55.3	70.3	52.8	61.9		JE	F02		1.7	
Long Island Power Authority	Holtsville 06		K	23695	Holtsville	103	36	1975-07-01	56.7	53.0	67.4	49.8	66.7		JE	F02		7.1	
Long Island Power Authority	Holtsville 07		K	23696	Holtsville	103	36	1975-07-01	56.7	55.1	70.1	51.6	62.9		JE	F02		1.1	
Long Island Power Authority	Holtsville 08		K	23697	Holtsville	103	36	1975-07-01	56.7	57.4	73.0	48.6	64.5		JE	F02		1.6	
Long Island Power Authority	Holtsville 09		K	23698	Holtsville	103	36	1975-07-01	56.7	57.5	73.1	57.2	65.0		JE	F02		3.9	
Long Island Power Authority	Holtsville 10		K	23699	Holtsville	103	36	1975-07-01	56.7	55.1	70.1	50.3	63.3		JE	F02		5.7	
Long Island Power Authority	Shoreham 1		K	23715	Shoreham	103	36	1971-07-01	52.9	48.9	63.9	41.3	61.4		GT	F02		0.3	
Long Island Power Authority	Shoreham 2		K	23716	Shoreham	103	36	1984-04-01	18.6	18.5	23.5	16.5	20.3		JE	F02		0.5	
Long Island Power Authority	Shoreham GT3		K	24213	Shoreham	103	36	2002-08-01	50.0	45.4	45.4	42.8	45.8		GT	F02		10.2	
Long Island Power Authority	Shoreham GT4		K	24214	Shoreham	103	36	2002-08-01	50.0	43.9	43.9	43.1	45.8		GT	F02		10.4	
Long Island Power Authority	East Hampton GT 01		K	23717	E Hampton	103	36	1970-12-01	21.3	19.2	24.4	18.5	24.0		JE	F02		12.7	
Long Island Power Authority	East Hampton 2		K	23722	E Hampton	103	36	1962-12-01	2.0	2.0	2.0	1.9	2.0		IC	F02		0.4	
Long Island Power Authority	East Hampton 3		K	23722	E Hampton	103	36	1962-12-01	2.0	2.0	2.0	1.9	2.0		IC	F02		0.3	
Long Island Power Authority	East Hampton 4		K	23722	E Hampton	103	36	1962-12-01	2.0	2.0	2.0	1.9	2.0		IC	F02		1.4	
Long Island Power Authority	Southold 1		K	23719	Southold	103	36	1964-08-01	14.0	12.3	16.1	9.4	13.1		GT	F02		0.8	
Long Island Power Authority	S Hampton 1		K	23720	South Hampton	103	36	1963-03-01	11.5	10.3	13.5	8.6	10.9		GT	F02		0.2	
Tenaska Power Services Co.	Freeport CT 1		K	23764	Freeport	059	36	2004-06-01	60.0	48.3	51.3	45.4	47.7	YES	GT	NG	F02	63.7	
Freeport Electric	Freeport CT 2		K	23818	Freeport	059	36	2004-03-01	50.0	50.3	50.3	40.0	40.0	YES	GT	NG	KER	52.2	
New York Power Authority	Flynn		K	23794	Holtsville	103	36	1994-05-01	170.0	135.5	168.4	139.0	160.0	YES	CC	NG	F02	671.0	
Long Island Power Authority	Greenport GT1		K	23814	Greenport	103	36	2003-07-02	54.0	51.9	52.4	52.6	55.6		JE	F02		30.5	

Table III-2a: NYISO Market Generators (cont'd)

Owner, Operator, and / or Billing Organization	Station	Unit	Zone	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(D) MW	2023 CRIS ^(A) MW		2023 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(J)		2022 Net Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
Long Island Power Authority	Far Rockaway	GT1	K	24212	Far Rockaway	081	36	2002-07-01	60.5	53.5	73.1	52.8	60.1		JE	NG		48.0	
Long Island Power Authority	Far Rockaway	GT2	K	23815	Jamaica Bay	081	36	2003-07-02	60.5	55.4	75.7	55.8	60.6	YES	JE	NG	F02	67.3	
Calpine Energy Services LP	Bethpage		K	23823	Hicksville	059	36	1989-09-01	83.6	54.9	55.1	23.2	28.5	YES	CC	NG	F02	180.0	
Long Island Power Authority	Bethpage	3	K	323564	Hicksville	059	36	2005-05-01	96.0	79.9	91.4	74.8	77.7		CC	NG		73.4	
Calpine Energy Services LP	Bethpage	GT4	K	323586	Hicksville	059	36	2002-07-01	60.0	48.2	51.2	44.4	47.3		GT	NG		185.7	
Calpine Energy Services LP	Stony Brook	(BTM:NG)	K	24151	Stony Brook	103	36	1995-04-01	47.0	0.0	0.0	0.0	0.0	YES	GT	NG	F02	281.8	(28)(E)
New York Power Authority	Brentwood		K	24164	Brentwood	103	36	2001-08-01	47.0	47.1	47.1	45.5	46.0		GT	NG		69.1	
Long Island Power Authority	Pilgrim	GT1	K	24216	Brentwood	103	36	2002-08-01	50.0	45.6	45.6	41.5	45.4		GT	NG		74.7	
Long Island Power Authority	Pilgrim	GT2	K	24217	Brentwood	103	36	2002-08-01	50.0	46.2	46.2	41.7	44.2		GT	NG		82.3	
Long Island Power Authority	Pinelawn	Power 1	K	323563	Babylon	103	36	2005-06-01	82.0	78.0	78.0	73.0	78.2	YES	CC	NG	KER	168.4	
Long Island Power Authority	Caithness	CC_1	K	323624	Brookhaven	103	36	2009-08-01	375.0	315.6	389.8	302.4	362.7	YES	CC	NG	F02	2,327.2	
Long Island Power Authority	Islip	(RR)	K	323679	Ronkonkoma	103	36	1990-03-01	12.5	11.2	11.2	8.0	8.3		ST	REF		52.9	
Long Island Power Authority	Long Island Solar Farm		K	323691	Upton	103	36	2011-11-01	31.5	31.5	31.5	31.5	31.5		PV	SUN		49.9	
Long Island Power Authority	Calverton Solar		K	323806	Riverhead	103	36	2022-06-02	22.9	22.9	22.9	22.9	22.9		PV	SUN		22.6	(1)(N)
ENGIE Energy Marketing NA, Inc.	Nassau Energy Corporation		K	323695	Garden City	059	36	1991-03-01	55.0	51.6	60.1	0.0	0.0	YES	CC	NG	F02	87.3	(10)(R)
Long Island Power Authority	Babylon	(RR)	K	323704	Babylon	103	36	1989-04-01	17.0	15.5	15.5	16.0	15.8		ST	REF		113.7	
Long Island Power Authority	Huntington	(RR)	K	323705	Huntington	103	36	1991-12-01	28.0	24.7	24.7	24.5	24.5		ST	REF		194.7	
Table III-2a - NYISO Market Totals:									42,722.5	39,202.0	42,262.8	37,177.9	39,782.9					124,418.7	

Table III-2b: Non-Market Generators

Owner, Operator, and / or Billing Organization	Station	Unit	Zone	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(D) MW	2023 CRIS ^(A) MW		2023 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(J)		2022 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
Niagara Mohawk Power Corp.	Allied Frozen Storage		A	23774	Cheektowaga	029	36	2008-05-01	0.1	0.0	0.0	0.0	0.0	IC	NG		0.0		
Niagara Mohawk Power Corp.	Burt Dam Hydro		A	23774	Burt	063	36	1987-12-01	0.6	0.0	0.0	0.0	0.0	HY	WAT		0.0		
Niagara Mohawk Power Corp.	Cal Ban Power		A	23774	Allegany	003	36	1995-06-01	0.1	0.0	0.0	0.0	0.0	IC	NG		0.0		
Niagara Mohawk Power Corp.	Hydrocarbon-Algny		A	23774	Allegany	003	36	1992-12-01	0.2	0.0	0.0	0.0	0.0	IC	NG		0.0		
Niagara Mohawk Power Corp.	Laidlaw Energy		A	23774	Ellicottville	009	36	1991-07-01	3.4	0.0	0.0	0.0	0.0	GT	NG		0.0		
Niagara Mohawk Power Corp.	Laidlaw Energy		A	23774	Ellicottville	009	36	1991-07-01	2.4	0.0	0.0	0.0	0.0	ST	NG		0.0		
Niagara Mohawk Power Corp.	Sustainable Bioelectric LLC		A	23774	Wheatfield	063	36	2014-03-01	0.6	0.0	0.0	0.0	0.0	IC	MTE		4.6		
Niagara Mohawk Power Corp.	General Mills Inc		A	23808	Buffalo	029	36	1988-12-01	3.8	0.0	0.0	0.0	0.0	GT	NG		0.0		
Rochester Gas and Electric Corp.	Mills Mills		B	5059	Fillmore	003	36	1906-07-01	0.2	0.0	0.0	0.0	0.0	HY	WAT		0.0		
Rochester Gas and Electric Corp.	Mt Morris		B	5060	Mt Morris	051	36	1916-07-01	0.3	0.0	0.0	0.0	0.0	HY	WAT		0.0		
Niagara Mohawk Power Corp.	United States Gypsum		B	23774	Batavia	037	36	2009-11-01	5.8	0.0	0.0	0.0	0.0	CG	NG		2.0		
New York State Elec. & Gas Corp.	AA Dairy		C	5013	Ithaca	109	36	1998-06-01	0.1	0.0	0.0	0.0	0.0	IC	MTE		0.0		
New York State Elec. & Gas Corp.	Auburn - Mill St.		C	5014	Auburn	011	36	1981-10-01	0.4	0.0	0.0	0.0	0.0	HY	WAT		0.0		
New York State Elec. & Gas Corp.	Auburn - No. Div.St		C	5015	Auburn	011	36	1992-12-01	0.8	0.0	0.0	0.0	0.0	HY	WAT		0.0		
New York State Elec. & Gas Corp.	Montville Falls		C	5019	Moravia	011	36	1992-08-01	0.2	0.0	0.0	0.0	0.0	HY	WAT		0.0		
New York State Elec. & Gas Corp.	Waterloo 2		C	5020	Waterloo	099	36	1998-06-01	0.5	0.0	0.0	0.0	0.0	HY	WAT		0.0		
New York State Elec. & Gas Corp.	Waterloo 3		C	5021	Waterloo	099	36	1998-06-01	0.5	0.0	0.0	0.0	0.0	HY	WAT		0.0		
New York State Elec. & Gas Corp.	Waterloo 4		C	5022	Waterloo	099	36	1998-06-01	0.5	0.0	0.0	0.0	0.0	HY	WAT		0.0		
NRG Power Marketing LLC	Oswego IC 1		C	5052	Oswego	075	36	1967-08-01	0.7	0.0	0.0	0.0	0.0	IC	F02		0.0		
NRG Power Marketing LLC	Oswego IC 2		C	5053	Oswego	075	36	1976-02-01	0.8	0.0	0.0	0.0	0.0	IC	F02		0.0		
NRG Power Marketing LLC	Oswego IC 3		C	5054	Oswego	075	36	1980-07-01	0.8	0.0	0.0	0.0	0.0	IC	F02		0.0		
New York State Elec. & Gas Corp.	Seneca Falls 1		C	23627	Seneca Falls	099	36	1998-06-01	1.8	0.0	0.0	0.0	0.0	HY	WAT		0.0		
New York State Elec. & Gas Corp.	Seneca Falls 2		C	23627	Seneca Falls	099	36	1998-06-01	1.8	0.0	0.0	0.0	0.0	HY	WAT		0.0		
New York State Elec. & Gas Corp.	Seneca Falls 4		C	23627	Seneca Falls	099	36	1998-06-01	2.0	0.0	0.0	0.0	0.0	HY	WAT		0.0		
Niagara Mohawk Power Corp.	City of Oswego (High Dam)		C	23634	Oswego	075	36	1994-02-01	11.9	0.0	0.0	0.0	0.0	HY	WAT		0.0		
Niagara Mohawk Power Corp.	Nottingham High School		C	23634	Syracuse	067	36	1988-06-01	0.2	0.0	0.0	0.0	0.0	CG	NG		0.0		
Niagara Mohawk Power Corp.	Onondaga Energy Partners		C	23634	Onondaga	067	36	1987-12-01	1.4	0.0	0.0	0.0	0.0	IC	MTE		0.0		
Niagara Mohawk Power Corp.	Oswego County		C	23634	Oswego	075	36	1986-03-01	3.6	0.0	0.0	0.0	0.0	ST	REF		2.7		
Niagara Mohawk Power Corp.	Oswego Hydro Partners LP (Phoenix)		C	23634	Phoenix	075	36	1990-12-01	3.4	0.0	0.0	0.0	0.0	HY	WAT		9.7		
Niagara Mohawk Power Corp.	Seneca Limited		C	23634	Syracuse	067	36	1985-12-01	0.2	0.0	0.0	0.0	0.0	HY	WAT		0.0		
Niagara Mohawk Power Corp.	Wave Hydro LLC		C	23634	Baldwinsville	067	36	2010-02-07	0.8	0.0	0.0	0.0	0.0	HY	WAT		0.0		
Niagara Mohawk Power Corp.	Onondaga County		C	23987	North Syracuse	067	36	1994-12-01	39.5	0.0	0.0	0.0	0.0	ST	REF		231.1		
New York State Elec. & Gas Corp.	Chasm Falls Hydro		D	5016	Chateaugay	033	36	1982-03-01	1.6	0.0	0.0	0.0	0.0	HY	WAT		0.0		
New York State Elec. & Gas Corp.	Harris Lake		D	5018	Newcomb	031	36	1967-08-01	1.7	0.0	0.0	0.0	0.0	IC	F02		0.0		
New York State Elec. & Gas Corp.	Lower Saranac 1		D	23913	Schuyler Falls	019	36	1990-10-01	3.2	0.0	0.0	0.0	0.0	HY	WAT		0.0		
New York State Elec. & Gas Corp.	Lower Saranac 2		D	23913	Schuyler Falls	019	36	1990-10-01	3.2	0.0	0.0	0.0	0.0	HY	WAT		0.0		
New York State Elec. & Gas Corp.	Lower Saranac 3		D	23913	Schuyler Falls	019	36	1990-10-01	0.3	0.0	0.0	0.0	0.0	HY	WAT		0.0		

Table III-2b: Non-Market Generators (cont'd)

Owner, Operator, and / or Billing Organization	Station	Unit	Zone	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(D) MW	2023 CRIS ^(A) MW		2023 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(U)		2022 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
New York State Elec. & Gas Corp.	Alice Falls 1		D	23915	Ausable	019	36	1991-11-01	1.5	0.0	0.0	0.0	0.0	HY	WAT		0.0		
New York State Elec. & Gas Corp.	Alice Falls 2		D	23915	Ausable	019	36	1991-11-01	0.6	0.0	0.0	0.0	0.0	HY	WAT		0.0		
Niagara Mohawk Power Corp.	Azure Mountain		D	24055	St. Regis Falls	033	36	1993-08-01	0.6	0.0	0.0	0.0	0.0	HY	WAT		0.0		
Niagara Mohawk Power Corp.	Bellows Towers		D	24055	Malone	033	36	1987-06-01	0.2	0.0	0.0	0.0	0.0	HY	WAT		0.0		
Niagara Mohawk Power Corp.	Franklin Hydro		D	24055	Franklin Falls	033	36	1995-03-01	0.3	0.0	0.0	0.0	0.0	HY	WAT		0.0		
Niagara Mohawk Power Corp.	Oakvale Construction		D	24055	Wilmington	031	36	2009-11-01	0.4	0.0	0.0	0.0	0.0	HY	WAT		1.7		
Niagara Mohawk Power Corp.	Synergics - Union Falls		D	24055	Union Falls	019	36	1987-12-01	3.0	0.0	0.0	0.0	0.0	HY	WAT		6.2		
Niagara Mohawk Power Corp.	Village of Saranac Lake		D	24055	Saranac Lake	033	36	1996-12-01	0.2	0.0	0.0	0.0	0.0	HY	WAT		0.0		
Niagara Mohawk Power Corp.	Fortis Energy - Philadelphia		E	1656	Philadelphia	045	36	1986-08-01	3.6	0.0	0.0	0.0	0.0	HY	WAT		0.7		
Niagara Mohawk Power Corp.	Adams Hydro		E	23633	Adams	045	36	1987-11-01	0.2	0.0	0.0	0.0	0.0	HY	WAT		0.0		
Niagara Mohawk Power Corp.	Algon.-Herkimer		E	23633	Herkimer	043	36	1987-12-01	1.6	0.0	0.0	0.0	0.0	HY	WAT		0.0		
Niagara Mohawk Power Corp.	Algon.-Otter Creek		E	23633	Greig	049	36	1986-11-01	0.5	0.0	0.0	0.0	0.0	HY	WAT		0.0		
Niagara Mohawk Power Corp.	Beaver Falls #1		E	23633	Beaver Falls	049	36	1986-01-01	1.5	0.0	0.0	0.0	0.0	HY	WAT		4.6		
Niagara Mohawk Power Corp.	Beaver Falls #2		E	23633	Beaver Falls	049	36	1986-01-01	1.0	0.0	0.0	0.0	0.0	HY	WAT		9.2		
Niagara Mohawk Power Corp.	Black River Hyd#1 - Rock Isl.		E	23633	Port Leyden	049	36	1984-07-01	1.9	0.0	0.0	0.0	0.0	HY	WAT		5.6		
Niagara Mohawk Power Corp.	Black River Hyd#2 - Denley		E	23633	Port Leyden	049	36	1985-12-01	1.6	0.0	0.0	0.0	0.0	HY	WAT		0.0		
Niagara Mohawk Power Corp.	Black River Hyd#3 - Pt. Leyden		E	23633	Port Leyden	049	36	1984-07-01	2.2	0.0	0.0	0.0	0.0	HY	WAT		4.4		
Niagara Mohawk Power Corp.	Burrstone Engy Center, LLC LU		E	23633	Utica	065	36	2009-11-01	1.1	0.0	0.0	0.0	0.0	IC	NG		1.0		
Niagara Mohawk Power Corp.	Burrstone Engy Center, LLC U		E	23633	Utica	065	36	2009-11-01	2.2	0.0	0.0	0.0	0.0	IC	NG		0.1		
Niagara Mohawk Power Corp.	C.H.I. (Dexter) Hydro		E	23633	Dexter	045	36	1988-01-01	4.2	0.0	0.0	0.0	0.0	HY	WAT		3.7		
Niagara Mohawk Power Corp.	C.H.I. (Diamond Is)		E	23633	Watertown	045	36	1986-01-01	1.2	0.0	0.0	0.0	0.0	HY	WAT		4.2		
Niagara Mohawk Power Corp.	C.H.I. (Fowler)		E	23633	Fowler	049	36	1986-01-01	0.6	0.0	0.0	0.0	0.0	HY	WAT		3.8		
Niagara Mohawk Power Corp.	C.H.I. (Hailsboro #3)		E	23633	Hailsboro	089	36	1986-01-01	0.8	0.9	0.9	0.0	0.0	HY	WAT		4.3		
Niagara Mohawk Power Corp.	C.H.I. (Hailsboro #4)		E	23633	Hailsboro	089	36	1986-01-01	1.4	0.9	0.8	0.0	0.0	HY	WAT		11.4		
Niagara Mohawk Power Corp.	C.H.I. (Hailsboro #6)		E	23633	Hailsboro	089	36	1986-01-01	0.8	1.0	1.0	0.0	0.0	HY	WAT		4.4		
Niagara Mohawk Power Corp.	C.H.I. (Theresa)		E	23633	Theresa	089	36	1986-01-01	1.3	0.0	0.0	0.0	0.0	HY	WAT		0.5		
Niagara Mohawk Power Corp.	Cellu-Tissue Corp - Natural Dam		E	23633	Gouverneur	089	36	1986-01-01	1.0	0.0	0.0	0.0	0.0	HY	WAT		0.0		
Niagara Mohawk Power Corp.	City of Utica - Sand Road		E	23633	Utica	065	36	1993-05-01	0.2	0.0	0.0	0.0	0.0	HY	WAT		1.6		
Niagara Mohawk Power Corp.	City of Utica -Trenton Falls		E	23633	Utica	065	36	1993-02-01	0.2	0.0	0.0	0.0	0.0	HY	WAT		0.5		
Niagara Mohawk Power Corp.	City of Watertown		E	23633	Watertown	045	36	1986-01-01	8.1	0.0	0.0	0.0	0.0	HY	WAT		11.7		
Niagara Mohawk Power Corp.	Copenhagen Assoc.		E	23633	Copenhagen	049	36	1986-01-01	3.3	0.0	0.0	0.0	0.0	HY	WAT		7.0		
Niagara Mohawk Power Corp.	Cranberry Lake		E	23633	Cranberry Lake	049	36	1987-12-01	0.5	0.0	0.0	0.0	0.0	HY	WAT		0.0		
Niagara Mohawk Power Corp.	Empire Hydro Partners		E	23633	Port Leyden	049	36	1984-11-01	1.0	0.0	0.0	0.0	0.0	HY	WAT		4.5		
Niagara Mohawk Power Corp.	Forestport Hydro		E	23633	Forestport	065	36	1987-12-01	3.4	0.0	0.0	0.0	0.0	HY	WAT		7.6		
Niagara Mohawk Power Corp.	Fortis Energy - Diana		E	23633	Diana	049	36	1985-07-01	1.8	0.0	0.0	0.0	0.0	HY	WAT		6.2		
Niagara Mohawk Power Corp.	Hewittville Hydro		E	23633	Potsdam	089	36	1984-07-01	3.0	0.0	0.0	0.0	0.0	HY	WAT		14.4		
Niagara Mohawk Power Corp.	Hollow Dam Power		E	23633	Saint Lawrence	089	36	1987-12-01	1.0	0.0	0.0	0.0	0.0	HY	WAT		2.9		
Niagara Mohawk Power Corp.	Indian Falls HY		E	23633	Theresa	045	36	1986-01-01	0.3	0.0	0.0	0.0	0.0	HY	WAT		0.0		

Table III-2b: Non-Market Generators (cont'd)

Owner, Operator, and / or Billing Organization	Station	Unit	Zone	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(D) MW	2023 CRIS ^(A) MW		2023 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(U)		2022 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
					Niagara Mohawk Power Corp.	Kayuta Lake		E	23633	Kayuta	065	36	1988-05-01	0.4	0.0	0.0	0.0	0.0	HY
Niagara Mohawk Power Corp.	Kings Falls		E	23633	Copenhagen	049	36	1988-05-01	1.6	0.0	0.0	0.0	0.0	HY	WAT			0.0	
Niagara Mohawk Power Corp.	Long Falls Hydro		E	23633	Carthage	045	36	1991-06-01	3.3	0.0	0.0	0.0	0.0	HY	WAT			0.0	
Niagara Mohawk Power Corp.	Lyonsdale Assoc. (Burrows)		E	23633	Lyons Falls	049	36	1984-07-01	3.0	0.0	0.0	0.0	0.0	HY	WAT			12.3	
Niagara Mohawk Power Corp.	Newport Hydro Assoc.		E	23633	Newport	043	36	1987-12-01	1.7	0.0	0.0	0.0	0.0	HY	WAT			5.6	
Niagara Mohawk Power Corp.	Northbrook Carthage		E	23633	Carthage	045	36	1986-01-01	4.4	0.0	0.0	0.0	0.0	HY	WAT			17.2	
Niagara Mohawk Power Corp.	Ogdensburg Hydro		E	23633	Ogdensburg	089	36	1987-12-01	3.5	0.0	0.0	0.0	0.0	HY	WAT			6.9	
Niagara Mohawk Power Corp.	Sandy Hollow Hydro Assoc.		E	23633	Philadelphia	045	36	1986-09-01	0.6	0.0	0.0	0.0	0.0	HY	WAT			0.0	
Niagara Mohawk Power Corp.	St. Elizabeth Medical Center		E	23633	Utica	065	36	2012-02-01	0.6	0.0	0.0	0.0	0.0	IC	NG			0.0	
Niagara Mohawk Power Corp.	Stillwater Assoc.		E	23633	Webb	043	36	1987-01-01	1.8	0.0	0.0	0.0	0.0	HY	WAT			6.5	
Niagara Mohawk Power Corp.	Tannery Island		E	23633	Carthage	045	36	1986-01-01	1.5	0.0	0.0	0.0	0.0	HY	WAT			5.4	
Niagara Mohawk Power Corp.	Unionville Hydro		E	23633	Potsdam	089	36	1984-07-01	3.0	0.0	0.0	0.0	0.0	HY	WAT			13.4	
Niagara Mohawk Power Corp.	Village of Gouverneur		E	23633	Gouverneur	089	36	1986-01-01	0.1	0.0	0.0	0.0	0.0	HY	WAT			0.0	
Niagara Mohawk Power Corp.	Village of Potsdam		E	23633	Potsdam	089	36	1986-01-01	0.8	0.0	0.0	0.0	0.0	HY	WAT			0.0	
Niagara Mohawk Power Corp.	Village of Potsdam 2		E	23633	Potsdam	089	36	2014-04-01	0.5	0.0	0.0	0.0	0.0	HY	WAT			0.0	
Boralex Hydro Operations Inc	Sissonville		E	23735	Potsdam	089	36	1990-08-01	3.1	3.0	3.0	0.0	0.0	HY	WAT			0.0	
ReEnergy Black River LLC	Fort Drum		E	23780	Watertown	045	36	2013-05-30	55.5	0.0	0.0	0.0	0.0	ST	WD			0.0	
Niagara Mohawk Power Corp.	Fortis - Dolgeville		E	23807	Dolgeville	043	36	1985-07-01	5.0	0.0	0.0	0.0	0.0	HY	WAT			10.3	
Niagara Mohawk Power Corp.	Little Falls Hydro		E	24013	Little Falls	043	36	1987-01-01	13.0	0.0	0.0	0.0	0.0	HY	WAT			0.0	
Niagara Mohawk Power Corp.	Fortis Energy - Moose River		E	24016	Lyonsdale	049	36	1987-09-01	12.6	0.0	0.0	0.0	0.0	HY	WAT			46.4	
Niagara Mohawk Power Corp.	Pyrites Assoc.		E	24023	Canton	089	36	1985-12-01	8.2	0.0	0.0	0.0	0.0	HY	WAT			28.6	
CHI Energy Inc	Goodyear Lake		E	323669	Milford	077	36	1980-07-01	1.4	0.0	0.0	0.0	0.0	HY	WAT			0.0	
Niagara Mohawk Power Corp.	International Paper - Curtis		F	1655	Corinth	091	36	1986-01-01	9.8	0.0	0.0	0.0	0.0	HY	WAT			294.8	(G)
Niagara Mohawk Power Corp.	International Paper - Palmer		F	1655	Corinth	091	36	1986-01-01	49.2	0.0	0.0	0.0	0.0	HY	WAT				
Niagara Mohawk Power Corp.	Boralex - Middle Falls		F	23643	Easton	115	36	1989-12-01	2.2	0.0	0.0	0.0	0.0	HY	WAT			10.9	
Niagara Mohawk Power Corp.	Champlain Spinner		F	23643	Whitehall	031	36	1992-07-01	0.4	0.0	0.0	0.0	0.0	HY	WAT			0.5	
Niagara Mohawk Power Corp.	Chittenden Falls		F	23643	Stuyvesant	021	36	1995-12-01	0.6	0.0	0.0	0.0	0.0	HY	WAT			0.0	
Niagara Mohawk Power Corp.	Christine Falls Hydro		F	23643	Wells	041	36	1987-12-01	0.9	0.0	0.0	0.0	0.0	HY	WAT			0.0	
Niagara Mohawk Power Corp.	City of Watervliet Hydro		F	23643	Guilderland	001	36	1986-01-01	1.5	0.0	0.0	0.0	0.0	HY	WAT			1.4	
Niagara Mohawk Power Corp.	Cons. HY-Victory		F	23643	Victory Falls	091	36	1986-12-01	1.7	0.0	0.0	0.0	0.0	HY	WAT			4.0	
Niagara Mohawk Power Corp.	Cottrell Paper		F	23643	Rock City Falls	091	36	1987-01-01	0.3	0.0	0.0	0.0	0.0	HY	WAT			0.0	
Niagara Mohawk Power Corp.	Edison Hydro Electric		F	23643	Stottville	021	36	2009-11-01	0.3	0.0	0.0	0.0	0.0	HY	WAT			0.8	
Niagara Mohawk Power Corp.	Finch Paper LLC - Glens Falls		F	23643	Glens Falls	113	36	2009-11-01	11.8	0.0	0.0	0.0	0.0	HY	WAT			0.0	
Niagara Mohawk Power Corp.	Finch Pruyn		F	23643	Glens Falls	113	36	1989-12-01	29.0	0.0	0.0	0.0	0.0	HY	WAT			0.0	
Niagara Mohawk Power Corp.	Fort Miller Assoc (Hudson River)		F	23643	Schuylerville	091	36	1985-10-01	5.0	0.0	0.0	0.0	0.0	HY	WAT			18.7	
Niagara Mohawk Power Corp.	Gloversville Johnstown WWT		F	23643	Gloversville	035	36	2010-01-01	0.7	0.0	0.0	0.0	0.0	IC	MTE			1.5	
Niagara Mohawk Power Corp.	Green Island Power Authority		F	23643	Green Island	001	36	1971-01-01	6.0	0.0	0.0	0.0	0.0	HY	WAT			38.8	

Table III-2b: Non-Market Generators (cont'd)

Owner, Operator, and / or Billing Organization	Station	Unit	Zone	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(D) MW	2023 CRIS ^(A) MW		2023 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(U)		2022 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
Niagara Mohawk Power Corp.	Hollings&Vose-Center		F	23643	Easton	115	36	1986-01-01	0.4	0.0	0.0	0.0	0.0	HY	WAT			0.2	
Niagara Mohawk Power Corp.	Hollings&Vose-Lower		F	23643	Easton	115	36	1986-01-01	0.4	0.0	0.0	0.0	0.0	HY	WAT			0.0	
Niagara Mohawk Power Corp.	Hollings&Vose-Upper		F	23643	Easton	115	36	1986-01-01	0.4	0.0	0.0	0.0	0.0	HY	WAT			0.0	
Niagara Mohawk Power Corp.	Hoosick Falls		F	23643	Hoosick Falls	083	36	1988-08-01	0.6	0.0	0.0	0.0	0.0	HY	WAT			0.0	
Niagara Mohawk Power Corp.	Mechanicville		F	23643	Halfmoon	091	36	2005-03-01	3.8	0.0	0.0	0.0	0.0	HY	WAT			20.1	
Niagara Mohawk Power Corp.	Mount Ida Hydro		F	23643	Troy	083	36	1986-01-01	3.0	0.0	0.0	0.0	0.0	HY	WAT			5.4	
Niagara Mohawk Power Corp.	Mountaineer Massage Spa		F	23643	Wevertown	113	36	2009-11-01	0.0	0.0	0.0	0.0	0.0	HY	WAT			0.0	
Niagara Mohawk Power Corp.	Riverrat Glass & Electric		F	23643	Wadhams	031	36	1986-01-01	0.6	0.0	0.0	0.0	0.0	HY	WAT			0.0	
Niagara Mohawk Power Corp.	Stillwater Hydro Partners LP		F	23643	Stillwater	091	36	1993-04-01	3.4	0.0	0.0	0.0	0.0	HY	WAT			12.8	
Niagara Mohawk Power Corp.	Stuyvesant Falls Hydro		F	23643	Stuyvesant	021	36	2013-02-01	7.0	0.0	0.0	0.0	0.0	HY	WAT			13.9	
Niagara Mohawk Power Corp.	Synergics - Middle Greenwich		F	23643	Greenwich	115	36	1987-12-01	0.2	0.0	0.0	0.0	0.0	HY	WAT			0.0	
Niagara Mohawk Power Corp.	Synergics - Upper Greenwich		F	23643	Greenwich	115	36	1987-12-01	0.4	0.0	0.0	0.0	0.0	HY	WAT			0.0	
Niagara Mohawk Power Corp.	Town of Wells (Lake Algonquin)		F	23643	Wells	041	36	1987-12-01	0.5	0.0	0.0	0.0	0.0	HY	WAT			1.1	
Niagara Mohawk Power Corp.	Tri-City JATC		F	23643	Latham	001	36	2009-11-01	0.0	0.0	0.0	0.0	0.0	IC	NG			0.0	
Niagara Mohawk Power Corp.	Valatie Falls		F	23643	Valatie	021	36	1992-12-01	0.1	0.0	0.0	0.0	0.0	HY	WAT			0.5	
Niagara Mohawk Power Corp.	Valley Falls Assoc.		F	23643	Valley Falls	083	36	1985-08-01	2.5	0.0	0.0	0.0	0.0	HY	WAT			5.8	
Niagara Mohawk Power Corp.	Boralex - Hudson Falls		F	24011	Hudson Falls	115	36	1995-10-01	44.0	0.0	0.0	0.0	0.0	HY	WAT			186.5	
Niagara Mohawk Power Corp.	Boralex - South Glens Falls		F	24028	Moreau	091	36	1994-12-01	13.8	0.0	0.0	0.0	0.0	HY	WAT			72.8	
Erie Blvd. Hydro - Upper Hudson	Sherman Island 1		F	24058	Queensbury	113	36	2009-03-01	8.0	0.0	0.0	0.0	0.0	HY	WAT			28.4	
Erie Blvd. Hydro - Upper Hudson	Sherman Island 6		F	24058	Queensbury	113	36	2009-02-02	1.3	0.0	0.0	0.0	0.0	HY	WAT			9.4	
Erie Blvd. Hydro - Upper Hudson	Stewarts Bridge 2		F	24058	Hadley	091	36	2013-06-01	2.5	0.0	0.0	0.0	0.0	HY	WAT			19.7	
Erie Blvd. Hydro - Lower Hudson	Schuylerville		F	24059	Schuylerville	091	36	1919-01-01	1.2	0.0	0.0	0.0	0.0	HY	WAT				
Central Hudson Gas & Electric Corp.	Millpond		G	5004	Catskill	039	36	1993-12-01	0.9	0.0	0.0	0.0	0.0	HY	WAT			0.0	
Central Hudson Gas & Electric Corp.	Montgomery West		G	5005	Montgomery	071	36	1985-11-01	0.2	0.0	0.0	0.0	0.0	HY	WAT			0.0	
Central Hudson Gas & Electric Corp.	Salisbury Mills		G	5006	Salisbury Mills	071	36	1986-12-01	0.5	0.0	0.0	0.0	0.0	HY	WAT			0.0	
Central Hudson Gas & Electric Corp.	Walkkill		G	5007	Shwangunk	111	36	1986-12-01	0.5	0.0	0.0	0.0	0.0	HY	WAT			0.0	
Orange and Rockland Utilities	Buttermilk Falls		G	5055	Highland Falls	071	36	1986-12-01	0.1	0.0	0.0	0.0	0.0	HY	WAT			0.0	
Orange and Rockland Utilities	Intl. Crossroads		G	5056	Mahwah NJ	003	34	1987-12-01	3.0	0.0	0.0	0.0	0.0	YES	IC	NG	FO2	0.0	
Orange and Rockland Utilities	Landfill G.Part19		G	5057	Goshen	071	36	1988-12-01	2.5	0.0	0.0	0.0	0.0	IC	MTE			0.0	
Orange and Rockland Utilities	Middletown LFG		G	5058	Goshen	071	36	1988-12-01	3.0	0.0	0.0	0.0	0.0	IC	MTE			0.0	
Central Hudson Gas & Electric Corp.	Sturgeon 1		G	23609	Rifton	111	36	1924-01-01	4.8	0.0	0.0	0.0	0.0	HY	WAT			0.0	
Central Hudson Gas & Electric Corp.	Sturgeon 2		G	23609	Rifton	111	36	1924-01-01	4.8	0.0	0.0	0.0	0.0	HY	WAT			0.0	
Central Hudson Gas & Electric Corp.	Sturgeon 3		G	23609	Rifton	111	36	1924-01-01	4.8	0.0	0.0	0.0	0.0	HY	WAT			0.0	
Central Hudson Gas & Electric Corp.	Dashville 1		G	23610	Rifton	111	36	1920-01-01	2.4	0.0	0.0	0.0	0.0	HY	WAT			0.0	
Central Hudson Gas & Electric Corp.	Dashville 2		G	23610	Rifton	111	36	1920-01-01	2.4	0.0	0.0	0.0	0.0	HY	WAT			0.0	
Central Hudson Gas & Electric Corp.	High Falls		G	23754	Marbletown	111	36	1986-12-01	3.2	0.0	0.0	0.0	0.0	HY	WAT			0.0	
Consolidated Hydro New York, Inc.	Groveville Hydro		G	323602	Beacon	027	36	1983-12-01	0.9	0.0	0.0	0.0	0.0	HY	WAT			0.0	

Table III-2b: Non-Market Generators (cont'd)

Owner, Operator, and / or Billing Organization	Station	Unit	Zone	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(D) MW	2023 CRIS ^(A)		2023 Capability ^(B)		D U A L	Unit Type	Fuel ^(U)		2022 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
New York State Elec. & Gas Corp.	Croton Falls Hydro		I	5017	North Salem	119	36	1987-01-01	0.2	0.0	0.0	0.0	0.0	HY	WAT		0.0		
Long Island Power Authority	Oceanside (LF)		K	5008	Oceanside	059	36	1991-02-01	2.1	0.0	0.0	0.0	0.0	IC	MTE		0.0		
Long Island Power Authority	Oyster Bay (LF)		K	5009	Bethpage	059	36	1986-07-01	1.3	0.0	0.0	0.0	0.0	IC	MTE		0.0		
Long Island Power Authority	Smithtown (LF)		K	5010	Smithtown	103	36	1985-12-01	1.1	0.0	0.0	0.0	0.0	IC	MTE		0.0		
Long Island Power Authority	South Oaks Hosp		K	5011	Amityville	103	36	1990-06-01	1.0	0.0	0.0	0.0	0.0	IC	NG		0.0		
Long Island Power Authority	Yaphank (LF)		K	5012	Yaphank	103	36	1983-09-01	1.6	0.0	0.0	0.0	0.0	IC	MTE		0.0		
LI Energy Storage System, LLC	East Hampton Battery Storage		K	5066	East Hampton	103	36	2018-08-01	5.0	0.0	0.0	0.0	0.0	ES	BAT				
LI Energy Storage System, LLC	Montauk Battery Storage		K	5068	Montauk	103	36	2018-12-01	5.0	0.0	0.0	0.0	0.0	ES	BAT				
Shoreham Solar Commons LLC	Shoreham Solar		K	323752	East Shoreham	103	36	2018-07-01	25.0	0.0	0.0	0.0	0.0	PV	SUN		0.0		
Long Island Power Authority	West Babylon 4		K	23714	West Babylon	103	36	1971-08-01	52.4	49.0	64.0	0.0	0.0	GT	F02		-0.4		
Long Island Power Authority	Glenwood GT 01		K	23712	Glenwood	059	36	1967-04-01	16.0	14.6	19.1	0.0	0.0	GT	F02		-0.1		
Table III-2b - Non-Market Totals:									641.5	69.4	88.8	0.0	0.0				1,272.7		
Tables III-2a and III-2b Existing Generating Facilities Totals:									43,364.0	39,271.4	42,351.6	37,177.9	39,782.9				125,691.4		

Notes for Table III-2

Note	Owner / Operator	Station Unit	Zone	PTID	Description
1	Long Island Power Authority	Calverton Solar	K	323806	New generator
2	Galt Power Inc.	Puckett Solar	C	323809	New generator
3	Galt Power Inc.	Regan Solar	F	323812	New generator
4	Galt Power Inc.	Janis Solar	C	323808	New generator
5	New York Power Authority	North Country ESR	D	323785	New generator
6	Baron Winds, LLC	Baron Winds	C	323822	New generator (Part 1 Only)
7	NextEra Energy Marketing, LLC	Eight Point Wind	B	323820	New generator
8	Galt Power Inc.	Grissom Solar	F	323813	New generator
9	Exelon Generation Company, LLC	Madison County LF	E	323628	Unit became ICAP Ineligible on 04/01/2022
10	ENGIE Energy Marketing NA, Inc.	Nassau Energy Corporation	K	323695	Unit Retired on 07/15/2022
11	Consolidated Edison Co. of NY, Inc.	Hudson Ave 3	J	23810	Unit Retired on 11/01/2022
12	Consolidated Edison Co. of NY, Inc.	Hudson Ave 5	J	23657	Unit Retired on 11/01/2022
13	Astoria Generating Company L.P.	Gowanus 1-1	J	24077	Unit Retired on 11/01/2022
14	Astoria Generating Company L.P.	Gowanus 1-2	J	24078	Unit Retired on 11/01/2022
15	Astoria Generating Company L.P.	Gowanus 1-3	J	24079	Unit Retired on 11/01/2022
16	Astoria Generating Company L.P.	Gowanus 1-4	J	24080	Unit Retired on 11/01/2022
17	Astoria Generating Company L.P.	Gowanus 1-5	J	24084	Unit Retired on 11/01/2022
18	Astoria Generating Company L.P.	Gowanus 1-6	J	24111	Unit Retired on 11/01/2022
19	Astoria Generating Company L.P.	Gowanus 1-7	J	24112	Unit Retired on 11/01/2022
20	Astoria Generating Company L.P.	Gowanus 4-1	J	24130	Unit Retired on 11/01/2022
21	Astoria Generating Company L.P.	Gowanus 4-2	J	24131	Unit Retired on 11/01/2022
22	Astoria Generating Company L.P.	Gowanus 4-3	J	24132	Unit Retired on 11/01/2022
23	Astoria Generating Company L.P.	Gowanus 4-4	J	24133	Unit Retired on 11/01/2022
24	Astoria Generating Company L.P.	Gowanus 4-5	J	24134	Unit Retired on 11/01/2022
25	Astoria Generating Company L.P.	Gowanus 4-6	J	24135	Unit Retired on 11/01/2022
26	Astoria Generating Company L.P.	Gowanus 4-7	J	24136	Unit Retired on 11/01/2022
27	Astoria Generating Company L.P.	Gowanus 4-8	J	24137	Unit Retired on 11/01/2022

Notes for Table III-2 (cont'd)

Note	Owner / Operator	Station Unit	Zone	PTID	Description
28	Calpine Energy Services LP	Stony Brook	K	24151	Behind-the-Meter: Net Generation Resource
29	Emera Energy U.S. Sub. No. 1, Inc.	Greenidge 4	C	23583	Behind-the-Meter: Net Generation Resource
30	Northbrook Lyons Falls, LLC	Lyons Falls Hydro	E	23570	Behind-the-Meter: Net Generation Resource
31	RED-Rochester, LLC	Red Rochester	B	323720	Behind-the-Meter: Net Generation Resource
32	Calpine Energy Services LP	KIAC_JFK	J	323774	Behind-the-Meter: Net Generation Resource
33	Albany Energy LLC	Albany LFGE	F	323615	Return to Service 11/05/2022
A	Various	Generating Units	A-K	Various	Summer/Winter CRIS caps reflect capacity level of the unit that is deemed deliverable. See Definitions of Labels for the Load & Capacity Schedules (Section V) for description.
B	Various	Generating Units	A-K	Various	Summer Capability reflects DMNC values that are applicable to the Summer 2023 ICAP Market. Winter Capability reflects DMNC values that were applicable to the Winter 2022-2023 ICAP Market. DMNC stands for Dependable Maximum Net Generating Capability.
C	Various	Generating Units	A-K	Various	Net Energy from resources not directly participating in NYISO markets is obtained directly from the local TO.
D	Various	Generating Units	A-K	Various	Typically, Name Plate refers to a historical rating and may not reflect the most current value.
E	Various	Behind-the-Meter: Net Generation Resource	A-K	Various	Units that are Behind-the-Meter: Net Generation Resources for which Summer and Winter Capability values are Net-ICAP values.
G	Various	Generating Station	A-K	Various	Net Energy reflects Net Energy for the total Generation station's multiple units at the same Point of Interconnection.
I	Various	ICAP Ineligible Generator	A-K	Various	This unit is in an ICAP Ineligible Forced Outage (IIFO) as defined in the MST.
M	Various	Mothballed Generator	A-K	Various	This unit is mothballed or is in a Mothball Outage per MST Section 5.18.
N	Various	New Generator	A-K	Various	Unit(s) added since the publication of the 2023 Load and Capacity Data Report.
R	Various	Retired Generator	A-K	Various	This unit is retired or Retired as defined in the MST.
U	Various	Generating Units	A-K	Various	The fuel type selection is not meant to provide any information on current fuel inventories, nor does it indicate which of the fuels might be considered as primary.

Table III-3a: Existing Summer Capability by Zone and Type

Generator Type	ZONE											TOTAL	
	A	B	C	D	E	F	G	H	I	J	K		
Summer Capability Period (MW) ⁽²⁾													
Fossil	Steam Turbine (Oil)	0.0	0.0	798.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	798.1
	Steam Turbine (Oil & Gas)	41.9	12.5	823.4	0.0	0.0	0.0	2,462.1	0.0	0.0	2,802.8	2,274.1	8,416.8
	Steam Turbine (Gas)	0.0	0.0	24.0	0.0	0.0	0.0	361.8	0.0	0.0	1,035.8	0.0	1,421.6
	Combined Cycle (Oil & Gas)	387.6	0.0	278.9	79.9	135.9	3,017.9	651.8	0.0	0.0	3,296.9	537.6	8,386.5
	Combined Cycle (Gas)	0.0	110.0	958.8	235.5	48.3	0.0	1,029.3	0.0	0.0	0.0	74.8	2,456.7
	Jet Engine (Oil)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	613.5	613.5
	Jet Engine (Oil & Gas)	0.0	0.0	0.0	0.0	0.0	0.0	68.4	0.0	0.0	1,033.3	211.0	1,312.7
	Jet Engine (Gas)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.8	52.8
	Combustion Turbine (Oil)	0.0	0.0	0.0	0.0	0.0	0.0	18.7	0.0	0.0	37.8	505.8	562.3
	Combustion Turbine (Oil & Gas)	0.0	0.0	0.0	0.0	0.0	0.0	19.0	0.0	0.0	578.0	351.4	948.4
	Combustion Turbine (Gas)	40.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	436.2	173.1	649.7
	Internal Combustion (Oil)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.6	20.6
	Internal Combustion (Oil & Gas)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.1	15.1
	Internal Combustion (Gas)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	0.0	11.1
Nuclear	Steam (PWR Nuclear)	0.0	580.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	580.3
	Steam (BWR Nuclear)	0.0	0.0	2,724.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,724.3
Renewable ⁽¹⁾	Conventional Hydro	2,439.7	63.8	108.4	914.8	365.3	302.6	70.7	0.0	0.0	0.0	0.0	4,265.3
	Internal Combustion (Methane)	18.4	11.2	42.9	6.4	9.6	15.2	0.0	0.0	0.0	0.0	0.0	103.7
	Steam Turbine (Refuse)	35.8	0.0	0.0	0.0	0.0	10.4	6.2	52.1	0.0	0.0	121.5	226.0
	Wind	178.9	0.0	751.4	678.4	441.9	0.0	0.0	0.0	0.0	0.0	0.0	2,050.6
	Solar	0.0	0.0	40.0	0.0	0.0	60.0	0.0	0.0	0.0	0.0	54.4	154.4
Storage ⁽³⁾	Energy Storage	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Pumped Storage Hydro	240.0	0.0	0.0	0.0	0.0	1,167.4	0.0	0.0	0.0	0.0	0.0	1,407.4
Totals		3,382.7	777.8	6,550.2	1,915.0	1,001.0	4,573.5	4,688.0	52.1	0.0	9,231.9	5,005.7	37,177.9

(1) - The Renewable Category does not necessarily match the New York State Clean Energy Standard (CES) Definition.

(2) - Values are from the Summer Capability column in Table III-2a: NYISO Market Generators

(3) - The Energy Storage Category includes Battery and Flywheel fuel types

Table III-3b: Existing Winter Capability by Zone and Type

Generator Type	ZONE											TOTAL	
	A	B	C	D	E	F	G	H	I	J	K		
Winter Capability Period (MW) ⁽²⁾													
Fossil	Steam Turbine (Oil)	0.0	0.0	824.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	824.2
	Steam Turbine (Oil & Gas)	39.5	13.0	828.6	0.0	0.0	0.0	2,507.3	0.0	0.0	2,798.6	2,329.7	8,516.7
	Steam Turbine (Gas)	0.0	0.0	55.4	0.0	0.0	0.0	372.9	0.0	0.0	1,053.1	0.0	1,481.4
	Combined Cycle (Oil & Gas)	436.7	0.0	328.1	92.3	156.3	3,528.8	738.8	0.0	0.0	3,739.9	629.4	9,650.3
	Combined Cycle (Gas)	0.0	121.8	1,197.2	257.4	62.0	0.0	1,123.4	0.0	0.0	0.0	77.7	2,839.5
	Jet Engine (Oil)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	746.4	746.4
	Jet Engine (Oil & Gas)	0.0	0.0	0.0	0.0	0.0	0.0	84.6	0.0	0.0	1,198.0	255.5	1,538.1
	Jet Engine (Gas)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.1	60.1
	Combustion Turbine (Oil)	0.0	0.0	0.0	0.0	0.0	0.0	23.1	0.0	0.0	43.6	644.6	711.3
	Combustion Turbine (Oil & Gas)	0.0	0.0	0.0	0.0	0.0	0.0	23.6	0.0	0.0	749.9	406.3	1,179.8
	Combustion Turbine (Gas)	47.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	446.5	182.9	676.4
	Internal Combustion (Oil)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.6	22.6
	Internal Combustion (Oil & Gas)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.1	15.1
	Internal Combustion (Gas)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.2	0.0	10.2
Nuclear	Steam (PWR Nuclear)	0.0	582.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	582.0
	Steam (BWR Nuclear)	0.0	0.0	2,773.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,773.8
Renewable ⁽¹⁾	Conventional Hydro	2,439.7	63.8	108.4	848.8	365.3	302.6	78.6	0.0	0.0	0.0	0.0	4,207.2
	Internal Combustion (Methane)	18.4	11.2	42.9	6.4	9.6	15.2	0.0	0.0	0.0	0.0	0.0	103.7
	Steam Turbine (Refuse)	35.9	0.0	0.0	0.0	0.0	10.5	6.6	53.7	0.0	0.0	124.8	231.5
	Wind	178.9	0.0	751.4	678.4	441.9	0.0	0.0	0.0	0.0	0.0	0.0	2,050.6
	Solar	0.0	0.0	40.0	0.0	0.0	60.0	0.0	0.0	0.0	0.0	54.4	154.4
Storage ⁽³⁾	Energy Storage	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Pumped Storage Hydro	240.0	0.0	0.0	0.0	0.0	1,167.6	0.0	0.0	0.0	0.0	0.0	1,407.6
Totals		3,436.1	791.8	6,950.0	1,883.3	1,035.1	5,084.7	4,958.9	53.7	0.0	10,039.8	5,549.5	39,782.9

(1) - The Renewable Category does not necessarily match the New York State Clean Energy Standard (CES) Definition.

(2) - Values are from the Winter Capability column in Table III-2a: NYISO Market Generators

(3) - The Energy Storage Category includes Battery and Flywheel fuel types

Table III-3c: Annual Net Energy Generation by Zone and Type - 2022

Generator Type	ZONE											TOTAL	
	A	B	C	D	E	F	G	H	I	J	K		
Annual Net Energy Production (GWh) ⁽²⁾													
Fossil	Steam Turbine (Oil)	0.0	0.0	19.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.3
	Steam Turbine (Oil & Gas)	10.6	11.8	27.5	0.0	0.0	0.0	1,945.7	0.0	0.0	2,085.0	4,423.5	8,504.1
	Steam Turbine (Gas)	0.0	0.0	151.5	0.0	0.0	0.0	13.2	0.0	0.0	972.9	0.0	1,137.6
	Combined Cycle (Oil & Gas)	363.7	0.0	95.1	0.5	8.2	13,938.4	4,830.8	0.0	0.0	20,154.6	3,433.9	42,825.2
	Combined Cycle (Gas)	0.0	46.2	3,693.1	92.6	3.8	0.0	4,701.6	0.0	0.0	0.0	73.4	8,610.7
	Jet Engine (Oil)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	73.5	73.5
	Jet Engine (Oil & Gas)	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	1,213.1	186.0	1,400.9
	Jet Engine (Gas)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.0	48.0
	Combustion Turbine (Oil)	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	2.1	44.7	48.1
	Combustion Turbine (Oil & Gas)	0.0	0.0	0.0	0.0	0.0	0.0	3.9	0.0	0.0	63.6	749.4	816.9
	Combustion Turbine (Gas)	66.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	610.1	411.8	1,088.2
	Internal Combustion (Oil)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1
	Internal Combustion (Oil & Gas)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
	Internal Combustion (Gas)	0.0	2.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	25.2	0.0	28.3
Nuclear	Steam (PWR Nuclear)	0.0	5,045.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,045.0
	Steam (BWR Nuclear)	0.0	0.0	21,837.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21,837.7
Renewable ⁽¹⁾	Conventional Hydro	15,496.6	48.3	378.1	7,539.8	1,980.6	1,730.3	180.6	0.0	0.0	0.0	0.0	27,354.3
	Internal Combustion (Methane)	127.8	85.7	226.0	43.1	52.6	54.3	0.0	0.0	0.0	0.0	0.0	589.5
	Steam Turbine (Refuse)	140.1	0.0	233.8	0.0	0.0	66.1	28.1	367.1	0.0	0.0	943.6	1,778.8
	Wind	834.8	0.0	1,277.1	1,315.4	1,397.8	0.0	0.0	0.0	0.0	0.0	0.0	4,825.1
	Solar	0.0	0.0	5.3	0.0	0.0	32.6	0.0	0.0	0.0	0.0	72.5	110.4
Storage ⁽³⁾	Energy Storage	0.0	0.0	0.0	0.0	0.0	-11.4	0.0	0.0	0.0	0.0	0.0	-11.4
	Pumped Storage Hydro	-230.3	0.0	0.0	0.0	0.0	-210.8	0.0	0.0	0.0	0.0	0.0	-441.1
Totals		16,809.6	5,239.0	27,944.5	8,991.4	3,444.1	15,599.5	11,707.0	367.1	0.0	25,126.6	10,462.6	125,691.4

(1) - The Renewable Category does not necessarily match the New York State Clean Energy Standard (CES) Definition.

(2) - Values are from the 2022 Net Energy column in Table III-2a and Table III-2b

(3) - The Energy Storage Category includes Battery and Flywheel fuel types

Table III-3d: Scheduled Real-Time Transactions by Control Area and Proxy Bus (GWh) – 2022

Control Area	Proxy Bus Name	Imports	Wheels-In	Exports	Wheels-Out	Net Imports
HQ	Cedars	952	0	56	0	896
HQ	Chateaugay	6,853	2,400	671	0	8,582
IESO	Bruce	4,738	84	224	22	4,576
ISO-NE	1385 Line	726	0	244	0	482
ISO-NE	Cross Sound Cable	1,861	0	0	0	1,861
ISO-NE	Sandy Pond	7,645	7	8,740	2,420	-3,508
PJM	HTP	3,238	0	0	0	3,238
PJM	Keystone	6,528	41	2,303	90	4,176
PJM	Linden VFT	2,459	0	0	0	2,459
PJM	Neptune	4,209	0	0	0	4,209
	NYCA Total	39,209	2,532	12,238	2,532	26,971

Figure III-1: 2022 NYCA Energy Production by Zone

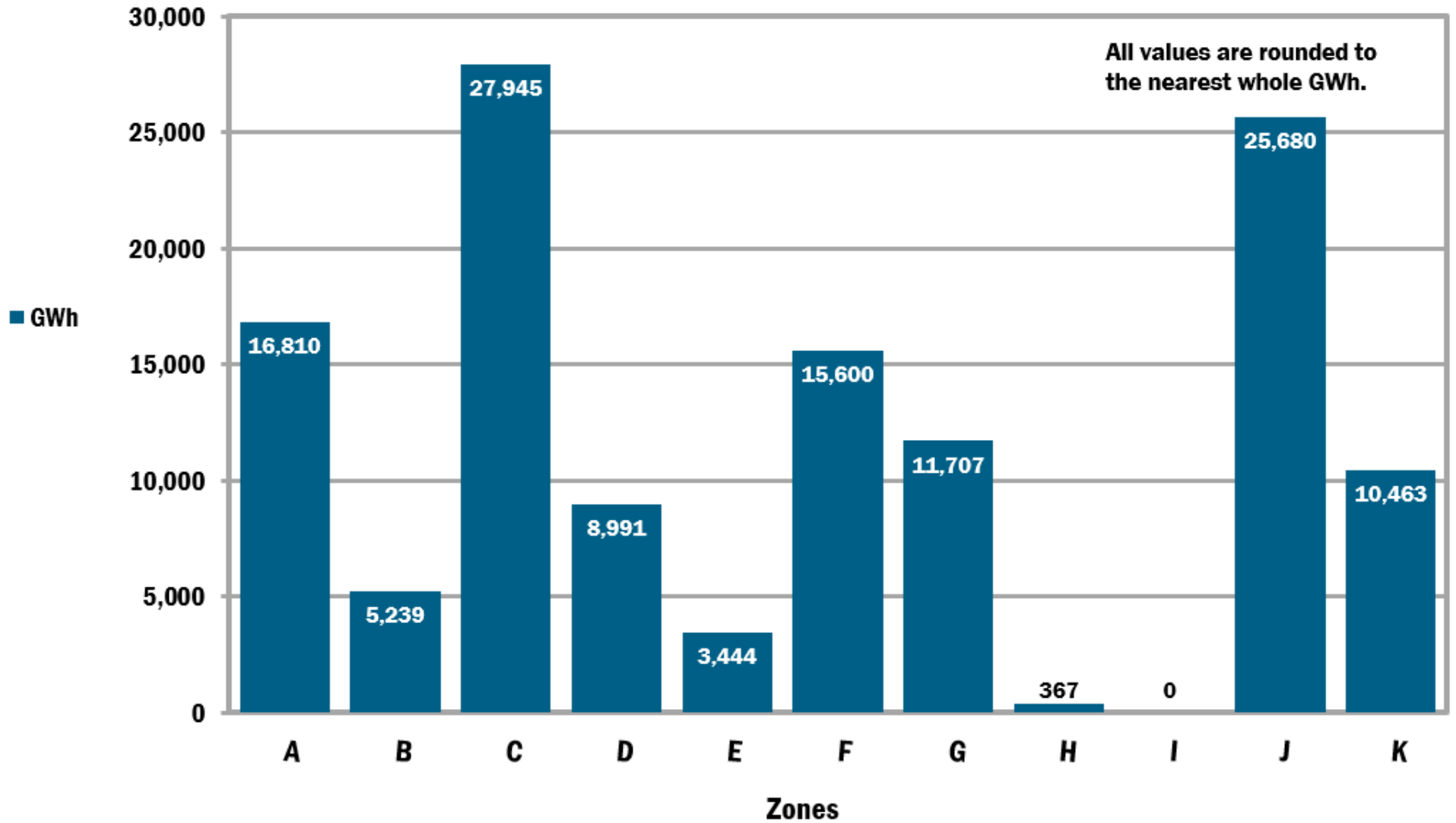
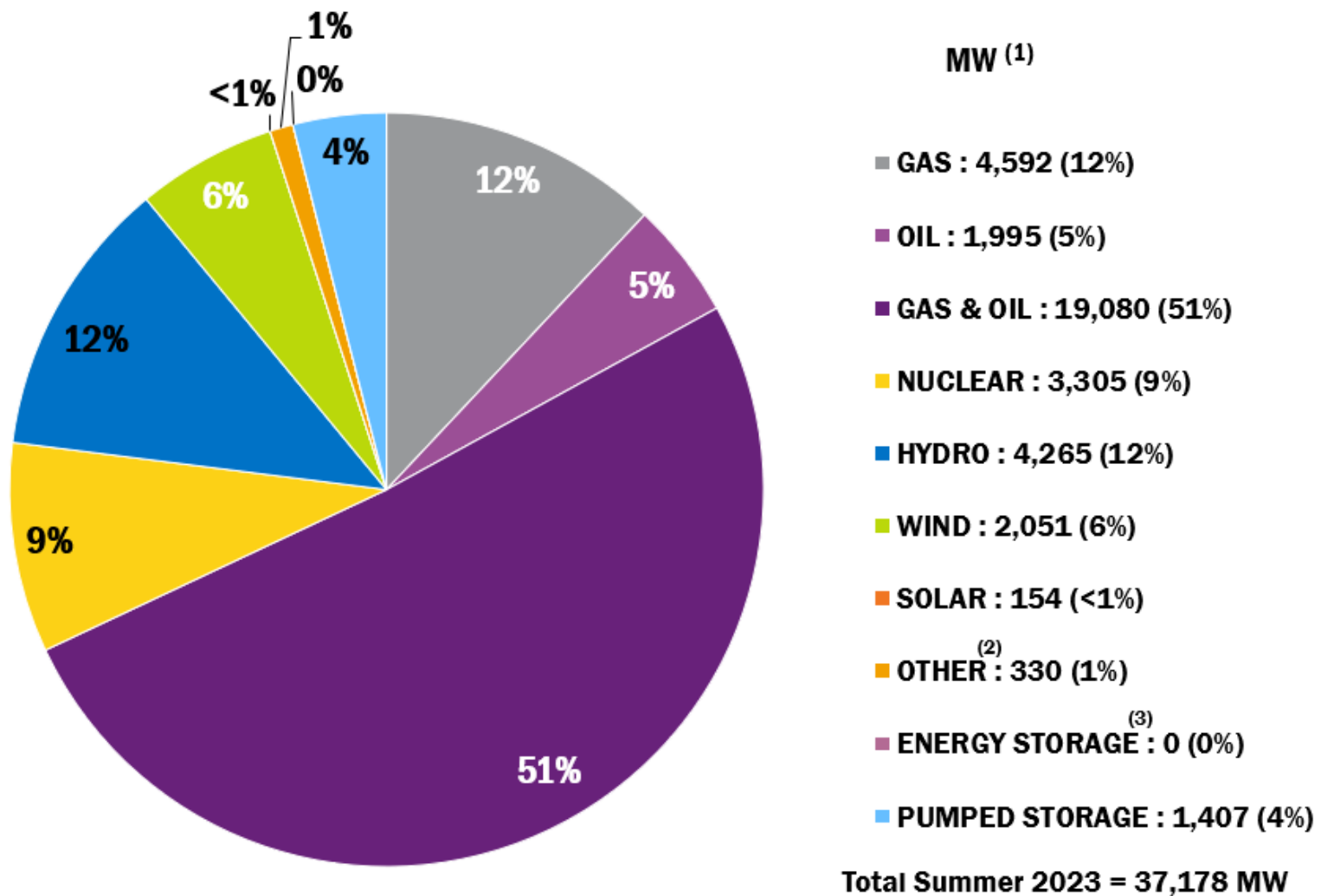


Figure III-2: Existing NYCA Summer Capability by Fuel Type



(1) All values are from the Summer Capability column in Table III-2a and are rounded to the nearest whole MW.

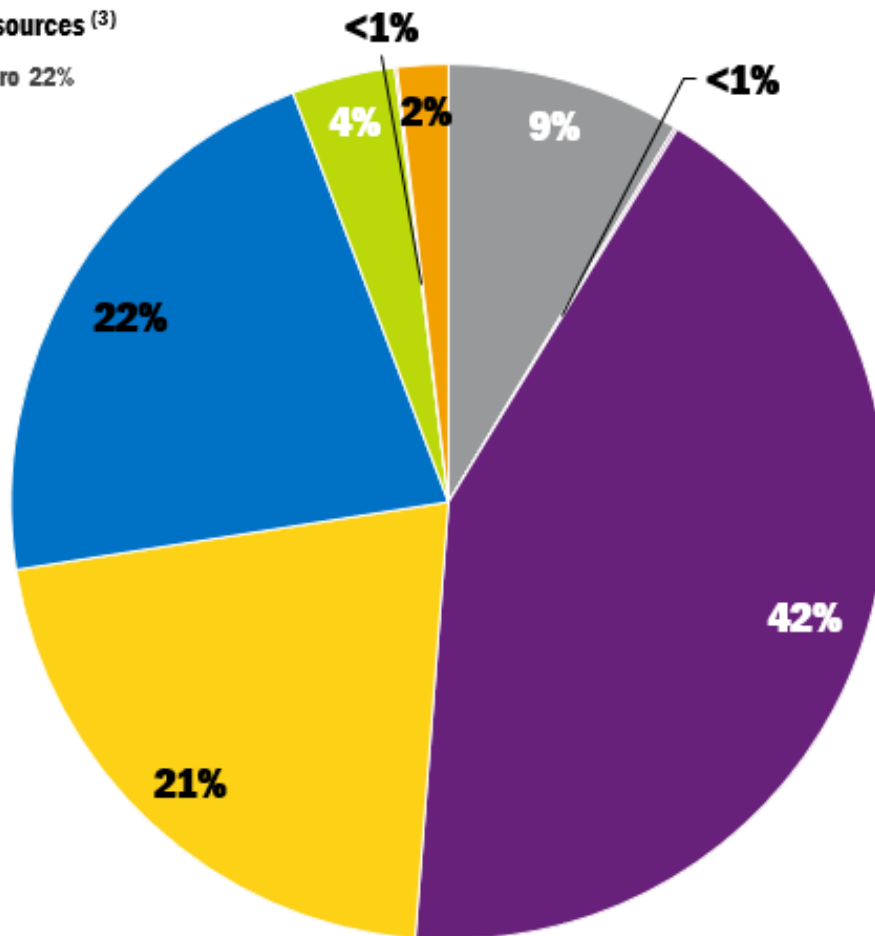
(2) Includes Methane & Refuse

(3) Energy Storage includes Flywheel and Battery Storage

Figure III-3: 2022 NYCA Energy Production by Fuel Type

Renewable Resources ⁽³⁾

Conventional Hydro	22%
Wind	4%
Solar	<1%
Other	2%
Total	28%



GWh ⁽¹⁾

■ GAS	: 10,913 (9%)
■ OIL	: 143 (<1%)
■ GAS & OIL	: 53,547 (42%)
■ NUCLEAR	: 26,883 (21%)
■ HYDRO	: 27,354 (22%)
■ WIND	: 4,825 (4%)
■ SOLAR	: 110 (<1%)
■ OTHER ⁽²⁾	: 2,368 (2%)

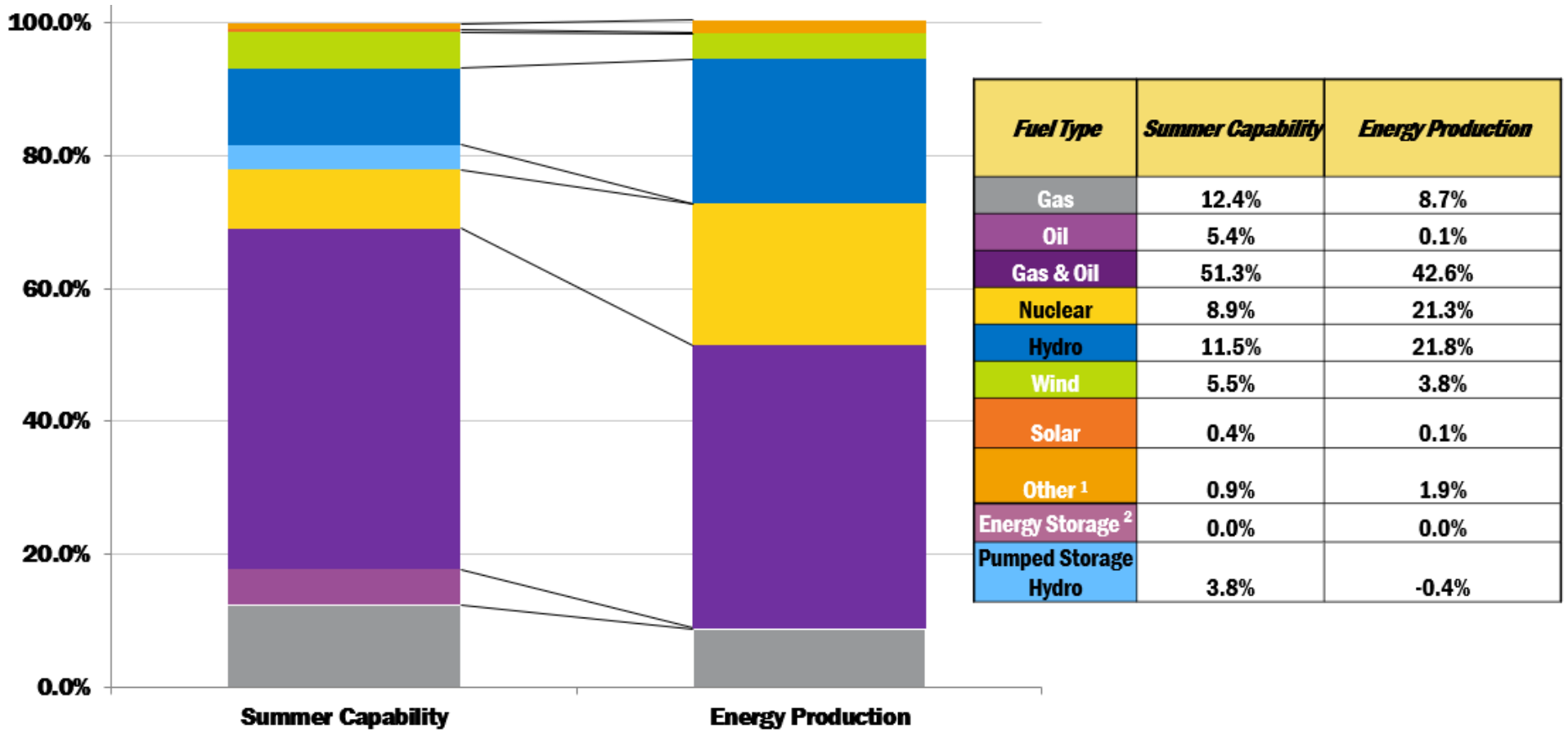
Total 2022¹ = 125,691 GWh

(1) Only includes fuel types with positive net energy and are rounded to the nearest whole GWh

(2) Includes Methane & Refuse

(3) Renewable Resources do not necessarily match the NYS Clean Energy Standard (CES) definition.

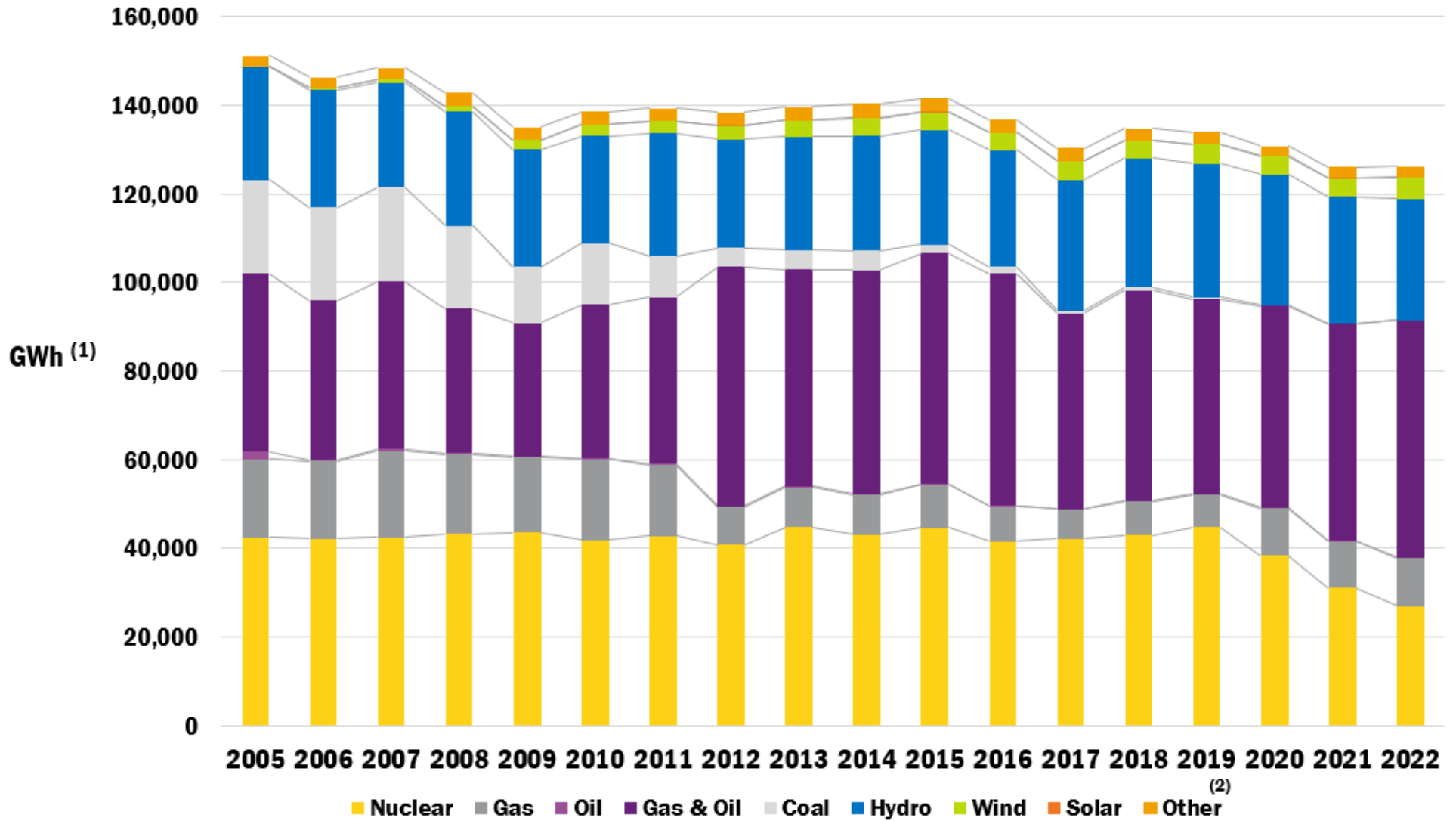
Figure III-4: 2022 NYCA Energy Production and Summer Capability by Fuel Type



(1) Other Includes Methane & Refuse

(2) Energy Storage includes Flywheel and Battery Storage

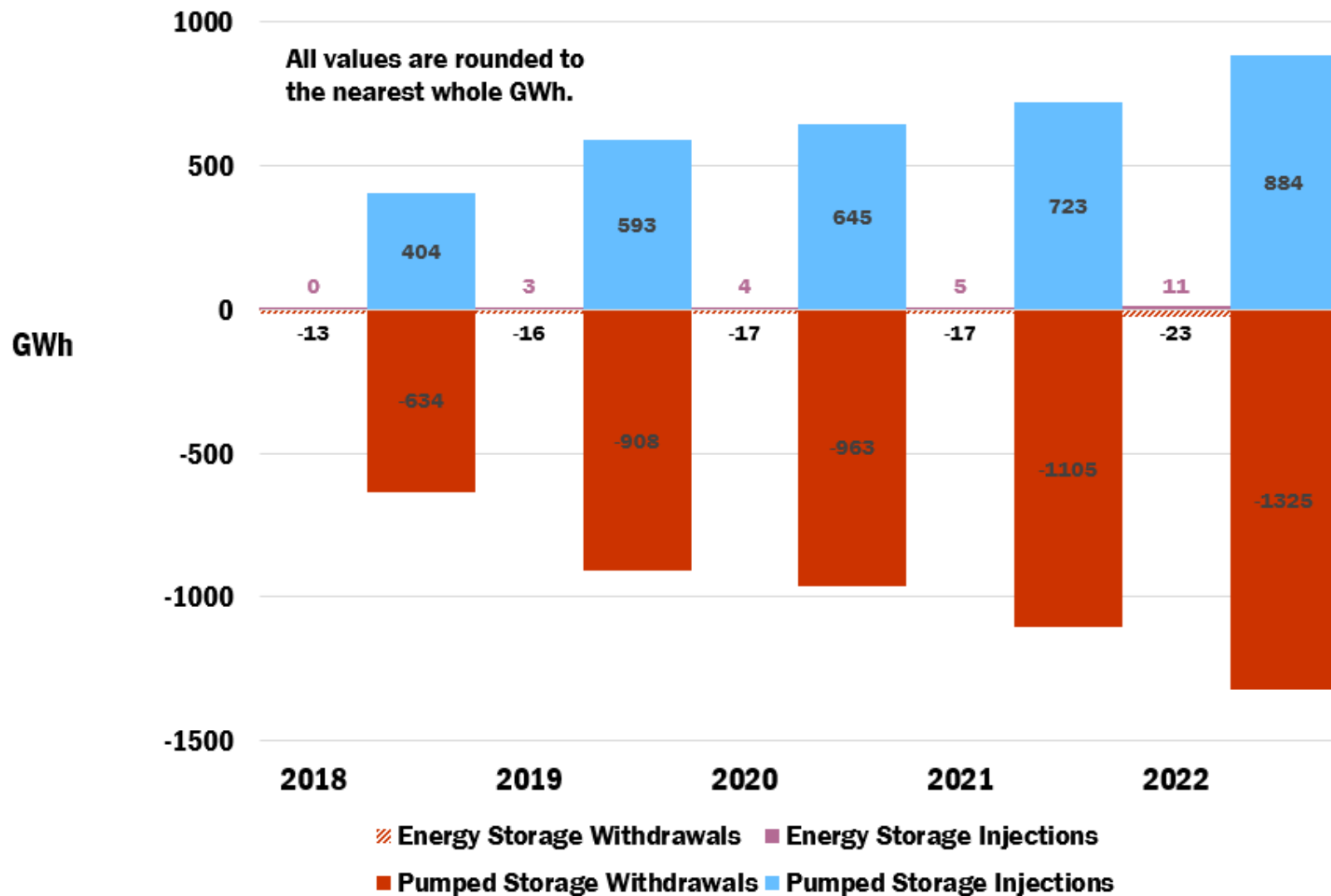
Figure III-5a: Historical Energy Production by Fuel Type



1) Only includes fuel types with positive net energy

2) Other Includes Methane & Refuse

Figure III-5b: Historical Storage Withdrawals and Injections



- 1) Withdrawals from the grid, injections into the grid
- 2) Energy Storage includes Flywheel and Battery Storage

Figure III-6a: NYCA Wind Resources – Historical Installed Nameplate Capacity

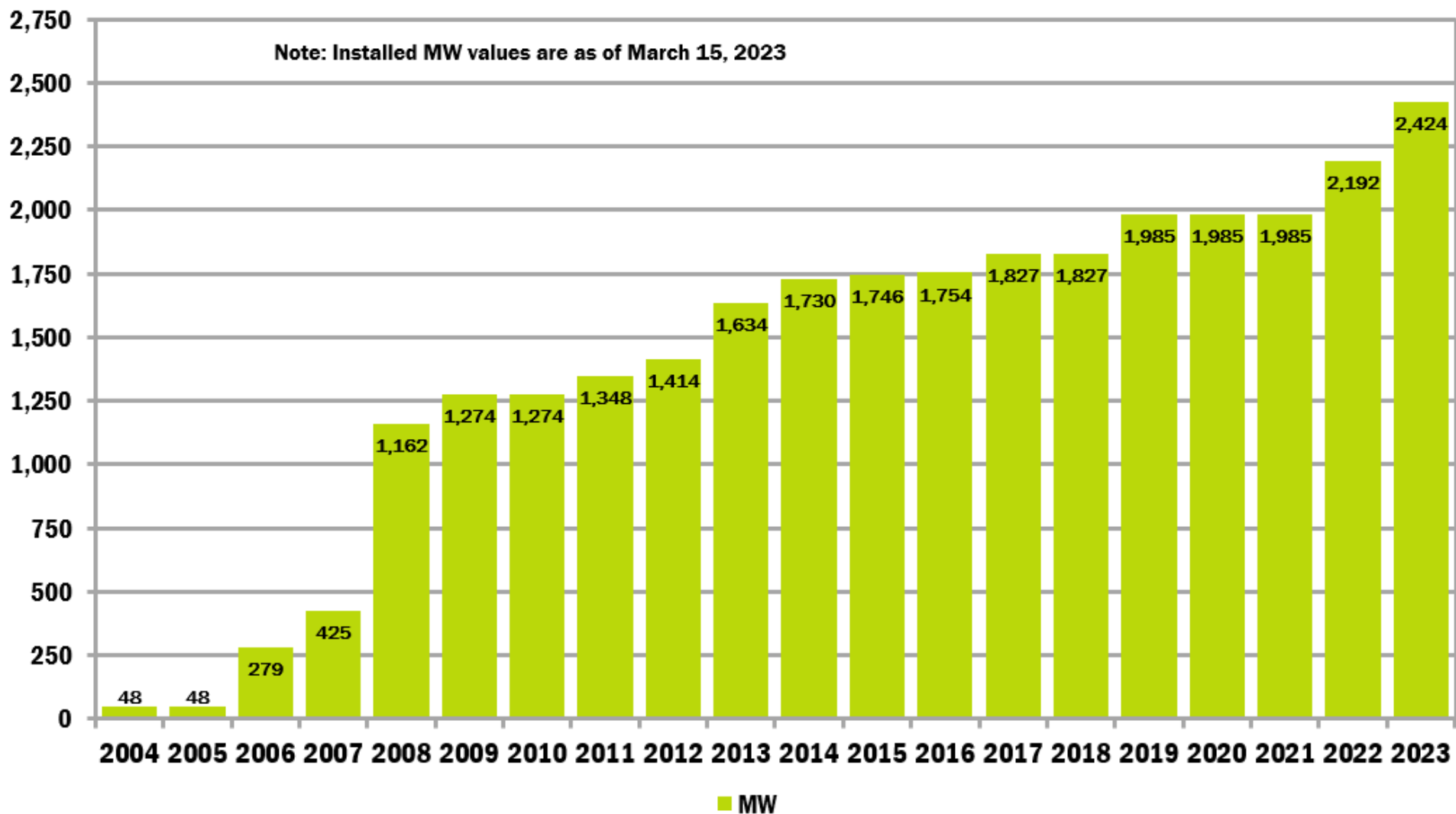
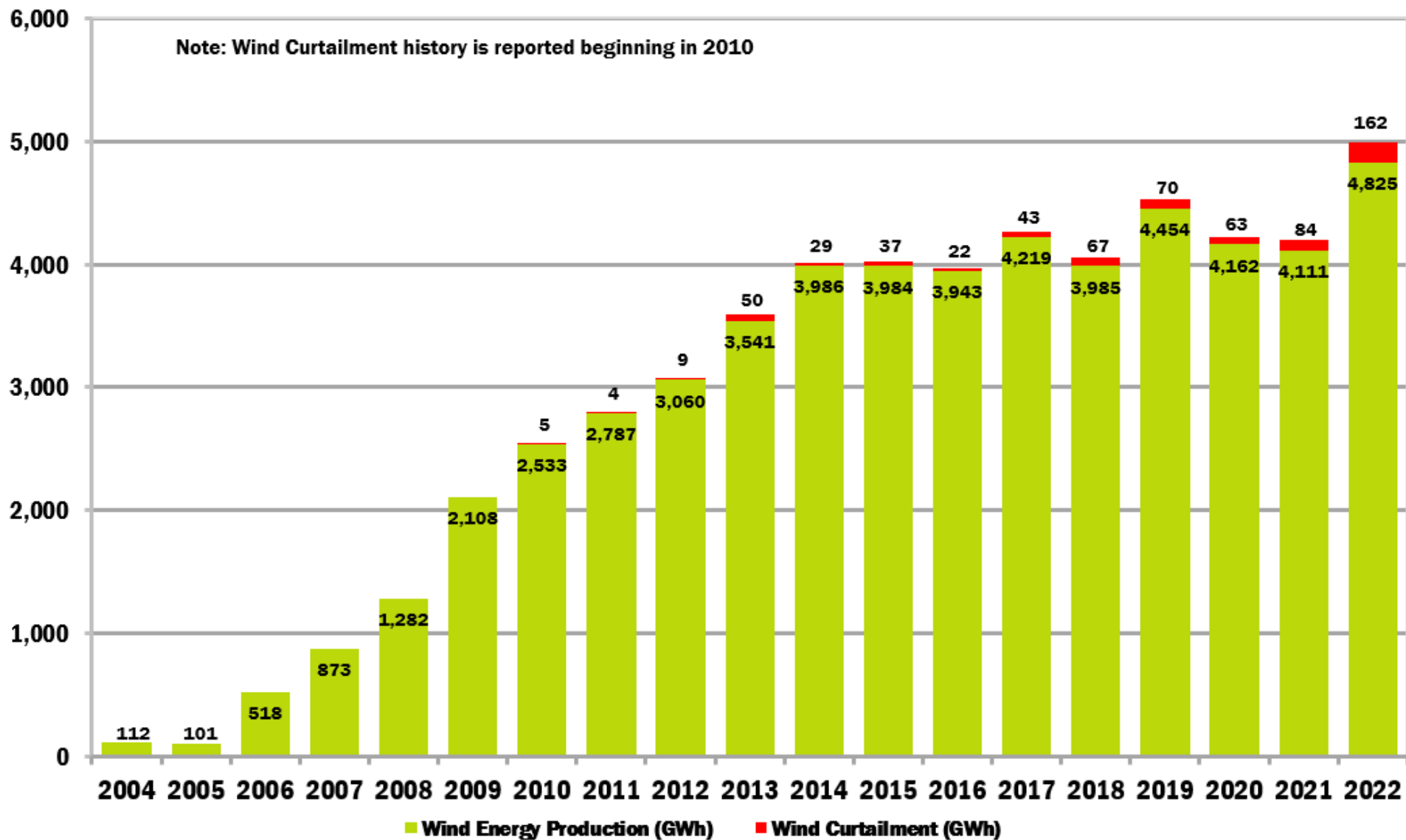


Figure III-6b: NYCA Wind Resources – Historical Energy Production and Curtailment



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Section IV

Changes in Generating Capacity

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Section IV

This section reports proposed projects in the Interconnection Facilities Study stage of the NYISO interconnection process, together with re-ratings, and deactivations.

Table IV-1 lists proposed facilities that have completed, are enrolled in, or are candidates to enter a Class Year Interconnection Facilities Study; or have met other comparable milestones. Table IV-2 reports units that have proposed re-ratings (no applicable re-ratings for this *Gold Book*).

Tables IV-3, IV-4, and IV-5 list deactivated resources. Table IV-3 shows deactivated units that are no longer listed in Existing Capacity Table III-2 and have unexpired CRIS MW. Table IV-4 shows units that remain listed in Table III-2 and that have been deactivated since the publication of the 2022 *Gold Book*. Table IV-5 lists units that have provided a notice of deactivation at some future date.

Table IV-6 lists the proposed status changes of simple-cycle combustion turbines to comply with the DEC Peaker Rule. Table IV-7 provides information on proposed large load projects listed in the NYISO Interconnection Queue.

These tables are current through March 15, 2023. Monthly updates to this information are available in the *Generator Status Updates* folder on the *NY Power System Information & Outlook* page:

<https://www.nyiso.com/ny-power-system-information-outlook>.

Table IV-1: Proposed Generator Additions & CRIS Requests, as of March 17, 2023

QUEUE POS.	OWNER / OPERATOR	STATION	UNIT	ZONE	Proposed Date ⁶ (M-YY)	NAMEPLATE RATING (MW)	REQUESTED CRIS (MW) ¹	CRIS ¹ (MW)	SUMMER (MW)	WINTER (MW)	UNIT TYPE	CLASS YEAR	NOTES
Completed Class Year Facilities Study													
396	Baron Winds, LLC	Baron Winds		C	Dec-24	238.4	300.0	300.0	117.0	117.0	Wind Turbines	2017	(2) (17)
505	Ball Hill Wind Energy, LLC	Ball Hill Wind		A	Jul-23	100.0	100.0	100.0	100.0	100.0	Wind Turbines	2017	(2)
276	EDF Renewables Development, Inc.	Homer Solar Energy Center		C	Sep-23	90.0	90.0	90.0	90.0	90.0	Solar	2019	(2)
495	Mohawk Solar LLC	Mohawk Solar		F	Nov-24	90.5	90.5	90.5	90.5	90.5	Solar	2019	(2)
519	Canisteo Wind Energy LLC	Canisteo Wind		C	Feb-25	290.7	290.7	290.7	290.7	290.7	Wind Turbines	2019	(2)
531	Invenegy Wind Development LLC	Number 3 Wind Energy		E	Mar-23	103.9	105.8	105.8	103.9	103.9	Wind Turbines	2019	(2)
535	Riverhead Solar 2 LLC	Riverhead Expansion		K	Apr-24	36.0	36.0	36.0	36.0	36.0	Solar	2019	(2)
579	Bluestone Wind, LLC	Bluestone Wind		E	Dec-22	111.8	124.2	124.2	111.8	111.8	Wind Turbines	2019	(2)
591	SunEast Highview Solar LLC	Highview Solar		C	Dec-23	20.0	20.0	20.0	20.0	20.0	Solar	2019	(2)
596	Invenegy Wind Development LLC	Alle Catt II Wind		A	Feb-25	339.1	339.1	339.1	339.1	339.1	Wind Turbines	2019	(2)
612	South Fork Wind, LLC	South Fork Wind Farm		K	Aug-23	96.0	96.0	96.0	96.0	96.0	Wind Turbines	2019	(2)
617	Watkins Glen Energy Center, LLC	Watkins Glen Solar		C	Nov-24	50.0	50.0	50.0	50.0	50.0	Solar	2019	(2)
618	High River Energy Center, LLC	High River Solar		F	Apr-24	90.0	90.0	90.0	90.0	90.0	Solar	2019	(2)
619	East Point Energy Center, LLC	East Point Solar		F	Dec-23	50.0	50.0	50.0	50.0	50.0	Solar	2019	(2)
620	North Side Energy Center, LLC	North Side Solar		D	Dec-24	180.0	180.0	180.0	180.0	180.0	Solar	2019	(2)
637	Flint Mine Solar LLC	Flint Mine Solar		G	Oct-24	100.0	100.0	100.0	100.0	100.0	Solar	2019	(2)
644	Hecate Energy Columbia County 1, LLC	Columbia County 1		F	Dec-24	60.0	60.0	60.0	60.0	60.0	Solar	2019	(2)
683	KCE NY 2, LLC	KCE NY 2		G	Dec-23	200.0	200.0	200.0	200.0	200.0	Energy Storage	2019	(2) (14)
695	South Fork Wind, LLC	South Fork Wind Farm II		K	Aug-23	40.0	40.0	40.0	40.0	40.0	Wind Turbines	2019	(2)
704	Bear Ridge Solar, LLC	Bear Ridge Solar		A	Oct-24	100.0	100.0	100.0	100.0	100.0	Solar	2019	(2)
706	High Brigde Wind, LLC	High Brigde Wind		E	Nov-23	100.8	100.8	100.8	100.8	100.8	Wind Turbines	2019	(2)
720	Trelina Solar Energy Center, LLC	Trelina Solar Energy Center		C	Dec-24	79.8	80.0	80.0	79.8	79.8	Solar	2019	(2)
721	Excelsior Energy Center, LLC	Excelsior Energy Center		A	Feb-25	280.0	280.0	280.0	280.0	280.0	Solar	2019	(2)
737	Empire Offshore Wind LLC	EI Sunset Park		J	Dec-26	816.0	816.0	816.0	816.0	816.0	Wind Turbines	2019	(2)
746	Peconic River Energy Storage, LLC	North Street Energy Storage		K	Apr-25	150.0	150.0	TBD	150.0	150.0	Energy Storage	2019	(2) (3) (4)
521	Invenegy NY, LLC	Bull Run II Wind		D	Dec-26	449.0	449.0	449.0	449.0	449.0	Wind Turbines	2021	(2)
571	Heritage Renewables, LLC	Heritage Wind		A	Oct-25	200.1	200.1	200.1	200.1	200.1	Wind Turbines	2021	(2)
629	Silver Lake Solar, LLC	Silver Lake Solar		C	Nov-24	24.9	24.9	24.9	24.9	24.9	Solar	2021	(2)
710	Invenegy Solar Development North America LLC	Horseshoe Solar		B	Dec-25	180.0	180.0	180.0	180.0	180.0	Solar	2021	(2)
717	EDF Renewables Development, Inc.	Morris Ridge Solar Energy Center		C	Sep-24	177.0	177.0	177.0	177.0	177.0	Solar	2021	(2)
766	Sunrise Wind LLC	NY Wind Holbrook		K	Dec-25	1,085.7	880.0	TBD	880.0	880.0	Wind Turbines	2021	(2) (4)
783	ConnectGen Chautauqua County LLC	South Ripley Solar		A	Jun-24	270.0	270.0	270.0	270.0	270.0	Solar+Energy Storage	2021	(2) (16)
787	Levy Grid, LLC	Levy Grid, LLC		A	Aug-25	150.0	150.0	150.0	150.0	150.0	Energy Storage	2021	(2)
801	Prattsburgh Wind, LLC	Prattsburgh Wind Farm		C	Dec-25	147.0	147.0	147.0	147.0	147.0	Wind Turbines	2021	(2)
805	Osbow Hill Solar, LLC	Owbox Hill Solar		C	Dec-24	140.0	140.0	140.0	140.0	140.0	Solar	2021	(2)
811	Hecate Energy Cider Solar LLC	Cider Solar		A	Nov-24	500.0	500.0	500.0	500.0	500.0	Solar	2021	(2)
815	Bayonne Energy Center, LLC	Bayonne Energy Center III		J	Dec-24	49.8	49.8	49.8	49.8	49.8	Energy Storage	2021	(2)
835	Astoria Generating Company, LP	Dock Battery Energy Storage		J	May-26	59.1	56.3	56.3	56.3	56.3	Energy Storage	2021	(2)
840	Hecate Grid Swiftsure LLC	Swiftsure Energy Storage		J	Jun-26	650.0	650.0	121.0	650.0	650.0	Energy Storage	2021	(2)
864	Boralex US Development, LLC	NY38 Solar		E	Aug-24	120.0	120.0	120.0	120.0	120.0	Solar	2021	(2)
883	North Park Energy, LLC	Garnet Energy Center		B	Nov-25	200.0	200.0	200.0	200.0	200.0	Solar	2021	(2)
907	174 Power Global	Harlem River Yard		J	Dec-26	100.0	100.0	100.0	100.0	100.0	Energy Storage	2021	(2)
929	EDF Renewables Development, Inc.	Morris Ridge Battery Storage		C	Dec-26	84.2	83.0	83.0	83.0	83.0	Energy Storage	2021	(2)
931	Hanwha Energy USA Holdings d/d/a/ 174 Power Global	Astoria Energy Storage		J	Dec-24	100.0	100.0	100.0	100.0	100.0	Energy Storage	2021	(2)
956	Holbrook Energy Storage	Holbrook Energy Storage		K	May-25	110.0	110.0	TBD	110.0	110.0	Energy Storage	2021	(2) (4)
959	Empire Offshore Wind LLC	EI Oceanside 2		K	Dec-26	1,356.0	1,260.0	TBD	1,260.0	1,260.0	Wind Turbines	2021	(2) (4)
987	Sunrise Wind LLC	NY Wind Holbrook 2		K	Dec-25	1,085.7	44.0	TBD	44.0	44.0	Wind Turbines	2021	(2) (4) (12)

Table IV-1: Proposed Generator Additions & CRIS Requests (cont'd)

QUEUE POS.	OWNER / OPERATOR	STATION	UNIT	ZONE	Proposed Date ⁶ (M-YY)	NAMEPLATE RATING (MW)	REQUESTED CRIS (MW) ¹	CRIS ¹ (MW)	SUMMER (MW)	WINTER (MW)	UNIT TYPE	CLASS YEAR	NOTES
Completed CRIS Requests													
430	HQUS	Cedar Rapids Transmission Upgrade		D	I/S	N/A	80.0	80.0	N/A	N/A		2017	
477	Riverhead Solar Farm LLC	Riverhead Solar		K	I/S	N/A	20	20	N/A	N/A	Solar	2017	
N/A	BSC Owner LLC	Spring Creek Tower		J	N/A	N/A	8.0	8.0	N/A	N/A	Diesel	2019	
N/A	Energy Storage Resources, LLC	Eagle Energy Storage		J	N/A	N/A	20.0	20.0	N/A	N/A	Energy Storage	2019	
N/A	Hannacroix Solar Facility, LLC	Hannacroix Solar		G	N/A	N/A	3.2	3.2	N/A	N/A	Solar	2019	
N/A	King's Plaza Energy LLC	King's Plaza		J	N/A	N/A	6.0	6.0	N/A	N/A	Natural Gas	2019	
N/A	RWE Solar Development, LLC	Cuddebackville Battery		G	N/A	N/A	10.0	10.0	N/A	N/A	Energy Storage	2019	
N/A	RWE Solar Development, LLC	Monsey 44-2		G	N/A	N/A	5.0	5.0	N/A	N/A	Energy Storage	2019	
N/A	RWE Solar Development, LLC	Monsey 44-3		G	N/A	N/A	5.0	5.0	N/A	N/A	Energy Storage	2019	
N/A	RWE Solar Development, LLC	Monsey 44-6		G	N/A	N/A	5.0	5.0	N/A	N/A	Energy Storage	2019	
N/A	Strata Storage, LLC	Cleancar Energy Storage		J	N/A	N/A	15.0	15.0	N/A	N/A	Energy Storage	2019	
N/A	Strata Storage, LLC	Groundvault Energy Storage		J	N/A	N/A	12.5	12.5	N/A	N/A	Energy Storage	2019	
N/A	Strata Storage, LLC	Stillwell Energy Storage		J	N/A	N/A	10.0	10.0	N/A	N/A	Energy Storage	2019	
N/A	Yonkers Grid, LLC	Yonkers Grid		J	N/A	N/A	20.0	20.0	N/A	N/A	Energy Storage	2019	
N/A	Port Jefferson Energy Storage, LLC	Port Jefferson Energy Storage		K	N/A	N/A	9.9	9.9	N/A	N/A	Energy Storage		(9)
N/A	Suffolk County Energy Storage, LLC	Suffolk County Energy Storage		K	N/A	N/A	9.9	9.9	N/A	N/A	Energy Storage		(9)
Class Year 2021 Additional SDU Study													
942	KCE NY 21, LLC	KCE NY 21		K	Dec-24	60.0	60.0	TBD	60.0	60.0	Energy Storage		
965	Yaphank Energy Storage, LLC	Yaphank Energy Storage		K	Dec-23	79.6	76.8	TBD	76.8	77.6	Energy Storage		
994	KCE NY 22, LLC	KCE NY 22		K	Dec-24	90.0	90.0	TBD	90.0	90.0	Energy Storage		
Future Class Year Candidates¹⁵													
522	NYC Energy LLC	NYC Energy		J	Dec-23	79.9	TBD	TBD	79.9	79.9	Energy Storage		
560	Deer River Wind, LLC	Deer River Wind		E	Jan-26	100.0	TBD	TBD	100.0	100.0	Wind Turbines		
577	Greene County Energy Properties, LLC	Greene County Energy		G	Dec-23	20.0	N/A	N/A	20.0	20.0	Solar		
597	Hecate Energy Greene County 3 LLC	Greene County 3		G	Apr-23	20.0	20.0	20.0	20.0	20.0	Solar		(7)
668	North Bergen Liberty Generating, LLC	Liberty Generating Alternative		J	Feb-24	1171.0	TBD	TBD	1171.0	1172.0	Combustion Turbines		
686	Invenergy Solar Development North America LLC	Bull Run Solar Energy Center		D	Dec-24	170.0	TBD	TBD	170.0	170.0	Solar		
694	Sunset Hill Solar, LLC	Sunset Hill Solar		G	Apr-23	20.0	N/A	N/A	20.0	20.0	Solar		
700	Robinson Grid, LLC	Robinson Grid		J	Sep-26	300.0	TBD	TBD	300.0	300.0	Energy Storage		
709	Alder Creek Solar, LLC	Alder Creek Solar		E	Oct-24	165.0	TBD	TBD	165.0	165.0	Solar		
716	EDF Renewables Development, Inc.	Moraine Solar Energy Center		C	Nov-26	93.5	TBD	TBD	93.5	93.5	Solar		
740	Oakdale Battery Storage LLC	Oakdale Battery Storage		C	Jan-24	120.0	TBD	TBD	120.0	120.0	Energy Storage		
745	Energy Storage Resources, LLC	Huckleberry Ridge Energy		G	Dec-24	100.0	TBD	TBD	100.0	100.0	Energy Storage		
770	KCE NY 8 LLC	KCE NY 8a		G	Dec-24	20.0	N/A	N/A	20.0	20.0	Energy Storage		
774	EDF Renewables Development, Inc.	Tracy Solar Energy Centre		E	Nov-27	119.0	TBD	TBD	119.0	119.0	Solar		
777	Community Energy Solar, LLC	White Creek Solar		B	Aug-26	135.0	TBD	TBD	135.0	135.0	Solar		
779	Hecate Energy Gedney Hill LLC	Gedney Hill Solar		G	Apr-23	20.0	N/A	N/A	20.0	20.0	Solar		
780	Hecate Energy Johnstown LLC	Johnstown Solar		F	Apr-23	20.0	N/A	N/A	20.0	20.0	Solar		
785	ConnectGen Erie-Wyoming LLC	Erie-Wyoming County Solar		C	Aug-25	175.0	TBD	TBD	175.0	175.0	Solar+Energy Storage		
800	EDF Renewables Development, Inc.	Rich Road Solar Energy Center		E	Dec-24	240.0	TBD	TBD	240.0	240.0	Solar		
803	Yonkers Grid, LLC	Yonkers Grid, LLC		I	Sep-24	100.0	TBD	TBD	100.0	100.0	Energy Storage		
822	Astoria Generating Company LP	Whale Square Energy Storage 1		J	May-24	58.2	TBD	TBD	58.2	58.2	Energy Storage		
825	Setauket Energy Storage, LLC	Setauket Energy Storage		K	Dec-23	65.3	TBD	TBD	65.3	65.3	Energy Storage		
834	Astoria Generating Company, LP	Luyster Creek Energy Storage 2		J	May-24	79.0	TBD	TBD	79.0	79.0	Energy Storage		

Table IV-1: Proposed Generator Additions & CRIS Requests (cont'd)

QUEUE POS.	OWNER / OPERATOR	STATION UNIT	ZONE	Proposed Date ⁶ (M-YY)	NAMEPLATE RATING (MW)	REQUESTED CRIS (MW) ¹	CRIS ¹ (MW)	SUMMER (MW)	WINTER (MW)	UNIT TYPE	CLASS YEAR	NOTES
852	Niagara Dolomite Solar, LLC	Niagara Dolomite Solar	A	Oct-25	180.0	TBD	TBD	180.0	180.0	Solar		
857	EDF Renewables Development, Inc.	Columbia Solar Energy Center	E	Oct-24	350.0	TBD	TBD	350.0	350.0	Solar		
858	EDF Renewables Development, Inc.	Genesee Road Solar Energy Center	A	Oct-24	250.0	TBD	TBD	250.0	250.0	Solar		
859	EDF Renewables Development, Inc.	Ridge View Solar Energy Center	A	Oct-24	350.0	TBD	TBD	350.0	350.0	Solar		
860	EDF Renewables Development, Inc.	Rosalen Solar Energy Center	B	Oct-24	200.0	TBD	TBD	200.0	200.0	Solar		
869	SunEast Tabletop Solar LLC	Tabletop Solar	F	Dec-24	80.0	TBD	TBD	80.0	80.0	Solar		
871	Invenergy Solar Project Development LLC	Verona Solar Energy Center I	C	Dec-27	250.0	TBD	TBD	250.0	250.0	Solar		
873	Invenergy Solar Project Development LLC	Verona Solar Energy Center II	C	Dec-27	250.0	TBD	TBD	250.0	250.0	Solar		
878	Energy Storage Resources, LLC	Pirates Island	A	Sep-24	100.0	TBD	TBD	100.0	100.0	Energy Storage		
880	Brookside Solar, LLC	Brookside Solar	D	Jul-26	100.0	TBD	TBD	100.0	100.0	Solar		
881	New Bremen Solar, LLC	New Bremen Solar	E	Dec-26	100.0	TBD	TBD	100.0	100.0	Solar		
882	Riverside Solar, LLC	Riverside Solar	E	Jul-26	100.0	TBD	TBD	100.0	100.0	Solar		
912	Hecate Grid Intrepid 1 LLC	Intrepid Storage 69	K	Dec-25	50.0	TBD	TBD	50.0	50.0	Energy Storage		
918	Hecate Grid Intrepid 1 LLC	Intrepid Storage 138	K	Dec-25	250.0	TBD	TBD	250.0	250.0	Energy Storage		
925	Hecate Grid Clermont 1 LLC	Clermont 1	K	Apr-23	100.0	TBD	TBD	100.0	100.0	Energy Storage		
939	National Grid Generation LLC	Far Rockaway Power Station BESS	K	Dec-25	30.0	TBD	TBD	30.0	30.0	Energy Storage		
941	National Grid Generation LLC	Southampton Power Station BESS	K	Dec-25	30.0	TBD	TBD	30.0	30.0	Energy Storage		
942	KCE NY 21, LLC	KCE NY 21	K	Dec-24	60.0	TBD	TBD	60.0	60.0	Energy Storage		
950	Hemlock Ridge Solar LLC	Hemlock Ridge Solar	B	Apr-26	200.0	TBD	TBD	200.0	200.0	Solar		
951	Cayuga Grid, LLC	Cayuga Grid, LLC	A	Oct-25	100.0	TBD	TBD	100.0	100.0	Energy Storage		
952	Catskill Grid, LLC	Catskill Grid, LLC	G	Sep-25	100.0	TBD	TBD	100.0	100.0	Energy Storage		
953	Sugar Maple Solar, LLC	Sugar Maple Solar	E	Dec-26	125.0	TBD	TBD	125.0	125.0	Solar		
954	Empire Solar, LLC	Empire Solar	A	Dec-23	157.9	TBD	TBD	157.9	150.0	Solar		
957	Holtsville Energy Storage	Holtsville Energy Storage	K	May-23	76.8	TBD	TBD	76.8	76.8	Energy Storage		
965	Yaphank Energy Storage, LLC	Yaphank Energy Storage	K	Dec-23	77.6	TBD	TBD	76.8	77.6	Energy Storage		
966	West Babylon Energy Storage, LLC	Suffolk County Storage	K	Dec-23	40.3	TBD	TBD	40.3	40.3	Energy Storage		
967	KCE NY 5 LLC	KCE NY 5	G	Dec-24	94.0	TBD	TBD	94.0	94.0	Energy Storage		
971	Savion, LLC	East Setauket Energy Storage	K	Dec-23	125.0	TBD	TBD	125.0	125.0	Energy Storage		
974	KCE NY 19 LLC	KCE NY 19	G	Oct-25	80.0	TBD	TBD	80.0	80.0	Energy Storage		
982	National Grid Generation LLC	West Babylon Power Station BESS	K	Dec-25	50.0	TBD	TBD	50.0	50.0	Energy Storage		
994	KCE NY 22 LLC	KCE NY 22	K	Dec-24	90.0	TBD	TBD	90.0	90.0	Energy Storage		
995	Alabama Solar Park LLC, POC: Tatiana Stein	Alabama Solar Park LLC	B	Oct-27	130.0	TBD	TBD	130.0	130.0	Solar		
1007	NYC Energy	NYC Energy LLC - Phase 2	J	Sep-24	220.1	TBD	TBD	220.1	220.1	Energy Storage		
1008	KCE NY 26, LLC	KCE NY 26	K	Dec-25	60.0	TBD	TBD	60.0	60.0	Energy Storage		
1009	Granada Solar, LLC	Yellow Barn Solar	C	Dec-25	160.0	TBD	TBD	160.0	160.0	Solar		
1010	OCS-A 0522, LLC	Vineyard Wind I	K	Dec-26	1403.0	TBD	TBD	1403.0	1403.0	Wind Turbines		
1012	Suffolk County Energy Storage II	Suffolk County Storage II	K	May-24	76.9	TBD	TBD	76.9	76.9	Energy Storage		
1016	Beacon Wind LLC	EI Steinway 1	J	Nov-27	1300.0	TBD	TBD	1300.0	1300.0	Wind Turbines		
1017	Beacon Wind LLC	EI Steinway 2	J	Nov-28	1300.0	TBD	TBD	1300.0	1300.0	Wind Turbines		
1020	Beacon Wind LLC	EI Fort Salonga	K	Nov-27	1300.0	TBD	TBD	1300.0	1300.0	Wind Turbines		
1021	Beacon Wind LLC	EI East Shoreham	K	Nov-27	1300.0	TBD	TBD	1300.0	1300.0	Wind Turbines		
1023	KCE NY 27, LLC	KCE NY 27	K	Dec-25	50.0	TBD	TBD	50.0	50.0	Energy Storage		
1031	ConnectGen Montgomery County LLC	Mill Point Solar	E	Nov-25	250.0	TBD	TBD	250.0	250.0	Solar+Energy Storage		
1036	Juno Power Management LLC	Mainesburg ESS	C	Dec-26	130.0	TBD	TBD	130.0	130.0	Energy Storage		
1038	ELP Rotterdam Solar LLC	ELP Rotterdam Solar	A	Dec-25	20.0	TBD	TBD	20.0	20.0	Solar		
1040	Riverline Energy Center, LLC	Riverline Energy Center	E	Dec-25	200.0	TBD	TBD	200.0	200.0	Energy Storage		
1041	Silverline Energy Center, LLC	Silverline Energy Center	C	Dec-26	200.0	TBD	TBD	200.0	200.0	Solar		

Table IV-1: Proposed Generator Additions & CRIS Requests (cont'd)

QUEUE POS.	OWNER / OPERATOR	STATION	UNIT	ZONE	Proposed Date ⁶ (M-YY)	NAMEPLATE RATING (MW)	REQUESTED CRIS (MW) ¹	CRIS ¹ (MW)	SUMMER (MW)	WINTER (MW)	UNIT TYPE	CLASS YEAR	NOTES
1042	Boralex US Development LLC	Fort Edward Solar Farm (NY53)		F	Dec-25	100.0	TBD	TBD	100.0	100.0	Solar		
1045	Sunrise Wind LLC	NY Wind Holbrook 2 Uprate		K	Dec-25	1050.0	TBD	TBD	1050.0	1050.0	Wind Turbines		
1046	Island Park Energy Center, LLC	Barrett Energy Storage Center		K	Dec-26	200.0	TBD	TBD	200.0	200.0	Energy Storage		
1049	Clean Energy Generation, LLC	Holbrook Energy Center		K	Dec-25	150.0	TBD	TBD	150.0	150.0	Energy Storage		
1050	Clean Energy Generation, LLC	Holtsville Energy Center		K	Dec-25	150.0	TBD	TBD	150.0	150.0	Energy Storage		
1055	SWEB Development USA LLC	Addison Solar		C	Dec-24	120.0	TBD	TBD	120.0	120.0	Solar		
1066	Bay State Wind	NY Wind - Mott Haven		J	Apr-27	1272.0	TBD	TBD	1272.0	1272.0	Wind Turbines		
1068	Juno Power Management LLC	Buchanan Point BESS		H	May-26	300.0	TBD	TBD	300.0	300.0	Energy Storage		
1077	Rutland Center Solar 1, LLC	Rutland Center Solar		E	Jun-26	110.0	TBD	TBD	110.0	110.0	Solar		
1079	sPower Development Company, LLC	Somerset Solar		A	Mar-23	125.0	TBD	TBD	125.0	125.0	Solar		
1080	Mineral Basin Solar Power, LLC	Mineral Basin Solar Power		C	May-25	401.6	TBD	TBD	401.6	401.6	Solar		
1086	Juno Power Management LLC	Buchanan Point BESS II		H	May-26	500.0	TBD	TBD	500.0	500.0	Energy Storage		
1088	ConnectGen Cayuga County LLC	Harvest Hills Solar		C	Nov-25	200.0	TBD	TBD	200.0	200.0	Solar+Energy Storage		
1089	SED NY Holding LLC	Flat Creek Solar		F	Dec-24	200.0	TBD	TBD	200.0	200.0	Solar		
1096	Northland Power U.S. Projects	Allegany 2 Solar		C	Oct-25	100.0	TBD	TBD	100.0	100.0	Solar+Energy Storage		
1103	Cypress Creek Renewables, LLC	Thousand Island Solar		E	Apr-27	110.0	TBD	TBD	110.0	110.0	Solar		
1114	Clean Energy Generation, LLC	Wading River Energy Center		K	Dec-26	50.0	TBD	TBD	50.0	50.0	Energy Storage		
1115	SED NY Holdings LLC	Flat Creek Solar 2		F	Sep-26	100.0	TBD	TBD	100.0	100.0	Solar		
1117	Caithness LI Energy Storage, LLC	CLIES 70MW		K	Dec-24	70.0	TBD	TBD	70.0	70.0	Energy Storage		
1123	KCE NY 29, LLC	KCE NY 29		K	Oct-25	150.0	TBD	TBD	150.0	150.0	Energy Storage		
1130	Liberty Renewables Inc.	Hoffman Falls Wind		C	Dec-25	72.0	TBD	TBD	72.0	72.0	Wind Turbines		
1136	Honey Ridge Solar 1, LLC	Honey Ridge Solar		E	Sep-25	125.0	TBD	TBD	125.0	125.0	Solar+Energy Storage		
1139	Invenergy Solar Project Development LLC	Seventy-Seven Solar		C	Dec-28	100.0	TBD	TBD	100.0	100.0	Solar		
1141	Invenergy Solar Project Development LLC	Twingleaf Solar		E	Dec-26	75.0	TBD	TBD	75.0	75.0	Solar		
1148	Liberty Renewables Inc.	Agricola Wind		C	Jun-25	97.0	TBD	TBD	97.0	97.0	Wind Turbines		
1150	Moss Ridge Solar 1, LLC	Moss Ridge Solar		E	Dec-26	60.0	TBD	TBD	60.0	60.0	Solar		
1151	York Run Solar, LLC	York Run Solar		A	Aug-26	90.0	TBD	TBD	90.0	90.0	Solar		
1174	Boralex US Development	NY48 - Diamond Solar		E	Dec-25	60.0	TBD	TBD	60.0	60.0	Solar		
1178	Boralex US Development	NY115 - Newport Solar		E	Nov-26	130.0	TBD	TBD	130.0	130.0	Solar		
1180	Union Energy Center, LLC	Union Energy Center, LLC		H	Aug-25	150.0	TBD	TBD	150.0	150.0	Energy Storage		
1199	Beacon Wind LLC	El Steinway 1.1		J	Nov-27	300.0	TBD	TBD	300.0	300.0	Wind Turbines		
1323	Fresh Air Energy II	Lincoln ESC		K	Nov-25	100.0	TBD	TBD	100.0	100.0	Energy Storage		
<u>Non Class Year Generators (Small Generators)</u>													
<u>Interconnection Agreement Complete</u>													
545	Sky High Solar LLC	Sky High Solar		C	Jun-23	20.0	20.0	20.0	20.0	20.0	Solar		(2) (5) (10)
564	Rock District Solar, LLC	Rock District Solar		F	Jul-24	20.0	20.0	20.0	20.0	20.0	Solar		(2) (5) (7)
565	Tayandenega Solar, LLC	Tayandenega Solar		F	Jun-24	20.0	20.0	20.0	20.0	20.0	Solar		(2) (5) (7)
570	Hecate Energy, LLC	Albany County		F	Mar-23	20.0	20.0	20.0	20.0	20.0	Solar		(2) (5) (7)
572	Hecate Energy Greene 1 LLC	Greene County 1		G	Jan-23	20.0	20.0	20.0	20.0	20.0	Solar		(2) (5) (7)
573	Hecate Energy Greene 2 LLC	Greene County 2		G	Mar-23	10.0	10.0	10.0	10.0	10.0	Solar		(2) (5) (7)
581	SED NY Holdings LLC	Hills Solar		E	Aug-23	20.0	20.0	20.0	20.0	20.0	Solar		(2) (5) (8)
584	SunEast Dog Corners Solar LLC	Dog Corners Solar		C	Apr-24	20.0	20.0	20.0	20.0	20.0	Solar		(2) (5) (8)
586	SunEast Watkins Road Solar LLC	Watkins Rd Solar		E	Jun-23	20.0	20.0	20.0	20.0	20.0	Solar		(2) (5) (8)

Table IV-1: Proposed Generator Additions & CRIS Requests (cont'd)

QUEUE POS.	OWNER / OPERATOR	STATION	UNIT	ZONE	Proposed Date ⁶ (M-YY)	NAMEPLATE RATING (MW)	REQUESTED CRIS (MW) ¹	CRIS ¹ (MW)	SUMMER (MW)	WINTER (MW)	UNIT TYPE	CLASS YEAR	NOTES
590	Duke Energy Renewables Solar, LLC	Scipio Solar		C	Dec-24	18.0	N/A	N/A	18.0	18.0	Solar		(2) (5)
592	SunEast 2021 Acquisition LLC	Niagara Solar		B	Jun-25	20.0	N/A	N/A	20.0	20.0	Solar		(2) (5)
598	Hecate Energy, LLC	Albany County II		F	Mar-23	20.0	20.0	20.0	20.0	20.0	Solar		(2) (5) (7)
638	Pattersonville Solar Facility, LLC	Pattersonville		F	Oct-23	20.0	20.0	20.0	20.0	20.0	Solar		(2) (5) (7)
666	Martin Rd Solar LLC	Martin Rd Solar		A	Sep-23	20.0	20.0	20.0	20.0	20.0	Solar		(2) (5) (10)
667	Bakerstand Solar LLC	Bakerstand Solar		A	Oct-23	20.0	20.0	20.0	20.0	20.0	Solar		(2) (5) (10)
670	SunEast Skyline Solar LLC	Skyline Solar		E	Jul-23	20.0	20.0	20.0	20.0	20.0	Solar		(2) (5) (8)
730	Darby Solar, LLC	Darby Solar		F	Apr-23	20.0	20.0	20.0	20.0	20.0	Solar		(2) (5) (7)
734	ELP Ticonderoga Solar, LLC	ELP Ticonderoga Solar		F	Aug-24	20.0	20.0	20.0	20.0	20.0	Solar		(2) (5) (7)
735	ELP Stillwater Solar LLC	ELP Stillwater Solar		F	Oct-23	20.0	20.0	20.0	20.0	20.0	Solar		(2) (5) (7)
759	KCE NY 6, LLC	KCE NY 6		A	Jan-23	20.0	20.0	20.0	20.0	20.0	Energy Storage		(2) (5) (7)
807	SunEast Hilltop Solar LLC	Hilltop Solar		F	Jul-23	20.0	20.0	20.0	20.0	20.0	Solar		(2) (5) (9)
848	SunEast Fairway Solar LLC	Fairway Solar		E	Mar-25	20.0	20.0	20.0	20.0	20.0	Solar		(2) (5) (9)
855	Bald Mountain Solar LLC	NY 13 Solar		F	Nov-23	20.0	20.0	20.0	20.0	20.0	Solar		(2) (5) (9)
<u>Non Class Year Generators (Small Generators)</u>													
<u>Facilities Study Complete</u>													
575	Little Pond Solar, LLC	Little Pond Solar		G	Jul-23	20.0	20.0	10.0	20.0	20.0	Solar		(5) (7)
744	Granada Solar, LLC	Magruder Solar		G	Dec-22	20.0	20.0	20.0	20.0	20.0	Solar		(5) (9)
784	High Bridge Wind, LLC	High Bridge Wind		E	Nov-23	5.0	N/A	N/A	5.0	5.0	Wind Turbines		(5)
804	KCE NY 10, LLC	KCE NY 10		A	Oct-23	20.0	20.0	20.0	20.0	20.0	Energy Storage		(5) (7)
827	NRG Arthur Kill Storage LLC	Arthur Kill Energy Storage 1		J	Jun-24	15.0	15.0	15.0	15.0	15.0	Energy Storage		(5) (14)
828	SunEast Valley Solar LLC	Valley Solar		C	Nov-24	20.0	20.0	20.0	20.0	20.0	Solar		(5) (9)
832	Granada Solar, LLC	CS Hawthorn Solar		F	Feb-24	20.0	20.0	20.0	20.0	20.0	Solar		(5) (10)
833	Dolan Solar, LLC	Dolan Solar		F	Sep-23	20.0	20.0	20.0	20.0	20.0	Solar		(5) (10)
863	Mitsubishi Hitachi Power Systems Americas, Inc.	Coverdale Solar		B	Jun-24	20.0	20.0	20.0	20.0	20.0	Solar		(5) (11)
865	SED NY Holdings LLC	Flat Hill Solar		E	Sep-23	20.0	20.0	20.0	20.0	20.0	Solar		(5) (10)
885	SED NY Holdings LLC	Grassy Knoll Solar		E	Sep-23	20.0	20.0	20.0	20.0	20.0	Solar		(5) (10)
1003	Oriden LLC	Clear View Solar		C	Jun-24	20.0	20.0	20.0	20.0	20.0	Solar		(5) (11)
<u>Non Class Year Generators (Small Generators)</u>													
<u>Facilities Study In Progress</u>													
843	Sandy Creek Solar LLC	NY37 Solar		E	Nov-23	20.0	N/A	N/A	20.0	20.0	Solar		(5)
1000	SED NY Holdings LLC	SunEast Flat Stone Solar LLC		E	Nov-23	20	N/A	N/A	20	20	Solar		(5)
1015	Granada Solar, LLC	Somers Solar, LLC		F	Dec-24	20.0	N/A	N/A	20.0	20.0	Solar		(5)
1018	Naturgy Candela DevCo LLC	Stone Mill Solar		F	Jan-25	20.0	N/A	N/A	20.0	20.0	Solar		(5)
1047	SED NY Holdings LLC	Millers Grove Solar		E	Nov-23	20.0	N/A	N/A	20.0	20.0	Solar		(5)
1059	ACE DEVCO NC, LLC	Jaton		C	Nov-25	16.2	N/A	N/A	16.2	16.2	Solar		(5)
1061	ACE DEVCO NC, LLC	Teele		E	Jul-24	19.8	N/A	N/A	19.8	19.8	Solar		(5)
1113	Caithness LI Energy Storage, LLC	CLIES 20 MW		K	Dec-25	20	N/A	N/A	20	20	Energy Storage		(5)
1212	EMEREN US, LLC	Roosevelt Solar LLC		D	Dec-25	19.9	N/A	N/A	19.9	19.9	Solar+Energy Storage		(5)
									Total	33,107.7	33,102.4		

Notes for Table IV-1: Proposed Generator Additions & CRIS Requests

1	"Requested CRIS" values reflect the Summer CRIS MW initially requested in the current Class Year Deliverability Study. "CRIS" values reflect the Summer CRIS MW deemed deliverable.
2	Projects included as expected additions in this year's Load and Capacity Schedule, Table V-2a & V-2b.
3	Class Year 2021 CRIS-only projects.
4	Projects that are members of Class Year 2021 Additional SDU Study.
5	Small Generating Facilities that are not subject to a Class Year Study but have an executed Small Generator Facilities Study Agreement.
6	For projects in this Table, this date is the proposed Commercial Operation Date. These dates are proposed to the NYISO by the Developer and are typically updated throughout the interconnection study process and throughout project development, to the extent permitted by Attachments X and Z to the OATT.
7	Projects obtained CRIS via Class Year 2019
8	Projects obtained CRIS via Expedited Deliverability Study 2020-01
9	Projects obtained CRIS via Expedited Deliverability Study 2020-02
10	Projects obtained CRIS via Expedited Deliverability Study 2021-01
11	Projects obtained CRIS via Expedited Deliverability Study 2022-01
12	Q#987 is a 44 MW uprate of Q#766.
13	Omitted
14	Projects obtain CRIS via Class Year 2021
15	Projects that are potential candidates for future Class Year, i.e., Large Generating Facilities with Operating Committee approved System Reliability Impact Studies and Small Generating Facilities that have completed a comparable milestone and for which non-Local System Upgrade Facilities are required.
16	A 270 MW Co-located Storage Resource Project receiving (1) 270 MW ERIS of solar and 20 MW ERIS of energy storage and (2) 250 MW CRIS of solar and 20 MW CRIS of energy storage.
17	Q#396 consists of two phases: Phase 1 - 121.8 MW and Phase 2: 117 MW. Phase 1 is currently in commercial operation.

Table IV-2: Proposed Generator Re-ratings, as of March 15, 2023

There are no proposed generator re-ratings applicable for this Gold Book as of March 15, 2023.

Tables IV-3, IV-4 and IV-5: Generator Deactivations

Table IV-3: Deactivated Units with Unexpired CRIS Rights Not Listed in Section III Existing Generating Facilities, as of March 15, 2023

OWNER / OPERATOR	STATION	UNIT	ZONE	DATE ⁽¹⁾	PTID	CRIS (MW)		CAPABILITY (MW)		Status ⁽³⁾
						SUMMER ⁽²⁾	WINTER ⁽²⁾	SUMMER ⁽²⁾	WINTER ⁽²⁾	
Somerset Operating Company, LLC	Somerset		A	03/12/2020	23543	686.5	686.5	676.4	684.4	R
Entergy Nuclear Power Marketing LLC	Indian Point 2		H	04/30/2020	23530	1,026.5	1,026.5	1,011.5	1,029.4	R
Albany Energy LLC	Albany LFGE		F	07/01/2020	323615	4.5	4.5	5.6	5.6	I
Entergy Nuclear Power Marketing LLC	Indian Point 3		H	04/30/2021	23531	1,040.4	1,040.4	1,036.3	1,038.8	R
Helix Ravenswood, LLC	Ravenswood 11 ⁽⁴⁾		J	12/01/2021	24259	20.2	25.7	16.1	22.4	I
Helix Ravenswood, LLC	Ravenswood 01 ⁽⁴⁾		J	01/01/2022	23729	8.8	11.5	7.7	11.1	I
Astoria Generating Company L.P.	Gowanus 1-8 ⁽⁴⁾		J	11/01/2022	24113	16.1	21.0	16.0	21.0	R
Total						2,803.0	2,816.1	2,769.6	2,812.7	

1. Approximate date of generator status change; not necessarily the date the generator became CRIS-inactive.

2. The CRIS, and Summer and Winter capacity levels are those that were in effect when the unit was last in service.

3. M = Mothball Outage per MST Section 5.18; R = retired or Retired as defined in the MST; I = ICAP Ineligible Forced Outage per MST Section 5.18.

4. This unit has also submitted a peaker rule compliance plan to the DEC.

Tables IV-3, IV-4 and IV-5: Generator Deactivations

Table IV-4: Deactivated Units Listed in Section III Existing Generating Facilities, as of March 15, 2023

OWNER / OPERATOR	STATION	UNIT	ZONE	DATE	PTID	CRIS (MW)		CAPABILITY (MW)		Status ⁽¹⁾
						SUMMER ⁽²⁾	WINTER ⁽²⁾	SUMMER ⁽²⁾	WINTER ⁽²⁾	
Exelon Generation Company, LLC	Madison County LF		E	04/01/2022	323628	1.6	1.6	1.6	1.6	I
ENGIE Energy Marketing NA, Inc.	Nassau Energy Corporation		K	07/15/2022	323695	51.6	60.1	38.5	51.0	R
Astoria Generating Company L.P.	Gowanus 1-1 ⁽³⁾		J	11/01/2022	24077	19.1	24.9	15.9	24.8	R
Astoria Generating Company L.P.	Gowanus 1-2 ⁽³⁾		J	11/01/2022	24078	17.1	22.3	19.5	24.9	R
Astoria Generating Company L.P.	Gowanus 1-3 ⁽³⁾		J	11/01/2022	24079	17.2	22.5	15.3	23.4	R
Astoria Generating Company L.P.	Gowanus 1-4 ⁽³⁾		J	11/01/2022	24080	17.1	22.3	16.4	21.7	R
Astoria Generating Company L.P.	Gowanus 1-5 ⁽³⁾		J	11/01/2022	24084	16.5	21.6	17.8	22.7	R
Astoria Generating Company L.P.	Gowanus 1-6 ⁽³⁾		J	11/01/2022	24111	18.0	23.5	14.2	21.3	R
Astoria Generating Company L.P.	Gowanus 1-7 ⁽³⁾		J	11/01/2022	24112	17.6	23.0	18.0	22.4	R
Consolidated Edison Co. of NY, Inc.	Hudson Ave 3 ⁽³⁾		J	11/01/2022	23810	16.0	20.9	12.3	15.6	R
Consolidated Edison Co. of NY, Inc.	Hudson Ave 5 ⁽³⁾		J	11/01/2022	23657	15.1	19.7	15.3	18.6	R
Astoria Generating Company L.P.	Gowanus 4-1 ⁽³⁾		J	11/01/2022	24130	16.8	21.9	15.2	24.1	R
Astoria Generating Company L.P.	Gowanus 4-2 ⁽³⁾		J	11/01/2022	24131	17.3	22.6	18.5	23.5	R
Astoria Generating Company L.P.	Gowanus 4-3 ⁽³⁾		J	11/01/2022	24132	17.6	23.0	18.4	22.0	R
Astoria Generating Company L.P.	Gowanus 4-4 ⁽³⁾		J	11/01/2022	24133	17.1	22.3	16.0	21.5	R
Astoria Generating Company L.P.	Gowanus 4-5 ⁽³⁾		J	11/01/2022	24134	17.1	22.3	16.6	22.1	R
Astoria Generating Company L.P.	Gowanus 4-6 ⁽³⁾		J	11/01/2022	24135	18.6	24.3	18.5	24.3	R
Astoria Generating Company L.P.	Gowanus 4-7 ⁽³⁾		J	11/01/2022	24136	16.6	21.7	18.4	23.6	R
Astoria Generating Company L.P.	Gowanus 4-8 ⁽³⁾		J	11/01/2022	24137	19.0	24.8	17.2	22.3	R
Total						347.0	445.3	323.6	431.4	

1. M = Mothball Outage per MST Section 5.18; R = retired or Retired as defined in the MST; I = ICAP Ineligible Forced Outage per MST Section 5.18.

2. The CRIS, and Summer and Winter capacity levels are those that were in effect when the unit was last in service.

3. This unit has also submitted a peaker rule compliance plan to the DEC.

Tables IV-3, IV-4 and IV-5: Generator Deactivations

Table IV-5: Notices of Proposed Deactivations¹ as of March 15, 2023

OWNER / OPERATOR	STATION	UNIT	ZONE	DATE ⁽²⁾	PTID	CRIS (MW)		CAPABILITY (MW)		Notes
						SUMMER	WINTER	SUMMER	WINTER	
Consolidated Edison Co. of NY, Inc.	74 St.	GT 1	J	05/01/2023	24260	19.0	23.5	18.5	21.7	3
Consolidated Edison Co. of NY, Inc.	74 St.	GT 2	J	05/01/2023	24261	20.1	25.7	19.3	21.9	3
Astoria Generating Company, L.P.	Astoria	GT 01	J	05/01/2023	23523	15.7	20.5	13.4	19.1	3
NRG Power Marketing LLC	Astoria	GT 2-1	J	05/01/2023	24094	41.2	50.7	34.9	46.5	3
NRG Power Marketing LLC	Astoria	GT 2-2	J	05/01/2023	24095	42.4	52.2	34.3	45.6	3
NRG Power Marketing LLC	Astoria	GT 2-3	J	05/01/2023	24096	41.2	50.7	36.3	46.7	3
NRG Power Marketing LLC	Astoria	GT 2-4	J	05/01/2023	24097	41.0	50.5	32.5	45.4	3
NRG Power Marketing LLC	Astoria	GT 3-1	J	05/01/2023	24098	41.2	50.7	34.6	45.0	3
NRG Power Marketing LLC	Astoria	GT 3-2	J	05/01/2023	24099	43.5	53.5	35.7	45.3	3
NRG Power Marketing LLC	Astoria	GT 3-3	J	05/01/2023	24100	43.0	52.9	33.9	44.6	3
NRG Power Marketing LLC	Astoria	GT 3-4	J	05/01/2023	24101	43.0	52.9	34.9	45.5	3
NRG Power Marketing LLC	Astoria	GT 4-1	J	05/01/2023	24102	42.6	52.4	33.6	43.8	3
NRG Power Marketing LLC	Astoria	GT 4-2	J	05/01/2023	24103	41.4	51.0	34.3	44.3	3
NRG Power Marketing LLC	Astoria	GT 4-3	J	05/01/2023	24104	41.1	50.6	35.4	46.4	3
NRG Power Marketing LLC	Astoria	GT 4-4	J	05/01/2023	24105	42.8	52.7	35.2	44.1	3
Helix Ravenswood, LLC	Ravenswood	10	J	05/01/2023	24258	21.2	27.0	16.1	20.3	3
Total						580.4	717.5	482.9	626.2	

1. Units listed in Table IV-5 have provided a notice to the NYSPSC and/or have a completed Generator Deactivation Notice with the NYISO.

2. This date refers to the proposed generator deactivation date stated in the generator deactivation notice

3. This unit has also submitted a peaker rule compliance plan to the DEC.

Table IV-6: Proposed Generator Status Changes to Comply with DEC Peaker Rule ¹

OWNER / OPERATOR	STATION UNIT	ZONE	DATE	PTID	CRIS (MW)		CAPABILITY (MW)		Notes
					SUMMER	WINTER	SUMMER	WINTER	
Central Hudson Gas & Elec. Corp.	Coxsackie GT	G	05/01/2023	23611	21.6	26.0	19.0	23.6	2
Central Hudson Gas & Elec. Corp.	South Cairo	G	05/01/2023	23612	19.8	25.9	18.7	23.1	2
National Grid	Northport GT	K	05/01/2023	23718	13.8	18.0	8.3	12.7	2
National Grid	Port Jefferson GT 01	K	05/01/2023	23713	14.1	18.4	13.0	15.3	2
National Grid	Shoreham 1	K	05/01/2023	23715	48.9	63.9	41.3	61.4	2, 4
National Grid	Shoreham 2	K	05/01/2023	23716	18.5	23.5	16.5	20.3	2, 4
National Grid	Glenwood GT 03	K	05/01/2023	23689	54.7	71.5	49.9	67.2	2, 4
Consolidated Edison Co. of NY, Inc.	59 St. GT 1	J	05/01/2025	24138	15.4	20.1	13.1	18.8	2
NRG Power Marketing, LLC	Arthur Kill GT 1	J	05/01/2025	23520	16.5	21.6	12.3	15.8	2
Astoria Generating Company, L.P.	Gowanus 2-1 through 2-8	J	05/01/2025	24114-24121	152.8	199.6	142.1	182.0	3
Astoria Generating Company, L.P.	Gowanus 3-1 through 3-8	J	05/01/2025	24122-24129	146.8	191.7	136.9	179.9	3
Astoria Generating Company, L.P.	Narrows 1-1 through 2-8	J	05/01/2025	24228-24243	309.1	403.6	285.9	369.2	3
Total					832.0	1,083.8	757.0	989.3	

1. Units listed have not provided a notice to the NYS PSC or completed a Generator Deactivation Notice with the NYISO.
2. These units have indicated they will be out of service as noted in their compliance plans in response to the DEC peaker rule.
3. These units have indicated they will be out of service during the ozone season (May through September) in their compliance plans in response to the DEC peaker rule.
4. Long Island Power Authority (LIPA) has submitted notifications to the DEC per Part 227-3 of the Peaker Rule stating that these units are needed for reliability allowing these units to operate as directed by PSEG Long Island, until at least May 1, 2025

Table IV-7: Large Load Interconnection Requests

QUEUE POS.	OWNER / OPERATOR	PROJECT	ZONE	Proposed Date ¹ (M-YY)	SUMMER (MW) ³	WINTER (MW) ³	NOTES
580	Genesee County Economic Devel.	WNY STAMP	B	Jun-24	300.0	300.0	(2)
776	Greenidge Generation LLC	Greenidge Load	C	Dec-22	60.0	60.0	
849	Somerset Operating Company, LLC	Somerset Load	A	I/S	250.0	250.0	(2)
850	Cayuga Operating Company, LLC	Cayuga Load	C	Dec-23	50.0	50.0	(2)
979	North Country Data Center	Load Increase at North Country Data Center	D	I/S	176.0	176.0	(2) (4)
1213	Petawatt Holdings, Inc.	St Lawrence Data and Agricultural Center	D	Jun-23	200.0	200.0	
1315	Sabey Data Center Properties, LLC	SDC St. Lawrence	D	Aug-25	120.0	120.0	
1446	Air Products and Chemical Inc	Massena Green Hydrogen	D	Oct-25	110.0	110.0	(2)
1465	Digihost Technologies, Inc.	Digihost Load	A	Apr-23	50.2	50.2	(5)
Total					1,316.2	1,316.2	

1. For projects in this table, this date is the proposed In-Service Date.

2. Projects included in Table I-14: Large Loads Forecast. Table I-14 lists the annual zonal energy and peak demand impacts of these projects as assumed in the forecast, and does not necessarily reflect the proposed date and summer and winter MW listed in this table. Table I-14 also includes impacts for loads not listed in the NYISO Interconnection Queue as of March 15, 2023.

3. The values in this table reflect the information from the NYISO Interconnection Queue.

4. This project is a 176 MW uprate of an existing 259 MW load facility, resulting in a total load of 435 MW.

5. This project is a 50.2 MW uprate of an existing 9.8 MW load facility, resulting in a total load of 60 MW.

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Section V

NYCA Capacity Schedule

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Section V

This section provides a summary of projected NYCA capacity from 2023 through 2033 (as of March 15, 2023). Table V-1 summarizes Net Capacity Purchases (MW) from External Control Areas from 2023 through 2033. Table V-2a summarizes the NYCA Capacity Schedule for the Summer Capability Period from 2022 through 2033. Table V-2b summarizes the NYCA Capacity Schedule for the Winter Capability Period from 2022-23 through 2033-34. Information for Tables V-2a and V-2b is obtained from Tables I-1, III-2, IV-1 through IV-5, and V-1. Definitions of the entries reported in Table V-2 are listed on the following page. Table V-3 lists historical Installed Reserve Margin (“IRM”) values as approved by the New York State Reliability Council (“NYSRC”) for the New York Control Area and the historical minimum Locational Capacity Requirements (“LCRs”) approved by the NYISO for the Zones G-J, Zone J, and Zone K localities.

The NYISO’s Installed Capacity market rules allow Special Case Resources (*i.e.*, interruptible load customers and qualified Local Generators) to participate in the Installed Capacity market. Based on current projections, these customers are expected to provide 1,226.0 MW of summer capacity and 801.5 MW of winter capacity. Tables V-2a and V-2b include the summer and winter capacity projections for SCR.

The projected NYCA resource capability for the 2023 Summer Capability Period is 38,120.0 MW. This value is the sum of existing facilities (37,177.9 MW), Special Case Resources (1,226.0 MW), and projected net generation changes (decrease of 283.9 MW). With the inclusion of net Capacity purchases from external control areas of 2,141.6 MW, the total resource capability is 40,261.6 MW.

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Definitions of Labels on NYCA Capacity Schedule

Additions	Generating additions expected prior to the seasonal peak demand
Adjusted Resource Capability	The Total Resource Capability plus all Proposed Resource Changes
Capability Resource Interconnection Service (CRIS)	CRIS values, in MW of Installed Capacity, for the Summer/Winter Capability Period established pursuant to the applicable deliverability requirements contained in Attachments X, S, and Z to the NYISO OATT
Net Capacity Purchases	Positive values of net capacity purchases represent capacity that is imported to NYCA, after subtracting sales that are exported to other control areas
Noticed Deactivations	Noticed generator deactivations (retirements, mothballs, generator outages) expected prior to the seasonal peak demand
NYCA Resource Capability	Summation of all existing generation, additions, re-ratings, retirements and Special Case Resources
Re-rates	Generating re-rates expected prior to the seasonal peak demand
Special Case Resources (SCR)	SCR are loads capable of being interrupted upon demand and Local Generators that are not visible to the ISO's Market Information System. SCR are subject to special rules in order to participate as Capacity suppliers
Total Resource Capability	The sum of NYCA Resource Capability and Net Purchases
Unforced Capability Deliverability Right (UDR)	Controllable transmission project that provides a transmission interface into NYCA

Table V-1: Summary of Projected Net Capacity Purchases from External Control Areas

Summer Net Capacity Purchases										
MW										
2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
2,141.6	1,931.9	1,814.6	3,211.6	3,518.0	3,518.0	3,518.0	3,518.0	3,518.0	3,518.0	3,518.0

Winter Net Capacity Purchases										
MW										
2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	2031/32	2032/33	2033/34
1,588.6	1,049.8	932.5	1,079.5	1,385.9	1,385.9	1,385.9	1,385.9	1,385.9	1,385.9	1,385.9

Notes

- (1) – Positive values of Net Capacity Purchases represent capacity that is imported to NYCA, after subtracting capacity sales that are exported to other control areas.
- (2) – Figures include the election of Unforced Capacity Deliverability Rights (UDRs), External CRIS Rights, Existing Transmission Capacity for Native Load (ETCNL) elections, estimated First Come First Serve Rights (FCFSR), and grandfathered exports. For more information on the use of UDRs, please see section 4.14 of the ICAP Manual.
- (3) – The only forward capacity market transactions reflected in the above values are forward capacity market transactions with ISO-NE through 2026, excluding wheel transactions from HQ to ISO-NE.
- (4) – Includes assumptions of CHPE line availability from Table VII: Proposed Transmission Facilities (Queue Nos. 631 and 887).
- (5) – Includes data as recent as March 31st, 2023.

Table V-2a: NYCA Capacity Schedule – Summer Capability Period

SUMMER CAPABILITY	2022												Totals	
	<i>(from 2022 Gold Book)</i>	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033		
Fossil														
Steam Turbine (Oil)	811.7	798.1	798.1	798.1	798.1	798.1	798.1	798.1	798.1	798.1	798.1	798.1	798.1	
Steam Turbine (Oil & Gas)	8,490.2	8,416.8	8,416.8	8,416.8	8,416.8	8,416.8	8,416.8	8,416.8	8,416.8	8,416.8	8,416.8	8,416.8	8,416.8	
Steam Turbine (Gas)	1,480.4	1,421.6	1,421.6	1,421.6	1,421.6	1,421.6	1,421.6	1,421.6	1,421.6	1,421.6	1,421.6	1,421.6	1,421.6	
Combined Cycle (Oil & Gas)	8,484.5	8,386.5	8,386.5	8,386.5	8,386.5	8,386.5	8,386.5	8,386.5	8,386.5	8,386.5	8,386.5	8,386.5	8,386.5	
Combined Cycle (Gas)	2,516.1	2,456.7	2,456.7	2,456.7	2,456.7	2,456.7	2,456.7	2,456.7	2,456.7	2,456.7	2,456.7	2,456.7	2,456.7	
Jet Engine (Oil)	617.4	613.5	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	597.0	
Jet Engine (Oil & Gas)	1,338.8	1,312.7	881.0	881.0	881.0	881.0	881.0	881.0	881.0	881.0	881.0	881.0	881.0	
Jet Engine (Gas)	54.0	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	
Combustion Turbine (Oil)	840.6	562.3	393.3	393.3	393.3	393.3	393.3	393.3	393.3	393.3	393.3	393.3	393.3	
Combustion Turbine (Oil & Gas)	966.3	948.4	929.4	929.4	929.4	351.4	351.4	351.4	351.4	351.4	351.4	351.4	351.4	
Combustion Turbine (Gas)	658.1	649.7	636.3	636.3	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	
Internal Combustion (Oil)	18.2	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	
Internal Combustion (Oil & Gas)	16.0	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	
Internal Combustion (Gas)	9.0	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	
Nuclear														
Steam (PWR Nuclear)	580.2	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3	
Steam (BWR Nuclear)	2,761.0	2,724.3	2,724.3	2,724.3	2,724.3	2,724.3	2,724.3	2,724.3	2,724.3	2,724.3	2,724.3	2,724.3	2,724.3	
Renewable														
Conventional Hydro (4)	4,273.8	4,265.3	4,265.3	4,265.3	4,265.3	4,265.3	4,265.3	4,265.3	4,265.3	4,265.3	4,265.3	4,265.3	4,265.3	
Internal Combustion (Methane) (4)	99.7	103.7	103.7	103.7	103.7	103.7	103.7	103.7	103.7	103.7	103.7	103.7	103.7	
Steam Turbine (Refuse) (4)	226.4	226.0	226.0	226.0	226.0	226.0	226.0	226.0	226.0	226.0	226.0	226.0	226.0	
Wind (4) (5)	1,817.6	2,050.6	2,266.3	2,603.1	3,349.9	4,621.0	7,146.0	7,146.0	7,146.0	7,146.0	7,146.0	7,146.0	7,146.0	
Solar (4) (7)	51.5	154.4	284.4	1,020.4	3,020.6	3,400.6	3,400.6	3,400.6	3,400.6	3,400.6	3,400.6	3,400.6	3,400.6	
Storage														
Energy Storage	0.0	0.0	20.0	240.0	649.8	1,506.1	1,689.1	1,689.1	1,689.1	1,689.1	1,689.1	1,689.1	1,689.1	
Pumped Storage Hydro	1,408.8	1,407.4	1,407.4	1,407.4	1,407.4	1,407.4	1,407.4	1,407.4	1,407.4	1,407.4	1,407.4	1,407.4	1,407.4	
GENERATING FACILITIES (11)	37,520.3	37,177.9	36,894.0	38,186.8	40,753.3	43,260.7	45,968.7	45,968.7	45,968.7	45,968.7	45,968.7	45,968.7	45,968.7	
Expected Changes														
Additions and Re-rates (2)	162.9	365.7	1,292.8	3,156.8	2,507.4	2,708.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10,030.7
Noticed Deactivations (8)	-252.6	-482.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-482.9
DEC Peaker Rule Compliance (10)	0.0	-166.7	0.0	-590.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-757.0
Subtotal of Expected Changes	-89.7	-283.9	1,292.8	2,566.5	2,507.4	2,708.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8,790.8
Special Case Resources - SCR (3)	1,164.1	1,226.0	1,226.0	1,226.0	1,226.0	1,226.0	1,226.0	1,226.0	1,226.0	1,226.0	1,226.0	1,226.0	1,226.0	
NYCA RESOURCE CAPABILITY (12)	38,594.7	38,120.0	39,412.8	41,979.3	44,486.7	47,194.7	47,194.7	47,194.7	47,194.7	47,194.7	47,194.7	47,194.7	47,194.7	
Contracts														
Net Capacity Purchases (1) (6)	2,465.2	2,141.6	1,931.9	1,814.6	3,211.6	3,518.0	3,518.0	3,518.0	3,518.0	3,518.0	3,518.0	3,518.0	3,518.0	
TOTAL RESOURCE CAPABILITY	41,059.9	40,261.6	41,344.7	43,793.9	47,698.3	50,712.7	50,712.7	50,712.7	50,712.7	50,712.7	50,712.7	50,712.7	50,712.7	
Proposed Resource Changes (9)		0.0	76.8	226.8	226.8	226.8	226.8	226.8	226.8	226.8	226.8	226.8	226.8	
Adjusted Resource Capability		40,261.6	41,421.5	44,020.7	47,925.1	50,939.5	50,939.5	50,939.5	50,939.5	50,939.5	50,939.5	50,939.5	50,939.5	

Table V-2b: NYCA Capacity Schedule – Winter Capability Period

		2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	2031/32	2032/33	2033/34	Totals
WINTER CAPABILITY		<i>(from 2022 Gold Book)</i>												
Fossil	Steam Turbine (Oil)	821.2	824.2	824.2	824.2	824.2	824.2	824.2	824.2	824.2	824.2	824.2	824.2	
	Steam Turbine (Oil & Gas)	8,568.6	8,516.7	8,516.7	8,516.7	8,516.7	8,516.7	8,516.7	8,516.7	8,516.7	8,516.7	8,516.7	8,516.7	
	Steam Turbine (Gas)	1,489.2	1,481.4	1,481.4	1,481.4	1,481.4	1,481.4	1,481.4	1,481.4	1,481.4	1,481.4	1,481.4	1,481.4	
	Combined Cycle (Oil & Gas)	9,791.3	9,650.3	9,650.3	9,650.3	9,650.3	9,650.3	9,650.3	9,650.3	9,650.3	9,650.3	9,650.3	9,650.3	
	Combined Cycle (Gas)	2,866.5	2,839.5	2,839.5	2,839.5	2,839.5	2,839.5	2,839.5	2,839.5	2,839.5	2,839.5	2,839.5	2,839.5	
	Jet Engine (Oil)	747.3	746.4	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1	
	Jet Engine (Oil & Gas)	1,564.1	1,538.1	974.6	974.6	974.6	974.6	974.6	974.6	974.6	974.6	974.6	974.6	
	Jet Engine (Gas)	58.8	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	
	Combustion Turbine (Oil)	1,100.9	711.3	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	
	Combustion Turbine (Oil & Gas)	1,203.3	1,179.8	1,156.2	1,156.2	1,137.4	1,137.4	1,137.4	1,137.4	1,137.4	1,137.4	1,137.4	1,137.4	
	Combustion Turbine (Gas)	685.8	676.4	657.3	657.3	641.5	641.5	641.5	641.5	641.5	641.5	641.5	641.5	
	Internal Combustion (Oil)	19.7	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	
	Internal Combustion (Oil & Gas)	16.0	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	
	Internal Combustion (Gas)	10.0	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	
Nuclear	Steam (PWR Nuclear)	581.3	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	
	Steam (BWR Nuclear)	2,777.0	2,773.8	2,773.8	2,773.8	2,773.8	2,773.8	2,773.8	2,773.8	2,773.8	2,773.8	2,773.8	2,773.8	
Renewable	Conventional Hydro (4)	4,227.8	4,207.2	4,207.2	4,207.2	4,207.2	4,207.2	4,207.2	4,207.2	4,207.2	4,207.2	4,207.2	4,207.2	
	Internal Combustion (Methane) (4)	99.7	103.7	103.7	103.7	103.7	103.7	103.7	103.7	103.7	103.7	103.7	103.7	
	Steam Turbine (Refuse) (4)	230.5	231.5	231.5	231.5	231.5	231.5	231.5	231.5	231.5	231.5	231.5	231.5	
	Wind (4) (5)	1,817.6	2,050.6	2,603.1	2,720.1	4,621.0	7,146.0	7,146.0	7,146.0	7,146.0	7,146.0	7,146.0	7,146.0	
	Solar (4) (7)	51.5	154.4	604.4	2,700.6	3,400.6	3,400.6	3,400.6	3,400.6	3,400.6	3,400.6	3,400.6	3,400.6	
Storage	Energy Storage	0.0	0.0	220.0	389.8	799.8	1,689.1	1,689.1	1,689.1	1,689.1	1,689.1	1,689.1	1,689.1	
	Pumped Storage Hydro	1,410.9	1,407.6	1,407.6	1,407.6	1,407.6	1,407.6	1,407.6	1,407.6	1,407.6	1,407.6	1,407.6	1,407.6	
GENERATING FACILITIES (11)		40,139.0	39,782.9	40,155.6	42,538.6	45,514.9	48,929.2	48,929.2	48,929.2	48,929.2	48,929.2	48,929.2	48,929.2	
Expected Changes	Expected Changes													
	Additions and Re-rates (2)	2,043.9	1,222.5	2,383.0	3,010.9	3,414.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10,030.7
	Noticed Deactivations (8)	-657.9	-626.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-626.2
	DEC Peaker Rule Compliance (10)	0.0	-223.6	0.0	-34.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-258.2
	Subtotal of Expected Changes	1,386.0	372.7	2,383.0	2,976.3	3,414.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9,146.3
Special Case Resources - SCR (3)	693.6	801.5	801.5	801.5	801.5	801.5	801.5	801.5	801.5	801.5	801.5	801.5	801.5	
NYCA RESOURCE CAPABILITY (12)		42,218.6	40,957.1	43,340.1	46,316.4	49,730.7	49,730.7	49,730.7	49,730.7	49,730.7	49,730.7	49,730.7	49,730.7	
Contracts	Net Capacity Purchases (1) (6)	2,097.1	1,588.6	1,049.8	932.5	1,079.5	1,385.9	1,385.9	1,385.9	1,385.9	1,385.9	1,385.9	1,385.9	
	TOTAL RESOURCE CAPABILITY	44,315.7	42,545.7	44,389.9	47,248.9	50,810.2	51,116.6	51,116.6	51,116.6	51,116.6	51,116.6	51,116.6	51,116.6	

Notes for Table V-2 NYCA Capacity Schedule

(1)	Net Capacity Purchases - Positive values of Net Capacity Purchases represent capacity that is imported to NYCA, after subtracting capacity sales that are exported to other control areas.
(2)	Additions and Re-rates: Projects that have either completed a Class Year Interconnection Facilities Study or an Interconnection Agreement for Non Class Year Generators, as shown in Table IV-1.
(3)	Special Case Resources (SCR) are loads capable of being interrupted upon demand and Local Generators that are not visible to the ISO's Market Information System. SCRs are subject to special rules in order to participate as Capacity suppliers.
(4)	The renewable category does not necessarily match New York State policy definitions.
(5)	Existing wind generators are listed at their full nameplate rating.
(6)	Figures include the use of Unforced Capacity Deliverability Rights (UDR) as currently known. For more information on the use of UDR, please see Section 4.14 of the ICAP Manual.
(7)	Existing solar generators are listed at their full nameplate rating.
(8)	Noticed deactivations as shown in Table IV-5. Existing Retirements in Table IV-4 are accounted for in the list of 2023 Existing Generating Facilities.
(9)	Proposed Resource Changes: Projects that are members of Class Year 2021 Additional SDU Study.
(10)	Proposed generator status changes to comply with DEC Peaker Rule, as shown in Table IV-6.
(11)	Resource capability as of end of previous year's like capability period.
(12)	NYCA resource capability inclusive of SCRs, existing generation, additions, re-rates and deactivations.

Table V-3: Historical IRM and LCR Values

Capability Year (May - April)	IRM (%)	Zone J LCR (%)	Zone K LCR (%)	G-to-J LCR (%)
2000	18.0	80.0	107.0	--
2001	18.0	80.0	98.0	--
2002	18.0	80.0	93.0	--
2003	18.0	80.0	95.0	--
2004	18.0	80.0	99.0	--
2005	18.0	80.0	99.0	--
2006	18.0	80.0	99.0	--
2007	16.5	80.0	99.0	--
2008	15.0	80.0	94.0	--
2009	16.5	80.0	97.5	--
2010	18.0	80.0	104.5	--
2011	15.5	81.0	101.5	--
2012	16.0	83.0	99.0	--
2013	17.0	86.0	105.0	--
2014	17.0	85.0	107.0	88.0
2015	17.0	83.5	103.5	90.5
2016	17.5	80.5	102.5	90.0
2017	18.0	81.5	103.5	91.5
2018	18.2	80.5	103.5	94.5
2019	17.0	82.8	104.1	92.3
2020	18.9	86.6	103.4	90.0
2021	20.7	80.3	102.9	87.6
2022	19.6	81.2	99.5	89.2
2023	20.0	81.7	105.2	85.4

Note: Historical Installed Reserve Margin (“IRM”) percentage values as approved by the New York State Reliability Council (“NYSRC”) and historical minimum Locational Capacity Requirement (“LCR”) values as approved by the NYISO.

This information comes in part from the NYSRC website.

Note: The Capability Year runs from the May of the listed year to the April of the following year.

For example, the 20.0% IRM for 2023 is effective for the 2023 Capability Year (May 2023 through April 2024).

Note: G-to-J LCR percentage values begin in the 2014 Capability Year following the creation of the G-to-J Locality.

Section VI

Existing Transmission Facilities

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Section VI

This section contains the updated list of existing transmission facilities as provided by each Transmission Owner operating in the NYCA (as of March 15, 2023). The information in Table VI-1 is redacted as it may contain Critical Energy Infrastructure Information.

A version of the 2023 *Gold Book* that includes this table is available to individuals with a *myNYISO* account. To access a version of the 2023 *Gold Book* that includes Table VI-1, log in to *myNYISO* and visit the *Load & Capacity Data Report (Gold Book) – Secure* folder on the following webpage:

<https://www.nyiso.com/cspp>

To register for a *myNYISO* account visit:

https://www.nyiso.com/login?p_p_id=com_liferay_login_web_portlet_LoginPortlet&p_p_lifecycle=0&com_liferay_login_web_portlet_LoginPortlet_redirect=%2F

Table VI-2: Mileage of Existing Transmission Facilities

Facilities by kV Class Overhead (OH) Underground (UG)	115 kV		138 kV		230 kV		345 kV		500 kV	765 kV	150 kV DC	500 kV DC	Total	
	OH	UG	OH	UG	OH	UG	OH	UG	OH	OH	UG	UG		
CENTRAL HUDSON GAS & ELECTRIC CORPORATION	219.5	4.1	0.0	0.0	0.0	0.0	76.1	0.0	0.0	0.0			299.7	
CONSOLIDATED EDISON COMPANY OF NEW YORK, INC	0.0	0.0	21.7	214.5 (a)	0.4	0.0	421.8 (b) (i)	185.2 (h)	5.3	0.0			848.9	(b)
LONG ISLAND POWER AUTHORITY	0.0	0.0	255.8	184.3 (e)	0.0	0.0	0.0	9.3 (g)	0.0	0.0	24.0	66.0 (g)	539.4	
NEW YORK POWER AUTHORITY	54.0 (f)	1.8	0.0	0.0	338.2	0.0	886.1	42.8	0.0	155.2			1,478.0	
NEW YORK STATE ELECTRIC & GAS CORPORATION	1,489.5	7.5	0.0	0.0	241.1	0.0	550.5	0.0	0.0	0.0			2,288.6	
NATIONAL GRID WESTERN, CENTRAL & EASTERN	3,941.7	22.9	0.0	0.0	354.7	20.2	681.5	0.4	0.0	0.0			5,021.3	
ORANGE AND ROCKLAND UTILITIES INC.	0.0	0.0	86.3	10.5 (a)	0.0	0.0	61.2 (b)	3.4 (d)	0.0	0.0			161.5	
ROCHESTER GAS AND ELECTRIC CORPORATION	283.5	37.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			320.5	
NEW YORK TRANSCO, LLC	40.1						33.8						73.9	
NextEra ENERGY TRANSMISSION NEW YORK, INC.							20.0						20.0	
LS POWER GRID NEW YORK CORPORATION I					0.1		16.8						16.9	
TOTALS BY kV CLASS (c)	6,028.2	73.4	363.8	409.3	934.5	20.2	2,700.5	241.1	5.3	155.2	24.0	66.0	11,021.5	(c)

TOTAL OVERHEAD = 10,187.5 (c)
 TOTAL UNDERGROUND = 834.0 (c)
 TOTAL = 11,021.5 (c)

- Notes:**
- (a) 1.4 circuit miles are owned by GenOn
 - (b) 47.2 circuit miles are jointly owned by Con Ed and Orange & Rockland
 - (c) These totals reflect the appropriate adjustments for jointly owned facilities (footnote b)
 - (d) 3.4 circuit miles are owned by GenOn as indicated in the list of existing transmission facilities
 - (e) Includes 5.6 miles of three parallel cables from LIPA's Northport to the NY/CT State Border (middle of Long Island Sound). Additional 3.9 miles energized in 1983 is part of an existing cable circuit between Newbridge and Bagatelle.
 - (f) 18.54 circuit miles are owned by Alcoa
 - (g) A total of 67.7 circuit miles are owned by NRTS-Neptune Regional Transmission as indicated in the list of existing transmission facilities
 - (h) 1.5 circuit miles are owned by East Coast Power, LLC as indicated in the list of existing transmission facilities
 - (i) 0.5 miles (345 kV) are owned by Entergy as indicated in the list of existing transmission facilities

Section VII

Proposed Transmission Facilities

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Section VII

This section contains the list of firm and non-firm proposed transmission projects and merchant transmission projects (as of March 15, 2023). Projects that were placed in-service since the publication of the 2022 *Gold Book* are maintained on the list of proposed transmission projects for one year.

Table VII: Proposed Transmission Facilities

[Project Queue Position] / Project Notes	Transmission Owner	Terminals	Line Length In Miles (1)	Proposed In-Service Prior to (2) Year	Nominal Voltage In kV		# of cKts	Thermal Ratings (4)		Project Description / Conductor Size	Class Year / Type of Construction		
					Operating	Design		Summer	Winter				
					Class Year Transmission Projects (18)								
[1288]	Clean Path New York LLC	Fraser 345kV	Rainey 345kV	173	S	2027	492	492	1	1300 MW	1300 MW	-/+ 400kV Bipolar HVDC cable	TBD
[631],15,21	CHPE LLC	Hertel 735kV (Quebec)	Astoria Annex 345kV	363	S	2026	400	400	1	1000 MW	1000 MW	-/+ 320kV Bipolar HVDC cable	2021
[887],15,21	CHPE LLC	Hertel 735kV (Quebec)	Astoria Annex 345kV	363	S	2026	400	400	1	250 MW	250 MW	-/+ 320kV Bipolar HVDC cable	2021
[679]	Anabarc Development Partners, LLC	On-shore (Gowanus 345kV)	Off-shore Station	178	W	2026	400	400	1	1200 MW	1200 MW	-/+ 320kV Bipolar HVDC cable	TBD
[680], 16	Anabarc Development Partners, LLC	On-shore (Ruland 138kV)	Off-shore Station	192	W	2026	400	400	1	1200 MW	1200 MW	-/+ 320kV Bipolar HVDC cable	TBD
[792], 16	Anabarc Development Partners, LLC	On-shore (Ruland 138kV)	Off-shore Station	192	W	2026	400	400	1	800 MW	800 MW	-/+ 320kV Bipolar HVDC cable	TBD
TIP Projects (19) (Included In FERC 715 Base Case)													
545A/3	NextEra Energy Transmission NY	Dysinger (New Station)	East Stolle (New Station)	20	In-Service	2022	345	345	1	1356 MVA	1612 MVA	Western NY - Empire State Line Project	OH
545A/3	NextEra Energy Transmission NY	Dysinger (New Station)	Dysinger (New Station)	PAR	In-Service	2022	345	345	1	700 MVA	700 MVA	Western NY - Empire State Line Project	
556	LSP/NGRID	Porter	Rotterdam	-71.8	Removed	2022	230	230	1	1066	1284	AC Transmission Project Segment A/1-795 ACSR/1-1431 ACSR/2-954 ACSS	
556	LSP/NGRID	Porter	Rotterdam	-72.1	Removed	2022	230	230	1	1066	1284	AC Transmission Project Segment A/1-795 ACSR/1-1431 ACSR/2-954 ACSS	
556	LSP/NGRID	Edic	New Scotland	-83.5	Removed	2022	345	345	1	2190	2718	AC Transmission Project Segment A/2-795 ACSR	
556	NGRID	Rotterdam	New Scotland	-18.1	Removed	2022	115	230	1	1212	1284	AC Transmission Project Segment A/1-1033.5 ACSR/1-1192.5 ACSR	
556/3	LSP/NGRID	Edic	Gordon Rd (New Station)	68.7	In-Service	2022	345	345	1	3410	3709	AC Transmission Project Segment A/2-795 ACSR/2-954 ACSS	
556/3	LSP/NGRID	Gordon Rd (New Station)	New Scotland	24.9	In-Service	2022	345	345	1	2190	2718	AC Transmission Project Segment A/2-795 ACSR/2-954 ACSS	
556/3	LSP	Gordon Rd (New Station)	Rotterdam	transformer	In-Service	2022	345/230	345/230	1	637 MVA	760 MVA	AC Transmission Project Segment A	
556/3	LSP	Gordon Rd (New Station)	Rotterdam	transformer	In-Service	2022	345/230	345/230	1	637 MVA	783 MVA	AC Transmission Project Segment A	
556	LSP/NGRID	Gordon Rd (New Station)	New Scotland	-24.9	S	2023	345	345	1	2190	2718	AC Transmission Project Segment A/2-795 ACSR/2-954 ACSS	
556	LSP	Gordon Rd (New Station)	Princetown (New Station)	5.3	S	2023	345	345	1	3410	3709	AC Transmission Project Segment A/2-954 ACSS	
556	LSP	Princetown (New Station)	New Scotland	20.1	S	2023	345	345	2	3410	3709	AC Transmission Project Segment A/2-954 ACSS	
556	LSP/NGRID	Princetown (New Station)	New Scotland	19.8	S	2023	345	345	1	2190	2718	AC Transmission Project Segment A/2-795 ACSR	
556	LSP/NYPA/NGRID	Edic	Princetown (New Station)	67.0	W	2023	345	345	2	3410	3709	AC Transmission Project Segment A/2-954 ACSS	
556	NYPA	Edic	Marcy	1.4	W	2023	345	345	1	3150	3750	AC Transmission Project Segment A: Terminal Equipment Upgrades to existing line	
556	NGRID	Rotterdam	Rotterdam	remove substation	S	2029	230	230	N/A	N/A	N/A	Rotterdam 230kV Substation Retirement	
556	NGRID	Rotterdam	Eastover Rd	-23.8	S	2029	230	230	1	1114	1284	Rotterdam 230kV Substation Retirement, reconnect existing line	
556	LSP	Gordon Rd (New Station)	Rotterdam	remove transformer	S	2029	345/230	345/230	1	637 MVA	783 MVA	Rotterdam 230kV Substation Retirement	
556	LSP	Gordon Rd (New Station)	Rotterdam	remove transformer	S	2029	345/230	345/230	1	637 MVA	760 MVA	Rotterdam 230kV Substation Retirement	
556	LSP/NGRID	Gordon Rd (New Station)	Rotterdam	-0.1	S	2029	230	230	1	1260	1500	Rotterdam 230kV Substation Retirement	
556	LSP/NGRID	Gordon Rd (New Station)	Rotterdam	-0.4	S	2029	230	230	1	1260	1500	Rotterdam 230kV Substation Retirement	
556	NGRID	Gordon Rd (New Station)	Eastover Rd	23.8	S	2029	230	230	1	1114	1284	Rotterdam 230kV Substation Retirement; reconnect existing line	
556	LSP	Gordon Rd (New Station)	Gordon Rd (New Station)	transformer	S	2029	345/230	345/230	1	637 MVA	783 MVA	Rotterdam 230kV Substation Retirement, reconnect transformer to existing line	
556	LSP	Gordon Rd (New Station)	Rotterdam	transformer	S	2029	345/115	345/115	2	882 MVA	996 MVA	Rotterdam 230kV Substation Retirement	
543	NGRID	Greenbush	Hudson	-26.4	W	2023	115	115	1	648	800	AC Transmission Project Segment B	
543	NGRID	Hudson	Pleasant Valley	-39.2	W	2023	115	115	1	648	800	AC Transmission Project Segment B	
543	NGRID	Schodack	Churchtown	-26.7	W	2023	115	115	1	937	1141	AC Transmission Project Segment B	
543	NGRID	Churchtown	Pleasant Valley	-32.2	W	2023	115	115	1	806	978	AC Transmission Project Segment B	
543	NGRID	Milan	Pleasant Valley	-16.8	W	2023	115	115	1	806	978	AC Transmission Project Segment B	
543	NGRID	Lafarge	Pleasant Valley	-60.4	W	2023	115	115	1	584	708	AC Transmission Project Segment B	
543	NGRID	North Catskill	Milan	-23.9	W	2023	115	115	1	937	1141	AC Transmission Project Segment B	
543	NGRID	New Scotland	Alps	-30.6	W	2023	345	765	1	2015	2140	AC Transmission Project Segment B	
543/3	New York Transco	Hudson	Churchtown	7.2	In-Service	2022	115	115	1	648	798	AC Transmission Project Segment B	
543/3	New York Transco	Churchtown	Blue Stores	9.0	In-Service	2022	115	115	1	1114	1360	AC Transmission Project Segment B	
3	New York Transco	Blue Stores	Milan	10.8	In-Service	2023	115	115	1	879	1099	AC Transmission Project Segment B	
	New York Transco	Milan	Pleasant Valley	16.9	W	2023	115	115	1	648	848	AC Transmission Project Segment B	
543	NGRID	Lafarge	Churchtown	28.2	W	2023	115	115	1	582	708	AC Transmission Project Segment B	
543	NGRID	North Catskill	Churchtown	8.4	W	2023	115	115	1	648	848	AC Transmission Project Segment B	

Table VII: Proposed Transmission Facilities (cont'd)

[Project Queue Position] / Project Notes	Transmission Owner	Terminals	Line Length In Miles (1)	Proposed In-Service Prior to (2) Year	Nominal Voltage In kV		# of ckt	Thermal Ratings (4)		Project Description / Conductor Size	Class Year / Type of Construction		
					Operating	Design		Summer	Winter				
					543	New York Transco		Knickerbocker (New Station)	Pleasant Valley			54.5	W
543	New York Transco	Knickerbocker (New Station)	Knickerbocker (New Station)	series capacitor	W	2023	345	345	1	3862	4103	AC Transmission Project Segment B	
543	NGRID	Knickerbocker (New Station)	New Scotland	12.4	W	2023	345	345	1	2381	3099	AC Transmission Project Segment B	
543	NGRID	Knickerbocker (New Station)	Alps	18.1	W	2023	345	345	1	2552	3134	AC Transmission Project Segment B	
543	New York Transco	Rock Tavern	Sugarloaf	12.0	W	2023	115	115	1	1657	2026	AC Transmission Project Segment B 1-1590 ACSR	OH
543	New York Transco	Sugarloaf	Sugarloaf	Transformer	W	2023	138/115	138/115	—	1652	1652	AC Transmission Project Segment B	
	New York Transco	Sugarloaf (Transco)	Sugarloaf (O&R)	0.14	W	2023	138	138	1	1657	2026	AC Transmission Project Segment B 1-1590 ACSR	OH
543	New York Transco	Van Wagner (New Station)	—	Cap Bank	W	2023	345	345	—	N/A	N/A	AC Transmission Project Segment B	
543	NGRID	Athens	Pleasant Valley	-39.39	W	2023	345	345	1	2228	2718	Loop Line into new Van Wagner Substation/2-795 ACSR	OH
543	NGRID	Leeds	Pleasant Valley	-39.34	W	2023	345	345	1	2228	2718	Loop Line into new Van Wagner Substation/2-795 ACSR	OH
543	NGRID	Athens	Van Wagner (New Station)	38.65	W	2023	345	345	1	2228	2718	Loop Line into new Van Wagner Substation/2-795 ACSR	OH
543	NGRID	Leeds	Van Wagner (New Station)	38.63	W	2023	345	345	1	2228	2718	Loop Line into new Van Wagner Substation/2-795 ACSR	OH
543	New York Transco	Van Wagner (New Station)	Pleasant Valley	0.71	W	2023	345	345	1	3864	4096	Loop Line into new Van Wagner Substation/Reconductor w/2-795 ACSS	OH
543	New York Transco	Van Wagner (New Station)	Pleasant Valley	0.71	W	2023	345	345	1	3864	4096	Loop Line into new Van Wagner Substation/Reconductor w/2-795 ACSS	OH
543	New York Transco	Dover (New Station)	Dover (New Station)	Phase Shifter	W	2023	345	345	—	2510	2510	Loop Line 39B into new substation and install 2 x 750 MVAR PARs	—
543	ConEd	Cricket Valley	CT State Line	-3.46	W	2023	345	345	1	2220	2700	Loop Line into new Dover Substation/2-795 ACSS	OH
543	ConEd	Cricket Valley	Dover (New Station)	0.30	W	2023	345	345	1	2220	2700	Loop Line into new Dover Substation/2-795 ACSS	OH
543	ConEd	Dover (New Station)	CT State Line	3.13	W	2023	345	345	1	2220	2700	Loop Line into new Dover Substation/2-795 ACSS	OH
1125	NYPA	Edic	Marcy	1.4	W	2025	345	345	1	4030	4880	SPCP Terminal Equipment Upgrades to existing line	
1125	NYPA	Moses	Haverstock	2	W	2025	230	230	3	1089	1330	SPCP: Existing Moses - Adirondack (MA1), Moses - Adirondack (MA2), and Moses - Willis (MW2) 230 kV Lines to Haverstock Substation. 1 - 795 kcmil ACSR 26/7 "Drake"	
1125	NYPA	Moses	Moses	SUB	W	2025	230	230	N/A	N/A	N/A	SPCP: Terminal Upgrades at Moses 230 kV Substation and Transformer T3 and MW-2 breaker positions interchanged	
1125	NYPA	Haverstock 230 kV	Haverstock 345 kV	xmfr	W	2025	230/345	230/345	3	753	753	SPCP: Haverstock 230/345 kV xmfr-1, xmfr-2 and xmfr-3. Given Amp Ratings are for High Voltage side of xmfr.	
1125	NYPA	Haverstock	Haverstock	SUB	W	2025	345	345	N/A	N/A	N/A	SPCP: Haverstock 345 kV Substation. New Shunt Capacitor Banks.	
1125	NYPA	Haverstock	Adirondack	83.7	W	2025	345	345	2	2177	2663	SPCP: Existing Moses - Adirondack (MA1), Moses - Adirondack (MA2) 230kV lines to Haverstock Substation. Creating new Haverstock to Adirondack (HA1) and Haverstock to Adirondack (HA2) 345kV lines. 2 - 795 kcmil ACSR 26/7 "Drake"	
1125	NYPA	Adirondack 115 kV	Adirondack 345 kV	xmfr	W	2025	115/345	115/345	1	192	221	SPCP: Adirondack 115/345 kV xmfr. Given Amp Ratings are for High Voltage side of xmfr.	
1125	NYPA	Adirondack	Adirondack	SUB	W	2025	345	345	N/A	N/A	N/A	SPCP: Adirondack 345 kV Substation. New Shunt Capacitor Banks. New Shunt Reactor Banks.	
1125	NYPA	Haverstock	Willis	34.99	W	2025	345	345	2	3119	3660	SPCP: Existing Moses - Willis (MW1) and Moses - Willis (MW2) 230 kV Lines diverted to to Haverstock Substation. Creating Haverstock - Willis (HW1) and Haverstock - Willis (HW1) 345 kV Lines. 2 - 795 kcmil ACSS 26/7 "Drake"	
1125	NYPA	Willis 345 kV	Willis 230 kV	xmfr	W	2025	345/230	345/230	2	2259	2259	SPCP: Willis 345/230 kV xmfr-1 and xmfr-2. Given Amp Ratings are for High Voltage side.	
1125	NYPA	Willis	Willis	SUB	W	2025	230	230	N/A	N/A	N/A	SPCP: New Willis 345 kV Substation. New Shunt Capacitor Bank.	
1125	NYPA	Willis	Patnode	8.65	W	2025	230	230	2	2078	2440	SPCP: Two Willis - Patnode 230 kV Lines. 1 - 1272 kcmil ACSS 45/7 "Bittern"	
1125	NYPA	Willis	Ryan	6.59	W	2025	230	230	2	2078	2440	SPCP: Two Willis - Ryan 230 kV Lines. 1 - 1272 kcmil ACSS 45/7 "Bittern"	
1125	NYPA	Ryan	Ryan	SUB	W	2025	230	230	N/A	N/A	N/A	SPCP: Terminal Upgrades at Ryan 230 kV Substation.	
1125	NYPA	Patnode	Patnode	SUB	W	2025	230	230	N/A	N/A	N/A	SPCP: Terminal Upgrades at Patnode 230 kV Substation.	
1125	NYPA	Willis (Existing)	Willis (New)	0.4	W	2025	230	230	2	2078	2440	SPCP: Two Willis (existing) - Willis (New) 230 kV Lines. 1 - 1272 kcmil ACSS 45/7 "Bittern"	
1125	NYPA/NGRID	Adirondack	Austin Road	11.6	W	2025	345	345	1	3119	3660	SPCP: Adirondack - Austin Road Circuit-1 345 kV Line. 2 - 795 kcmil ACSS 26/7 "Drake"	
1125	NYPA/NGRID	Adirondack	Marcy	52.6	W	2025	345	345	1	3119	3660	SPCP: Adirondack - Marcy Circuit-1 345 kV Line. 2 - 795 kcmil ACSS 26/7 "Drake"	
1125	NGRID	Austin Road	Edic	42.5	W	2025	345	345	1	3119	3660	SPCP: Austin Road - Edic Circuit-1 345 kV Line. 2 - 795 kcmil ACSS 26/7 "Drake"	
1125	NGRID	Rector Road	Austin Road	1	W	2025	230	230	1	1089	1330	SPCP: Rector Road - Austin Road Circuit-1 230 kV Line. 1 - 795 kcmil ACSR 26/7 "Drake"	

Table VII: Proposed Transmission Facilities (cont'd)

[Project Queue Position] / Project Notes	Transmission Owner	Terminals	Line Length In Miles (1)	Proposed In-Service Prior to (2) Year	Nominal Voltage In kV		# of cKts	Thermal Ratings (4)		Project Description / Conductor Size	Class Year / Type of Construction		
					Operating	Design		Summer	Winter				
1125	NGRID	Austin Road 230 kV	Austin Road 345 kV	Transformer	W	2025	230/345	230/345	1	753	753	SPCP: Austin Road 230/345 kV xfmr. Given Amp Ratings are for High Voltage side of xfmr.	
1125	NGRID	Austin Road	Austin Road	Substation	W	2025	345	345	N/A	N/A	N/A	SPCP: Austin Road 345 kV Substation.	
1125	NGRID	Edic	Edic	Substation	W	2025	345	345	N/A	N/A	N/A	SPCP: Terminal Upgrades at Edic 345 kV Substation. New Shunt Capacitor Bank.	
1125	NGRID	Edic 345kV	Edic 230kV	Transformer	W	2025	345/230	345/230	1	N/A	N/A	SCSP: Remove Existing Transformer #2 345/230kV	
1125	NYPA	Marcy	Marcy	SUB	W	2025	345	345	N/A	N/A	N/A	SPCP: Terminal Upgrades at Marcy 345 kV Substation.	
1125	NGRID	Chases Lake	Chases Lake	Substation	W	2025	230	230	N/A	N/A	N/A	SPCP: Retire 230kV Substation.	
1125	NYPA	Moses	Massena	Series Reactor	W	2025	230	230	2	3840	4560	SPCP: Install Series Reactors on Moses -Massena 230 kV Lines	
1125	NYPA	Moses	Adirondack	-85.7	W	2025	230	230	2	N/A	N/A	SPCP: Retire Existing Moses - Adirondack MA1 and MA2 230 kV Lines	
1125	NYPA	Moses	Willis	-36.99	W	2025	230	230	2	N/A	N/A	SPCP: Retire Existing Moses - Willis MW1 and MW2 230 kV Line	
631/887	NYPA	Astoria Annex	Rainey	3.4	W	2026	345	345	1	2326	2326	Q#631 and Q# 887 are part of Class Year 2021. It includes an elective System Upgrade Facility, Astoria Annex - Rainey 345kV XLPE cable. Conductor Type : XLPE Cable	CY 2021 / Under Ground Cable (UG)
1125	NGRID	Adirondack	Porter	-54.41	W	2025	230	230	1	N/A	N/A	SPCP: Retire Existing Adirondack - Porter 230 kV Line	
1125	NGRID	Adirondack	Chases Lake	-11.05	W	2025	230	230	1	N/A	N/A	SPCP: Retire Existing Adirondack - Chases Lake 230 kV Line	
1125	NGRID	Chases Lake	Porter	-43.46	W	2025	230	230	1	N/A	N/A	SPCP: Retire Existing Chases Lake - Porter 230 kV Line	
1125	NYPA	Willis	Patnode	-8.65	W	2025	230	230	1	N/A	N/A	SPCP: Retire Existing Willis - Patnode WPN1 230 kV Line.	
1125	NYPA	Willis	Ryan	-6.59	W	2025	230	230	1	N/A	N/A	SPCP: Retire Existing Willis - Ryan WRY2 230 kV Line.	
1125	NGRID	Edic	Porter	-0.39	W	2025	230	230	1	N/A	N/A	SPCP: Retire Existing Edic-Porter #17 230kV Line	
1125	NGRID	Porter	Porter	Transformers	W	2025	230/115	230/115	2	N/A	N/A	SCSP: Remove Existing Transformers #1&2 230kV/115kV	
1125	NGRID	Porter	Porter	Substation	W	2025	230	230	N/A	N/A	N/A	SPCP: Retire Porter 230kV substation	
Firm Plans (5) (Included in FERC 745 Base Case)													
14	CHGE	Hurley Avenue	Leeds	Static synchronous series compensator	S	2023	345	345	1	2336	2866	21% Compensation	-
	CHGE	Rock Tavern	Sugarloaf	-12.1	W	2022	115	115	1	N/A	N/A	Retire SL Line	OH
	CHGE	Knapps Corners 115	Knapps Corners 69	xfmr	S	2023	115/69	115/69	1	100 MVA	123 MVA	Substation Rebuild - New 115/69 kV Transformer	-
	CHGE	Kerhonkson	Kerhonkson	xfmr	W	2023	115/69	115/69	1	827	1006	Add Transformer 3	-
	CHGE	Kerhonkson	Kerhonkson	xfmr	W	2023	115/69	115/69	1	827	1006	Add Transformer 4	-
11	CHGE	High Falls	Kerhonkson	10.03	W	2023	115	115	1	1010	1245	1-795 ACSR: Convert to 115 kV Operation	OH
11	CHGE	Galeville	Kerhonkson	9.16	W	2023	115	115	1	1010	1245	1-795 ACSR: Convert to 115 kV Operation	OH
	CHGE	Sugarloaf	NY/NJ State Line	-10.3	W	2024	115	115	2	N/A	N/A	Retire SD/SJ Lines	OH
11	CHGE	St. Pool	High Falls	5.69	W	2024	115	115	1	1010	1245	1-795 ACSR: Convert to 115 kV Operation	OH
11	CHGE	Modena	Galeville	4.62	W	2024	115	115	1	1010	1245	1-795 ACSR: Convert to 115 kV Operation	OH
6	CHGE	Knapps Corners	Spackenkill	2.36	W	2024	115	115	1	1280	1563	1-1033 ACSR	OH
11	CHGE	Hurley Ave	Saugerties	11.50	W	2025	69	115	1	1114	1359	1-795 ACSR	OH
11	CHGE	Saugerties	North Catskill	12.46	W	2025	69	115	1	1114	1359	1-795 ACSR	OH
3	ConEd	Hudson Ave East	New Vinegar Hill Distr busion Switching Station	xfmrs/PARs/Feeders	In-Service	2022	138/27	138/27	N/A	N/A	N/A	New Vinegar Hill Distribution Sw tching Station	UG
	ConEd	Rainey	Corona	xfmr/PAR/Feeder	S	2023	345/138	345/138	N/A	N/A	N/A	New second PAR regulated feeder	UG
	ConEd	Millwood West	Millwood West	xfmr	S	2024	345/138	345/138	N/A	N/A	N/A	Replacing xfmr TA1	-
	ConEd	Gowanus	Greenwood	xfmr/PAR/Feeder	S	2025	345/138	345/138	N/A	N/A	N/A	New PAR regulated feeder	UG
	ConEd	Goethals	Fox Hills	xfmr/PAR/Feeder	S	2025	345/138	345/138	N/A	N/A	N/A	New PAR regulated feeder	UG
	ConEd	Astoria East	Astoria Annex	Feeder	S	2026	138	138	2086	2599	N/A	Elective System Upgrade Facility for Q631 NS Power Express (reconducting feeder 34091)	OH
	ConEd	Rainey	Rainey	xfmr	S	2026	345/138	345	N/A	N/A	N/A	Replacing xfmr 3W	-
	ConEd	Buchanan North	Buchanan North	Reconfiguration	S	2026	345	345	N/A	N/A	N/A	Reconfiguration (separating feeder Y94 and xmrf TA5 by adding breaker 12)	-
	ConEd	Fresh Kills	Fresh Kills	xfmr	S	2026	345/138	345	N/A	N/A	N/A	Replacing xfmr TA1	-
	ConEd	Mott Haven	Parkview	-	S	2029	345/138/13	345/138/13	N/A	N/A	N/A	Spare 345/138 kV xfrm at Mott Haven and a spare 138/13.8 kV xfrm at Parkview	UG
3	LIPA	Round Swamp	Round Swamp	-	In-Service	2022	69	69	N/A	N/A	N/A	New Round Swamp Road substation	-
3	LIPA	Round Swamp	Plainview	1.93	In-Service	2022	69	69	1	1217	1217	2500kcmil XLPE	UG
3	LIPA	Round Swamp	Ruland Rd	3.81	In-Service	2022	69	69	1	1217	1217	2500kcmil XLPE	UG
3	LIPA	Averne	Far Rockaway	2.48	In-Service	2022	34.5	34.5	1	986	1035	2500kcmil	UG

Table VII: Proposed Transmission Facilities (cont'd)

[Project Queue Position] / Project Notes	Transmission Owner	Terminals	Line Length In Miles (1)	Proposed In-Service Prior to (2) Year	Nominal Voltage In kV		# of ckt	Thermal Ratings (4)		Project Description / Conductor Size	Class Year / Type of Construction		
					Operating	Design		Summer	Winter				
	LIPA	Pilgrim	Pilgrim	-	S	2023	69	69		N/A	N/A	Station Reconfiguration	
	LIPA	Terryville	Flowerfield	4.74	W	2023	69	69	1	996	1054	2500kcmil	UG
3	NGRID	Volney	Clay	-	In-Service	2022	345	345	1	1200 MVA	1474 MVA	Replace Terminal Equipment Line #6	OH
3	NGRID	Mountain	Lockport	0.08	In-Service	2022	115	115	2	174MVA	199MVA	Mountain-Lockport 103/104 Bypass	OH
3	NGRID	Golah	Golah	xfrmr	In-Service	2022	69	69		50MVA	50MVA	Replace Golah 69/34.5kV Transformer	
3	NGRID	Niagara	Packard	3.7	In-Service	2022	115	115	1	344MVA	449MVA	Replace 3.7 miles of 191 line	OH
3	NGRID	Wolf Rd	Menands	1.34	In-Service	2022	115	115	1	182 MVA	222 MVA	Reconductor 1.34 miles between Wolf Rd- Everett tap (per EHI)	OH
	NGRID	Dunkirk	Dunkirk	-	W	2022	115	115	-	-	-	Rebuild Dunkirk Station/ Asset Separation.	
	NGRID	Lockport	Mortimer	56.5	W	2022	115	115	3	-	-	Replace Cables Lockport-Mortimer #111, 113, 114	
6	NGRID	Niagara	Packard	3.7	In-Service	2022	115	115	2	344MVA	449MVA	Replace 3.7 miles of 193 and 194 lines	OH
	NGRID	Gardenville	Big Tree	6.3	W	2022	115	115	1	221MVA	221MVA	Gardenville-Arcade #151 Loop-in-and-out of NYSEG Big Tree	OH
	NGRID	Big Tree	Arcade	28.6	W	2022	115	115	1	129MVA	156MVA	Gardenville-Arcade #151 Loop-in-and-out of NYSEG Big Tree	OH
	NGRID	Kensington Terminal	Kensington Terminal	-	W	2022	115/23	115/23	-	50MVA	50MVA	Replace TR4 and TR5	
	NGRID	Taylorville	Boonville	-	W	2022	115	115	1	584	708	Replace Station connections	
	NGRID	Taylorville	Browns Falls	-	W	2022	115	115	1	584	702	Replace Station connections	
	NGRID	Batavia	Batavia	-	W	2022	115	115				Batavia replace five OCB's.	
	NGRID	Albany Steam	Albany Steam	-	W	2022	115	115				Replace NG's 115kV Breakers.	
	NGRID	Lockport	Lockport	-	W	2022	115	115	-	N/A	N/A	Install R264 at Lockport for line 108 and operate as alternate breaker for line 108 at Lockport	
	NGRID	South Oswego	Indeck (#6)	-	S	2023	115	115	1	-	-	Install High Speed Clearing on Line #6	
	NGRID	Porter	Porter	-	S	2023	230	230		N/A	N/A	Porter 230kV upgrades	
	NGRID	Mountain	Lockport	-	S	2023	115	115	2	847	1000	Reinsulating Mountain-Lockport 103/104	
	NGRID	Maplewood	Menands	3	S	2023	115	115	1	220 MVA	239 MVA	Reconductor approx 3 miles of 115kV Maplewood - Menands #19	
	NGRID	Maplewood	Reynolds	3	S	2023	115	115	1	217 MVA	265 MVA	Reconductor approx 3 miles of 115kV Maplewood - Reynolds Road #31	
	NGRID	Ridge	Ridge	-	S	2023				N/A	N/A	Ridge substation 34.5kV rebuild	
	NGRID	Colton	Browns Falls	-	S	2023	115	115	1	629	764	Flat Rock station (mid-line) upgrades	
22	NGRID/NYSEG	Mortimer	Station 56	-	W	2023	115	115	1	649	788	Mortimer-Pannell #24 Loop in-and-out of NYSEG's Station 56	
	NGRID	Clay	Woodard	-	W	2023	115	115	1			Add 10.5mH reactor on line #17.	OH
	NGRID	Gardenville	Dunkirk	0.20	W	2023	115	115	2	N/A	N/A	Add 115kV taps on 141/142 to new customer station (Erie)	OH
	NGRID	Cortland	Clarks Corners	0.2	S	2024	115	115	1	176MVA	224MVA	Replace 0.2 miles of 1(716) line and series equipment	OH
	NGRID	Homer Hill	Homer Hill	-	S	2024	115	115	-			Homer Hill Replace five OCB	
22	NGRID	Marshville	Marshville	-	S	2024	115/69	115/69		N/A	N/A	Replace transformers at Marshville and upgrade associate equipment	
	NGRID	Packard	Huntley	9.1	W	2024	115	115	1	262MVA	275MVA	Walck-Huntley #133, Packard-Huntley #130 Reconductor	OH
	NGRID	Walck	Huntley	9.1	W	2024	115	115	1	262MVA	275MVA	Walck-Huntley #133, Packard-Huntley #130 Reconductor	OH
22	NGRID	Station 56	Pannell	-	W	2024	115	115	1	649	788	Mortimer-Pannell #24 Loop in-and-out of NYSEG's Station 56	
	NGRID	Clay	Wetzel	3.7	W	2024	115	115	1	220 MVA	220 MVA	Add a breaker at Clay and build approximately 2000 feet of 115kV to create radial line	
	NGRID	Watertown	Watertown	-	S	2025	115	115		N/A	N/A	New Distribution Station at Watertown	
	NGRID	Golah	Golah	-	S	2025				N/A	N/A	Golah substation rebuild	
	NGRID	Malone	Malone	-	S	2025	115	115	-	753	753	Install PAR on Malone - Willis line 1-910	
	NGRID	Malone	Malone	-	S	2025	115	115	-	N/A	N/A	Expand 115-13.2kV substation with a second transformer and feeders	
	NGRID	Terminal	Terminal	-	S	2025	115	115	-	N/A	N/A	Rebuild 115/13.2kV Terminal substation	
22	NGRID	Mohican	Mohican	-	W	2025	115	115		N/A	N/A	Replace 115kV and 34.5kV assets, add 13.2kV substation	
6	NGRID	Gardenville	Dunkirk	20.5	S	2026	115	115	2	1105	1346	Replace 20.5 miles of 141 and 142 lines	OH
	NGRID	Niagara	Gardenville	26.3	S	2026	115	115	1	275MVA	350MVA	Packard-Erie / Niagara-Gardenville Reconfiguration	OH
	NGRID	Packard	Gardenville	28.2	S	2026	115	115	2	168MVA	211 MVA	Packard-Gardenville Reactors, Packard-Erie / Niagara-Gardenville Reconfiguration	OH
	NGRID/NYSEG	Erie St	Gardenville	5.5	S	2026	115	115	1	139MVA	179MVA	Packard-Erie / Niagara-Gardenville Reconfiguration, Gardenville add breakers	OH
	NGRID	Lockport	Batavia	20	S	2026	115	115	1	646	784	Rebuild 20 miles of Lockport-Batavia 112	
	NGRID	Packard	Packard	-	S	2026	115	115				Packard replace three OCB's	
	NGRID	Oswego	Oswego	-	S	2026	345	345		N/A	N/A	Rebuild of Oswego 345kV Station (asset separation).	
	NGRID	Rotterdam	Rotterdam	-	S	2026	115/69	115/69	-	67	76	Rebuild Rotterdam 69kV substation and add a 2nd 115/69kV Transformer	-
	NGRID	Rotterdam	Schoharie	0.93	S	2026	69	115	1	77	93	Rebuild 0.93mi double circuit Rotterdam-Schoharie / Schenectady International-Rotterdam	OH

Table VII: Proposed Transmission Facilities (cont'd)

[Project Queue Position] / Project Notes	Transmission Owner	Terminals	Line Length In Miles (1)	Proposed In-Service Prior to (2) Year	Nominal Voltage In kV		# of ccts	Thermal Ratings (4)		Project Description / Conductor Size	Class Year / Type of Construction		
					Operating	Design		Summer	Winter				
	NGRID	Schenectady International	Rotterdam	0.93	S	2026	69	115	1	69	84	Rebuild 0.93mi double circuit Rotterdam-Schoharie / Schenectady International-Rotterdam	OH
	NGRID	Tar Hill	Tar Hill	-	S	2026	115	115	-	-	-	New station to replace Lighthouse Hill.	
	NGRID	Inghams	Inghams	-	S	2026	115	115	-	-	-	Rebuild Inghams station, including rebuilding the PAR	
	NGRID	Browns Falls	Browns Falls	-	S	2026	115	115	-	N/A	N/A	Build new SubT facilities to separate assets from the hydroplant	
	NGRID	Huntley	Lockport	1.2	W	2026	115	115	2	747	934	Rebuild 1.2 miles of (2) single circuit taps on Huntley-Lockport 36/37 at Ayer Rd	
	NGRID	Oneida	Oneida	-	W	2026	115	115	-	-	-	115kV Oneida Station Rebuild & add Cap bank.	
22	NGRID	Amsterdam	Rotterdam	1	S	2027	69	69	2	584	708	Rebuild approximately 1 mile of 69kV. The Amsterdam - Rotterdam project changes the impedances of two 69kV line sections, no ratings impacts.	
	NGRID	Brockport	Brockport	3.5	S	2027	115	115	2	648	650	Refurbish 111/113 3.5 mile single circuit taps to Brockport Station.	
	NGRID	Colton	Dennison	-	S	2027	115	115	1	916	1118	Replace Station connections, Line #4	
	NGRID	Colton	Dennison	-	S	2027	115	115	1	916	1118	Replace Station connections, Line #5	
	NGRID	Elm St	Elm St	-	S	2027	230/23	230/23	-	118MVA	133MVA	Replace TR2 as failure	
	NGRID	Pannell	Geneva	-	W	2027	115	115	2	-	-	Critical Road crossings replace on Pannell-Geneva 4/4A	
	NGRID	Lockport	Lockport	-	W	2027	-	-	-	N/A	N/A	Rebuild of Lockport Substation and control house	
	NGRID	Mortimer	Golah	9.7	W	2027	115	115	1	657	797	Refurbish 9.7 miles Single Circuit Wood H-Frames on Mortimer-Golah 110.	
	NGRID	Mortimer	Mortimer	-	W	2027	115	115	-	N/A	N/A	Second 115kV Bus Tie Breaker at Mortimer Station	
	NGRID	Boonville	Boonville	-	W	2027	115	115	-	N/A	N/A	New 115kV station adjacent to existing Boonville sub	
	NGRID	Mortimer	Pannell	15.7	S	2028	115	115	2	221MVA	270MVA	Reconductor existing Mortimer - Pannell 24 and 25 lines with 795 ACSR	
22	NGRID	SE Batavia	Golah	27.8	W	2028	115	115	1	648	846	Refurbish 27.8 miles Single Circuit Wood H-Frames on SE Batavia-Golah 119	
	NGRID	Stoner	Stoner	-	S	2030	115	115	-	N/A	N/A	Upgrade limiting equipment at Stoner	
	NGRID	Clinton	Clinton	-	S	2030	115	115	-	N/A	N/A	Upgrade limiting equipment at Clinton	
	NGRID	Rotterdam	Rotterdam	-	S	2030	115	115	-	N/A	N/A	Upgrade terminal equipment on Lines 10 & 12 at Rotterdam	
22	NGRID	Meco	Meco	-	S	2030	115/69	115/69	-	N/A	N/A	Rebuild Meco substation and add a 2nd 115/69kV transformer	
	NGRID	Gardenville	Homer Hill	37.5	S	2031	115	115	2	649	788	Refurbish 37.5 miles double circuit Gardenville-Homer Hill 151/152l	
	NGRID	Huntley	Gardenville	23.4	W	2031	115	115	2	731	887	Refurbish 23.4 miles double circuit on Huntley-Gardenville 38/39.	
566/6	NYPA	Moses	Adirondack	78	S	2023	230	345	2	1088	1329	Replace 78 miles of both Moses-Adirondack 1&2	
	NYPA	St. Lawrence 230kV	St. Lawrence 115kV	xfmr	S	2023	230/115	230/115	1	TBD	TBD	Replacement of St. Lawrence AutoTransformer #2	
	NYPA	Plattsburg 230 kV	Plattsburg 115 kV	xfmr	S	2023	230/115	230/115	1	249	288	Replace in kind of Plattsburgh Auto Transformer #1	
	NYPA	Fraser	Fraser	SVC Control	S	2023	345	345	1	NA	NA	Fraser SVC Control Upgrade	
6, 22	NYPA	Y49 345kV	Y49 345kV	Y49 Reconductoring	S	2023	345	345	1	TBD	TBD	Improvements to Y-49 345 kV circuit	
580	NYPA/NGRID	STAMP	STAMP	Substation	S	2024	345/115	345/115	-	300 MVA	300 MVA	Load Interconnection.	
	NYPA	Moses	Moses	Circuit Breakers Replacements	W	2025	115/230	115/230	-	N/A	N/A	St. Lawrence Breaker Replacement 115 and 230 kV	
	NYSEG	Big Tree Road	Big Tree Road	Rebuild	W	2022	115	115	-	-	-	Station Rebuild	
596	NYSEG	Hillside	E. Towanda (PJM)	Phase Shifter	S	2025	230	230	1	498 MVA	498 MVA	Phase Shifting Transformer between Hill side	CY19
	NYSEG	Wood Street	Wood Street	xfmr	W	2023	345/115	345/115	1	327 MVA	378 MVA	Transformer #3	-
	NYSEG/ConEd	Pleasant Valley	Wood St	28	W	2023	345	345	2	3030	3480	Tapping 345 kV Line between Pleasant Valley and Millwood West at Wood Street	
	NYSEG/ConEd	Wood St	Millwood West	12.4	W	2023	345	345	2	3030	3480	Tapping 345 kV Line between Pleasant Valley and Millwood West at Wood Street	
	NYSEG/ConEd	Millwood West	Pleasant Valley	-40.4	W	2023	345	345	2	3030	3480	Tapping 345 kV Line between Pleasant Valley and Millwood West at Wood Street	
	NYSEG	Coddington	E. Ithaca (to Coddington)	8.07	S	2024	115	115	1	307 MVA	307 MVA	665 ACCR	OH
	NYSEG	Fraser	Fraser	xfmr	S	2024	345/115	345/115	1	305 MVA	364 MVA	Transformer #2 and Station Reconfiguration	-
	NYSEG	Fraser 115	Fraser 115	Rebuild	S	2024	115	115	-	N/A	N/A	Station Rebuild to 4 bay BAAH	-
	NYSEG	Delhi	Delhi	Removal	S	2024	115	115	-	N/A	N/A	Remove 115 substation and terminate existing lines to Fraser 115 (short distance)	
	NYSEG	New Gardenville	New Gardenville	xfmr	S	2026	230/115	230/115	1	316 MVA	370 MVA	NYSEG Transformer #6 and Station Reconfiguration	-
	NYSEG	New Gardenville	New Gardenville	xfmr	S	2026	115/34.5	115/34.5	1	50	60	NYSEG Transformer #7 and Station Reconfiguration	
	NYSEG	New Gardenville	New Gardenville	xfmr	S	2026	115/34.5	115/34.5	2	50	60	NYSEG Transformer #8 and Station Reconfiguration	

Table VII: Proposed Transmission Facilities (cont'd)

[Project Queue Position] / Project Notes	Transmission Owner	Terminals	Line Length In Miles (1)	Proposed In-Service Prior to (2) Year	Nominal Voltage In kV		# of cKts	Thermal Ratings (4)		Project Description / Conductor Size	Class Year / Type of Construction		
					Operating	Design		Summer	Winter				
	NYSEG	Wright Avenue	Wright Avenue	Rebuild	S	2026	115	115	N/A	N/A	Station Rebuild with 115 kV GIS Ring Bus, 34.5 kV & 12.5 kV GIS & New Control Building		
	NYSEG	Wright Avenue	Wright Avenue	xfmr	S	2026	115/34.5	115/34.5	1	65	72.5	Two New 50 MVA Transformers	
	NYSEG	Wright Avenue	Wright Avenue	xfmr	S	2026	34.5/12.5	34.5/12.5	1	48.1	53.65	Two New 37 MVA Transformers	
	NYSEG	North Waverly	East Sayre	2.99	W	2025	115	115	1	218	261	Reconductor existing line with ACSR 795 26/7 "Drake"	
	NYSEG	Meyer	Meyer	xfmr	W	2026	115/34.5	115/34.5	2	59.2MVA	66.9MVA	Transformer #2	
	NYSEG	Erie Street Rebuild	Erie Street Rebu Id	Rebuild	S	2027	115	115				Station Rebuild	
	NYSEG	South Perry	South Perry	xfmr	S	2027	230/115	230/115	1	246 MVA	291 MVA	Transformer	
	NYSEG	Oakdale 115	Oakdale 115	Rebuild	S	2027	115	115	N/A	N/A		Complete rebuild of 115 kV to 6 bay BAAH	
	NYSEG	Westover 115	Westover	Removal	S	2027	115	115	N/A	N/A		Remove 115 substation and terminate existing lines to Oakdale 115 (short distance)	
	NYSEG	Oakdale 345	Oakdale 115	xfmr	S	2027	345/115	345/115/34.5	1	494MVA	527 MVA	Transformer #3 and Station Reconfiguration	
	NYSEG	Coopers Corners	Coopers Corners	Rebuild	S	2031	115	115	N/A	N/A		Complete rebuild of 115 kV to 5 bay BAAH	
	NYSEG	Coopers Corners	Coopers Corners	xfmr	S	2031	115/34.5	115/34.5	1	58 MVA	66 MVA	Transformer #2 and Station Reconfiguration	
	NYSEG	Coopers Corners	Coopers Corners	xfmr	S	2031	345/115	345/115	1	232 MVA	270 MVA	Transformer #3 and Station Reconfiguration	
7	O & R/ConEd	Ladentown	Buchanan	-9.5	S	2024	345	345	1	3000	3211	2-2493 ACAR	
7	O & R/ConEd	Ladentown	Lovett 345 kV Station (New Station)	5.5	S	2024	345	345	1	3000	3211	2-2493 ACAR	
7	O & R/ConEd	Lovett 345 kV Station (New Station)	Buchanan	4	S	2024	345	345	1	3000	3211	2-2493 ACAR	
	O & R	Lovett 345 kV Station (New Station)	Lovett	xfmr	S	2024	345/138	345/138	1	562 MVA	562 MVA	Transformer	
	RGE	Station 127	Station 127	xfmr	W	2023	115/34.5	115/34.5	1	75MVA	75MVA	Transformer #2	
7	RGE	Station 168	Mortimer (NG Trunk #2)	26.4	W	2025	115	115	1	145 MVA	176 MVA	Station 168 Reinforcement Project	OH
7	RGE	Station 168	Elbridge (NG Trunk # 6)	45.5	W	2025	115	115	1	145 MVA	176 MVA	Station 168 Reinforcement Project	OH
	RGE	Station 418	Station 48	7.6	S	2026	115	115	1	175 MVA	225 MVA	New 115kV Line	OH
	RGE	Station 33	Station 251 (Upgrade Line #942)		S	2026	115	115	1	400MVA	400MVA	Line Upgrade	
22	RGE	Station 33	Station 251 (Upgrade Line #943)		S	2026	115	115	1	400MVA	400MVA	Line Upgrade	
	RGE	Station 418	Station 113 (Rebuild Line #947)	3.3	S	2027	115	115	1	267 MVA	326 MVA	Monroe County Reliability Project Line Rebuild and Reconductor	
	RGE	Station 113	Spencerport (Rebuild Line #947)	4.3	S	2027	115	115	1	267 MVA	326 MVA	Monroe County Reliability Project Line Rebuild and Reconductor	
	RGE	Spencerport	Station 70 (Rebuild Line #947)	4.5	S	2027	115	115	1	267 MVA	326 MVA	Monroe County Reliability Project Line Rebuild and Reconductor	
	RGE	Station 70	Station 71 (Rebuild Line #9467)	4.2	S	2027	115	115	1	267 MVA	326 MVA	Monroe County Reliability Project Line Rebuild and Reconductor	
	RGE	Station 71	Station 69 (Rebuild Line #945)	2.9	S	2027	115	115	1	267 MVA	326 MVA	Monroe County Reliability Project Line Rebuild and Reconductor	
	RGE	Station 69	Station 93 (Rebuild Line #917)	2	S	2027	115	115	1	267 MVA	326 MVA	Monroe County Reliability Project Line Rebuild and Reconductor	
	RGE	Station 93	Station 7 (Rebuild Line #917)	1.6	S	2027	115	115	1	218 MVA	272 MVA	Monroe County Reliability Project Line Rebuild and Reconductor	
	RGE	Station 82	Station 251 (Upgrade Line #902)		S	2028	115	115	1	400MVA	400MVA	Line Upgrade	
	RGE	Mortimer	Station 251 (Upgrade Line #901)	1.00	S	2028	115	115	1	400MVA	400MVA	Line Upgrade	
Non-Firm Plans (not included in Base Cases)													
	Coned	Brooklyn	Brooklyn	-	S	2028	345	345	-	N/A	N/A	Brooklyn Clean Energy Hub (BCEH)	
	Coned	Queens	Queens	-	S	2028	138	138	-	N/A	N/A	Queens Clean Energy Hub	
	LIPA	Averne	Rockaway Beach	2.93	W	2023	34.5	34.5	1	56MVA	56MVA	2500kcmil	UG
	LIPA	Syosset	Shore Rd	Phase Shifter	S	2026	138	138	1	TBD	TBD	Phase Shifter	
	LIPA	Canal	Deerfie d	8.65	S	2026	69	69	1	112MVA	112MVA	336SSAC	OH
	LIPA	Southampton	Deerfie d	4.00	S	2028	69	138	1	1171	1171	2000 SQMM XLPE	
	LIPA	Syosset	Shore Rd	11.00	S	2031	138	138	1	1171	1171	2000 SQMM XLPE	
	NGRID	Seneca	Seneca	xfmr	W	2022	115/22	115/22		40MVA	40MVA	Seneca #5 xfmr asset replacement	
	NGRID	Andover	Andover	-	S	2023	115	115	-	N/A	N/A	115kV Terminal Equipment at Andover (CLCPA)	
	NGRID	Nile Hill	Nile Hill	-	S	2023	115	115	-	N/A	N/A	Upgrade terminal equipment at Nile Hill Switch Structure (CLCPA)	
	NGRID	North LeRoy	North LeRoy	-	S	2023	115	115	-	N/A	N/A	115kV, North LeRoy Terminal Upgrade (CLCPA)	
	NGRID	Delphi	Delphi	-	S	2023	115	115	-	N/A	N/A	Upgrade Delphi terminal equipment (CLCPA)	
	NGRID	Lighthouse Hill	Clay	26.09	S	2023	115	115	1	648	846	Upgrade spans to remove Clearance Limit (CLCPA)	
	NGRID	Tilden	Cortland	35.11	W	2023	115	115	1	939	1144	Upgrade spans to remove Clearance Limit (CLCPA)	
	NGRID	Tilden	Tilden	-	W	2023	115	115	-	N/A	N/A	Upgrade Terminal Equipment (CLCPA)	
	NGRID	Coffeen	Black River	-	W	2023	115	115	1	584	708	Terminal equipment replacements	

Table VII: Proposed Transmission Facilities (cont'd)

[Project Queue Position] / Project Notes	Transmission Owner	Terminals	Line Length In Miles (1)	Proposed In-Service Prior to (2) Year	Nominal Voltage In kV		# of cks	Thermal Ratings (4)		Project Description / Conductor Size	Class Year / Type of Construction
					Operating	Design		Summer	Winter		
	NGRID	Browns Falls Taylorville	-	W 2023	115	115	1	584	702	Terminal equipment upgrades	
	NGRID	Inghams Saint Johnsville	2.94	W 2024	115	115	1	1114	1359	Reconductor 2.94mi of 2/0 + 4/0 Cu (of 7.11mi total) to 795 ACSR	
	NGRID	Mumford Mumford	-	S 2024	115	115	-	N/A	N/A	115kV Terminal Equipment at Mumford (CLCPA)	
	NGRID	Fenner Fenner	-	W 2024	115	115	-	N/A	N/A	Upgrade Terminal Equipment on Lines 3&8 (CLCPA)	
	NGRID	Cortland Cortland	-	W 2024	115	115	-	N/A	N/A	Upgrade Terminal Equipment (CLCPA)	
	NGRID	Lockport Lockport	-	S 2025	115	115	-	N/A	N/A	Instal Smart Valves on Lines 111, 113, 114 at Lockport (CLCPA)	
	NGRID	Dunkirk Laona	10.5	S 2026	115	115	2	847	1063	115kV Reconductor approximately 5 miles (CLCPA)	
	NGRID	Coffeen Coffeen	-	S 2026	115	115	-	N/A	N/A	Replace Assets at Coffeen, and instal cap bank	
	NGRID	Indian River Lyme Junction	8.6	W 2026	115	115	1	2228	2718	New 8.6 mile 115kV circuit with 795ACSR to create a loop connecting two existing radial circuits	
	NGRID	Whitaker Whitaker	-	W 2026	115	115	-	N/A	N/A	Instal automatic line sectionalizing scheme at Wh taker	
	NGRID	Gilbert Mills Gilbert Mills	-	W 2026	115	115	-	N/A	N/A	Install automatic line sectionalizing scheme at Gilbert Mills	
	NGRID	New Krumkill New Krumkill	-	W 2026	115	115	-	N/A	N/A	Add automatic line sectionalizing scheme	
	NGRID	Greenbush Greenbush	-	S 2027	115	115	-	N/A	N/A	Replace substation equipment	
	NGRID	Southwood Southwood	-	W 2027	115	115	-	N/A	N/A	Instal 115kV breakers at Southwood	
	NGRID	Pebble Hill Pebble Hill	-	W 2027	115	115	-	N/A	N/A	Instal 115kV breakers at Pebble Hill	
	NGRID	State Campus Menands	0.4	W 2028	115	115	1	1105	1347	Replace 0.4 mile of UG cable	
	NGRID	Inghams Meco	30.83	W 2029	115	115	1	1398	1708	Rebuild 115kV DCT	
	NGRID	Meco Maple Avenue	15.71	W 2029	115	115	1	1398	1708	Rebuild 115kV DCT	
	NGRID	Maple Avenue Rotterdam	15.08	W 2029	115	115	1	1398	1708	Rebuild 115kV DCT	
	NGRID	Inghams Stoner	23.8	W 2029	115	115	1	1398	1708	Rebuild 115kV DCT	
	NGRID	Stoner Rotterdam	23.12	W 2029	115	115	1	1398	1708	Rebuild 115kV DCT	
	NGRID	Gloversville Marshville	21.62	W 2030	69	69	1	1105	1347	Rebuild approximately 20 miles of 69kV	
	NYP&A	Niagara 345 kV Niagara 230 kV	xfmr	S 2024	345/230	345/230	1	TBD	TBD	Replacement of Niagara AutoTransformer #3	
	NYP&A	Astoria Annex Astoria Annex	Shunt Reactor	S 2024	345	345	2	TBD	TBD		
	NYP&A	Moses-St.Lawrence Reynolds	Back to Service	W 2024	115	115	1	767	1121	MR3 line back to service to supply loads	
	NYP&A	Niagara 345 kV Niagara 230 kV	xfmr	W 2024	345/230	345/230	1	TBD	TBD	Replacement of Niagara AutoTransformer #5	
	NYP&A	Marcy 345 kV Marcy 345 kV	Convertible Static Compensator	W 2024	345	345	1	TBD	TBD	Replacement of Marcy Convertible Static Compensator	
	O & R	Little Tor -	Cap Bank	S 2021	138	138	1	32 MVAR	32 MVAR	Capacitor bank	
3	O & R	Deerpark Port Jervis	2	In-Service 2021	69	69	1	976	1041	Upgrade 34.5kV to 69kV (1-336.4 ACSS 26/7)	
3	O & R	Westtown Port Jervis	7	In-Service 2021	69	69	1	976	1041	Upgrade 34.5kV to 69kV (1-336.4 ACSS 26/7)	
	O & R	Ramapo (NY) South Mahwah (RECO)	5.50	W 2022	138	138	2	1980	2120	1272 ACSS	
	O & R	Burns West Nyack	5.00	S 2023	138	138	1	940	940	UG Cable	
6	O & R	Shoemaker Pocatello	2.00	W 2023	69	69	1	1604	1723	795 ACSS	
	O & R	Ramapo Sugarloaf	17.00	W 2024	138	138	1	1980	2120	1272 ACSS	
	O & R	Burns Corporate Drive	5.00	W 2024	138	138	1	1980	2120	1272 ACSS	
	O & R	West Nyack West Nyack	-	S 2026	138	138	1			Station Reconfiguration	
	O & R	West Nyack (NY) Harings Corner (RECO)	7.00	W 2026	69	138	1	1604	1723	795 ACSS	
	O & R	West Nyack Burns	12.00	W 2027	138	130	1	1100	1430	UG CABLE	
	O & R	West Nyack West Nyack	xfmr	W 2027	138/69	138/69	1	196 MVA	196 MVA	TRANSFORMER	

Table VII: Proposed Transmission Facilities (cont'd)

Number	Note
1	Line Length Miles: Negative values indicate removal of Existing Circuit being tapped
2	S = Summer, W = Winter. Winter refers to the winter beginning with the year listed. For example, W 2023 refers to winter 2023-24.
3	Equipment (Transformers & Capacitor Banks) is retained on this list for one year after it goes in In-Service, and then it is deleted. A Transmission Line is reflected in Table VI, when it goes In-Service
4	Thermal Ratings in Amperes, except where labeled otherwise
5	Firm projects are those which have been reported by TOs as being sufficiently firm, and either (i) have an Operating Committee approved System Impact Study (if applicable) and, for projects subject to Article VII, have a determination from New York Public Service Commission that the Article VII application is in compliance with Public Service Law § 122, or (ii) is under construction and is scheduled to be in-service prior to June 1 of the current year.
6	Reconductoring of Existing Line
7	Segmentation of Existing Circuit
8	Deleted
9	Deleted
10	Deleted
11	Upgrade of existing 69 kV to 115 kV operation
12	Deleted
13	Deleted
14	This transmission upgrade was identified as a System Deliverability Upgrade (SDU) in the Class Year 2011 Study process required to make certain interconnection projects fully deliverable in the Rest of State Capacity Region. Upon the completion of Class Year 2011, the security posted for the SDU constituted greater than 60% of the total estimated costs for the SDUs and thereby “triggered” the SDU for construction.
15	The Class Year Transmission Project, Q#631, includes an elective System Upgrade Facility, an Astoria-Rainey 345kV cable. The Class Year Transmission Project, Q#887, is a 250 MW uprate of Q#631 project.
16	The Class Year Transmission Projects, Q#680 and Q#792, are alternative Projects to each other, and therefore, they cannot simultaneously join the same Class Year Study.
17	Deleted
18	This project has a System Reliability Impact Study that has been approved by the NYISO Operating Committee, and therefore is a potential candidate to enter the next Open Class Year study
19	These transmission projects are included in the FERC 715 Report models. Please see FERC 715 report for an explanation of the inclusion criteria.
20	Deleted
21	These Class Year Transmission Projects are included in the FERC 715 Report models. Please see FERC 715 report for an explanation of the inclusion criteria.
22	Due to the unavailability of the modeling information per the submittal schedule, these projects are not included in the FERC 715 Base Cases.

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The New York Independent System Operator (NYISO) is a not-for-profit corporation responsible for operating the state's bulk electricity grid, administering New York's competitive wholesale electricity markets, conducting comprehensive long-term planning for the state's electric power system, and advancing the technological infrastructure of the electric system serving the Empire State.



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