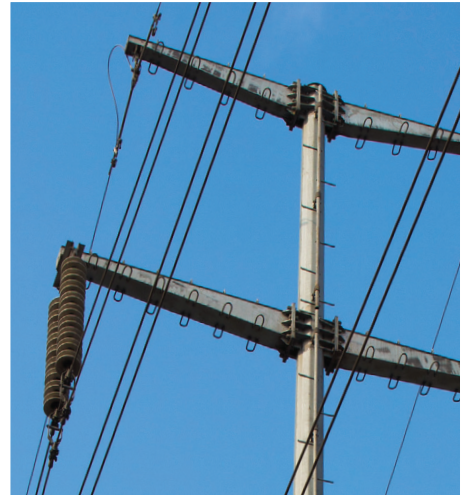


2021 Load & Capacity Data



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

Gold Book



2021 Load & Capacity Data Report

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2021 Load & Capacity Data Report

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Overview

This report presents the New York Independent System Operator, Inc. (“NYISO”) load and capacity data for 2021 and future years. Energy and peak forecasts are provided through 2051 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 2031. The information reported in this document is current as of March 15, 2021 unless otherwise noted. The seven sections of this *Load and Capacity Data* report (“*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, the high load scenario forecast, the low load scenario forecast, and historical data on annual energy and seasonal peak demand in the New York Control Area. 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, and the U.S. Energy Information Administration. The baseline and scenario forecasts reflect a combination of information 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 energy storage, behind-the-meter (“BTM”) solar photovoltaic (“PV”) power, electric vehicle usage, and electrification of space heating and other end uses. Zonal forecasts extend through 2051 for studies that use longer time horizons.

Over a 30-year horizon, the NYCA baseline energy forecast growth rate has slightly increased compared to last year, while the NYCA baseline summer peak demand forecast growth rate has slightly

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”).

decreased compared to last year, as exhibited in the following table:

	Average Annual Growth Rates							
	Baseline Energy Usage				Baseline Summer 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
2020 Gold Book (2020-50)	0.78%	0.05%	1.29%	0.89%	0.24%	-0.09%	0.63%	0.17%
2021 Gold Book (2021-51)	0.96%	-0.28%	1.15%	1.88%	0.20%	-0.24%	0.44%	0.39%

Over the first 20 years of the forecast, the energy growth rate in the 2021 baseline forecast is lower than the rate published in the 2020 Gold Book. The lower forecasted growth in energy usage can be attributed primarily to increased projected load reductions due to energy efficiency programs, increased load reductions due to stronger projected growth in behind-the-meter solar PV, and continuing economic impacts caused by the COVID-19 recession. Over the final ten years of the forecast, the energy growth rate in the 2021 baseline forecast is significantly higher than the rate published in the 2020 Gold Book. The higher forecasted growth in energy usage can be attributed primarily to the increasing impacts of electric vehicle usage, space heating electrification, and electrification of other end uses. On aggregate, the energy growth rate over the thirty years in the 2021 baseline forecast is slightly higher than the rate published in the 2020 *Gold Book*.

Over the course of the forecast horizon, significant load-reducing impacts occur due to energy efficiency initiatives and the growth of distributed behind-the-meter energy resources, such as solar PV. Much of these impacts are due to 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 programs developed as part of the Reforming the Energy Vision (“REV”) proceedings.

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 built based on projections of end-use intensities and economic variables. End-use intensities modeled include those for lighting, refrigeration, cooking, heating, cooling, and miscellaneous plug loads. 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 codes & 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 additional policy-based energy efficiency, behind-the-meter solar PV and distributed generation are deducted from the forecast; and the incremental impacts of electric vehicle usage and other 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 behind-the-meter energy storage resources are deducted from the peak forecasts. In the final stage, the NYISO aggregates load forecasts by zone.

Scenario forecasts are included to reflect the increasing uncertainty in forecasting future energy usage across the state. The high load scenario forecast reflects faster adoption of electric vehicles and other electrification, and slower adoption of behind-the-meter solar PV and energy efficiency measures. The low load scenario forecast reflects full adoption of behind-the-meter solar PV and energy efficiency policy measures in accordance with state mandates, and slower adoption of electric vehicles and other electrification. The baseline forecast reflects the expected implementation rates of these programs and technologies. The CLCPA Case load forecast from the NYISO *Climate Change Impact Study Phase I*, completed in December 2019, is included for reference.

The baseline and scenario energy forecasts also differ in their economic assumptions. The baseline energy forecast reflects the projected rate of economic recovery from the COVID-19 induced recession, and assumes typical economic growth over the long-term horizon. The high load scenario energy forecast reflects a stronger recovery and assumes somewhat higher than typical economic growth over the remainder of the forecast horizon. The low load scenario energy forecast reflects a slower economic recovery, and assumes somewhat lower than typical economic growth in the long run. Additional information about the recent and projected load impacts of the COVID-19 recession are discussed in Section I.

Generation and Other Capacity Resources

The Total Resource Capability in the NYCA for the summer of 2021 is projected to be 41,071 MW, which is a decrease of 271 MW compared to the information provided for summer 2020 in the 2020 *Gold*

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

Book. This decrease is due to 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 2021 includes:

- NYCA generating capability (37,789 MW);
- SCR (1,195 MW); and
- Net of long-term purchases and sales with neighboring control areas (2,087 MW).

The existing NYCA generating capability includes renewable resources totaling 6,428 MW. This total includes wind generation (1,818 MW), hydro (4,259 MW), large-scale solar PV (32 MW), and other renewable resources (319 MW).

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 2020, where applicable. Section III contains additional information on the generation resources by zone, fuel type and generation type.

Since the publication of the 2020 *Gold Book* in April 2020, there has been a reduction of 1,694 megawatts (MW) of summer capability that has been deactivated. Over the same period, there has been no increase in summer capability due to new additions and uprates, and an increase of 174 MW of summer capability due to ratings changes. As a result, net summer capability as of March 15, 2021 is 38,670 MW, a decrease of 1,520MW. These changes are summarized in Section II.

These changes are based on information received from certain generation owners that provided status changes since the 2020 *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 2021 is projected to be 708 MW lower than the capability reported for summer 2020 in the 2020 *Gold Book*.

Beyond 2021, 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:

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

- 7,323 MW of wind turbine projects;
- 6,481 MW of grid-connected solar projects;
- 4,476 MW of energy storage;
- 3,500 MW of natural gas or dual-fuel projects; and
- 51 MW of other projects.

Table IV-1 also identifies Class Year 2019 CRIS-only requests (not already reflected in Table III-2) totaling 237 MW.

Tables IV-2 through IV-4 report on units that have planned uprates in capability and units that are no longer in operation. Table IV-5 lists existing generators with 1,091 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 load and capacity from 2020 through 2031. Information for Tables V-2a and V-2b is obtained from Tables I-1, 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 2020 *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.

Section VII also lists public policy transmission projects that were selected by the NYISO Board of Directors. Three public policy transmission projects have been selected: Western New York (Empire State Line by NextEra Energy Transmission New York, Inc.), AC Transmission Segment A (Segment A Double Circuit by LS Power Grid New York, LLC and NYPA), and AC Transmission Segment B (Segment B

⁴ DEC Peaker Rule: <https://www.dec.ny.gov/regulations/116131.html>

Knickerbocker-PV by National Grid and New York Transco). The selected developers have received siting approval of their transmission facilities from the PSC under Article VII of the Public Service Law, and have been approved to commence construction in 2021. The NYISO will continue to track the progress of these projects.

Section I

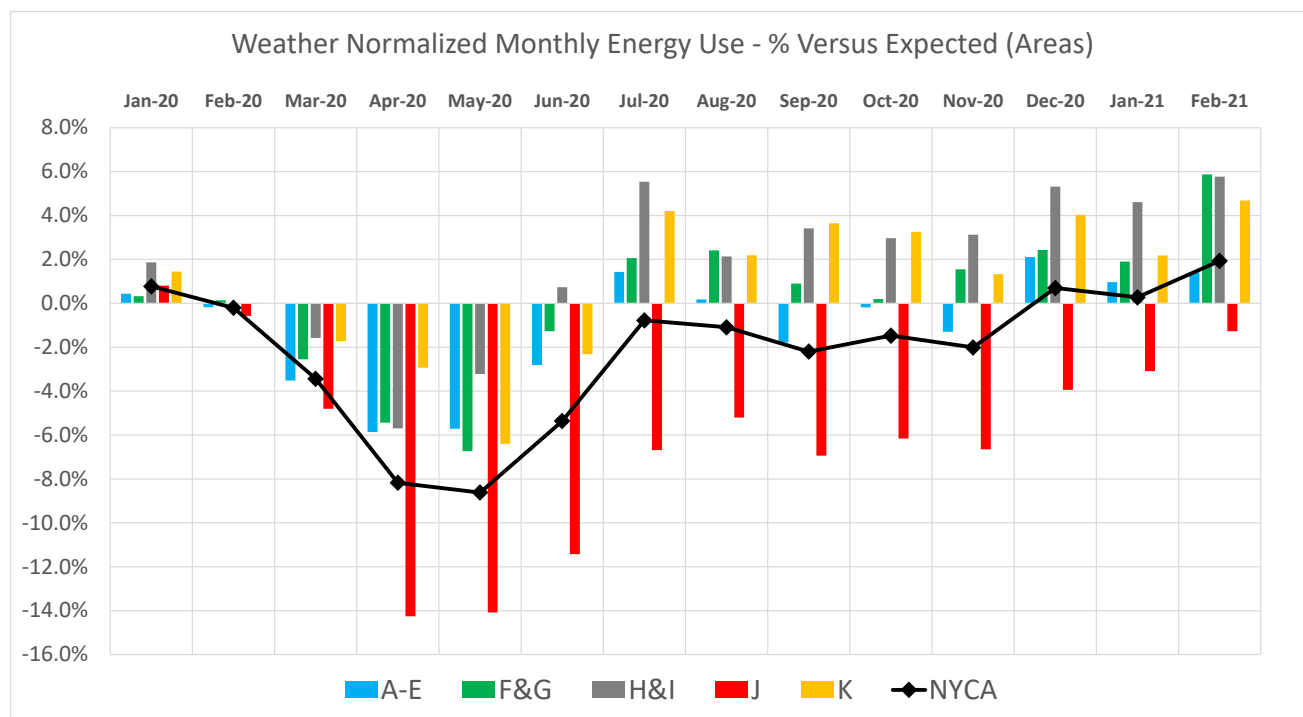
Annual Energy & Peak Demand - Historical & Forecast

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Section I

COVID-19 Impacts

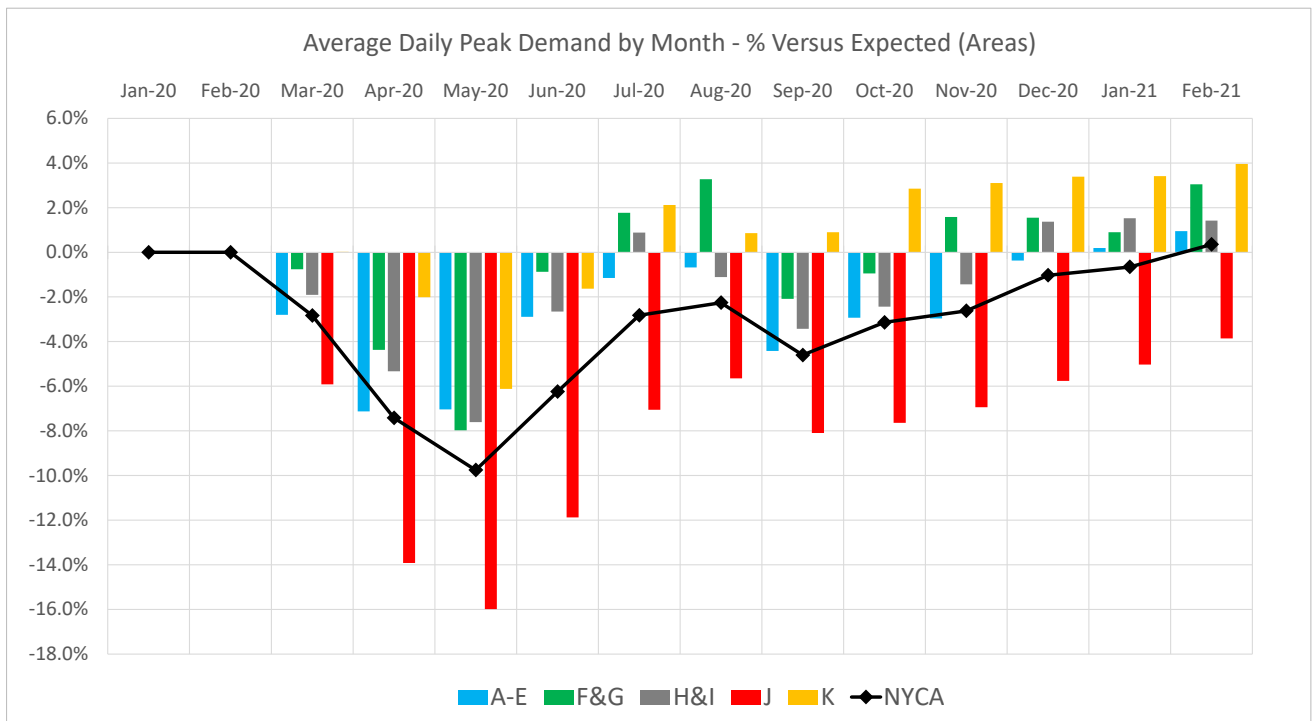
The economic and behavioral changes stemming from the COVID-19 pandemic caused large differences in 2020 load levels and load shapes relative to a typical year. Weather normalized annual energy usage across the state was more than 4,000 GWh (2.6%) below the pre-COVID baseline forecast developed in early 2020. The largest impacts were seen in April and May during the height of the initial lockdown period, with usage across the NYCA more than 8% below expected. These effects tapered off into the summer and fall, with smaller deviations relative to expected. The largest load reductions have consistently been in New York City (Zone J), being an urban area with a large share of commercial load. The figure below shows estimated monthly weather normalized load differences relative to expected levels through February 2021.



This chart shows the estimated differences of weather normalized load levels relative to expected. 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 April and May of 2020, overall energy use generally bottomed out around 14% below typical levels in New York City (Zone J); between 3% and 6% below typical levels in Long Island (Zone K); between 3% and 6% below typical levels in Westchester

(Zones H&I); between 5% and 7% below typical levels in Zones F&G; and between 5% and 6% below typical levels in Zones A to E. Differences from July onward have been much smaller, ranging from -7% to -1% in Zone J, +1% to +5% in Zone K, +2% to +6% in Zones H&I, 0% to +6% in Zones F&G, and -2% to +2% in Zones A to E.

Daily peak load levels were also impacted by COVID-19, as shown in the chart below. The area bars and NYCA line show the differences in actual peak loads relative to the predicted peak loads from the pre-COVID day ahead forecast models last estimated in February 2020 prior to COVID-related impacts (the 'backcast').



As with total energy, daily peak loads were most impacted in New York City, with negative differences ranging from 4 to 16 percent. Other areas of the state bottomed out at 6 to 8 percent below expected in May, with recent peaks generally being near to above typically expected levels. Summer peak loads levels were about 6 percent below expected in New York City, and mostly near to above typical levels in the rest of the state.

The diurnal load profile has also deviated from the typical shape observed in recent years. The NYISO has observed that the reduction in electric demand from commercial customers is a leading driver of overall reduced electricity consumption during the pandemic. Throughout this time, the NYISO has also observed an increase in residential usage, especially during the midday. These usage patterns reflect lower economic activity, and a shift in usage from New York City to suburban areas of Long Island and the

Lower Hudson Valley, during the pandemic. The chart below shows the NYCA hourly load differences relative to expected levels by month, based on the backcast analysis. Loads have been most reduced during the morning ramp hours.

NYCA Weekday Hourly Load Levels Relative to Expected														
Hour	Jan '20	Feb '20	Mar '20	Apr '20	May '20	Jun '20	Jul '20	Aug '20	Sep '20	Oct '20	Nov '20	Dec '20	Jan '21	Feb '21
0:00	0%	0%	-2%	-4%	-4%	-2%	-1%	0%	-1%	-1%	-2%	-1%	0%	1%
1:00	0%	0%	-2%	-4%	-4%	-2%	-1%	-1%	-1%	-2%	-2%	-1%	0%	1%
2:00	0%	0%	-3%	-4%	-4%	-2%	-1%	-1%	-2%	-2%	-2%	-1%	-1%	1%
3:00	0%	0%	-3%	-5%	-4%	-3%	-1%	-1%	-2%	-2%	-2%	-1%	-1%	1%
4:00	0%	0%	-4%	-6%	-5%	-4%	-2%	-2%	-3%	-3%	-3%	-1%	-1%	1%
5:00	0%	0%	-5%	-8%	-7%	-5%	-4%	-4%	-5%	-5%	-4%	-2%	-2%	0%
6:00	0%	0%	-7%	-11%	-11%	-8%	-5%	-5%	-7%	-6%	-5%	-4%	-3%	-2%
7:00	0%	0%	-7%	-13%	-13%	-10%	-6%	-6%	-7%	-6%	-5%	-4%	-3%	-2%
8:00	0%	0%	-6%	-13%	-14%	-9%	-6%	-6%	-6%	-5%	-4%	-3%	-2%	-1%
9:00	0%	0%	-5%	-12%	-13%	-9%	-6%	-6%	-6%	-4%	-3%	-2%	-2%	-1%
10:00	0%	0%	-5%	-11%	-13%	-9%	-6%	-5%	-5%	-3%	-2%	-2%	-1%	0%
11:00	0%	0%	-4%	-10%	-13%	-8%	-5%	-5%	-5%	-3%	-2%	-1%	-1%	0%
12:00	0%	0%	-3%	-9%	-12%	-8%	-4%	-4%	-4%	-2%	-2%	-1%	0%	0%
13:00	0%	0%	-3%	-9%	-12%	-7%	-4%	-4%	-4%	-3%	-2%	-1%	0%	0%
14:00	0%	0%	-3%	-9%	-12%	-7%	-4%	-4%	-4%	-3%	-2%	-1%	0%	0%
15:00	0%	0%	-4%	-10%	-13%	-7%	-4%	-4%	-5%	-3%	-2%	-1%	0%	0%
16:00	0%	0%	-4%	-10%	-12%	-7%	-4%	-3%	-5%	-4%	-3%	-2%	-1%	0%
17:00	0%	0%	-3%	-9%	-11%	-6%	-3%	-2%	-4%	-3%	-3%	-1%	-1%	0%
18:00	0%	0%	-2%	-7%	-10%	-5%	-2%	-2%	-4%	-3%	-2%	-1%	-1%	0%
19:00	0%	0%	-3%	-7%	-9%	-5%	-2%	-2%	-5%	-3%	-2%	-1%	-1%	0%
20:00	0%	0%	-3%	-7%	-9%	-5%	-2%	-2%	-4%	-3%	-3%	-1%	-1%	0%
21:00	0%	0%	-3%	-7%	-7%	-4%	-2%	-2%	-3%	-2%	-3%	-2%	-1%	0%
22:00	0%	0%	-2%	-5%	-6%	-3%	-1%	-1%	-1%	-2%	-2%	-1%	-1%	0%
23:00	0%	0%	-2%	-4%	-4%	-2%	-1%	0%	-1%	-1%	-2%	-1%	0%	1%

The continued economic recovery and anticipated load changes due to changing behaviors are incorporated into the long-term forecast. The baseline annual energy and summer and winter peak forecast models incorporate the projected economic recovery as endogenous variables. Additional information from Transmission Owners was also considered for the forecast values. The projected impacts of the recovery on the 2021 summer peak load were considered as part of the 2021 ICAP forecast, which forms the basis for the 2021 zonal summer peak forecast. Stronger and weaker economic recoveries are assumed in the high load scenario and low load scenario energy and peak forecasts respectively.

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. 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 show the expected NYCA and zonal loads under expected weather conditions, and 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 behind-the-meter non-solar distributed energy generation (Table I-10). The baseline forecast also includes the expected impacts of electric vehicle usage (Table I-11), and other electrification (Table I-13). The impacts of net electricity consumption of all energy storage resources are added to the baseline energy forecast, while the peak-reducing impacts of behind-the-meter energy storage resources are deducted from the baseline peak forecasts (Table I-12).

Table I-1a reports the NYCA baseline energy and peak demand forecasts. The low and high forecast bounds show the low load and high load scenario forecasts to reflect the increasing uncertainty in energy usage over time. 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 end-use mix, and finally to the baseline forecast incorporating all other load-modifying components. The impacts due to electric vehicles, other electrification, behind-the-meter solar PV, behind-the-meter 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 forecast, high load scenario forecast, and low load scenario forecast for NYCA annual energy, summer peak, and winter peak, respectively. Figure I-4 compares the baseline summer and winter peak forecasts. The NYISO may become a winter peaking system in future decades due to electrification primarily via space heating and electric vehicles. The low load scenario and high load scenario forecasts are summarized in Tables I-16 and I-17 respectively.

Historical and forecast data for actual annual energy and seasonal peak demand are reported in Tables I-2 through I-5. Tables I-6 and I-7 show the 90th and 10th percentile baseline energy and coincident peak demand forecasts due to weather variation. The 90th and 10th percentile peak forecasts are based on the historical distribution of peak day weather. The 90th and 10th percentile energy forecasts are based on the historical distribution of weather-related impacts on annual energy.

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 2021 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 behind-the-meter (“BTM”) solar PV installed nameplate capacity. 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 behind-the-meter 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 behind-the-meter solar generation by year.

Table I-10a reports the forecast of behind-the-meter distributed generation installed nameplate capacity. These resources include combined heat and power, anaerobic digesters, fuel cell facilities, and others. Table I-10a makes no projection of future participation of behind-the-meter distributed generation resources in the wholesale DER market. Tables I-10b and I-10c list the projected annual energy and coincident peak reductions of these behind-the-meter 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 over 4 million EVs by 2040, and over 6.5 million EVs by 2051, 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 high load scenario forecasts do not assume any meaningful impacts of managed charging via smart metering or time of use rates. The low load scenario forecast assumes some managed charging impacts over time. At this time, the NYISO makes no assumptions on 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 energy storage resources (Table I-12a), net annual electricity consumption of energy storage (Table I-12b), and the peak-reducing impacts of behind-the-meter energy storage (Tables I-12c and I-12d). These tables do not include 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. Both wholesale and behind-the-meter energy storage resources have relatively small positive net annual electricity consumption due to charging and discharging cycles (less than 1% relative to the forecasted total load across the NYCA system).

Behind-the-meter 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 NYCA summer and winter peak hours. Behind-the-meter storage injecting during the peak hour reduces the measured NYISO demand. 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.

Table I-13 shows the impact of future electrification, which largely consists of conversion of space heating from fossil fuel sources to electric heat pumps, and electrification of other end-uses such as cooking and water heating. Tables I-13a, I-13b, and I-13c show the annual energy, summer peak, and winter peak impacts of electrification respectively. These 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 non-EV electrification.

Table I-14 shows the projected SCR and Emergency Demand Response Program ("EDRP") enrollment. Table I-15 reports the date and hour of the NYCA system peak for the Summer and Winter Capability Periods from 1997 forward.

Table I-16 shows a state-level summary of the low load scenario forecast, which reflects full adoption of behind-the-meter solar PV and energy efficiency policy measures in accordance with state mandates, and slower adoption of electric vehicles and other electrification. Table I-17 summarizes the high load scenario forecast, which reflects faster adoption of electric vehicles and other electrification, and slower adoption of behind-the-meter solar PV and energy efficiency measures. Table I-18 contains the CLCPA Case load forecast from the NYISO *Climate Change Impact Study Phase I*. Zonal forecasts for the low load

and high load scenarios are posted as Excel files on the NYISO website. ⁵

Load Scenario Summary

Forecast Component	Baseline Forecast	Low Load Scenario	High Load Scenario	CLCPA Case
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	Same as Baseline Forecast
Economic Assumptions	Expected baseline recovery from the COVID-19 recession, followed by typical economic growth in the long run	Weaker recovery from the COVID-19 recession, followed by below typical economic growth in the long run	Stronger recovery from the COVID-19 recession, followed by above typical economic growth in the long run	Baseline economic growth with no recession (forecast from 2019)
Energy Efficiency (Table I-8)	Large energy efficiency gains - substantial attainment of current policy measures, plus additional codes & standards impacts	Very large energy efficiency gains - full attainment of current policy measures, plus additional codes & standards impacts	Moderate energy efficiency gains - lower attainment of current policy measures, plus additional codes & standards impacts	Projected impacts from energy efficiency policy measures in effect as of early 2019
BTM Solar PV (Table I-9)	Medium BTM solar - 6,000 MW DC installed nameplate capacity by early 2026	High BTM solar - 6,000 MW DC installed nameplate capacity by 2025	Low BTM solar - 6,000 MW DC installed nameplate capacity by 2027	High BTM solar - 6,000 MW DC installed nameplate capacity by 2025
BTM Non-Solar DG (Table I-10)	Over 500 MW installed non-solar BTM DG nameplate capacity by 2035. No assumption of future entry of resources into the wholesale DER market	Same as Baseline Forecast	Same as Baseline Forecast	Existing BTM non-solar DG resources as of 2019 - no projection of future capacity increases
Electric Vehicles (Table I-11)	Approximately 4.3 million EVs (passenger vehicles, trucks and buses) in 2040. Unmanaged charging profile	Approximately 3.3 million EVs in 2040. Increasing probability of managed charging over time	Approximately 5.3 million EVs in 2040. Unmanaged charging profile	Over 4.5 million EVs in 2040. Unmanaged charging profile
Energy Storage (Table I-12)	Over 3,000 MW installed nameplate capacity by 2029, with over 10,000 MW installed in 2051 (total behind-the-meter plus wholesale)	3,000 MW installed nameplate capacity by 2026, and over 19,000 MW installed in 2051, with a larger proportion of storage behind-the-meter	3,000 MW installed nameplate capacity by 2032, and nearly 8,000 MW installed in 2051	Approximately 3,000 MW installed nameplate capacity by 2030, with approximately 5,000 MW installed in 2050
Non-EV Electrification (Table I-13)	Medium electrification - substantial electrification of space heating and other end uses	Low electrification - modest electrification of space heating and other end uses	High electrification - high saturation of electric space heating and other end uses	Very high electrification - very high saturation of electric heating and space conditioning, and significant electrification of other end uses

⁵ Low load scenario and high load scenario forecast tables: <https://www.nyiso.com/library>

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Table I-1a: NYCA Baseline Energy and Demand Forecasts

Reflects Impacts of Energy Saving Programs & Behind-the-Meter Generation

2021 Long Term Forecast ¹ - 2021 to 2051												
Energy - GWh				Summer Peak Demand - MW				Winter Peak Demand - MW				
Year	Low ³	Baseline ⁴	High ³	Year	Low ³	Baseline ^{4, 5}	High ³	Year	Low ³	Baseline ⁴	High ³	
2020		150,310		2020		31,723		2020-21		23,890		
2021	150,170	150,980	152,620	2021	32,012	32,327	32,529	2021-22	23,912	24,025	24,485	
2022	148,600	150,480	153,530	2022	31,711	32,178	32,534	2022-23	23,810	24,065	25,006	
2023	146,190	148,900	153,870	2023	31,308	31,910	32,471	2023-24	23,712	24,095	25,489	
2024	143,810	147,320	153,750	2024	30,904	31,641	32,355	2024-25	23,556	24,072	25,759	
2025	141,880	146,170	153,810	2025	30,592	31,470	32,296	2025-26	23,429	24,065	26,187	
2026	140,110	145,330	154,160	2026	30,276	31,326	32,287	2026-27	23,341	24,160	26,635	
2027	138,620	144,960	154,920	2027	30,027	31,278	32,348	2027-28	23,291	24,359	27,123	
2028	137,390	145,070	156,090	2028	29,805	31,284	32,484	2028-29	23,272	24,583	27,668	
2029	136,400	145,360	157,700	2029	29,620	31,348	32,672	2029-30	23,289	24,879	28,333	
2030	135,770	145,960	159,610	2030	29,445	31,453	32,916	2030-31	23,410	25,252	29,173	
2031	135,470	146,690	161,890	2031	29,328	31,565	33,205	2031-32	23,603	25,757	30,173	
2032	135,510	147,530	164,620	2032	29,209	31,691	33,534	2032-33	23,866	26,332	31,347	
2033	135,670	148,610	167,920	2033	29,103	31,834	33,885	2033-34	24,158	26,977	32,658	
2034	136,090	149,810	171,670	2034	29,006	31,970	34,256	2034-35	24,500	27,647	34,117	
2035	136,670	151,250	175,590	2035	28,917	32,117	34,633	2035-36	24,865	28,347	35,681	
2036	137,440	152,840	179,570	2036	28,836	32,264	35,005	2036-37	25,240	29,118	37,259	
2037	138,330	154,620	183,590	2037	28,759	32,395	35,362	2037-38	25,627	29,952	38,820	
2038	139,450	156,530	187,670	2038	28,687	32,528	35,706	2038-39	26,027	30,830	40,332	
2039	140,750	158,690	191,820	2039	28,624	32,671	36,043	2039-40	26,453	31,719	41,813	
2040	142,220	160,980	196,010	2040	28,573	32,812	36,376	2040-41	26,832	32,668	43,195	
2041	143,810	163,530	200,170	2041	28,532	32,966	36,692	2041-42	27,179	33,498	44,463	
2042	145,510	166,180	204,210	2042	28,498	33,115	36,994	2042-43	27,474	34,409	45,582	
2043	147,230	169,040	208,120	2043	28,468	33,275	37,270	2043-44	27,785	35,319	46,600	
2044	148,950	171,980	211,840	2044	28,440	33,427	37,532	2044-45	28,077	36,237	47,504	
2045	150,620	175,070	215,440	2045	28,413	33,589	37,772	2045-46	28,352	37,161	48,334	
2046	152,330	178,270	218,950	2046	28,379	33,743	37,988	2046-47	28,614	38,092	49,090	
2047	154,090	181,570	222,440	2047	28,344	33,863	38,171	2047-48	28,874	39,006	49,805	
2048	155,880	184,860	225,820	2048	28,308	33,971	38,314	2048-49	29,133	39,906	50,471	
2049	157,660	188,100	229,010	2049	28,270	34,055	38,440	2049-50	29,390	40,767	51,108	
2050	159,440	191,240	231,920	2050	28,243	34,150	38,554	2050-51	29,655	41,580	51,731	
2051	161,210	194,290	234,640	2051	28,215	34,240	38,670	2051-52	29,925	42,335	52,355	

Average Annual Growth - Percent												
Period	Low	Baseline	High	Period	Low	Baseline	High	Period	Low	Baseline	High	
2021-26	-1.34%	-0.75%	0.20%	2021-26	-1.08%	-0.62%	-0.15%	2021-26	-0.48%	0.11%	1.76%	
2026-31	-0.66%	0.19%	1.00%	2026-31	-0.63%	0.15%	0.57%	2026-31	0.22%	1.32%	2.66%	
2031-36	0.29%	0.84%	2.18%	2031-36	-0.34%	0.44%	1.08%	2031-36	1.39%	2.61%	4.70%	
2036-41	0.93%	1.40%	2.29%	2036-41	-0.21%	0.44%	0.96%	2036-41	1.54%	3.01%	3.87%	
2021-31	-0.98%	-0.28%	0.61%	2021-31	-0.84%	-0.24%	0.21%	2021-31	-0.13%	0.72%	2.32%	
2031-41	0.62%	1.15%	2.36%	2031-41	-0.27%	0.44%	1.05%	2031-41	1.52%	3.01%	4.74%	
2041-51	1.21%	1.88%	1.72%	2041-51	-0.11%	0.39%	0.54%	2041-51	1.01%	2.64%	1.77%	
2021-41	-0.21%	0.42%	1.56%	2021-41	-0.54%	0.10%	0.64%	2021-41	0.68%	1.97%	4.08%	
2021-51	0.25%	0.96%	1.79%	2021-51	-0.40%	0.20%	0.63%	2021-51	0.84%	2.54%	3.79%	

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 low load scenario forecast and high load scenario forecast under expected weather conditions, which are summarized in Tables I-16 and I-17. 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 2020 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 2021 NYCA summer peak forecast is the same as the 2021 ICAP forecast.

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

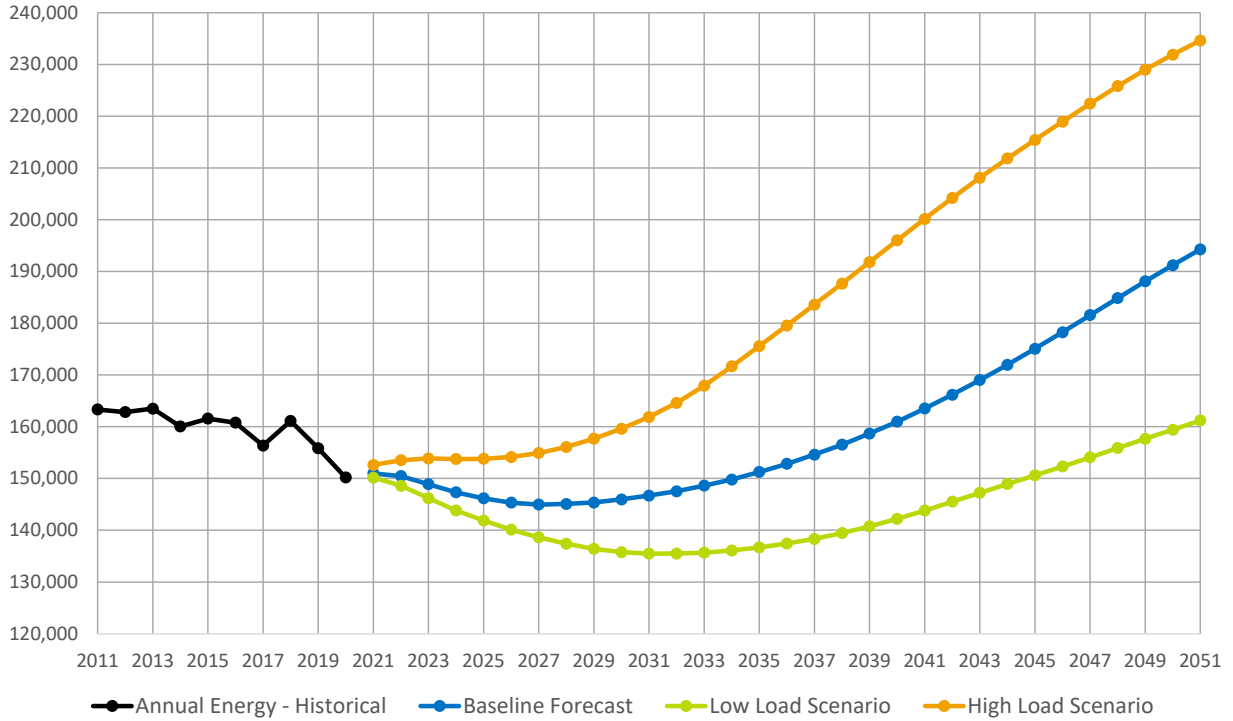


Figure I-2: NYCA Summer Peak Forecasts – Coincident Peak, MW

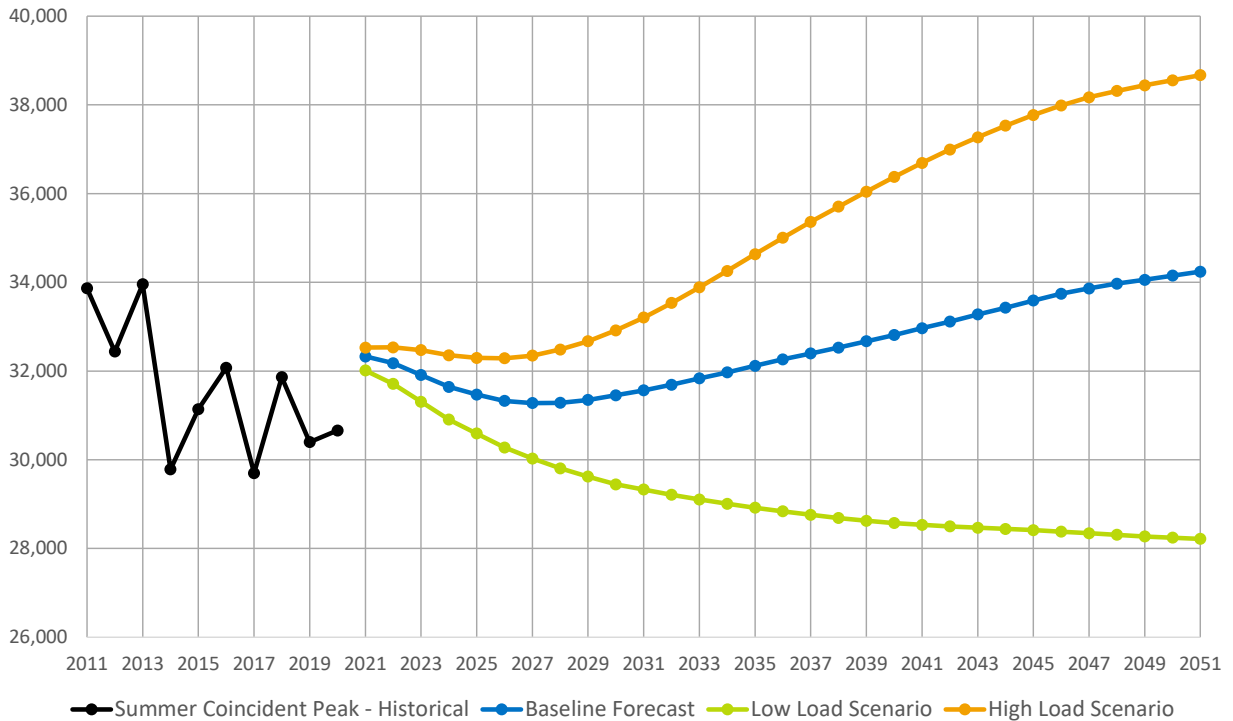


Figure I-3: NYCA Winter Peak Forecasts – Coincident Peak, MW

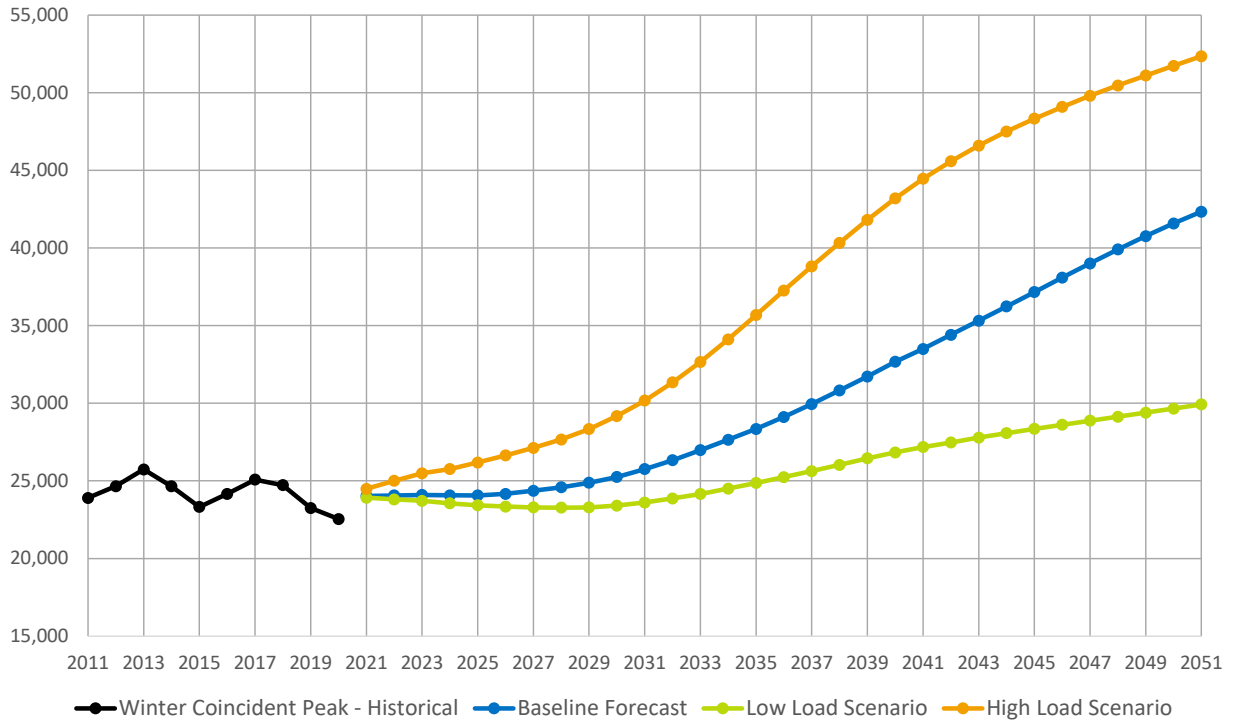


Figure I-4: NYCA Baseline Peak Forecast Comparison – Coincident Peak, MW

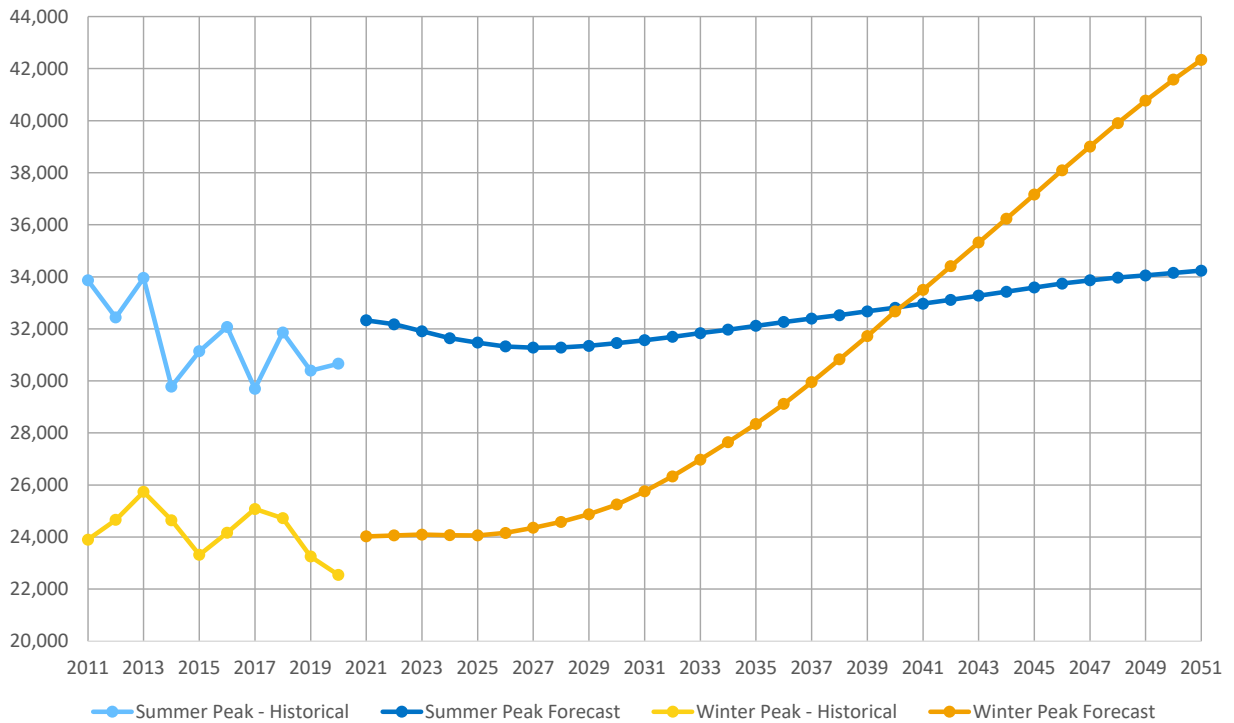


Table I-1b: Summary of NYCA Baseline Annual Energy Forecasts – GWh

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) (+) Non-EV Electrification	(i) = c-d-e+f+g+h Baseline Annual Energy Forecast
2021	157,704	2,495	155,209	3,545	1,267	50	371	162	150,980
2022	160,238	5,096	155,142	4,377	1,396	116	629	366	150,480
2023	161,905	8,063	153,842	5,169	1,501	159	937	632	148,900
2024	163,559	11,210	152,349	5,978	1,592	213	1,311	1,017	147,320
2025	165,373	14,593	150,780	6,439	1,678	273	1,783	1,451	146,170
2026	167,163	17,934	149,229	6,817	1,745	340	2,298	2,025	145,330
2027	169,035	21,200	147,835	7,162	1,809	407	2,906	2,783	144,960
2028	170,942	24,314	146,628	7,476	1,866	478	3,582	3,724	145,070
2029	172,653	27,178	145,475	7,760	1,922	550	4,321	4,696	145,360
2030	174,210	29,659	144,551	8,013	1,975	622	5,129	5,646	145,960
2031	175,744	32,145	143,599	8,243	2,027	693	6,007	6,661	146,690
2032	177,006	34,556	142,450	8,450	2,076	767	6,940	7,899	147,530
2033	178,239	36,815	141,424	8,637	2,123	840	7,945	9,161	148,610
2034	179,193	38,884	140,309	8,812	2,162	911	9,157	10,407	149,810
2035	180,346	40,773	139,573	8,969	2,198	978	10,169	11,697	151,250
2036	180,976	42,478	138,498	9,086	2,233	1,048	11,422	13,191	152,840
2037	181,606	44,004	137,602	9,178	2,262	1,112	12,576	14,770	154,620
2038	182,089	45,377	136,712	9,252	2,288	1,179	13,744	16,435	156,530
2039	182,581	46,623	135,958	9,304	2,314	1,242	14,932	18,176	158,690
2040	182,931	47,768	135,163	9,354	2,339	1,305	16,222	19,983	160,980
2041	183,356	48,774	134,582	9,387	2,362	1,368	17,284	22,045	163,530
2042	183,508	49,644	133,864	9,414	2,380	1,426	18,446	24,238	166,180
2043	183,638	50,363	133,275	9,439	2,395	1,484	19,593	26,522	169,040
2044	183,730	50,966	132,764	9,457	2,409	1,540	20,705	28,837	171,980
2045	183,758	51,468	132,290	9,477	2,421	1,600	21,788	31,290	175,070
2046	183,795	51,895	131,900	9,492	2,432	1,651	22,803	33,840	178,270
2047	183,807	52,241	131,566	9,507	2,439	1,704	23,779	36,467	181,570
2048	183,765	52,512	131,253	9,522	2,446	1,757	24,692	39,126	184,860
2049	183,596	52,702	130,894	9,533	2,450	1,804	25,531	41,854	188,100
2050	183,413	52,851	130,562	9,543	2,454	1,856	26,273	44,546	191,240
2051	183,314	53,000	130,314	9,552	2,458	1,905	26,907	47,174	194,290

- (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 2020
- (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: Non-EV Electrification Energy Usage - future end-use electrification including heat pumps, water heating, cooking, and other end-uses
- (i) - 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) (+) Non-EV Electrification	(i) = c-d-e-f+g+h Baseline Summer Peak Forecast
2021	33,605	423	33,182	650	223	38	52	4	32,327
2022	34,013	860	33,153	749	248	49	60	11	32,178
2023	34,333	1,364	32,969	834	268	62	85	20	31,910
2024	34,653	1,902	32,751	895	286	78	121	28	31,641
2025	35,072	2,488	32,584	931	300	96	173	40	31,470
2026	35,477	3,059	32,418	951	314	115	236	52	31,326
2027	35,935	3,620	32,315	948	327	135	307	66	31,278
2028	36,400	4,161	32,239	936	338	155	392	82	31,284
2029	36,869	4,652	32,217	916	350	180	481	96	31,348
2030	37,292	5,082	32,210	889	359	204	581	114	31,453
2031	37,713	5,514	32,199	856	370	229	688	133	31,565
2032	38,120	5,933	32,187	817	378	253	798	154	31,691
2033	38,501	6,325	32,176	774	387	278	915	182	31,834
2034	38,830	6,684	32,146	728	394	303	1,036	213	31,970
2035	39,140	7,012	32,128	679	401	330	1,157	242	32,117
2036	39,408	7,307	32,101	634	409	353	1,282	277	32,264
2037	39,631	7,571	32,060	586	415	381	1,409	308	32,395
2038	39,832	7,812	32,020	542	419	406	1,532	343	32,528
2039	40,022	8,030	31,992	497	425	433	1,655	379	32,671
2040	40,201	8,229	31,972	457	430	461	1,776	412	32,812
2041	40,351	8,405	31,946	408	435	487	1,893	457	32,966
2042	40,487	8,559	31,928	364	439	514	2,007	497	33,115
2043	40,612	8,685	31,927	317	442	537	2,114	530	33,275
2044	40,721	8,791	31,930	273	445	565	2,215	565	33,427
2045	40,835	8,881	31,954	234	447	593	2,311	598	33,589
2046	40,942	8,958	31,984	197	449	618	2,396	627	33,743
2047	41,016	9,018	31,998	168	451	644	2,471	657	33,863
2048	41,088	9,068	32,020	146	452	674	2,538	685	33,971
2049	41,137	9,101	32,036	130	453	700	2,592	710	34,055
2050	41,210	9,128	32,082	115	454	728	2,633	732	34,150
2051	41,303	9,155	32,148	105	455	757	2,662	747	34,240

(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 2020

(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 Summer 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: Non-EV Electrification Summer Coincident Peak Demand - future end-use electrification including heat pumps, water heating, cooking, and other end-uses

(i) - 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) (+) Non-EV Electrification	(i) = c-d-e-f+g+h Baseline Winter Peak Forecast
2021-22	24,444	365	24,079	0	223	30	71	128	24,025
2022-23	24,708	744	23,964	0	248	38	104	283	24,065
2023-24	24,993	1,177	23,816	0	268	50	157	440	24,095
2024-25	25,205	1,638	23,567	0	286	63	228	626	24,072
2025-26	25,416	2,132	23,284	0	300	76	316	841	24,065
2026-27	25,659	2,619	23,040	0	314	93	421	1,106	24,160
2027-28	25,769	3,096	22,673	0	327	108	540	1,581	24,359
2028-29	25,837	3,552	22,285	0	338	126	672	2,090	24,583
2029-30	25,906	3,970	21,936	0	350	143	814	2,622	24,879
2030-31	25,988	4,332	21,656	0	359	162	966	3,151	25,252
2031-32	26,141	4,695	21,446	0	370	183	1,126	3,738	25,757
2032-33	26,172	5,049	21,123	0	378	203	1,292	4,498	26,332
2033-34	26,231	5,381	20,850	0	387	224	1,465	5,273	26,977
2034-35	26,280	5,680	20,600	0	394	243	1,639	6,045	27,647
2035-36	26,319	5,957	20,362	0	401	263	1,821	6,828	28,347
2036-37	26,385	6,208	20,177	0	409	282	1,999	7,633	29,118
2037-38	26,354	6,433	19,921	0	415	305	2,175	8,576	29,952
2038-39	26,335	6,634	19,701	0	419	325	2,351	9,522	30,830
2039-40	26,310	6,815	19,495	0	425	345	2,525	10,469	31,719
2040-41	26,342	6,984	19,358	0	430	369	2,690	11,419	32,668
2041-42	26,271	7,131	19,140	0	435	390	2,857	12,326	33,498
2042-43	26,221	7,258	18,963	0	439	411	3,022	13,274	34,409
2043-44	26,154	7,364	18,790	0	442	429	3,180	14,220	35,319
2044-45	26,114	7,453	18,661	0	445	451	3,329	15,143	36,237
2045-46	26,052	7,526	18,526	0	447	474	3,470	16,086	37,161
2046-47	25,992	7,590	18,402	0	449	496	3,602	17,033	38,092
2047-48	25,924	7,639	18,285	0	451	515	3,717	17,970	39,006
2048-49	25,884	7,682	18,202	0	452	540	3,823	18,873	39,906
2049-50	25,809	7,706	18,103	0	453	560	3,914	19,763	40,767
2050-51	25,770	7,729	18,041	0	454	583	3,986	20,590	41,580
2051-52	25,755	7,752	18,003	0	455	606	4,049	21,344	42,335

- (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 2020-21
- (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-12d: Storage Impacts, Behind-the-Meter, Reductions in Winter 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: Non-EV Electrification Winter Coincident Peak Demand - future end-use electrification including heat pumps, water heating, cooking, and other end-uses
- (i) - 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
2011	16,017	10,040	16,167	5,903	7,752	11,435	10,066	2,978	6,208	54,059	22,704	163,329
2012	15,595	10,009	16,117	6,574	7,943	11,846	9,938	2,930	6,099	53,487	22,302	162,840
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	15,890	9,902	16,347	4,835	8,158	12,010	9,834	2,886	6,088	52,541	21,568	160,059
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	14,604	9,799	15,541	5,514	7,727	11,795	9,142	2,860	5,749	48,310	19,939	150,980
2022	14,557	9,791	15,425	5,991	7,608	11,738	8,967	2,861	5,758	48,091	19,693	150,480
2023	14,361	9,736	15,252	6,068	7,455	11,638	8,829	2,861	5,760	47,554	19,386	148,900
2024	14,100	9,671	15,134	6,061	7,336	11,511	8,697	2,855	5,711	47,130	19,114	147,320
2025	13,936	9,540	15,023	6,058	7,298	11,352	8,657	2,852	5,667	46,922	18,865	146,170
2026	13,765	9,463	14,988	6,035	7,276	11,272	8,613	2,858	5,647	46,803	18,610	145,330
2027	13,674	9,388	14,930	6,018	7,252	11,223	8,590	2,865	5,653	46,835	18,532	144,960
2028	13,637	9,348	14,866	6,012	7,219	11,252	8,570	2,873	5,667	46,995	18,631	145,070
2029	13,629	9,326	14,794	6,005	7,189	11,277	8,547	2,877	5,687	47,225	18,804	145,360
2030	13,679	9,319	14,751	6,004	7,182	11,307	8,576	2,885	5,713	47,498	19,046	145,960
2031	13,713	9,339	14,675	6,007	7,177	11,377	8,595	2,896	5,753	47,878	19,280	146,690
2032	13,757	9,362	14,622	6,009	7,178	11,448	8,623	2,910	5,799	48,314	19,508	147,530
2033	13,832	9,395	14,599	6,016	7,184	11,526	8,673	2,929	5,859	48,844	19,753	148,610
2034	13,925	9,433	14,600	6,022	7,199	11,607	8,730	2,954	5,922	49,412	20,006	149,810
2035	14,037	9,484	14,636	6,032	7,221	11,693	8,811	2,982	5,995	50,057	20,302	151,250
2036	14,153	9,541	14,710	6,044	7,251	11,787	8,899	3,013	6,075	50,769	20,598	152,840
2037	14,271	9,610	14,815	6,057	7,288	11,889	9,002	3,050	6,162	51,560	20,916	154,620
2038	14,403	9,683	14,941	6,070	7,333	12,005	9,118	3,094	6,257	52,391	21,235	156,530
2039	14,543	9,768	15,085	6,090	7,385	12,130	9,266	3,137	6,367	53,343	21,576	158,690
2040	14,701	9,875	15,263	6,109	7,451	12,275	9,429	3,185	6,476	54,283	21,933	160,980
2041	14,897	10,021	15,496	6,128	7,533	12,448	9,626	3,237	6,585	55,247	22,312	163,530
2042	15,127	10,196	15,764	6,150	7,636	12,647	9,834	3,292	6,686	56,133	22,715	166,180
2043	15,377	10,388	16,058	6,176	7,749	12,862	10,063	3,356	6,792	57,071	23,148	169,040
2044	15,636	10,590	16,354	6,202	7,873	13,086	10,294	3,419	6,899	58,021	23,606	171,980
2045	15,912	10,801	16,665	6,229	8,004	13,328	10,533	3,485	7,013	59,018	24,082	175,070
2046	16,205	11,024	16,964	6,255	8,146	13,586	10,778	3,555	7,127	60,049	24,581	178,270
2047	16,506	11,257	17,287	6,285	8,295	13,850	11,030	3,626	7,245	61,113	25,076	181,570
2048	16,801	11,491	17,625	6,316	8,443	14,116	11,279	3,700	7,363	62,158	25,568	184,860
2049	17,102	11,728	17,946	6,345	8,592	14,381	11,525	3,772	7,477	63,186	26,046	188,100
2050	17,394	11,959	18,260	6,372	8,738	14,640	11,767	3,841	7,589	64,177	26,503	191,240
2051	17,679	12,187	18,563	6,400	8,880	14,890	12,008	3,907	7,696	65,133	26,947	194,290

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

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
2011	2,556	2,019	2,872	776	1,447	2,233	2,415	730	1,510	11,374	5,935	33,867
2012	2,743	2,107	2,888	774	1,420	2,388	2,242	653	1,393	10,722	5,109	32,439
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	2,694	1,965	2,796	619	1,372	2,364	2,219	638	1,382	11,047	5,231	32,327
2022	2,644	1,943	2,762	676	1,359	2,347	2,179	637	1,379	11,116	5,136	32,178
2023	2,604	1,932	2,732	688	1,349	2,335	2,145	636	1,375	11,075	5,039	31,910
2024	2,584	1,914	2,718	688	1,341	2,314	2,113	632	1,366	11,052	4,919	31,641
2025	2,568	1,908	2,716	688	1,340	2,304	2,097	630	1,364	11,029	4,826	31,470
2026	2,551	1,897	2,712	686	1,337	2,297	2,079	629	1,361	11,031	4,746	31,326
2027	2,532	1,892	2,706	683	1,335	2,293	2,066	631	1,363	11,082	4,695	31,278
2028	2,516	1,884	2,694	682	1,331	2,291	2,057	634	1,368	11,151	4,676	31,284
2029	2,505	1,880	2,683	680	1,326	2,291	2,051	636	1,375	11,232	4,689	31,348
2030	2,499	1,875	2,671	680	1,323	2,295	2,052	639	1,382	11,308	4,729	31,453
2031	2,494	1,867	2,659	679	1,320	2,301	2,056	645	1,392	11,381	4,771	31,565
2032	2,492	1,862	2,645	679	1,317	2,308	2,057	649	1,402	11,450	4,830	31,691
2033	2,490	1,856	2,629	679	1,316	2,319	2,060	654	1,413	11,517	4,901	31,834
2034	2,492	1,851	2,619	679	1,314	2,329	2,064	657	1,421	11,578	4,966	31,970
2035	2,496	1,848	2,610	681	1,313	2,337	2,072	661	1,430	11,638	5,031	32,117
2036	2,501	1,847	2,604	681	1,314	2,347	2,079	666	1,438	11,694	5,093	32,264
2037	2,504	1,846	2,600	682	1,316	2,354	2,085	667	1,445	11,746	5,150	32,395
2038	2,508	1,845	2,598	682	1,317	2,360	2,095	671	1,451	11,796	5,205	32,528
2039	2,516	1,849	2,596	683	1,321	2,369	2,108	674	1,457	11,843	5,255	32,671
2040	2,524	1,855	2,597	684	1,325	2,379	2,123	675	1,462	11,887	5,301	32,812
2041	2,534	1,863	2,600	686	1,332	2,392	2,143	678	1,466	11,929	5,343	32,966
2042	2,547	1,875	2,604	687	1,337	2,407	2,165	679	1,470	11,967	5,377	33,115
2043	2,562	1,890	2,610	688	1,347	2,421	2,187	683	1,473	12,003	5,411	33,275
2044	2,577	1,905	2,617	690	1,356	2,437	2,208	683	1,476	12,035	5,443	33,427
2045	2,594	1,921	2,631	691	1,366	2,453	2,231	684	1,480	12,065	5,473	33,589
2046	2,611	1,936	2,646	692	1,374	2,471	2,251	687	1,482	12,093	5,500	33,743
2047	2,624	1,949	2,660	694	1,381	2,484	2,267	687	1,484	12,117	5,516	33,863
2048	2,636	1,959	2,672	696	1,389	2,494	2,283	689	1,485	12,140	5,528	33,971
2049	2,647	1,968	2,682	697	1,393	2,504	2,296	689	1,486	12,162	5,531	34,055
2050	2,658	1,979	2,694	698	1,399	2,515	2,310	690	1,487	12,185	5,535	34,150
2051	2,670	1,988	2,706	699	1,406	2,522	2,325	690	1,488	12,206	5,540	34,240

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

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
2011-12	2,220	1,535	2,532	904	1,243	1,765	1,618	490	893	7,323	3,378	23,901
2012-13	2,343	1,568	2,672	954	1,348	1,923	1,539	510	947	7,456	3,399	24,659
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	2,151	1,519	2,562	817	1,311	1,958	1,569	491	856	7,540	3,251	24,025
2022-23	2,147	1,515	2,559	825	1,309	1,954	1,557	491	859	7,619	3,230	24,065
2023-24	2,133	1,503	2,546	832	1,300	1,942	1,536	493	868	7,733	3,209	24,095
2024-25	2,113	1,485	2,523	838	1,289	1,925	1,517	493	874	7,830	3,185	24,072
2025-26	2,093	1,466	2,497	838	1,276	1,910	1,504	493	877	7,941	3,170	24,065
2026-27	2,084	1,452	2,481	838	1,269	1,902	1,500	494	884	8,088	3,168	24,160
2027-28	2,084	1,446	2,477	838	1,265	1,902	1,506	494	896	8,265	3,186	24,359
2028-29	2,089	1,444	2,479	838	1,265	1,908	1,518	498	913	8,412	3,219	24,583
2029-30	2,104	1,448	2,489	840	1,269	1,920	1,539	504	932	8,575	3,259	24,879
2030-31	2,126	1,457	2,509	842	1,277	1,940	1,566	511	952	8,750	3,322	25,252
2031-32	2,158	1,473	2,540	845	1,291	1,966	1,601	521	978	8,975	3,409	25,757
2032-33	2,193	1,493	2,577	848	1,306	1,996	1,636	532	1,007	9,236	3,508	26,332
2033-34	2,229	1,515	2,613	850	1,322	2,028	1,673	544	1,041	9,543	3,619	26,977
2034-35	2,269	1,540	2,651	854	1,338	2,062	1,712	556	1,075	9,852	3,738	27,647
2035-36	2,312	1,567	2,692	858	1,356	2,100	1,754	570	1,110	10,163	3,865	28,347
2036-37	2,361	1,599	2,742	863	1,379	2,142	1,802	583	1,147	10,504	3,996	29,118
2037-38	2,416	1,635	2,796	867	1,403	2,189	1,852	600	1,188	10,870	4,136	29,952
2038-39	2,474	1,674	2,856	873	1,430	2,240	1,905	616	1,230	11,255	4,277	30,830
2039-40	2,539	1,717	2,920	878	1,459	2,296	1,963	634	1,271	11,621	4,421	31,719
2040-41	2,611	1,768	2,996	884	1,492	2,358	2,026	652	1,313	12,003	4,565	32,668
2041-42	2,668	1,813	3,051	888	1,519	2,409	2,086	667	1,351	12,334	4,712	33,498
2042-43	2,737	1,866	3,122	895	1,552	2,472	2,151	683	1,392	12,680	4,859	34,409
2043-44	2,812	1,923	3,199	901	1,590	2,541	2,220	700	1,430	13,004	4,999	35,319
2044-45	2,895	1,986	3,286	909	1,631	2,617	2,293	718	1,466	13,300	5,136	36,237
2045-46	2,984	2,055	3,380	917	1,676	2,701	2,371	737	1,497	13,575	5,268	37,161
2046-47	3,082	2,133	3,481	925	1,724	2,789	2,451	755	1,528	13,826	5,398	38,092
2047-48	3,183	2,213	3,585	934	1,774	2,883	2,535	774	1,554	14,050	5,521	39,006
2048-49	3,291	2,297	3,696	943	1,828	2,980	2,619	793	1,578	14,244	5,637	39,906
2049-50	3,399	2,381	3,809	952	1,882	3,080	2,705	810	1,599	14,407	5,743	40,767
2050-51	3,510	2,470	3,923	960	1,936	3,182	2,792	828	1,614	14,526	5,839	41,580
2051-52	3,619	2,556	4,034	966	1,990	3,283	2,877	844	1,626	14,610	5,930	42,335

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

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
2011	2,921	2,199	3,042	811	1,519	2,425	2,415	730	1,512	11,424	5,935
2012	2,746	2,113	2,889	809	1,433	2,388	2,273	681	1,414	11,112	5,516
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	704	1,397	2,342	2,198	652	1,392	10,990	5,394
2017	2,494	1,828	2,649	736	1,362	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	2,852	2,027	2,863	633	1,431	2,402	2,256	649	1,403	11,199	5,249
2022	2,799	2,005	2,828	692	1,418	2,385	2,215	648	1,400	11,268	5,153
2023	2,757	1,993	2,798	704	1,407	2,372	2,181	647	1,396	11,227	5,056
2024	2,736	1,975	2,783	704	1,399	2,351	2,148	643	1,387	11,203	4,936
2025	2,719	1,968	2,781	704	1,398	2,341	2,132	641	1,385	11,180	4,842
2026	2,701	1,957	2,777	702	1,395	2,334	2,114	640	1,382	11,182	4,762
2027	2,681	1,952	2,771	699	1,393	2,330	2,100	642	1,384	11,234	4,711
2028	2,664	1,944	2,759	698	1,388	2,328	2,091	645	1,389	11,304	4,692
2029	2,652	1,940	2,747	696	1,383	2,328	2,085	647	1,396	11,386	4,705
2030	2,646	1,934	2,735	696	1,380	2,332	2,086	650	1,403	11,463	4,745
2031	2,640	1,926	2,723	695	1,377	2,338	2,090	656	1,413	11,537	4,787
2032	2,638	1,921	2,708	695	1,374	2,345	2,091	660	1,423	11,607	4,846
2033	2,636	1,915	2,692	695	1,373	2,356	2,094	665	1,434	11,675	4,918
2034	2,638	1,910	2,682	695	1,371	2,366	2,098	668	1,443	11,737	4,983
2035	2,643	1,907	2,673	697	1,370	2,374	2,106	672	1,452	11,797	5,048
2036	2,648	1,906	2,666	697	1,371	2,385	2,114	678	1,460	11,854	5,110
2037	2,651	1,905	2,662	698	1,373	2,392	2,120	679	1,467	11,907	5,168
2038	2,655	1,903	2,660	698	1,374	2,398	2,130	683	1,473	11,958	5,223
2039	2,664	1,908	2,658	699	1,378	2,407	2,143	686	1,479	12,005	5,273
2040	2,672	1,914	2,659	700	1,382	2,417	2,158	687	1,484	12,050	5,319
2041	2,683	1,922	2,662	702	1,390	2,430	2,179	690	1,488	12,092	5,361
2042	2,697	1,934	2,666	703	1,395	2,446	2,201	691	1,492	12,131	5,395
2043	2,712	1,950	2,673	704	1,405	2,460	2,223	695	1,495	12,167	5,429
2044	2,728	1,965	2,680	706	1,415	2,476	2,245	695	1,498	12,200	5,462
2045	2,746	1,982	2,694	707	1,425	2,492	2,268	696	1,502	12,230	5,492
2046	2,764	1,997	2,710	708	1,433	2,511	2,288	699	1,505	12,259	5,519
2047	2,778	2,011	2,724	710	1,441	2,524	2,305	699	1,507	12,283	5,535
2048	2,791	2,021	2,736	712	1,449	2,534	2,321	701	1,508	12,306	5,547
2049	2,802	2,030	2,746	713	1,453	2,544	2,334	701	1,509	12,329	5,550
2050	2,814	2,042	2,759	714	1,459	2,555	2,348	702	1,510	12,352	5,554
2051	2,827	2,051	2,771	715	1,467	2,562	2,364	702	1,511	12,373	5,559

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

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
2011-12	2,241	1,542	2,532	906	1,309	1,792	1,618	542	893	7,532	3,412
2012-13	2,381	1,594	2,672	965	1,356	1,923	1,539	525	965	7,535	3,399
2013-14	2,430	1,654	2,781	899	1,424	1,998	1,700	625	978	7,896	3,594
2014-15	2,419	1,629	2,689	725	1,423	1,949	1,583	537	954	7,632	3,406
2015-16	2,285	1,530	2,540	704	1,314	1,895	1,546	514	907	7,362	3,189
2016-17	2,295	1,600	2,573	688	1,395	1,867	1,553	554	921	7,506	3,320
2017-18	2,333	1,579	2,766	736	1,411	2,025	1,645	550	952	7,822	3,441
2018-19	2,193	1,603	2,712	775	1,419	2,066	1,618	534	941	7,756	3,390
2019-20	2,137	1,478	2,482	746	1,317	1,859	1,473	497	850	7,398	3,157
2020-21	2,121	1,505	2,426	819	1,315	1,866	1,481	533	869	6,853	3,143
2021-22	2,177	1,539	2,567	838	1,343	1,974	1,580	515	869	7,610	3,270
2022-23	2,173	1,535	2,564	846	1,341	1,970	1,568	515	872	7,690	3,248
2023-24	2,159	1,523	2,551	854	1,331	1,958	1,547	517	881	7,805	3,227
2024-25	2,139	1,505	2,528	860	1,320	1,941	1,528	517	887	7,903	3,203
2025-26	2,119	1,486	2,502	860	1,307	1,926	1,515	517	890	8,015	3,188
2026-27	2,110	1,471	2,486	860	1,300	1,918	1,511	518	897	8,163	3,186
2027-28	2,110	1,465	2,482	860	1,296	1,918	1,517	518	909	8,342	3,204
2028-29	2,115	1,463	2,484	860	1,296	1,924	1,529	522	927	8,490	3,237
2029-30	2,130	1,467	2,494	862	1,300	1,936	1,550	529	946	8,655	3,278
2030-31	2,152	1,477	2,514	864	1,308	1,956	1,577	536	966	8,831	3,341
2031-32	2,185	1,493	2,545	867	1,322	1,982	1,613	547	993	9,058	3,428
2032-33	2,220	1,513	2,582	870	1,338	2,012	1,648	558	1,022	9,322	3,528
2033-34	2,256	1,535	2,618	872	1,354	2,045	1,685	571	1,057	9,632	3,640
2034-35	2,297	1,561	2,657	876	1,370	2,079	1,724	583	1,091	9,944	3,759
2035-36	2,340	1,588	2,698	880	1,389	2,117	1,767	598	1,127	10,258	3,887
2036-37	2,390	1,620	2,748	885	1,412	2,160	1,815	612	1,164	10,602	4,019
2037-38	2,446	1,657	2,802	889	1,437	2,207	1,865	629	1,206	10,971	4,160
2038-39	2,504	1,696	2,862	896	1,465	2,258	1,919	646	1,248	11,360	4,301
2039-40	2,570	1,740	2,926	901	1,494	2,315	1,977	665	1,290	11,729	4,446
2040-41	2,643	1,792	3,002	907	1,528	2,377	2,041	684	1,333	12,115	4,591
2041-42	2,701	1,837	3,057	911	1,556	2,429	2,101	700	1,371	12,449	4,739
2042-43	2,771	1,891	3,129	918	1,590	2,492	2,166	716	1,413	12,798	4,887
2043-44	2,847	1,949	3,206	924	1,628	2,562	2,236	734	1,451	13,125	5,027
2044-45	2,931	2,013	3,293	933	1,670	2,638	2,310	753	1,488	13,424	5,165
2045-46	3,021	2,083	3,387	941	1,717	2,723	2,388	773	1,519	13,701	5,298
2046-47	3,120	2,162	3,488	949	1,766	2,812	2,469	792	1,551	13,955	5,429
2047-48	3,222	2,243	3,593	958	1,817	2,907	2,553	812	1,577	14,181	5,552
2048-49	3,331	2,328	3,704	967	1,872	3,004	2,638	832	1,602	14,376	5,669
2049-50	3,441	2,413	3,817	977	1,928	3,105	2,724	850	1,623	14,541	5,776
2050-51	3,553	2,503	3,931	985	1,983	3,208	2,812	869	1,638	14,661	5,872
2051-52	3,664	2,590	4,042	991	2,038	3,310	2,898	885	1,650	14,746	5,964

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

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
2011	2,415	730	1,510	11,374	16,029
2012	2,273	657	1,414	11,098	15,442
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	2,237	643	1,394	11,137	15,411
2022	2,197	642	1,390	11,206	15,435
2023	2,162	641	1,386	11,165	15,354
2024	2,130	637	1,377	11,142	15,286
2025	2,114	635	1,375	11,118	15,242
2026	2,096	634	1,372	11,120	15,222
2027	2,083	636	1,374	11,172	15,265
2028	2,074	639	1,379	11,241	15,333
2029	2,068	641	1,386	11,323	15,418
2030	2,069	644	1,393	11,400	15,506
2031	2,073	650	1,403	11,473	15,599
2032	2,074	654	1,413	11,543	15,684
2033	2,077	659	1,424	11,610	15,770
2034	2,081	662	1,433	11,672	15,848
2035	2,089	666	1,442	11,732	15,929
2036	2,096	671	1,450	11,789	16,006
2037	2,102	672	1,457	11,841	16,072
2038	2,112	676	1,463	11,892	16,143
2039	2,125	679	1,469	11,939	16,212
2040	2,140	680	1,474	11,983	16,277
2041	2,160	683	1,478	12,026	16,347
2042	2,183	684	1,482	12,064	16,413
2043	2,205	689	1,485	12,100	16,479
2044	2,226	689	1,488	12,132	16,535
2045	2,249	690	1,492	12,163	16,594
2046	2,269	693	1,494	12,191	16,647
2047	2,285	693	1,496	12,215	16,689
2048	2,301	695	1,497	12,238	16,731
2049	2,315	695	1,498	12,261	16,769
2050	2,329	696	1,499	12,284	16,808
2051	2,344	696	1,500	12,305	16,845

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

Year	G	H	I	J	G-J
2011-12	1,527	527	878	7,417	10,349
2012-13	1,539	510	947	7,456	10,452
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	1,567	480	856	7,591	10,494
2022-23	1,555	480	859	7,670	10,564
2023-24	1,534	482	868	7,785	10,669
2024-25	1,515	482	874	7,882	10,753
2025-26	1,502	482	877	7,994	10,855
2026-27	1,498	483	884	8,142	11,007
2027-28	1,504	483	896	8,320	11,203
2028-29	1,516	487	913	8,468	11,384
2029-30	1,537	493	932	8,632	11,594
2030-31	1,564	500	952	8,809	11,825
2031-32	1,599	509	978	9,035	12,121
2032-33	1,634	520	1,007	9,298	12,459
2033-34	1,671	532	1,041	9,607	12,851
2034-35	1,710	543	1,075	9,918	13,246
2035-36	1,752	557	1,110	10,231	13,650
2036-37	1,800	570	1,147	10,574	14,091
2037-38	1,850	587	1,188	10,943	14,568
2038-39	1,903	602	1,230	11,330	15,065
2039-40	1,961	620	1,271	11,699	15,551
2040-41	2,024	637	1,313	12,083	16,057
2041-42	2,084	652	1,351	12,417	16,504
2042-43	2,149	668	1,392	12,765	16,974
2043-44	2,218	684	1,430	13,091	17,423
2044-45	2,290	702	1,466	13,389	17,847
2045-46	2,368	720	1,497	13,666	18,251
2046-47	2,448	738	1,528	13,919	18,633
2047-48	2,532	757	1,554	14,144	18,987
2048-49	2,616	775	1,578	14,339	19,308
2049-50	2,702	792	1,599	14,504	19,597
2050-51	2,789	809	1,614	14,623	19,835
2051-52	2,874	825	1,626	14,708	20,033

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

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
2021	14,738	9,916	15,682	5,538	7,800	11,927	9,267	2,911	5,828	48,962	20,238	152,807
2022	14,691	9,908	15,565	6,017	7,680	11,869	9,090	2,912	5,837	48,740	19,988	152,297
2023	14,493	9,852	15,391	6,094	7,526	11,768	8,950	2,912	5,839	48,196	19,677	150,698
2024	14,230	9,786	15,272	6,087	7,406	11,640	8,816	2,906	5,790	47,766	19,401	149,100
2025	14,064	9,654	15,160	6,084	7,367	11,479	8,776	2,902	5,745	47,555	19,148	147,934
2026	13,892	9,576	15,124	6,061	7,345	11,398	8,731	2,909	5,725	47,435	18,889	147,085
2027	13,800	9,500	15,066	6,044	7,321	11,349	8,708	2,916	5,731	47,467	18,810	146,712
2028	13,762	9,459	15,001	6,038	7,288	11,378	8,687	2,924	5,745	47,629	18,910	146,821
2029	13,754	9,437	14,929	6,031	7,257	11,403	8,664	2,928	5,765	47,863	19,086	147,117
2030	13,805	9,430	14,885	6,030	7,250	11,434	8,693	2,936	5,792	48,139	19,332	147,726
2031	13,839	9,450	14,809	6,033	7,245	11,504	8,713	2,947	5,832	48,524	19,569	148,465
2032	13,884	9,473	14,755	6,035	7,246	11,576	8,741	2,962	5,879	48,966	19,801	149,318
2033	13,959	9,507	14,732	6,042	7,252	11,655	8,792	2,981	5,940	49,503	20,049	150,412
2034	14,053	9,545	14,733	6,048	7,267	11,737	8,850	3,006	6,004	50,079	20,306	151,628
2035	14,166	9,597	14,769	6,058	7,290	11,824	8,932	3,035	6,078	50,733	20,607	153,089
2036	14,283	9,655	14,844	6,070	7,320	11,919	9,021	3,066	6,159	51,454	20,907	154,698
2037	14,402	9,724	14,950	6,083	7,357	12,022	9,125	3,104	6,247	52,256	21,230	156,500
2038	14,536	9,798	15,077	6,096	7,403	12,139	9,243	3,149	6,343	53,098	21,554	158,436
2039	14,677	9,884	15,222	6,116	7,455	12,266	9,393	3,193	6,455	54,063	21,900	160,624
2040	14,836	9,993	15,402	6,135	7,522	12,412	9,558	3,241	6,565	55,016	22,262	162,942
2041	15,034	10,140	15,637	6,154	7,605	12,587	9,758	3,294	6,676	55,993	22,647	165,525
2042	15,266	10,317	15,907	6,176	7,709	12,789	9,969	3,350	6,778	56,891	23,056	168,208
2043	15,518	10,512	16,204	6,203	7,823	13,006	10,201	3,415	6,886	57,841	23,495	171,104
2044	15,780	10,716	16,503	6,229	7,948	13,233	10,435	3,480	6,994	58,804	23,960	174,082
2045	16,058	10,930	16,817	6,256	8,080	13,477	10,677	3,547	7,110	59,815	24,443	177,210
2046	16,354	11,155	17,118	6,282	8,223	13,738	10,926	3,618	7,225	60,860	24,950	180,449
2047	16,658	11,391	17,444	6,312	8,374	14,005	11,181	3,690	7,345	61,938	25,452	183,790
2048	16,956	11,628	17,785	6,343	8,523	14,274	11,434	3,765	7,465	62,997	25,952	187,122
2049	17,259	11,868	18,109	6,372	8,674	14,542	11,683	3,839	7,580	64,039	26,437	190,402
2050	17,554	12,101	18,426	6,399	8,821	14,804	11,928	3,909	7,694	65,043	26,901	193,580
2051	17,842	12,332	18,732	6,428	8,964	15,057	12,173	3,976	7,802	66,012	27,351	196,669

Note: 90th percentile energy forecast is representative of weather conditions above expected in summer and below expected in winter.

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
2021	14,470	9,682	15,400	5,490	7,654	11,663	9,017	2,809	5,670	47,658	19,640	149,153
2022	14,423	9,674	15,285	5,965	7,536	11,607	8,844	2,810	5,679	47,442	19,398	148,663
2023	14,229	9,620	15,113	6,042	7,384	11,508	8,708	2,810	5,681	46,912	19,095	147,102
2024	13,970	9,556	14,996	6,035	7,266	11,382	8,578	2,804	5,632	46,494	18,827	145,540
2025	13,808	9,426	14,886	6,032	7,229	11,225	8,538	2,802	5,589	46,289	18,582	144,406
2026	13,638	9,350	14,852	6,009	7,207	11,146	8,495	2,807	5,569	46,171	18,331	143,575
2027	13,548	9,276	14,794	5,992	7,183	11,097	8,472	2,814	5,575	46,203	18,254	143,208
2028	13,512	9,237	14,731	5,986	7,150	11,126	8,453	2,822	5,589	46,361	18,352	143,319
2029	13,504	9,215	14,659	5,979	7,121	11,151	8,430	2,826	5,609	46,587	18,522	143,603
2030	13,553	9,208	14,617	5,978	7,114	11,180	8,459	2,834	5,634	46,857	18,760	144,194
2031	13,587	9,228	14,541	5,981	7,109	11,250	8,477	2,845	5,674	47,232	18,991	144,915
2032	13,630	9,251	14,489	5,983	7,110	11,320	8,505	2,858	5,719	47,662	19,215	145,742
2033	13,705	9,283	14,466	5,990	7,116	11,397	8,554	2,877	5,778	48,185	19,457	146,808
2034	13,797	9,321	14,467	5,996	7,131	11,477	8,610	2,902	5,840	48,745	19,706	147,992
2035	13,908	9,371	14,503	6,006	7,152	11,562	8,690	2,929	5,912	49,381	19,997	149,411
2036	14,023	9,427	14,576	6,018	7,182	11,655	8,777	2,960	5,991	50,084	20,289	150,982
2037	14,140	9,496	14,680	6,031	7,219	11,756	8,879	2,996	6,077	50,864	20,602	152,740
2038	14,270	9,568	14,805	6,044	7,263	11,871	8,993	3,039	6,171	51,684	20,916	154,624
2039	14,409	9,652	14,948	6,064	7,315	11,994	9,139	3,081	6,279	52,623	21,252	156,756
2040	14,566	9,757	15,124	6,083	7,380	12,138	9,300	3,129	6,387	53,550	21,604	159,018
2041	14,760	9,902	15,355	6,102	7,461	12,309	9,494	3,180	6,494	54,501	21,977	161,535
2042	14,988	10,075	15,621	6,124	7,563	12,505	9,699	3,234	6,594	55,375	22,374	164,152
2043	15,236	10,264	15,912	6,149	7,675	12,718	9,925	3,297	6,698	56,301	22,801	166,976
2044	15,492	10,464	16,205	6,175	7,798	12,939	10,153	3,358	6,804	57,238	23,252	169,878
2045	15,766	10,672	16,513	6,202	7,928	13,179	10,389	3,423	6,916	58,221	23,721	172,930
2046	16,056	10,893	16,810	6,228	8,069	13,434	10,630	3,492	7,029	59,238	24,212	176,091
2047	16,354	11,123	17,130	6,258	8,216	13,695	10,879	3,562	7,145	60,288	24,700	179,350
2048	16,646	11,354	17,465	6,289	8,363	13,958	11,124	3,635	7,261	61,319	25,184	182,598
2049	16,945	11,588	17,783	6,318	8,510	14,220	11,367	3,705	7,374	62,333	25,655	185,798
2050	17,234	11,817	18,094	6,345	8,655	14,476	11,606	3,773	7,484	63,311	26,105	188,900
2051	17,516	12,042	18,394	6,372	8,796	14,723	11,843	3,838	7,590	64,254	26,543	191,911

Note: 10th percentile energy forecast is representative of weather conditions below expected in summer and above expected in winter.

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
2021	2,889	2,107	2,998	664	1,471	2,539	2,383	674	1,459	11,505	5,632	34,321
2022	2,835	2,083	2,961	725	1,457	2,521	2,340	673	1,456	11,577	5,530	34,158
2023	2,792	2,072	2,929	738	1,446	2,508	2,304	671	1,452	11,534	5,425	33,871
2024	2,771	2,052	2,914	738	1,438	2,485	2,269	667	1,442	11,510	5,296	33,582
2025	2,753	2,046	2,912	738	1,437	2,474	2,252	665	1,440	11,486	5,196	33,399
2026	2,735	2,034	2,908	736	1,434	2,467	2,233	664	1,437	11,488	5,110	33,246
2027	2,715	2,029	2,901	732	1,431	2,463	2,219	666	1,439	11,541	5,055	33,191
2028	2,698	2,020	2,889	731	1,427	2,460	2,209	669	1,444	11,613	5,035	33,195
2029	2,686	2,016	2,877	729	1,422	2,460	2,203	671	1,452	11,697	5,049	33,262
2030	2,679	2,010	2,864	729	1,419	2,465	2,204	675	1,459	11,777	5,092	33,373
2031	2,674	2,002	2,851	728	1,415	2,471	2,208	681	1,470	11,853	5,137	33,490
2032	2,672	1,996	2,836	728	1,412	2,479	2,209	685	1,480	11,924	5,200	33,621
2033	2,670	1,990	2,819	728	1,411	2,490	2,212	690	1,492	11,994	5,277	33,773
2034	2,672	1,985	2,808	728	1,409	2,501	2,217	694	1,500	12,058	5,347	33,919
2035	2,676	1,981	2,798	730	1,408	2,510	2,225	698	1,510	12,120	5,417	34,073
2036	2,682	1,980	2,792	730	1,409	2,521	2,233	703	1,518	12,179	5,484	34,231
2037	2,685	1,979	2,788	731	1,411	2,528	2,239	704	1,526	12,233	5,545	34,369
2038	2,689	1,978	2,786	731	1,412	2,534	2,250	708	1,532	12,285	5,604	34,509
2039	2,698	1,983	2,783	732	1,416	2,544	2,264	712	1,538	12,334	5,658	34,662
2040	2,706	1,989	2,785	733	1,421	2,555	2,280	713	1,544	12,380	5,708	34,814
2041	2,717	1,998	2,788	736	1,428	2,569	2,301	716	1,548	12,423	5,753	34,977
2042	2,731	2,010	2,792	737	1,434	2,585	2,325	717	1,552	12,463	5,789	35,135
2043	2,747	2,026	2,798	738	1,444	2,600	2,349	721	1,555	12,500	5,826	35,304
2044	2,763	2,043	2,806	740	1,454	2,617	2,371	721	1,558	12,534	5,860	35,467
2045	2,781	2,060	2,821	741	1,465	2,634	2,396	722	1,563	12,565	5,893	35,641
2046	2,800	2,076	2,837	742	1,473	2,654	2,417	725	1,565	12,594	5,922	35,805
2047	2,814	2,090	2,852	744	1,481	2,668	2,435	725	1,567	12,619	5,939	35,934
2048	2,826	2,100	2,865	746	1,489	2,678	2,452	727	1,568	12,643	5,952	36,046
2049	2,838	2,110	2,876	747	1,494	2,689	2,466	727	1,569	12,666	5,955	36,137
2050	2,850	2,122	2,889	748	1,500	2,701	2,481	728	1,570	12,690	5,960	36,239
2051	2,863	2,132	2,901	749	1,508	2,708	2,497	728	1,571	12,712	5,965	36,334

Note: 90th percentile summer peak demand forecast is representative of above expected weather conditions.

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
2021	2,496	1,820	2,590	573	1,271	2,153	2,021	565	1,224	9,965	4,665	29,343
2022	2,449	1,800	2,559	626	1,259	2,138	1,985	564	1,222	10,027	4,581	29,210
2023	2,412	1,790	2,531	637	1,250	2,127	1,954	563	1,218	9,990	4,494	28,966
2024	2,394	1,773	2,518	637	1,242	2,108	1,925	560	1,210	9,969	4,387	28,723
2025	2,379	1,767	2,516	637	1,241	2,099	1,910	558	1,209	9,948	4,304	28,568
2026	2,363	1,757	2,512	635	1,239	2,092	1,894	557	1,206	9,950	4,233	28,438
2027	2,345	1,753	2,507	633	1,237	2,088	1,882	559	1,208	9,996	4,187	28,395
2028	2,331	1,745	2,496	632	1,233	2,087	1,874	562	1,212	10,059	4,170	28,401
2029	2,320	1,742	2,485	630	1,228	2,087	1,868	563	1,218	10,132	4,182	28,455
2030	2,315	1,737	2,474	630	1,226	2,090	1,869	566	1,224	10,200	4,218	28,549
2031	2,310	1,729	2,463	629	1,223	2,096	1,873	571	1,233	10,266	4,255	28,648
2032	2,308	1,725	2,450	629	1,220	2,102	1,874	575	1,242	10,328	4,308	28,761
2033	2,307	1,719	2,435	629	1,219	2,112	1,876	579	1,252	10,389	4,371	28,888
2034	2,308	1,715	2,426	629	1,217	2,121	1,880	582	1,259	10,444	4,429	29,010
2035	2,312	1,712	2,418	631	1,216	2,129	1,887	586	1,267	10,498	4,487	29,143
2036	2,317	1,711	2,412	631	1,217	2,138	1,894	590	1,274	10,548	4,542	29,274
2037	2,320	1,710	2,408	632	1,219	2,144	1,899	591	1,280	10,595	4,593	29,391
2038	2,323	1,709	2,407	632	1,220	2,150	1,908	595	1,286	10,640	4,642	29,512
2039	2,331	1,713	2,405	633	1,224	2,158	1,920	597	1,291	10,683	4,687	29,642
2040	2,338	1,718	2,406	634	1,227	2,167	1,934	598	1,295	10,722	4,728	29,767
2041	2,347	1,726	2,408	635	1,234	2,179	1,952	601	1,299	10,760	4,765	29,906
2042	2,359	1,737	2,412	636	1,239	2,192	1,972	602	1,302	10,795	4,796	30,042
2043	2,373	1,751	2,418	637	1,248	2,205	1,992	605	1,305	10,827	4,826	30,187
2044	2,387	1,765	2,424	639	1,256	2,220	2,011	605	1,308	10,856	4,854	30,325
2045	2,403	1,779	2,437	640	1,265	2,234	2,032	606	1,311	10,883	4,881	30,471
2046	2,419	1,793	2,451	641	1,273	2,251	2,050	609	1,313	10,908	4,905	30,613
2047	2,431	1,805	2,464	643	1,279	2,262	2,065	609	1,315	10,930	4,920	30,723
2048	2,442	1,815	2,475	645	1,287	2,272	2,079	610	1,316	10,951	4,930	30,822
2049	2,452	1,823	2,484	646	1,290	2,281	2,091	610	1,317	10,970	4,933	30,897
2050	2,462	1,833	2,496	647	1,296	2,291	2,104	611	1,317	10,991	4,937	30,985
2051	2,473	1,842	2,507	648	1,302	2,297	2,118	611	1,318	11,010	4,941	31,067

Note: 10th percentile summer peak demand forecast is representative of below expected weather conditions.

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
2021-22	2,276	1,607	2,710	864	1,387	2,070	1,659	509	888	7,821	3,398	25,189
2022-23	2,271	1,603	2,707	873	1,385	2,066	1,646	509	891	7,903	3,376	25,230
2023-24	2,256	1,590	2,693	880	1,375	2,053	1,624	511	900	8,021	3,354	25,257
2024-25	2,235	1,571	2,669	887	1,364	2,035	1,604	511	907	8,122	3,329	25,234
2025-26	2,214	1,551	2,642	887	1,350	2,019	1,590	511	910	8,237	3,313	25,224
2026-27	2,205	1,536	2,625	887	1,342	2,011	1,586	512	917	8,390	3,311	25,322
2027-28	2,205	1,530	2,620	887	1,338	2,011	1,592	512	929	8,573	3,330	25,527
2028-29	2,210	1,528	2,623	887	1,338	2,017	1,605	517	947	8,726	3,364	25,762
2029-30	2,226	1,532	2,633	889	1,342	2,030	1,627	523	967	8,895	3,406	26,070
2030-31	2,249	1,541	2,654	891	1,351	2,051	1,656	530	988	9,076	3,472	26,459
2031-32	2,283	1,558	2,687	894	1,366	2,079	1,693	540	1,014	9,310	3,563	26,987
2032-33	2,320	1,579	2,726	897	1,382	2,110	1,730	552	1,045	9,580	3,666	27,587
2033-34	2,358	1,603	2,764	899	1,399	2,144	1,769	564	1,080	9,899	3,782	28,261
2034-35	2,400	1,629	2,804	903	1,415	2,180	1,810	577	1,115	10,219	3,907	28,959
2035-36	2,446	1,658	2,848	908	1,434	2,220	1,855	591	1,151	10,542	4,040	29,693
2036-37	2,498	1,692	2,901	913	1,459	2,265	1,905	605	1,190	10,896	4,177	30,501
2037-38	2,556	1,730	2,958	917	1,484	2,314	1,958	622	1,232	11,275	4,323	31,369
2038-39	2,617	1,771	3,021	924	1,513	2,368	2,014	639	1,276	11,675	4,470	32,288
2039-40	2,686	1,816	3,089	929	1,543	2,428	2,076	658	1,318	12,054	4,621	33,218
2040-41	2,762	1,870	3,169	935	1,578	2,493	2,142	676	1,362	12,451	4,771	34,209
2041-42	2,822	1,918	3,228	939	1,607	2,547	2,206	692	1,401	12,794	4,925	35,079
2042-43	2,895	1,974	3,303	947	1,642	2,614	2,274	708	1,444	13,153	5,078	36,032
2043-44	2,975	2,034	3,384	953	1,682	2,687	2,347	726	1,483	13,489	5,225	36,985
2044-45	3,063	2,101	3,476	962	1,725	2,767	2,424	745	1,521	13,796	5,368	37,948
2045-46	3,157	2,174	3,576	970	1,773	2,856	2,507	764	1,553	14,081	5,506	38,917
2046-47	3,260	2,256	3,683	979	1,824	2,949	2,591	783	1,585	14,342	5,642	39,894
2047-48	3,367	2,341	3,793	988	1,877	3,048	2,680	803	1,612	14,574	5,770	40,853
2048-49	3,482	2,430	3,910	998	1,934	3,151	2,769	823	1,637	14,775	5,892	41,801
2049-50	3,596	2,519	4,029	1,007	1,991	3,257	2,860	840	1,659	14,944	6,002	42,704
2050-51	3,713	2,613	4,150	1,016	2,048	3,364	2,952	859	1,674	15,068	6,103	43,560
2051-52	3,829	2,704	4,268	1,022	2,105	3,471	3,042	875	1,687	15,155	6,198	44,356

Note: 90th percentile winter peak demand forecast is representative of below expected weather conditions.

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
2021-22	2,044	1,443	2,435	776	1,246	1,863	1,493	475	828	7,297	3,132	23,032
2022-23	2,040	1,440	2,432	784	1,244	1,859	1,481	475	831	7,374	3,111	23,071
2023-24	2,027	1,428	2,419	791	1,235	1,847	1,461	477	840	7,484	3,091	23,100
2024-25	2,008	1,411	2,397	796	1,225	1,831	1,443	477	846	7,578	3,068	23,080
2025-26	1,989	1,393	2,373	796	1,213	1,817	1,431	477	849	7,685	3,054	23,077
2026-27	1,980	1,380	2,358	796	1,206	1,809	1,427	478	856	7,827	3,052	23,169
2027-28	1,980	1,374	2,354	796	1,202	1,809	1,433	478	867	7,999	3,069	23,361
2028-29	1,985	1,372	2,356	796	1,202	1,815	1,444	482	884	8,141	3,101	23,578
2029-30	1,999	1,376	2,365	798	1,206	1,826	1,464	488	902	8,299	3,139	23,862
2030-31	2,020	1,385	2,384	800	1,213	1,845	1,490	495	921	8,468	3,200	24,221
2031-32	2,051	1,400	2,414	803	1,227	1,870	1,523	504	946	8,686	3,284	24,708
2032-33	2,084	1,419	2,449	806	1,241	1,899	1,556	515	975	8,938	3,379	25,261
2033-34	2,118	1,440	2,483	808	1,256	1,929	1,591	526	1,007	9,236	3,486	25,880
2034-35	2,156	1,463	2,519	812	1,271	1,962	1,629	538	1,040	9,535	3,601	26,526
2035-36	2,197	1,489	2,558	815	1,289	1,998	1,669	552	1,074	9,836	3,723	27,200
2036-37	2,244	1,519	2,606	820	1,310	2,038	1,714	564	1,110	10,166	3,849	27,940
2037-38	2,296	1,554	2,657	824	1,333	2,082	1,762	581	1,150	10,520	3,984	28,743
2038-39	2,351	1,591	2,714	830	1,359	2,131	1,812	596	1,190	10,892	4,120	29,586
2039-40	2,413	1,632	2,775	834	1,386	2,184	1,867	614	1,230	11,247	4,259	30,441
2040-41	2,481	1,680	2,847	840	1,418	2,243	1,927	631	1,271	11,616	4,397	31,351
2041-42	2,535	1,723	2,899	844	1,443	2,292	1,984	646	1,307	11,937	4,539	32,149
2042-43	2,601	1,773	2,967	850	1,475	2,352	2,046	661	1,347	12,272	4,681	33,025
2043-44	2,672	1,827	3,040	856	1,511	2,417	2,112	677	1,384	12,585	4,815	33,896
2044-45	2,751	1,887	3,123	864	1,550	2,489	2,181	695	1,419	12,872	4,947	34,778
2045-46	2,836	1,953	3,212	871	1,593	2,569	2,255	713	1,449	13,138	5,074	35,663
2046-47	2,929	2,027	3,308	879	1,638	2,653	2,332	731	1,479	13,381	5,200	36,557
2047-48	3,025	2,103	3,407	888	1,686	2,742	2,411	749	1,504	13,597	5,318	37,430
2048-49	3,127	2,183	3,512	896	1,737	2,835	2,491	767	1,527	13,785	5,430	38,290
2049-50	3,230	2,263	3,620	905	1,788	2,930	2,573	784	1,547	13,943	5,532	39,115
2050-51	3,335	2,347	3,728	912	1,840	3,027	2,656	801	1,562	14,058	5,625	39,891
2051-52	3,439	2,429	3,833	918	1,891	3,123	2,737	817	1,574	14,139	5,712	40,612

Note: 10th percentile winter peak demand forecast is representative of above expected weather conditions.

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

Forecast of Cumulative Reductions in Annual Energy by Zone Relative to 2020 - GWh

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2021	241	153	218	19	121	206	244	35	83	748	427	2,495
2022	490	319	452	40	247	416	487	74	172	1,547	852	5,096
2023	785	520	740	65	398	659	743	123	277	2,491	1,262	8,063
2024	1,099	746	1,062	93	562	913	992	180	390	3,505	1,668	11,210
2025	1,433	994	1,418	124	739	1,178	1,238	245	516	4,640	2,068	14,593
2026	1,763	1,238	1,769	154	913	1,439	1,479	309	641	5,759	2,470	17,934
2027	2,083	1,475	2,111	183	1,082	1,694	1,715	371	762	6,849	2,875	21,200
2028	2,387	1,700	2,434	211	1,242	1,934	1,936	430	876	7,877	3,287	24,314
2029	2,660	1,902	2,725	236	1,387	2,151	2,137	483	980	8,806	3,711	27,178
2030	2,888	2,071	2,968	257	1,507	2,332	2,303	528	1,066	9,580	4,159	29,659
2031	3,119	2,230	3,207	278	1,628	2,517	2,454	573	1,163	10,459	4,517	32,145
2032	3,342	2,385	3,439	298	1,745	2,697	2,599	617	1,258	11,308	4,868	34,556
2033	3,551	2,529	3,655	317	1,854	2,864	2,736	658	1,346	12,097	5,208	36,815
2034	3,741	2,661	3,853	334	1,954	3,017	2,858	696	1,428	12,836	5,506	38,884
2035	3,916	2,781	4,033	350	2,045	3,157	2,971	730	1,502	13,502	5,786	40,773
2036	4,070	2,886	4,194	364	2,126	3,281	3,065	761	1,570	14,116	6,045	42,478
2037	4,214	2,982	4,343	376	2,201	3,397	3,158	789	1,630	14,650	6,264	44,004
2038	4,338	3,067	4,473	388	2,266	3,497	3,237	814	1,685	15,146	6,466	45,377
2039	4,450	3,142	4,590	398	2,325	3,586	3,305	837	1,735	15,594	6,661	46,623
2040	4,549	3,209	4,692	407	2,376	3,665	3,365	858	1,783	16,025	6,839	47,768
2041	4,637	3,267	4,784	415	2,422	3,736	3,418	876	1,823	16,391	7,005	48,774
2042	4,713	3,317	4,863	421	2,462	3,797	3,465	892	1,859	16,713	7,142	49,644
2043	4,772	3,356	4,925	427	2,493	3,844	3,500	905	1,890	16,988	7,263	50,363
2044	4,820	3,386	4,975	431	2,518	3,882	3,523	916	1,917	17,233	7,365	50,966
2045	4,863	3,412	5,020	435	2,541	3,917	3,549	925	1,937	17,416	7,453	51,468
2046	4,896	3,433	5,055	438	2,558	3,943	3,567	932	1,956	17,584	7,533	51,895
2047	4,926	3,450	5,086	441	2,574	3,967	3,584	939	1,970	17,710	7,594	52,241
2048	4,944	3,460	5,106	442	2,584	3,981	3,593	944	1,983	17,830	7,645	52,512
2049	4,956	3,468	5,119	444	2,590	3,991	3,599	947	1,993	17,916	7,679	52,702
2050	4,966	3,472	5,130	444	2,596	3,999	3,603	950	2,000	17,982	7,709	52,851
2051	4,976	3,476	5,141	444	2,602	4,007	3,607	953	2,007	18,048	7,739	53,000

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

Reductions in Summer Coincident Peak Demand by Zone Relative to 2020 - MW

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2021	32	24	34	3	17	25	35	7	17	149	80	423
2022	65	50	70	6	34	51	69	15	34	307	159	860
2023	104	80	117	10	56	80	107	25	55	494	236	1,364
2024	147	116	169	14	80	112	142	37	77	696	312	1,902
2025	194	155	229	20	106	145	177	50	103	922	387	2,488
2026	239	193	287	24	132	177	211	63	127	1,144	462	3,059
2027	283	231	344	29	157	208	244	76	151	1,359	538	3,620
2028	326	267	398	34	181	238	276	88	174	1,564	615	4,161
2029	363	298	447	38	203	265	304	98	194	1,748	694	4,652
2030	395	325	487	41	220	288	327	107	212	1,902	778	5,082
2031	427	349	526	45	238	311	348	117	231	2,077	845	5,514
2032	457	374	565	48	255	333	369	126	250	2,245	911	5,933
2033	486	396	601	51	271	353	389	134	267	2,402	975	6,325
2034	512	417	633	54	286	372	405	142	284	2,549	1,030	6,684
2035	536	436	663	56	299	390	421	149	298	2,681	1,083	7,012
2036	557	452	689	58	311	405	435	155	312	2,802	1,131	7,307
2037	577	467	714	60	322	419	448	161	323	2,908	1,172	7,571
2038	594	481	735	62	332	432	459	166	334	3,007	1,210	7,812
2039	610	492	755	64	341	443	468	170	344	3,096	1,247	8,030
2040	623	503	771	65	348	452	477	175	354	3,181	1,280	8,229
2041	635	511	787	67	355	461	484	178	362	3,254	1,311	8,405
2042	646	520	800	68	361	469	490	181	369	3,318	1,337	8,559
2043	654	526	810	69	365	475	496	184	375	3,372	1,359	8,685
2044	660	531	818	69	369	479	499	186	381	3,421	1,378	8,791
2045	666	534	826	70	372	484	503	188	385	3,458	1,395	8,881
2046	671	538	832	70	375	487	506	190	388	3,491	1,410	8,958
2047	675	541	837	71	377	490	508	191	391	3,516	1,421	9,018
2048	677	542	840	71	379	492	510	192	394	3,540	1,431	9,068
2049	679	543	842	71	380	493	510	193	396	3,557	1,437	9,101
2050	681	543	844	71	381	494	511	193	397	3,570	1,443	9,128
2051	683	543	846	71	382	495	512	193	398	3,583	1,449	9,155

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

Reductions in Winter Coincident Peak Demand by Zone Relative to 2020-21 - MW

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2021-22	34	22	31	3	17	29	35	5	13	113	63	365
2022-23	70	45	64	6	35	59	69	11	26	233	126	744
2023-24	111	74	105	9	57	94	105	18	42	375	187	1,177
2024-25	156	106	151	13	80	130	140	26	59	529	248	1,638
2025-26	203	141	201	18	105	167	176	36	78	700	307	2,132
2026-27	250	175	251	22	130	204	210	45	97	868	367	2,619
2027-28	296	209	299	26	154	240	243	54	115	1,033	427	3,096
2028-29	339	241	346	30	176	275	274	63	132	1,188	488	3,552
2029-30	377	270	387	34	197	305	303	70	148	1,328	551	3,970
2030-31	410	294	421	37	214	331	326	77	161	1,444	617	4,332
2031-32	443	316	455	39	231	357	347	84	175	1,577	671	4,695
2032-33	474	338	488	42	248	383	368	90	190	1,705	723	5,049
2033-34	504	359	519	45	263	407	388	96	203	1,824	773	5,381
2034-35	531	378	547	47	277	428	404	101	215	1,935	817	5,680
2035-36	556	395	572	50	290	448	420	106	226	2,035	859	5,957
2036-37	578	409	595	52	302	466	433	111	237	2,128	897	6,208
2037-38	598	424	616	53	312	482	448	115	246	2,209	930	6,433
2038-39	616	435	635	55	322	496	459	119	254	2,283	960	6,634
2039-40	632	446	651	56	330	509	468	122	261	2,351	989	6,815
2040-41	646	455	666	58	337	520	477	125	269	2,416	1,015	6,984
2041-42	658	464	679	59	344	530	484	128	275	2,470	1,040	7,131
2042-43	669	471	690	60	349	539	490	130	280	2,520	1,060	7,258
2043-44	677	476	699	61	354	546	495	132	285	2,561	1,078	7,364
2044-45	684	481	706	61	357	551	499	134	289	2,598	1,093	7,453
2045-46	690	484	712	62	361	556	503	135	292	2,625	1,106	7,526
2046-47	695	488	717	62	363	560	505	136	295	2,651	1,118	7,590
2047-48	699	489	722	63	365	563	508	137	297	2,669	1,127	7,639
2048-49	702	491	725	63	367	565	509	138	299	2,688	1,135	7,682
2049-50	703	492	727	63	368	566	509	138	300	2,700	1,140	7,706
2050-51	705	492	728	63	368	567	510	139	302	2,711	1,144	7,729
2051-52	707	492	729	63	368	568	511	140	304	2,722	1,148	7,752

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
2011	5	2	4	1	3	10	9	1	3	7	39	84
2012	9	3	7	1	5	17	14	2	4	16	50	128
2013	15	4	14	1	7	35	25	3	7	24	68	203
2014	19	10	24	2	13	58	44	7	13	42	125	357
2015	29	20	40	2	26	85	81	11	21	64	236	615
2016	43	28	59	3	36	135	120	16	28	93	353	914
2017	63	47	90	4	62	179	152	23	34	135	421	1,210
2018	86	76	118	7	99	267	192	27	42	181	468	1,563
2019	133	119	177	20	142	344	262	34	50	225	610	2,116
2020	177	152	247	32	206	411	311	38	56	263	652	2,545
2021	252	206	360	52	316	528	392	46	64	316	732	3,264
2022	341	259	496	77	450	645	476	54	71	375	777	4,021
2023	437	302	641	105	595	743	555	60	76	438	784	4,736
2024	514	359	757	125	707	863	638	67	84	491	864	5,469
2025	558	391	825	137	774	932	685	71	88	518	904	5,883
2026	593	417	879	146	826	988	723	75	92	542	940	6,221
2027	625	440	926	154	871	1,038	758	79	95	566	977	6,529
2028	653	460	968	161	911	1,083	790	82	99	588	1,014	6,809
2029	677	477	1,005	167	946	1,123	819	85	103	608	1,047	7,057
2030	700	493	1,037	172	977	1,159	845	87	105	627	1,079	7,281
2031	719	507	1,067	177	1,005	1,191	868	90	109	644	1,108	7,485
2032	737	519	1,093	182	1,029	1,220	889	91	111	659	1,135	7,665
2033	752	530	1,116	186	1,051	1,246	908	93	113	673	1,158	7,826
2034	767	540	1,137	189	1,072	1,270	925	95	115	686	1,179	7,975
2035	779	550	1,157	192	1,090	1,291	940	96	117	697	1,200	8,109
2036	788	556	1,171	194	1,102	1,307	952	98	119	706	1,214	8,207
2037	796	561	1,181	197	1,113	1,319	961	99	120	712	1,224	8,283
2038	801	565	1,190	198	1,120	1,328	967	100	121	717	1,233	8,340
2039	805	568	1,195	199	1,126	1,334	972	100	121	721	1,240	8,381
2040	809	570	1,200	200	1,130	1,339	976	100	122	724	1,244	8,414
2041	811	571	1,203	200	1,133	1,343	978	101	122	726	1,247	8,435
2042	812	572	1,205	201	1,135	1,346	981	101	122	727	1,250	8,452
2043	814	573	1,207	201	1,137	1,348	982	101	122	728	1,252	8,465
2044	815	574	1,209	201	1,138	1,350	984	101	122	729	1,254	8,477
2045	816	574	1,210	201	1,139	1,351	984	101	122	730	1,255	8,483
2046	816	575	1,211	202	1,140	1,352	985	101	123	730	1,255	8,490
2047	816	575	1,212	202	1,141	1,353	985	101	123	730	1,256	8,494
2048	817	576	1,212	202	1,141	1,353	985	101	123	731	1,257	8,498
2049	817	576	1,212	202	1,141	1,354	986	101	123	731	1,257	8,500
2050	817	576	1,213	202	1,141	1,354	986	101	123	731	1,257	8,501
2051	817	576	1,213	202	1,142	1,354	986	101	123	731	1,257	8,502

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
2021	263	215	371	58	384	571	446	56	75	338	768	3,545
2022	357	271	511	86	546	698	543	66	83	400	816	4,377
2023	457	317	663	117	724	804	633	73	89	468	824	5,169
2024	539	378	783	139	860	935	729	82	99	525	909	5,978
2025	586	412	854	152	943	1,011	783	87	104	555	952	6,439
2026	623	439	911	163	1,008	1,073	828	92	108	581	991	6,817
2027	657	464	960	172	1,063	1,129	869	96	112	608	1,032	7,162
2028	687	485	1,004	180	1,114	1,179	906	100	117	632	1,072	7,476
2029	714	504	1,045	186	1,158	1,224	941	104	122	654	1,108	7,760
2030	739	521	1,079	192	1,196	1,263	972	107	125	676	1,143	8,013
2031	759	536	1,111	198	1,232	1,300	999	110	129	695	1,174	8,243
2032	779	549	1,139	204	1,263	1,333	1,024	112	132	711	1,204	8,450
2033	795	562	1,164	208	1,291	1,363	1,047	115	134	727	1,231	8,637
2034	813	573	1,188	212	1,318	1,390	1,068	117	137	742	1,254	8,812
2035	826	585	1,210	216	1,342	1,415	1,086	118	139	755	1,277	8,969
2036	836	592	1,225	218	1,358	1,434	1,101	121	142	765	1,294	9,086
2037	845	598	1,237	222	1,372	1,448	1,112	122	144	772	1,306	9,178
2038	851	602	1,248	224	1,383	1,460	1,121	123	145	779	1,316	9,252
2039	856	606	1,254	225	1,392	1,468	1,127	123	145	783	1,325	9,304
2040	862	609	1,261	226	1,398	1,475	1,134	124	146	788	1,331	9,354
2041	865	610	1,266	227	1,403	1,481	1,137	126	146	791	1,335	9,387
2042	867	612	1,269	228	1,407	1,486	1,141	126	146	792	1,340	9,414
2043	870	614	1,272	228	1,411	1,489	1,144	126	146	795	1,344	9,439
2044	872	615	1,275	228	1,413	1,493	1,147	126	146	796	1,346	9,457
2045	874	616	1,277	229	1,416	1,496	1,149	126	146	799	1,349	9,477
2046	874	618	1,280	230	1,418	1,498	1,151	126	148	799	1,350	9,492
2047	875	618	1,283	230	1,421	1,501	1,152	126	149	799	1,353	9,507
2048	878	620	1,284	230	1,423	1,502	1,152	126	149	802	1,356	9,522
2049	879	620	1,285	231	1,425	1,505	1,155	126	149	802	1,356	9,533
2050	879	621	1,287	231	1,426	1,507	1,156	126	149	803	1,358	9,543
2051	880	621	1,289	231	1,428	1,508	1,157	126	149	804	1,359	9,552

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
2021	44	47	62	1	38	109	79	9	13	86	162	650
2022	54	57	78	2	49	127	91	10	14	98	169	749
2023	64	66	93	2	59	142	102	11	14	107	174	834
2024	72	72	105	3	67	153	109	12	14	113	175	895
2025	77	76	113	3	72	159	113	12	15	117	174	931
2026	80	79	117	3	74	163	115	12	15	118	175	951
2027	81	80	118	3	75	162	114	12	14	117	172	948
2028	80	80	117	3	74	160	113	12	14	115	168	936
2029	80	79	115	3	73	156	110	11	14	112	163	916
2030	78	77	112	3	72	151	106	11	13	108	158	889
2031	76	74	109	3	69	144	102	11	13	104	151	856
2032	74	72	104	3	66	137	97	10	12	99	143	817
2033	71	68	99	3	63	129	91	9	12	94	135	774
2034	68	64	94	3	60	120	85	9	11	88	126	728
2035	65	61	88	2	56	111	79	8	10	82	117	679
2036	61	57	83	2	53	103	73	8	9	77	108	634
2037	57	53	77	2	49	95	67	7	9	71	99	586
2038	53	49	72	2	46	88	62	6	8	65	91	542
2039	49	45	66	2	42	80	57	6	7	60	83	497
2040	46	41	61	2	39	73	52	6	7	55	75	457
2041	41	37	55	1	35	66	46	5	6	49	67	408
2042	38	33	50	1	32	58	41	4	5	44	58	364
2043	33	29	44	1	28	51	35	4	4	38	50	317
2044	29	25	39	1	24	43	30	3	4	33	42	273
2045	26	22	34	1	21	37	25	3	3	28	34	234
2046	22	19	29	1	18	31	21	2	3	23	28	197
2047	19	16	26	0	16	26	18	2	2	20	23	168
2048	17	14	23	0	14	22	16	2	2	17	19	146
2049	15	13	20	0	12	20	14	2	2	15	17	130
2050	13	12	18	0	11	18	12	1	2	13	15	115
2051	12	11	16	0	10	16	11	1	2	12	14	105

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
2021	206	166	249	23	227	351	313	36	50	223	569	2,413
2022	279	208	343	34	323	429	380	42	55	265	604	2,962
2023	358	243	443	46	428	494	443	47	59	309	609	3,479
2024	421	288	523	55	508	574	509	52	65	347	672	4,014
2025	457	314	570	60	556	620	546	55	68	366	703	4,315
2026	486	335	608	64	594	657	577	58	71	383	731	4,564
2027	512	354	640	68	626	691	604	61	74	400	759	4,789
2028	535	370	669	71	655	721	630	64	77	415	788	4,995
2029	555	383	695	73	680	747	653	66	80	429	814	5,175
2030	574	396	717	76	702	771	674	67	81	443	839	5,340
2031	589	407	738	78	722	792	692	70	84	455	861	5,488
2032	604	417	756	80	740	812	709	71	86	465	882	5,622
2033	616	426	771	82	755	829	724	72	87	475	900	5,737
2034	628	434	786	83	771	845	738	74	89	485	916	5,849
2035	638	442	800	84	783	859	750	74	91	492	933	5,946
2036	646	447	810	85	792	870	759	76	92	499	944	6,020
2037	652	451	816	87	800	878	766	77	93	503	951	6,074
2038	656	454	823	87	805	884	771	78	94	506	958	6,116
2039	660	456	826	88	809	888	775	78	94	509	964	6,147
2040	663	458	830	88	812	891	778	78	94	511	967	6,170
2041	664	459	832	88	814	894	780	78	94	513	969	6,185
2042	665	460	833	88	816	896	782	78	94	513	972	6,197
2043	667	460	834	88	817	897	783	78	94	514	973	6,205
2044	668	461	836	88	818	898	785	78	94	515	975	6,216
2045	669	461	836	88	819	899	785	78	94	516	975	6,220
2046	669	462	837	89	819	900	785	78	95	516	975	6,225
2047	669	462	838	89	820	900	785	78	95	516	976	6,228
2048	669	463	838	89	820	900	785	78	95	516	977	6,230
2049	669	463	838	89	820	901	786	78	95	516	977	6,232
2050	669	463	839	89	820	901	786	78	95	516	977	6,233
2051	669	463	839	89	821	901	786	78	95	516	977	6,234

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
2011	12	2	35	0	9	11	1	1	1	63	3	138
2012	16	2	36	0	9	11	1	1	1	65	3	145
2013	16	2	36	0	10	17	1	1	1	72	3	159
2014	16	2	42	0	10	17	1	1	1	73	3	166
2015	16	2	43	0	10	17	1	1	3	75	3	171
2016	16	2	45	0	10	20	1	1	3	79	5	182
2017	16	2	46	1	10	20	1	1	4	84	5	190
2018	17	2	47	1	11	22	1	1	4	102	5	213
2019	17	2	48	1	11	22	1	1	4	117	5	229
2020	17	2	49	1	11	22	1	1	5	134	5	248
2021	18	2	51	1	12	23	1	1	5	153	12	279
2022	19	2	53	1	13	24	1	1	5	172	20	311
2023	20	2	55	1	13	25	1	1	5	188	26	337
2024	21	2	57	1	13	26	1	1	5	202	31	360
2025	22	2	59	1	13	27	1	1	5	215	35	381
2026	22	2	60	1	13	28	1	1	5	227	38	398
2027	22	2	61	1	13	29	1	1	5	238	41	414
2028	22	2	62	1	13	30	1	1	5	248	44	429
2029	22	2	63	1	13	31	1	1	5	258	46	443
2030	22	2	64	1	13	32	1	1	5	267	48	456
2031	22	2	65	1	13	33	1	1	5	276	50	469
2032	22	2	66	1	13	34	1	1	5	284	52	481
2033	22	2	67	1	13	35	1	1	5	292	54	493
2034	22	2	68	1	13	35	1	1	5	300	55	503
2035	22	2	69	1	13	35	1	1	5	307	56	512
2036	22	2	70	1	13	35	1	1	5	314	57	521
2037	22	2	70	1	13	35	1	1	5	321	58	529
2038	22	2	70	1	13	35	1	1	5	327	59	536
2039	22	2	70	1	13	35	1	1	5	333	60	543
2040	22	2	70	1	13	35	1	1	5	339	61	550
2041	22	2	70	1	13	35	1	1	5	344	62	556
2042	22	2	70	1	13	35	1	1	5	349	62	561
2043	22	2	70	1	13	35	1	1	5	353	62	565
2044	22	2	70	1	13	35	1	1	5	357	62	569
2045	22	2	70	1	13	35	1	1	5	360	62	572
2046	22	2	70	1	13	35	1	1	5	363	62	575
2047	22	2	70	1	13	35	1	1	5	365	62	577
2048	22	2	70	1	13	35	1	1	5	367	62	579
2049	22	2	70	1	13	35	1	1	5	368	62	580
2050	22	2	70	1	13	35	1	1	5	369	62	581
2051	22	2	70	1	13	35	1	1	5	370	62	582

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, 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
2021	104	12	295	6	69	133	6	6	29	563	44	1,267
2022	110	12	306	6	75	139	6	6	29	633	74	1,396
2023	116	12	318	6	75	145	6	6	29	692	96	1,501
2024	121	12	330	6	75	150	6	6	29	743	114	1,592
2025	127	12	341	6	75	156	6	6	29	791	129	1,678
2026	127	12	347	6	75	162	6	6	29	835	140	1,745
2027	127	12	353	6	75	168	6	6	29	876	151	1,809
2028	127	12	358	6	75	173	6	6	29	912	162	1,866
2029	127	12	364	6	75	179	6	6	29	949	169	1,922
2030	127	12	370	6	75	185	6	6	29	982	177	1,975
2031	127	12	376	6	75	191	6	6	29	1,015	184	2,027
2032	127	12	382	6	75	197	6	6	29	1,045	191	2,076
2033	127	12	387	6	75	202	6	6	29	1,074	199	2,123
2034	127	12	393	6	75	202	6	6	29	1,104	202	2,162
2035	127	12	399	6	75	202	6	6	29	1,130	206	2,198
2036	127	12	405	6	75	202	6	6	29	1,155	210	2,233
2037	127	12	405	6	75	202	6	6	29	1,181	213	2,262
2038	127	12	405	6	75	202	6	6	29	1,203	217	2,288
2039	127	12	405	6	75	202	6	6	29	1,225	221	2,314
2040	127	12	405	6	75	202	6	6	29	1,247	224	2,339
2041	127	12	405	6	75	202	6	6	29	1,266	228	2,362
2042	127	12	405	6	75	202	6	6	29	1,284	228	2,380
2043	127	12	405	6	75	202	6	6	29	1,299	228	2,395
2044	127	12	405	6	75	202	6	6	29	1,313	228	2,409
2045	127	12	405	6	75	202	6	6	29	1,325	228	2,421
2046	127	12	405	6	75	202	6	6	29	1,336	228	2,432
2047	127	12	405	6	75	202	6	6	29	1,343	228	2,439
2048	127	12	405	6	75	202	6	6	29	1,350	228	2,446
2049	127	12	405	6	75	202	6	6	29	1,354	228	2,450
2050	127	12	405	6	75	202	6	6	29	1,358	228	2,454
2051	127	12	405	6	75	202	6	6	29	1,362	228	2,458

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
2021	16	2	44	1	10	20	1	1	4	115	9	223
2022	17	2	46	1	11	21	1	1	4	129	15	248
2023	17	2	48	1	11	22	1	1	4	141	20	268
2024	18	2	50	1	11	23	1	1	4	152	23	286
2025	19	2	51	1	11	23	1	1	4	161	26	300
2026	19	2	52	1	11	24	1	1	4	170	29	314
2027	19	2	53	1	11	25	1	1	4	179	31	327
2028	19	2	54	1	11	26	1	1	4	186	33	338
2029	19	2	55	1	11	27	1	1	4	194	35	350
2030	19	2	56	1	11	28	1	1	4	200	36	359
2031	19	2	57	1	11	29	1	1	4	207	38	370
2032	19	2	57	1	11	30	1	1	4	213	39	378
2033	19	2	58	1	11	30	1	1	4	219	41	387
2034	19	2	59	1	11	30	1	1	4	225	41	394
2035	19	2	60	1	11	30	1	1	4	230	42	401
2036	19	2	61	1	11	30	1	1	4	236	43	409
2037	19	2	61	1	11	30	1	1	4	241	44	415
2038	19	2	61	1	11	30	1	1	4	245	44	419
2039	19	2	61	1	11	30	1	1	4	250	45	425
2040	19	2	61	1	11	30	1	1	4	254	46	430
2041	19	2	61	1	11	30	1	1	4	258	47	435
2042	19	2	61	1	11	30	1	1	4	262	47	439
2043	19	2	61	1	11	30	1	1	4	265	47	442
2044	19	2	61	1	11	30	1	1	4	268	47	445
2045	19	2	61	1	11	30	1	1	4	270	47	447
2046	19	2	61	1	11	30	1	1	4	272	47	449
2047	19	2	61	1	11	30	1	1	4	274	47	451
2048	19	2	61	1	11	30	1	1	4	275	47	452
2049	19	2	61	1	11	30	1	1	4	276	47	453
2050	19	2	61	1	11	30	1	1	4	277	47	454
2051	19	2	61	1	11	30	1	1	4	278	47	455

Note: Peak reductions reflect estimated summer reductions for the year listed, along with reductions for the following winter.
For example, the values listed for 2021 reflect reductions to the 2021 summer peak and the 2021-22 winter peak.

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

Number of Electric Vehicles by Type - NYCA

Year	Passenger Vehicles	Trucks ⁽¹⁾	Buses ⁽²⁾	Total Stock
2021	113,500	500	100	114,100
2022	179,100	1,700	700	181,500
2023	263,900	2,500	1,500	267,900
2024	367,500	3,300	2,500	373,300
2025	495,900	4,900	3,800	504,600
2026	630,300	6,600	5,200	642,100
2027	794,300	8,900	6,800	810,000
2028	971,000	11,600	8,500	991,100
2029	1,165,100	14,800	10,200	1,190,100
2030	1,373,500	18,800	12,000	1,404,300
2031	1,604,200	22,900	13,900	1,641,000
2032	1,848,200	27,700	15,500	1,891,400
2033	2,108,000	33,200	17,200	2,158,400
2034	2,429,400	39,400	18,800	2,487,600
2035	2,682,800	46,400	20,500	2,749,700
2036	3,005,900	54,000	22,200	3,082,100
2037	3,289,900	62,300	23,800	3,376,000
2038	3,572,000	71,400	25,400	3,668,800
2039	3,854,600	81,200	26,900	3,962,700
2040	4,162,200	91,600	28,400	4,282,200
2041	4,400,200	102,700	29,800	4,532,700
2042	4,661,000	114,300	31,100	4,806,400
2043	4,911,200	126,500	32,500	5,070,200
2044	5,148,600	139,200	33,500	5,321,300
2045	5,373,200	152,400	34,700	5,560,300
2046	5,576,600	166,000	35,600	5,778,200
2047	5,763,900	180,000	36,500	5,980,400
2048	5,930,300	194,200	37,300	6,161,800
2049	6,073,900	208,800	37,900	6,320,600
2050	6,188,000	223,600	38,300	6,449,900
2051	6,289,800	238,500	38,700	6,567,000

(1) - Includes light, medium, and heavy duty trucks (pickup trucks, delivery, and utility trucks).

(2) - Includes school and transit buses.

Note: For reference, according to the New York State Department of Motor Vehicles, there are approximately 8,860,000 passenger vehicles, 980,000 trucks, 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
2021	26	19	32	2	14	27	35	7	11	66	132	371
2022	44	30	54	4	25	47	58	12	22	126	207	629
2023	68	45	83	6	38	72	86	18	32	185	304	937
2024	98	64	120	8	55	103	122	26	43	250	422	1,311
2025	135	86	166	11	76	142	165	35	58	340	569	1,783
2026	178	112	220	15	100	187	218	45	73	426	724	2,298
2027	227	141	282	19	128	239	278	58	92	536	906	2,906
2028	284	175	354	24	160	299	345	72	111	650	1,108	3,582
2029	347	212	433	29	196	364	419	87	132	774	1,328	4,321
2030	415	253	521	35	235	436	503	103	155	909	1,564	5,129
2031	491	298	618	41	278	515	593	121	179	1,050	1,823	6,007
2032	573	347	722	48	324	600	690	140	204	1,196	2,096	6,940
2033	661	398	835	56	374	692	795	161	231	1,355	2,387	7,945
2034	766	463	973	65	435	801	927	186	263	1,541	2,737	9,157
2035	856	512	1,087	73	486	896	1,028	208	292	1,711	3,020	10,169
2036	965	577	1,228	82	548	1,009	1,165	234	326	1,910	3,378	11,422
2037	1,069	636	1,362	91	607	1,117	1,288	258	357	2,093	3,698	12,576
2038	1,174	696	1,497	100	667	1,227	1,412	283	389	2,280	4,019	13,744
2039	1,282	757	1,637	110	729	1,339	1,543	308	421	2,467	4,339	14,932
2040	1,400	828	1,793	120	796	1,461	1,691	336	454	2,659	4,684	16,222
2041	1,498	877	1,919	129	852	1,563	1,790	360	486	2,845	4,965	17,284
2042	1,606	937	2,061	138	914	1,675	1,916	385	517	3,031	5,266	18,446
2043	1,713	996	2,202	148	976	1,787	2,039	411	549	3,215	5,557	19,593
2044	1,819	1,053	2,341	157	1,036	1,896	2,161	436	579	3,394	5,833	20,705
2045	1,922	1,109	2,479	166	1,096	2,003	2,276	461	610	3,573	6,093	21,788
2046	2,021	1,161	2,609	175	1,153	2,104	2,384	485	638	3,739	6,334	22,803
2047	2,116	1,212	2,737	184	1,208	2,203	2,492	508	666	3,899	6,554	23,779
2048	2,208	1,259	2,860	192	1,261	2,297	2,593	530	691	4,050	6,751	24,692
2049	2,294	1,303	2,976	200	1,311	2,386	2,688	550	715	4,188	6,920	25,531
2050	2,369	1,343	3,081	207	1,355	2,462	2,774	570	737	4,315	7,060	26,273
2051	2,442	1,377	3,165	213	1,395	2,541	2,866	583	752	4,407	7,166	26,907

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
2021	4	2	5	0	2	4	6	1	1	7	20	52
2022	4	3	5	0	2	5	6	1	1	9	24	60
2023	6	4	8	1	4	7	8	1	2	12	32	85
2024	9	6	11	1	5	10	12	2	3	17	45	121
2025	14	9	16	1	8	14	17	3	4	24	63	173
2026	19	12	23	2	10	20	24	4	5	32	85	236
2027	25	15	30	2	14	26	32	5	7	41	110	307
2028	32	19	39	3	18	33	42	7	9	52	138	392
2029	39	23	48	3	22	41	52	8	11	64	170	481
2030	47	28	58	4	27	50	64	10	13	76	204	581
2031	56	33	69	5	32	60	76	12	15	90	240	688
2032	66	38	80	5	37	69	89	14	18	104	278	798
2033	75	44	92	6	42	80	103	16	20	119	318	915
2034	85	50	105	7	48	90	118	18	23	134	358	1,036
2035	96	55	117	8	54	101	132	20	26	149	399	1,157
2036	106	61	130	9	60	112	148	22	28	165	441	1,282
2037	117	67	143	10	66	124	163	25	31	181	482	1,409
2038	128	73	156	10	72	135	178	27	34	196	523	1,532
2039	138	79	169	11	77	146	194	29	36	212	564	1,655
2040	149	84	182	12	83	157	209	31	39	227	603	1,776
2041	159	90	194	13	89	168	224	33	41	241	641	1,893
2042	169	95	207	14	95	178	239	35	44	255	676	2,007
2043	178	100	218	15	100	188	253	37	46	269	710	2,114
2044	187	105	229	15	105	198	267	39	48	281	741	2,215
2045	196	110	240	16	110	207	280	41	50	292	769	2,311
2046	204	114	249	17	114	215	292	42	52	303	794	2,396
2047	211	117	258	17	118	223	303	44	53	312	815	2,471
2048	217	120	266	18	122	230	314	45	55	320	831	2,538
2049	223	123	272	18	125	236	323	46	56	326	844	2,592
2050	228	125	278	18	127	241	331	47	56	331	851	2,633
2051	231	127	282	19	129	245	337	47	57	334	854	2,662

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
2021-22	5	4	7	0	3	6	8	1	1	9	27	71
2022-23	8	5	10	1	4	8	11	2	2	13	40	104
2023-24	12	8	15	1	7	13	16	3	3	19	60	157
2024-25	18	11	22	1	10	19	24	4	5	28	86	228
2025-26	25	16	31	2	14	26	34	5	7	38	118	316
2026-27	34	21	42	3	19	35	46	7	9	50	155	421
2027-28	44	27	54	4	24	46	60	9	11	64	197	540
2028-29	55	33	68	5	31	57	76	11	14	79	243	672
2029-30	67	40	83	6	37	70	93	14	16	96	292	814
2030-31	79	47	99	7	45	84	111	17	19	114	344	966
2031-32	93	55	116	8	52	98	131	19	23	132	399	1,126
2032-33	107	63	133	9	60	113	152	22	26	151	456	1,292
2033-34	122	72	152	10	69	128	173	25	29	171	514	1,465
2034-35	137	80	170	11	77	144	195	28	33	191	573	1,639
2035-36	153	89	190	13	86	161	218	32	36	211	632	1,821
2036-37	168	98	209	14	95	177	240	35	40	232	691	1,999
2037-38	184	106	228	15	103	193	263	38	43	252	750	2,175
2038-39	199	115	247	16	112	210	286	41	46	272	807	2,351
2039-40	214	123	266	18	121	226	308	44	50	292	863	2,525
2040-41	229	131	284	19	129	241	330	47	53	311	916	2,690
2041-42	244	139	303	20	137	257	352	50	56	330	969	2,857
2042-43	259	147	321	21	146	273	374	53	60	349	1,019	3,022
2043-44	274	155	339	23	154	288	394	56	63	368	1,066	3,180
2044-45	288	162	356	24	162	303	414	59	66	386	1,109	3,329
2045-46	302	169	373	25	170	318	433	61	69	403	1,147	3,470
2046-47	315	176	389	26	177	332	451	64	72	419	1,181	3,602
2047-48	327	181	403	27	184	345	467	66	74	434	1,209	3,717
2048-49	338	187	417	28	190	357	482	68	76	448	1,232	3,823
2049-50	349	191	429	29	196	368	495	70	79	460	1,248	3,914
2050-51	358	195	439	29	201	378	506	72	80	471	1,257	3,986
2051-52	366	198	448	30	205	386	516	73	82	479	1,266	4,049

Table I-12a: Energy Storage Nameplate Capacity
 Reflects Total Cumulative Nameplate Capacity – Including Wholesale and Behind-the-Meter

Nameplate Capacity by Zone - MW

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA		
												Total	Wholesale	BTM
2021	10	4	39	0	8	56	26	13	11	55	70	292	182	110
2022	24	6	55	0	10	68	230	29	18	97	128	665	527	138
2023	44	8	77	1	13	85	247	52	27	156	209	919	749	170
2024	68	12	104	2	16	104	268	80	38	227	306	1,225	1,017	208
2025	95	16	134	3	20	126	291	111	52	308	413	1,569	1,320	249
2026	124	21	167	4	25	149	317	144	67	396	529	1,943	1,648	295
2027	156	26	201	6	30	173	344	179	82	490	649	2,336	1,993	343
2028	189	32	236	8	36	197	371	214	98	587	771	2,739	2,348	391
2029	222	38	272	10	42	222	399	249	114	686	895	3,149	2,708	441
2030	256	44	308	12	48	247	427	284	130	788	1,019	3,563	3,071	492
2031	290	51	344	14	55	272	455	319	146	891	1,142	3,979	3,436	543
2032	324	58	380	16	62	296	483	353	162	994	1,262	4,390	3,798	592
2033	358	66	415	19	69	319	511	386	178	1,097	1,380	4,798	4,157	641
2034	391	74	450	22	76	342	538	418	194	1,198	1,495	5,198	4,510	688
2035	424	82	484	25	84	364	564	449	209	1,299	1,607	5,591	4,856	735
2036	457	90	518	28	92	386	590	480	224	1,399	1,717	5,981	5,199	782
2037	489	99	551	31	99	407	616	509	239	1,498	1,823	6,361	5,534	827
2038	521	108	584	34	106	428	641	538	254	1,596	1,926	6,736	5,864	872
2039	552	117	616	37	113	448	666	566	269	1,693	2,026	7,103	6,186	917
2040	583	126	647	40	120	468	690	593	283	1,789	2,123	7,462	6,501	961
2041	613	135	677	43	128	486	713	619	297	1,882	2,216	7,809	6,808	1,001
2042	643	144	706	46	136	504	736	644	310	1,974	2,306	8,149	7,109	1,040
2043	672	154	735	49	144	521	758	668	322	2,065	2,393	8,481	7,402	1,079
2044	701	164	763	53	152	538	780	691	334	2,154	2,477	8,807	7,689	1,118
2045	729	174	790	57	160	554	802	713	346	2,242	2,559	9,126	7,969	1,157
2046	757	184	817	61	168	570	822	734	358	2,328	2,637	9,436	8,243	1,193
2047	784	194	843	65	176	585	842	754	369	2,413	2,712	9,737	8,508	1,229
2048	811	204	869	69	184	600	862	774	380	2,496	2,785	10,034	8,769	1,265
2049	837	214	894	73	192	614	881	793	391	2,578	2,855	10,322	9,021	1,301
2050	863	224	918	77	200	627	900	811	402	2,659	2,923	10,604	9,268	1,336
2051	889	234	942	81	208	640	918	828	413	2,739	2,988	10,880	9,510	1,370

Note: Nameplate capacity values include both wholesale market and behind-the-meter storage.
 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
2021	2	1	7	0	1	10	4	2	2	9	12	50
2022	4	1	10	0	2	12	39	5	3	17	23	116
2023	8	1	14	0	2	15	42	9	5	27	36	159
2024	12	2	18	0	2	19	46	14	7	39	54	213
2025	16	3	23	1	4	22	49	20	9	54	72	273
2026	22	4	29	1	4	26	55	26	11	69	93	340
2027	27	4	35	1	5	30	59	31	15	86	114	407
2028	33	6	42	1	6	35	64	37	17	102	135	478
2029	39	7	48	2	7	39	69	43	20	120	156	550
2030	45	8	54	2	8	43	74	49	23	138	178	622
2031	50	9	60	2	10	47	78	56	25	156	200	693
2032	57	10	66	3	10	52	83	62	29	174	221	767
2033	62	12	73	3	12	56	88	68	31	193	242	840
2034	69	13	79	4	14	60	93	73	34	210	262	911
2035	74	14	85	4	15	64	98	78	37	228	281	978
2036	80	16	91	5	17	68	102	84	39	245	301	1,048
2037	86	17	97	5	17	71	106	90	42	262	319	1,112
2038	91	19	102	6	18	75	111	94	45	280	338	1,179
2039	97	21	108	6	20	78	115	99	47	296	355	1,242
2040	102	22	113	7	21	82	120	104	49	313	372	1,305
2041	108	23	119	8	22	85	124	108	52	330	389	1,368
2042	112	26	124	8	24	88	127	113	54	346	404	1,426
2043	118	27	129	9	25	91	131	117	56	362	419	1,484
2044	123	28	134	9	26	94	136	121	58	377	434	1,540
2045	128	31	139	10	28	98	139	125	60	393	449	1,600
2046	132	32	143	11	29	100	143	128	63	408	462	1,651
2047	138	34	148	11	30	103	146	132	65	422	475	1,704
2048	142	36	152	12	32	105	150	136	67	437	488	1,757
2049	147	37	156	13	33	107	152	139	68	452	500	1,804
2050	151	40	161	13	35	110	156	142	70	466	512	1,856
2051	156	41	165	14	37	112	160	145	72	479	524	1,905

Note: Net energy consumption values include both wholesale and behind-the-meter Storage.

Note: Values listed reflect net energy consumption due to charging cycle efficiency.

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

Reductions in Summer Coincident Peak Demand by Zone - MW

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2021	0	1	3	0	3	3	7	0	2	11	8	38
2022	1	2	4	0	4	4	8	0	3	13	10	49
2023	1	2	6	0	4	6	10	0	3	17	13	62
2024	2	3	7	0	5	8	12	1	4	20	16	78
2025	3	4	9	0	6	10	14	1	5	24	20	96
2026	4	5	11	0	7	12	17	2	5	29	23	115
2027	5	6	13	0	9	14	19	2	6	34	27	135
2028	6	6	15	0	10	16	22	2	7	40	31	155
2029	8	7	18	0	11	19	25	3	8	45	36	180
2030	9	8	20	0	13	22	28	3	9	51	41	204
2031	11	9	22	0	14	24	31	4	10	58	46	229
2032	12	10	25	0	16	27	34	4	11	64	50	253
2033	13	11	27	0	17	30	37	5	12	71	55	278
2034	15	12	30	0	19	32	40	5	13	77	60	303
2035	17	13	33	0	21	35	43	6	14	84	64	330
2036	18	15	35	0	22	38	45	6	15	90	69	353
2037	20	16	38	0	23	41	48	7	17	97	74	381
2038	21	17	41	0	25	43	51	7	18	104	79	406
2039	23	18	44	0	26	46	54	8	19	111	84	433
2040	25	19	47	0	27	49	57	9	20	119	89	461
2041	27	20	50	0	29	52	60	9	21	126	93	487
2042	29	22	52	0	30	55	63	10	22	133	98	514
2043	30	23	55	0	31	57	65	10	23	140	103	537
2044	32	24	58	0	33	60	68	11	24	147	108	565
2045	34	26	60	0	34	63	71	12	25	155	113	593
2046	36	27	63	0	36	66	74	12	25	162	117	618
2047	38	28	66	0	37	69	76	13	26	169	122	644
2048	40	30	69	0	39	72	79	14	27	177	127	674
2049	43	31	72	0	40	75	81	15	28	184	131	700
2050	45	33	75	0	42	77	84	15	29	192	136	728
2051	47	34	78	0	44	80	87	16	30	200	141	757

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

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

Reductions in Winter Coincident Peak Demand by Zone - MW

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2021-22	0	1	2	0	2	2	6	0	2	9	6	30
2022-23	1	2	3	0	3	3	6	0	2	10	8	38
2023-24	1	2	5	0	3	5	8	0	2	14	10	50
2024-25	2	2	6	0	4	6	10	1	3	16	13	63
2025-26	2	3	7	0	5	8	11	1	4	19	16	76
2026-27	3	4	9	0	6	10	14	2	4	23	18	93
2027-28	4	5	10	0	7	11	15	2	5	27	22	108
2028-29	5	5	12	0	8	13	18	2	6	32	25	126
2029-30	6	6	14	0	9	15	20	2	6	36	29	143
2030-31	7	6	16	0	10	18	22	2	7	41	33	162
2031-32	9	7	18	0	11	19	25	3	8	46	37	183
2032-33	10	8	20	0	13	22	27	3	9	51	40	203
2033-34	10	9	22	0	14	24	30	4	10	57	44	224
2034-35	12	10	24	0	15	26	32	4	10	62	48	243
2035-36	14	10	26	0	17	28	34	5	11	67	51	263
2036-37	14	12	28	0	18	30	36	5	12	72	55	282
2037-38	16	13	30	0	18	33	38	6	14	78	59	305
2038-39	17	14	33	0	20	34	41	6	14	83	63	325
2039-40	18	14	35	0	21	37	43	6	15	89	67	345
2040-41	20	15	38	0	22	39	46	7	16	95	71	369
2041-42	22	16	40	0	23	42	48	7	17	101	74	390
2042-43	23	18	42	0	24	44	50	8	18	106	78	411
2043-44	24	18	44	0	25	46	52	8	18	112	82	429
2044-45	26	19	46	0	26	48	54	9	19	118	86	451
2045-46	27	21	48	0	27	50	57	10	20	124	90	474
2046-47	29	22	50	0	29	53	59	10	20	130	94	496
2047-48	30	22	53	0	30	55	61	10	21	135	98	515
2048-49	32	24	55	0	31	58	63	11	22	142	102	540
2049-50	34	25	58	0	32	60	65	12	22	147	105	560
2050-51	36	26	60	0	34	62	67	12	23	154	109	583
2051-52	38	27	62	0	35	64	70	13	24	160	113	606

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

Table I-13a: Non-EV 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
2021	16	8	17	1	8	15	8	3	6	58	22	162
2022	34	19	34	3	16	31	17	8	16	142	46	366
2023	56	32	58	5	27	51	30	13	29	256	75	632
2024	83	48	85	8	40	75	50	21	50	450	107	1,017
2025	114	65	117	10	54	102	72	31	74	669	143	1,451
2026	169	95	170	15	80	153	111	42	98	885	207	2,025
2027	251	138	249	22	118	229	165	56	125	1,124	306	2,783
2028	362	193	354	31	170	332	244	73	152	1,368	445	3,724
2029	472	246	457	41	221	435	321	90	183	1,645	585	4,696
2030	580	299	557	49	271	537	400	107	212	1,907	727	5,646
2031	690	365	667	59	322	636	469	127	246	2,211	869	6,661
2032	806	436	785	70	378	741	554	152	297	2,667	1,013	7,899
2033	921	510	902	80	432	845	631	178	349	3,134	1,179	9,161
2034	1,031	581	1,014	90	484	944	705	203	402	3,611	1,342	10,407
2035	1,147	659	1,134	100	540	1,048	785	229	454	4,077	1,524	11,697
2036	1,270	743	1,260	112	598	1,158	871	259	520	4,675	1,725	13,191
2037	1,399	833	1,394	123	659	1,273	958	291	590	5,307	1,943	14,770
2038	1,533	929	1,534	136	723	1,393	1,050	325	663	5,964	2,185	16,435
2039	1,675	1,032	1,682	149	791	1,519	1,149	360	740	6,657	2,422	18,176
2040	1,818	1,136	1,833	162	860	1,646	1,249	397	819	7,363	2,700	19,983
2041	1,984	1,258	2,008	177	939	1,793	1,363	439	909	8,172	3,003	22,045
2042	2,162	1,391	2,197	194	1,024	1,952	1,488	483	1,002	9,006	3,339	24,238
2043	2,350	1,533	2,397	211	1,114	2,117	1,620	530	1,096	9,850	3,704	26,522
2044	2,542	1,678	2,603	229	1,207	2,286	1,755	577	1,189	10,687	4,084	28,837
2045	2,746	1,837	2,823	249	1,305	2,465	1,896	627	1,283	11,538	4,521	31,290
2046	2,958	1,998	3,052	269	1,407	2,652	2,050	679	1,381	12,412	4,982	33,840
2047	3,177	2,171	3,289	290	1,513	2,843	2,202	732	1,479	13,293	5,478	36,467
2048	3,399	2,348	3,533	311	1,621	3,037	2,359	786	1,576	14,171	5,985	39,126
2049	3,628	2,532	3,783	333	1,731	3,236	2,522	842	1,674	15,050	6,523	41,854
2050	3,852	2,716	4,030	354	1,840	3,430	2,683	896	1,769	15,902	7,074	44,546
2051	4,068	2,898	4,270	375	1,945	3,617	2,838	949	1,859	16,715	7,640	47,174

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

Table I-13b: Non-EV 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
2021	0	0	1	0	0	0	0	0	0	2	1	4
2022	1	1	1	0	1	1	1	0	0	4	1	11
2023	2	1	2	0	1	2	2	0	1	6	3	20
2024	3	1	3	0	1	2	2	1	1	10	4	28
2025	4	3	4	0	2	4	2	1	1	13	6	40
2026	5	4	5	0	2	4	4	1	2	18	7	52
2027	6	4	7	1	3	6	4	1	3	23	8	66
2028	8	5	8	1	4	7	6	2	3	27	11	82
2029	9	6	10	1	4	8	6	2	4	33	13	96
2030	11	7	11	1	5	10	7	2	4	40	16	114
2031	13	8	13	1	6	11	8	3	5	47	18	133
2032	15	9	15	1	7	13	9	3	6	55	21	154
2033	17	12	18	2	8	15	11	4	7	63	25	182
2034	20	13	21	2	9	18	13	4	8	75	30	213
2035	23	14	24	2	11	20	14	5	10	85	34	242
2036	26	17	27	2	12	23	17	6	11	96	40	277
2037	28	18	30	3	14	25	19	6	12	108	45	308
2038	31	21	33	3	15	28	21	7	13	120	51	343
2039	35	23	36	3	16	31	22	8	15	133	57	379
2040	38	24	39	3	18	33	25	8	16	145	63	412
2041	41	27	43	4	20	37	28	9	18	160	70	457
2042	45	29	47	4	21	40	31	10	19	174	77	497
2043	47	31	49	4	23	42	32	11	21	187	83	530
2044	50	33	52	5	24	45	35	11	22	199	89	565
2045	53	36	55	5	25	47	36	12	23	211	95	598
2046	55	37	58	5	26	49	37	13	25	221	101	627
2047	58	37	61	5	28	51	39	13	26	232	107	657
2048	60	40	63	6	29	53	41	14	27	241	111	685
2049	62	41	64	6	29	55	43	14	28	251	117	710
2050	63	42	66	6	30	56	44	15	29	260	121	732
2051	64	41	67	6	31	57	43	15	30	268	125	747

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

Table I-13c: Non-EV 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
2021-22	7	3	7	1	3	6	2	2	7	59	31	128
2022-23	15	6	15	1	7	13	7	5	16	146	52	283
2023-24	24	12	25	2	11	22	13	8	25	223	75	440
2024-25	35	17	37	3	17	32	20	12	35	315	103	626
2025-26	48	24	50	4	23	43	30	16	47	418	138	841
2026-27	68	35	71	6	33	61	48	22	58	522	182	1,106
2027-28	97	51	101	9	46	86	72	31	86	772	230	1,581
2028-29	129	70	135	12	62	115	105	42	113	1,020	287	2,090
2029-30	167	90	174	15	80	148	139	52	141	1,266	350	2,622
2030-31	202	109	210	19	96	180	173	63	168	1,508	423	3,151
2031-32	248	136	260	23	119	221	210	75	194	1,747	505	3,738
2032-33	298	164	312	27	142	265	247	91	236	2,119	597	4,498
2033-34	347	196	364	32	166	309	283	106	277	2,490	703	5,273
2034-35	394	225	413	36	188	351	318	121	318	2,858	823	6,045
2035-36	446	258	467	41	213	396	356	137	358	3,216	940	6,828
2036-37	502	295	527	46	240	447	394	153	397	3,565	1,067	7,633
2037-38	563	335	591	52	269	500	439	172	446	4,008	1,201	8,576
2038-39	626	376	658	58	300	557	484	191	493	4,432	1,347	9,522
2039-40	696	424	731	64	333	618	532	210	538	4,840	1,483	10,469
2040-41	769	472	808	71	368	683	585	229	581	5,226	1,627	11,419
2041-42	827	518	867	76	396	736	631	246	626	5,626	1,777	12,326
2042-43	896	569	940	82	431	801	687	264	671	6,010	1,923	13,274
2043-44	972	627	1,020	89	470	872	746	283	712	6,363	2,066	14,220
2044-45	1,054	689	1,107	97	512	949	807	302	749	6,677	2,200	15,143
2045-46	1,144	754	1,203	105	558	1,034	874	322	783	6,968	2,341	16,086
2046-47	1,240	832	1,304	113	607	1,123	948	341	815	7,236	2,474	17,033
2047-48	1,341	911	1,410	123	658	1,217	1,023	361	843	7,473	2,610	17,970
2048-49	1,445	992	1,519	132	710	1,314	1,096	380	868	7,681	2,736	18,873
2049-50	1,554	1,077	1,633	142	765	1,414	1,176	398	890	7,856	2,858	19,763
2050-51	1,661	1,165	1,745	151	818	1,514	1,257	416	906	7,985	2,972	20,590
2051-52	1,767	1,248	1,854	161	871	1,613	1,337	432	917	8,066	3,078	21,344

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	Low Load Scenario			Baseline Forecast			High Load Scenario			CLCPA Case		
	EV	Non-EV	Total	EV	Non-EV	Total	EV	Non-EV	Total	EV	Non-EV	Total
2021	359	149	508	371	162	533	394	580	974	612	5,022	5,634
2022	579	341	920	629	366	995	698	1,279	1,977	878	6,088	6,966
2023	827	586	1,413	937	632	1,569	1,069	2,069	3,138	1,176	7,094	8,270
2024	1,119	939	2,058	1,311	1,017	2,328	1,528	2,960	4,488	1,543	8,096	9,639
2025	1,494	1,344	2,838	1,783	1,451	3,234	2,108	3,953	6,061	1,922	10,402	12,324
2026	1,868	1,876	3,744	2,298	2,025	4,323	2,760	5,045	7,805	2,430	12,731	15,161
2027	2,312	2,576	4,888	2,906	2,783	5,689	3,532	6,230	9,762	3,111	15,131	18,242
2028	2,813	3,448	6,261	3,582	3,724	7,306	4,384	7,516	11,900	3,878	17,587	21,465
2029	3,362	4,345	7,707	4,321	4,696	9,017	5,315	8,902	14,217	4,674	20,076	24,750
2030	3,951	5,224	9,175	5,129	5,646	10,775	6,340	10,494	16,834	5,488	22,633	28,121
2031	4,605	6,148	10,753	6,007	6,661	12,668	7,439	11,778	19,217	6,373	25,237	31,610
2032	5,290	7,162	12,452	6,940	7,899	14,839	8,619	13,633	22,252	7,313	27,840	35,153
2033	6,026	8,205	14,231	7,945	9,161	17,106	9,890	15,997	25,887	8,230	30,469	38,699
2034	6,897	9,271	16,168	9,157	10,407	19,564	11,418	18,502	29,920	9,249	33,149	42,398
2035	7,641	10,375	18,016	10,169	11,697	21,866	12,723	20,958	33,681	10,322	48,675	58,997
2036	8,514	11,556	20,070	11,422	13,191	24,613	14,303	23,501	37,804	11,415	51,432	62,847
2037	9,369	12,788	22,157	12,576	14,770	27,346	15,743	26,041	41,784	12,577	54,217	66,794
2038	10,246	14,063	24,309	13,744	16,435	30,179	17,188	28,674	45,862	13,795	57,037	70,832
2039	11,139	15,383	26,522	14,932	18,176	33,108	18,659	31,258	49,917	15,048	59,872	74,920
2040	12,161	16,747	28,908	16,222	19,983	36,205	20,166	33,940	54,106	16,361	75,594	91,955
2041	12,984	18,195	31,179	17,284	22,045	39,329	21,517	36,604	58,121	17,442	78,463	95,905
2042	13,903	19,689	33,592	18,446	24,238	42,684	22,909	39,288	62,197	18,695	81,335	100,030
2043	14,827	21,230	36,057	19,593	26,522	46,115	24,266	41,814	66,080	19,991	84,210	104,201
2044	15,742	22,804	38,546	20,705	28,837	49,542	25,559	44,251	69,810	21,325	87,092	108,417
2045	16,709	24,432	41,141	21,788	31,290	53,078	26,777	46,548	73,325	22,703	89,978	112,681
2046	17,577	26,105	43,682	22,803	33,840	56,643	27,920	48,886	76,806	24,122	91,574	115,696
2047	18,453	27,817	46,270	23,779	36,467	60,246	28,978	51,253	80,231	25,580	93,174	118,754
2048	19,303	29,563	48,866	24,692	39,126	63,818	29,936	53,738	83,674	27,083	94,761	121,844
2049	20,125	31,354	51,479	25,531	41,854	67,385	30,771	56,148	86,919	28,624	96,344	124,968
2050	20,901	33,165	54,066	26,273	44,546	70,819	31,460	58,429	89,889	30,253	97,917	128,170
2051	21,634	35,001	56,635	26,907	47,174	74,081	31,998	60,494	92,492	---	---	---

Note: Electric Vehicle annual energy usage from Tables I-1b, I-11b, I-16a, I-17a, and I-18a. Includes passenger vehicles, trucks and buses.

Note: Non-EV electrification annual energy usage from Tables I-1b, I-13a, I-16a, I-17a, and I-18a.

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

Note: The 2019 NYISO *Climate Change Impact Study Phase I* forecast ends in 2050. The CLCPA case Non-EV electrification forecast counts cumulative impacts beginning in 2019. The other Non-EV electrification forecasts shown in this table count cumulative future impacts beginning in 2021.

Table I-14: Projection of SCR and EDRP Enrollment

Special Case Resources - MW

Zone	Summer	Winter
A	219	68
B	33	8
C	94	53
D	128	64
E	38	15
F	111	53
G	59	18
H	11	3
I	31	15
J	428	320
K	43	13
NYCA	1,195	630

Emergency Demand Response Program - MW

Zone	Summer	Winter
A	0	0
B	0	0
C	3	1
D	0	0
E	0	0
F	0	0
G	0	0
H	0	0
I	0	0
J	1	0
K	0	0
NYCA	4	1

Note: SCR and EDRP values are based on the projected enrollment for Summer 2021 and Winter 2021-22. Projected SCR enrollment is assumed to remain constant through the 2031-32 Capability Year in Table V-2.

Table I-15: 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

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

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).

Table I-16a: Summary of NYCA Low Load Scenario 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) (+) Non-EV Electrification	(i) = c-d-e+f+g+h Low Load Scenario Annual Energy Forecast
2021	156,960	2,521	154,439	3,578	1,267	68	359	149	150,170
2022	158,620	5,237	153,383	4,462	1,396	155	579	341	148,600
2023	159,794	8,428	151,366	5,323	1,501	235	827	586	146,190
2024	161,132	11,916	149,216	6,215	1,592	343	1,119	939	143,810
2025	162,811	15,775	147,036	6,759	1,678	443	1,494	1,344	141,880
2026	164,460	19,705	144,755	7,204	1,745	560	1,868	1,876	140,110
2027	166,145	23,670	142,475	7,618	1,809	684	2,312	2,576	138,620
2028	167,762	27,578	140,184	8,005	1,866	816	2,813	3,448	137,390
2029	169,335	31,304	138,031	8,364	1,922	948	3,362	4,345	136,400
2030	170,854	34,680	136,174	8,692	1,975	1,088	3,951	5,224	135,770
2031	171,946	37,431	134,515	9,000	2,027	1,229	4,605	6,148	135,470
2032	173,116	40,071	133,045	9,285	2,076	1,374	5,290	7,162	135,510
2033	174,101	42,512	131,589	9,552	2,123	1,525	6,026	8,205	135,670
2034	174,931	44,713	130,218	9,806	2,162	1,672	6,897	9,271	136,090
2035	175,765	46,686	129,079	10,043	2,198	1,816	7,641	10,375	136,670
2036	176,306	48,431	127,875	10,238	2,233	1,966	8,514	11,556	137,440
2037	176,685	49,956	126,729	10,405	2,262	2,111	9,369	12,788	138,330
2038	177,015	51,292	125,723	10,554	2,288	2,260	10,246	14,063	139,450
2039	177,286	52,473	124,813	10,678	2,314	2,407	11,139	15,383	140,750
2040	177,425	53,529	123,896	10,799	2,339	2,554	12,161	16,747	142,220
2041	177,628	54,415	123,213	10,914	2,362	2,694	12,984	18,195	143,810
2042	177,644	55,145	122,499	11,021	2,380	2,820	13,903	19,689	145,510
2043	177,449	55,694	121,755	11,124	2,395	2,937	14,827	21,230	147,230
2044	177,401	56,413	120,988	11,221	2,409	3,046	15,742	22,804	148,950
2045	177,243	57,170	120,073	11,320	2,421	3,147	16,709	24,432	150,620
2046	177,121	57,847	119,274	11,416	2,432	3,222	17,577	26,105	152,330
2047	176,905	58,437	118,468	11,508	2,439	3,299	18,453	27,817	154,090
2048	176,643	58,945	117,698	11,603	2,446	3,365	19,303	29,563	155,880
2049	176,277	59,366	116,911	11,692	2,450	3,412	20,125	31,354	157,660
2050	175,939	59,792	116,147	11,783	2,454	3,464	20,901	33,165	159,440
2051	175,624	60,221	115,403	11,868	2,458	3,498	21,634	35,001	161,210

(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 2020

(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: Non-EV Electrification Energy Usage - future end-use electrification including heat pumps, water heating, cooking, and other end-uses

(i) - Table I-2-L: Low Load Scenario Annual Energy Forecast

Low load scenario forecast tables: <https://www.nyiso.com/library>

Table I-16b: Summary of NYCA Low Load Scenario 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) (+) Non-EV Electrification	(i) = c-d-e-f+g+h Low Load Scenario Summer Peak Forecast
2021	33,314	426	32,888	656	223	52	51	4	32,012
2022	33,609	884	32,725	762	248	72	57	11	31,711
2023	33,866	1,426	32,440	857	268	101	75	19	31,308
2024	34,145	2,022	32,123	929	286	135	104	27	30,904
2025	34,538	2,689	31,849	975	300	165	145	38	30,592
2026	34,917	3,362	31,555	1,003	314	200	191	47	30,276
2027	35,349	4,042	31,307	1,007	327	246	240	60	30,027
2028	35,788	4,721	31,067	1,000	338	297	300	73	29,805
2029	36,231	5,358	30,873	985	350	363	360	85	29,620
2030	36,609	5,942	30,667	961	359	432	428	102	29,445
2031	36,940	6,422	30,518	933	370	506	500	119	29,328
2032	37,243	6,881	30,362	896	378	582	569	134	29,209
2033	37,521	7,305	30,216	854	387	669	643	154	29,103
2034	37,761	7,685	30,076	808	394	762	714	180	29,006
2035	37,977	8,030	29,947	759	401	862	790	202	28,917
2036	38,161	8,331	29,830	713	409	959	859	228	28,836
2037	38,325	8,595	29,730	662	415	1,075	932	249	28,759
2038	38,469	8,832	29,637	617	419	1,191	1,004	273	28,687
2039	38,605	9,038	29,567	569	425	1,319	1,073	297	28,624
2040	38,740	9,221	29,519	526	430	1,452	1,144	318	28,573
2041	38,852	9,377	29,475	474	435	1,586	1,206	346	28,532
2042	38,950	9,508	29,442	424	439	1,719	1,269	369	28,498
2043	39,015	9,605	29,410	374	442	1,841	1,328	387	28,468
2044	39,131	9,730	29,401	322	445	1,979	1,379	406	28,440
2045	39,263	9,866	29,397	279	447	2,115	1,434	423	28,413
2046	39,376	9,985	29,391	235	449	2,241	1,476	437	28,379
2047	39,482	10,087	29,395	202	451	2,363	1,515	450	28,344
2048	39,606	10,178	29,428	177	452	2,502	1,546	465	28,308
2049	39,706	10,252	29,454	158	453	2,623	1,573	477	28,270
2050	39,834	10,329	29,505	141	454	2,745	1,590	488	28,243
2051	39,968	10,404	29,564	129	455	2,866	1,603	498	28,215

- (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 2020
- (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 Summer 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: Non-EV Electrification Summer Coincident Peak Demand - future end-use electrification including heat pumps, water heating, cooking, and other end-uses
- (i) - Table I-3a-L: Low Load Scenario Summer Coincident Peak Demand Forecast

Low load scenario forecast tables: <https://www.nyiso.com/library>

Table I-16c: Summary of NYCA Low Load Scenario 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) (+) Non-EV Electrification	(i) = c-d-e-f+g+h Low Load Scenario Winter Peak Forecast
2021-22	24,358	366	23,992	0	223	41	70	114	23,912
2022-23	24,530	763	23,767	0	248	55	96	250	23,810
2023-24	24,763	1,231	23,532	0	268	80	136	392	23,712
2024-25	24,941	1,742	23,199	0	286	107	192	558	23,556
2025-26	25,154	2,305	22,849	0	300	132	263	749	23,429
2026-27	25,369	2,877	22,492	0	314	160	339	984	23,341
2027-28	25,444	3,459	21,985	0	327	199	423	1,409	23,291
2028-29	25,503	4,027	21,476	0	338	241	515	1,860	23,272
2029-30	25,558	4,576	20,982	0	350	289	612	2,334	23,289
2030-31	25,660	5,065	20,595	0	359	342	711	2,805	23,410
2031-32	25,712	5,467	20,245	0	370	403	816	3,315	23,603
2032-33	25,756	5,855	19,901	0	378	467	921	3,889	23,866
2033-34	25,790	6,213	19,577	0	387	539	1,028	4,479	24,158
2034-35	25,808	6,532	19,276	0	394	611	1,132	5,097	24,500
2035-36	25,814	6,822	18,992	0	401	689	1,240	5,723	24,865
2036-37	25,865	7,077	18,788	0	409	767	1,336	6,292	25,240
2037-38	25,815	7,302	18,513	0	415	860	1,437	6,952	25,627
2038-39	25,765	7,500	18,265	0	419	954	1,539	7,596	26,027
2039-40	25,735	7,671	18,064	0	425	1,050	1,633	8,231	26,453
2040-41	25,664	7,825	17,839	0	430	1,163	1,729	8,857	26,832
2041-42	25,653	7,956	17,697	0	435	1,268	1,820	9,365	27,179
2042-43	25,562	8,062	17,500	0	439	1,375	1,910	9,878	27,474
2043-44	25,474	8,144	17,330	0	442	1,474	1,993	10,378	27,785
2044-45	25,399	8,249	17,150	0	445	1,578	2,073	10,877	28,077
2045-46	25,325	8,358	16,967	0	447	1,689	2,154	11,367	28,352
2046-47	25,249	8,460	16,789	0	449	1,795	2,219	11,850	28,614
2047-48	25,156	8,544	16,612	0	451	1,890	2,277	12,326	28,874
2048-49	25,092	8,623	16,469	0	452	2,004	2,329	12,791	29,133
2049-50	24,998	8,681	16,317	0	453	2,097	2,374	13,249	29,390
2050-51	24,945	8,744	16,201	0	454	2,198	2,407	13,699	29,655
2051-52	24,901	8,807	16,094	0	455	2,295	2,440	14,141	29,925

- (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 2020-21
- (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-12d-L: Storage Impacts, Behind-the-Meter, Reductions in Winter 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: Non-EV Electrification Winter Coincident Peak Demand - future end-use electrification including heat pumps, water heating, cooking, and other end-uses
- (i) - Table I-3b-L: Low Load Scenario Winter Coincident Peak Demand Forecast

Low load scenario forecast tables: <https://www.nyiso.com/library>

Table I-17a: Summary of NYCA High Load Scenario 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) (+) Non-EV Electrification	(i) = c-d-e+f+g+h High Load Scenario Annual Energy Forecast
2021	158,773	2,389	156,384	3,511	1,267	40	394	580	152,620
2022	162,004	4,862	157,142	4,251	1,396	58	698	1,279	153,530
2023	164,828	7,661	157,167	5,020	1,501	86	1,069	2,069	153,870
2024	166,970	10,607	156,363	5,633	1,592	124	1,528	2,960	153,750
2025	169,077	13,748	155,329	6,068	1,678	166	2,108	3,953	153,810
2026	171,134	16,822	154,312	6,427	1,745	215	2,760	5,045	154,160
2027	173,176	19,794	153,382	6,682	1,809	267	3,532	6,230	154,920
2028	175,219	22,595	152,624	6,889	1,866	321	4,384	7,516	156,090
2029	177,225	25,137	152,088	7,063	1,922	380	5,315	8,902	157,700
2030	178,796	27,294	151,502	7,191	1,975	440	6,340	10,494	159,610
2031	180,702	29,206	151,496	7,288	2,027	492	7,439	11,778	161,890
2032	182,234	30,980	151,254	7,357	2,076	547	8,619	13,633	164,620
2033	183,518	32,543	150,975	7,421	2,123	602	9,890	15,997	167,920
2034	184,610	33,871	150,739	7,480	2,162	653	11,418	18,502	171,670
2035	185,905	34,971	150,934	7,531	2,198	704	12,723	20,958	175,590
2036	186,721	35,907	150,814	7,574	2,233	759	14,303	23,501	179,570
2037	187,573	36,699	150,874	7,611	2,262	805	15,743	26,041	183,590
2038	188,259	37,373	150,886	7,645	2,288	855	17,188	28,674	187,670
2039	188,940	37,952	150,988	7,672	2,314	901	18,659	31,258	191,820
2040	189,450	38,454	150,996	7,701	2,339	948	20,166	33,940	196,010
2041	190,033	38,892	151,141	7,725	2,362	995	21,517	36,604	200,170
2042	190,371	39,272	151,099	7,744	2,380	1,038	22,909	39,288	204,210
2043	190,708	39,591	151,117	7,765	2,395	1,083	24,266	41,814	208,120
2044	190,956	39,864	151,092	7,776	2,409	1,123	25,559	44,251	211,840
2045	191,261	40,099	151,162	7,795	2,421	1,169	26,777	46,548	215,440
2046	191,477	40,301	151,176	7,807	2,432	1,207	27,920	48,886	218,950
2047	191,695	40,473	151,222	7,818	2,439	1,244	28,978	51,253	222,440
2048	191,751	40,614	151,137	7,831	2,446	1,286	29,936	53,738	225,820
2049	191,785	40,727	151,058	7,840	2,450	1,323	30,771	56,148	229,010
2050	191,801	40,825	150,976	7,849	2,454	1,358	31,460	58,429	231,920
2051	191,984	40,916	151,068	7,857	2,458	1,395	31,998	60,494	234,640

- (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 2020
- (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: Non-EV Electrification Energy Usage - future end-use electrification including heat pumps, water heating, cooking, and other end-uses
- (i) - Table I-2-H: High Load Scenario Annual Energy Forecast

High load scenario forecast tables: <https://www.nyiso.com/library>

Table I-17b: Summary of NYCA High Load Scenario 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) (+) Non-EV Electrification	(i) = c-d-e-f+g+h High Load Scenario Summer Peak Forecast
2021	33,741	406	33,335	644	223	28	55	34	32,529
2022	34,236	822	33,414	727	248	34	65	64	32,534
2023	34,700	1,295	33,405	809	268	43	97	89	32,471
2024	35,085	1,797	33,288	844	286	53	141	109	32,355
2025	35,538	2,341	33,197	879	300	66	206	138	32,296
2026	35,994	2,869	33,125	895	314	79	285	165	32,287
2027	36,463	3,378	33,085	884	327	94	375	193	32,348
2028	36,959	3,865	33,094	863	338	111	483	219	32,484
2029	37,444	4,301	33,143	832	350	131	594	248	32,672
2030	37,901	4,674	33,227	796	359	153	720	277	32,916
2031	38,338	5,009	33,329	753	370	169	853	315	33,205
2032	38,767	5,316	33,451	710	378	188	993	366	33,534
2033	39,169	5,587	33,582	662	387	208	1,141	419	33,885
2034	39,533	5,818	33,715	616	394	226	1,293	484	34,256
2035	39,855	6,009	33,846	567	401	247	1,450	552	34,633
2036	40,143	6,170	33,973	526	409	261	1,606	622	35,005
2037	40,400	6,310	34,090	484	415	284	1,763	692	35,362
2038	40,628	6,428	34,200	446	419	303	1,914	760	35,706
2039	40,839	6,532	34,307	408	425	322	2,066	825	36,043
2040	41,045	6,616	34,429	375	430	344	2,206	890	36,376
2041	41,217	6,695	34,522	335	435	364	2,355	949	36,692
2042	41,385	6,764	34,621	298	439	382	2,490	1,002	36,994
2043	41,524	6,821	34,703	260	442	398	2,615	1,052	37,270
2044	41,673	6,869	34,804	224	445	422	2,731	1,088	37,532
2045	41,803	6,910	34,893	191	447	441	2,837	1,121	37,772
2046	41,930	6,948	34,982	162	449	461	2,931	1,147	37,988
2047	42,038	6,978	35,060	138	451	480	3,010	1,170	38,171
2048	42,131	7,006	35,125	121	452	502	3,075	1,189	38,314
2049	42,221	7,025	35,196	107	453	522	3,121	1,205	38,440
2050	42,319	7,042	35,277	95	454	543	3,148	1,221	38,554
2051	42,436	7,060	35,376	86	455	564	3,162	1,237	38,670

- (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 2020
- (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 Summer 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: Non-EV Electrification Summer Coincident Peak Demand - future end-use electrification including heat pumps, water heating, cooking, and other end-uses
- (i) - Table I-3a-H: High Load Scenario Summer Coincident Peak Demand Forecast

High load scenario forecast tables: <https://www.nyiso.com/library>

Table I-17c: Summary of NYCA High Load Scenario 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) (+) Non-EV Electrification	(i) = c-d-e-f+g+h High Load Scenario Winter Peak Forecast
2021-22	24,553	351	24,202	0	223	26	75	457	24,485
2022-23	24,887	710	24,177	0	248	25	115	987	25,006
2023-24	25,291	1,118	24,173	0	268	33	181	1,436	25,489
2024-25	25,552	1,550	24,002	0	286	43	269	1,817	25,759
2025-26	25,807	2,008	23,799	0	300	52	377	2,363	26,187
2026-27	26,041	2,457	23,584	0	314	65	509	2,921	26,635
2027-28	26,210	2,892	23,318	0	327	78	660	3,550	27,123
2028-29	26,309	3,302	23,007	0	338	91	826	4,264	27,668
2029-30	26,416	3,672	22,744	0	350	103	1,006	5,036	28,333
2030-31	26,557	3,987	22,570	0	359	119	1,199	5,882	29,173
2031-32	26,665	4,265	22,400	0	370	136	1,398	6,881	30,173
2032-33	26,757	4,527	22,230	0	378	151	1,610	8,036	31,347
2033-34	26,826	4,756	22,070	0	387	165	1,830	9,310	32,658
2034-35	26,884	4,948	21,936	0	394	180	2,047	10,708	34,117
2035-36	26,924	5,108	21,816	0	401	195	2,282	12,179	35,681
2036-37	26,959	5,246	21,713	0	409	210	2,506	13,659	37,259
2037-38	26,992	5,366	21,626	0	415	226	2,726	15,109	38,820
2038-39	26,972	5,463	21,509	0	419	242	2,942	16,542	40,332
2039-40	26,971	5,548	21,423	0	425	256	3,156	17,915	41,813
2040-41	26,978	5,619	21,359	0	430	274	3,345	19,195	43,195
2041-42	26,960	5,685	21,275	0	435	290	3,556	20,357	44,463
2042-43	26,912	5,742	21,170	0	439	305	3,754	21,402	45,582
2043-44	26,902	5,788	21,114	0	442	319	3,938	22,309	46,600
2044-45	26,864	5,828	21,036	0	445	335	4,109	23,139	47,504
2045-46	26,841	5,862	20,979	0	447	352	4,265	23,889	48,334
2046-47	26,802	5,893	20,909	0	449	369	4,408	24,591	49,090
2047-48	26,773	5,916	20,857	0	451	382	4,526	25,255	49,805
2048-49	26,736	5,940	20,796	0	452	402	4,631	25,898	50,471
2049-50	26,706	5,954	20,752	0	453	417	4,715	26,511	51,108
2050-51	26,693	5,968	20,725	0	454	434	4,770	27,124	51,731
2051-52	26,694	5,983	20,711	0	455	451	4,813	27,737	52,355

- (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 2020-21
- (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-12d-H: Storage Impacts, Behind-the-Meter, Reductions in Winter 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: Non-EV Electrification Winter Coincident Peak Demand - future end-use electrification including heat pumps, water heating, cooking, and other end-uses
- (i) - Table I-3b-H: High Load Scenario Winter Coincident Peak Demand Forecast

High load scenario forecast tables: <https://www.nyiso.com/library>

Table I-18a: Summary of NYCA CLCPA Case Annual Energy Forecasts – GWh

From NYISO *Climate Change Impact Study Phase I**

Year	(a) Baseline SAE Model	(b) (-) New Energy Efficiency, Codes & Standards	(c) (-) Solar PV, BTM	(d) (-) Other Distributed Energy Resources	(e) (+) Storage	(f) (+) Electric Vehicles	(g) (+) Electrification	(h) =a-b-c-d+e+f+g Final Forecast
2020	160,724	7,077	2,647	0	15	420	3,961	155,396
2021	160,908	11,271	3,077	0	28	612	5,022	152,222
2022	162,276	15,148	3,479	0	43	878	6,088	150,659
2023	163,550	18,776	3,838	0	63	1,176	7,094	149,269
2024	165,107	22,384	5,590	0	80	1,543	8,096	146,851
2025	165,724	25,861	7,329	0	103	1,922	10,402	144,961
2026	166,671	28,211	7,491	0	121	2,430	12,731	146,251
2027	167,623	30,427	7,648	0	141	3,111	15,131	147,931
2028	169,035	32,519	7,814	0	161	3,878	17,587	150,328
2029	169,606	34,421	7,977	0	178	4,674	20,076	152,135
2030	170,566	36,710	8,081	0	200	5,488	22,633	154,096
2031	171,475	38,353	8,182	0	219	6,373	25,237	156,769
2032	172,783	39,973	8,284	0	240	7,313	27,840	159,918
2033	173,242	41,441	8,360	0	261	8,230	30,469	162,401
2034	174,127	42,888	8,434	0	280	9,249	33,149	165,483
2035	175,029	44,255	8,508	0	296	10,322	48,675	181,560
2036	176,394	45,628	8,581	0	312	11,415	51,432	185,343
2037	176,834	46,834	8,656	0	324	12,577	54,217	188,462
2038	177,685	48,038	8,735	0	332	13,795	57,037	192,075
2039	178,514	49,192	8,810	0	339	15,048	59,872	195,772
2040	179,814	50,636	8,885	0	346	16,361	75,594	212,594
2041	180,181	51,603	8,960	0	353	17,442	78,463	215,876
2042	180,989	52,587	9,036	0	360	18,695	81,335	219,755
2043	181,801	53,524	9,112	0	367	19,991	84,210	223,732
2044	183,098	54,502	9,189	0	374	21,325	87,092	228,198
2045	183,506	55,268	9,266	0	381	22,703	89,978	232,034
2046	184,416	56,050	9,344	0	388	24,122	91,574	235,106
2047	185,318	56,765	9,423	0	395	25,580	93,174	238,279
2048	186,690	57,517	9,502	0	402	27,083	94,761	241,917
2049	187,125	58,056	9,581	0	409	28,624	96,344	244,865
2050	188,043	58,618	9,662	0	416	30,253	97,917	248,349

Note: Shift changes in values for 2035 and 2040 reflect significant assumed changes in end use technologies necessary to work towards CLCPA policy targets.

*NYISO *Climate Change Impact Study Phase I* (published December 2019): <https://www.nyiso.com/documents/20142/10773574/NYISO-Climate-Impact-Study-Phase1-Report.pdf>

Table I-18b: Summary of NYCA CLCPA Case Summer Coincident Peak Demand Forecasts – MW

From NYISO *Climate Change Impact Study Phase I**

Year	(a) Baseline SAE Model	(b) (-) New Energy Efficiency, Codes & Standards	(c) (-) Solar PV, BTM	(d) (-) Other Distributed Energy Resources	(e) (-) Storage	(f) (+) Electric Vehicles	(g) (+) Electrification	(h) =a-b-c-d-e+f+g Final Forecast
2020	33,345	1,330	228	0	57	56	819	32,604
2021	33,842	2,124	718	0	107	131	1,096	32,121
2022	34,276	3,442	336	0	154	265	1,310	31,919
2023	34,109	3,672	370	0	225	355	1,521	31,718
2024	34,475	4,439	539	0	285	464	1,716	31,392
2025	35,137	5,524	706	0	368	579	2,207	31,326
2026	35,197	6,533	149	0	301	847	2,661	31,720
2027	35,527	7,031	152	0	351	1,084	3,147	32,223
2028	35,875	7,495	156	0	400	1,349	3,627	32,800
2029	36,225	7,962	159	0	443	1,628	4,142	33,431
2030	36,565	8,488	161	0	498	1,913	4,647	33,978
2031	36,894	8,872	163	0	545	2,220	5,157	34,690
2032	36,369	8,352	165	0	596	2,541	5,631	35,427
2033	36,706	8,727	167	0	650	2,867	6,155	36,183
2034	37,045	9,082	168	0	697	3,226	6,679	37,003
2035	37,384	9,421	170	0	737	3,595	9,761	40,413
2036	37,725	9,740	171	0	775	3,964	10,212	41,215
2037	38,100	10,081	172	0	807	4,380	10,756	42,175
2038	38,433	10,395	174	0	827	4,808	11,268	43,112
2039	38,764	10,702	176	0	844	5,241	11,776	44,060
2040	39,102	11,039	177	0	859	5,686	14,752	47,465
2041	39,437	11,331	179	0	879	6,079	15,331	48,458
2042	39,771	11,600	180	0	897	6,511	15,826	49,432
2043	40,146	11,865	181	0	914	6,963	16,286	50,434
2044	40,496	12,106	183	0	929	7,411	16,719	51,408
2045	40,860	12,369	184	0	949	7,918	17,297	52,573
2046	41,252	12,614	186	0	966	8,402	17,532	53,418
2047	41,634	12,843	167	0	984	8,915	17,768	54,323
2048	42,032	13,054	189	0	999	9,405	17,904	55,100
2049	42,474	13,297	191	0	1,019	9,975	18,199	56,141
2050	42,886	13,509	193	0	1,036	10,537	18,423	57,109

Note: Shift changes in values for 2035 and 2040 reflect significant assumed changes in end use technologies necessary to work towards CLCPA policy targets.

*NYISO *Climate Change Impact Study Phase I* (published December 2019): <https://www.nyiso.com/documents/20142/10773574/NYISO-Climate-Impact-Study-Phase1-Report.pdf>

Table I-18c: Summary of NYCA CLCPA Case Winter Coincident Peak Demand Forecasts – MW

From NYISO *Climate Change Impact Study Phase I**

Year	(a) Baseline SAE Model	(b) (-) New Energy Efficiency, Codes & Standards	(c) (-) Solar PV, BTM	(d) (-) Other Distributed Energy Resources	(e) (-) Storage	(f) (+) Electric Vehicles	(g) (+) Electrification	(h) =a-b-c-d-e+f+g Final Forecast
2020-21	25,185	2,083	0	0	100	185	2,016	25,203
2021-22	25,420	2,705	0	0	154	265	2,449	25,275
2022-23	25,673	3,258	0	0	225	355	2,862	25,406
2023-24	25,865	3,796	0	0	285	464	3,255	25,503
2024-25	26,037	4,334	0	0	368	579	4,208	26,123
2025-26	26,053	4,674	0	0	432	733	5,146	26,826
2026-27	26,298	5,426	0	0	351	1,084	6,295	27,900
2027-28	26,455	5,732	0	0	400	1,349	7,306	28,979
2028-29	26,532	6,025	0	0	443	1,628	8,392	30,084
2029-30	26,703	6,371	0	0	498	1,913	9,472	31,219
2030-31	26,865	6,621	0	0	545	2,220	10,576	32,495
2031-32	26,417	6,350	0	0	596	2,541	11,623	33,635
2032-33	26,614	6,594	0	0	650	2,867	12,771	35,008
2033-34	26,731	6,807	0	0	697	3,226	13,944	36,396
2034-35	26,781	7,628	0	0	491	3,650	20,892	43,204
2035-36	26,965	7,831	0	0	517	4,025	21,993	44,635
2036-37	26,960	7,981	0	0	538	4,448	23,278	46,167
2037-38	27,172	8,181	0	0	551	4,881	24,526	47,847
2038-39	27,285	8,355	0	0	563	5,322	25,783	49,471
2039-40	27,413	9,497	0	0	0	5,384	33,400	56,701
2040-41	27,445	9,658	0	0	0	5,757	34,905	58,449
2041-42	27,573	9,824	0	0	0	6,166	36,241	60,157
2042-43	27,565	9,884	0	0	0	6,594	37,479	61,753
2043-44	27,786	10,051	0	0	0	7,018	38,725	63,477
2044-45	27,887	10,195	0	0	0	7,498	40,295	65,484
2045-46	27,933	10,311	0	0	0	7,956	41,080	66,659
2046-47	28,078	10,446	0	0	0	8,443	41,875	67,950
2047-48	28,240	10,568	0	0	0	8,906	42,436	69,014
2048-49	28,344	10,624	0	0	0	9,446	43,341	70,507
2049-50	28,476	10,730	0	0	0	9,979	44,135	71,859
2050-51	28,609	10,838	0	0	0	10,541	44,943	73,256

Note: Shift changes in values for 2034-35 and 2039-40 reflect significant assumed changes in end use technologies necessary to work towards CLCPA policy targets.

Note: Winter peak storage reductions are zero starting in 2039-40 because the coincident peak hour has shifted later in the evening and outside of the assumed storage schedule.

*NYISO *Climate Change Impact Study Phase I* (published December 2019): <https://www.nyiso.com/documents/20142/10773574/NYISO-Climate-Impact-Study-Phase1-Report.pdf>

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Section II

Changes in Generating Facilities & Generation Since the 2020 *Gold Book*

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Section II

This section provides an overview of significant changes in generating facilities since the 2020 *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 2020 Gold Book through March 15, 2021, which is a decrease of 1,520.2 MW⁶ for the summer. Second, any additional generation changes from March 15, 2021 until the summer of 2021 are reported, which is a decrease of 881.3 MW, excluding changes in Special Case Resources and Net Purchases. This results in a total capacity decrease of 2,401.5 MW from the summer of 2020 to the summer of 2021. All generator capacity values listed in this section are Dependable Maximum Net Generating Capability (“DMNC”).

Changes in Existing Generation Since the 2020 Gold Book

The existing summer 2021 NYCA installed generating capacity as of March 15, 2021 of 38,670.4 MW decreased by 1,520.2 MW from the summer 2020 generating capacity of 40,190.6 MW, as shown in Table II-1a. The winter 2021-22 NYCA installed generating capacity as of March 15, 2021 of 41,172.0 MW decreased by 1,429.2 MW from the winter 2020-21 generating capacity of 42,601.2 MW, as shown in Table II-1b.

Table II-1a: Summary of Changes in Summer Capacity Since 2020 – MW

Generator Fuel Types	2020 Capacity	Deactivations	Additions & Uprates	Reclassifications	Ratings Changes	2021 Capacity
Gas	4,725.2			-50.6	142.1	4,816.7
Oil	2,416.0			-53.9	-35.5	2,326.6
Gas & Oil	19,230.3			104.5	-20.2	19,314.6
Coal	676.4	-676.0			-0.4	0.0
Nuclear	5,390.8	-1,012.0			-0.5	4,378.3
Pumped Storage	1,407.1				-0.3	1,406.8
Hydro	4,247.1				12.2	4,259.3
Wind	1,739.2				78.4	1,817.6
Other	358.5	-6.0			-2.0	350.5
Total	40,190.6	-1,694.0	0.0	0.0	173.8	38,670.4

⁶ 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 2020 *Gold Book*, no new units have been added in the summer or winter capability periods. Three units totaling 1,694.0 MW of summer capacity and 1,719.0 MW of winter capacity have been deactivated. Reclassifications from gas-only and oil-only generators to dual-fuel capability resulted in a transfer of 104.5 MW in summer and 112.3 MW in winter. Finally, capability (or ratings) changes in existing generators resulted in a net increase of 173.8 MW in summer and a net increase of 289.8 MW in winter.

Table II-1b: Summary of Changes in Winter Capacity Since 2020 – MW

Generator Fuel Types	2020/21 Capacity	Deactivations	Additions & Uprates	Reclassifications	Ratings Changes	2021/22 Capacity
Gas	5,111.3			-58.6	102.7	5,155.4
Oil	2,758.2			-53.7	68.8	2,773.3
Gas & Oil	20,920.9			112.3	9.9	21,043.1
Coal	684.4	-684.0			-0.4	0.0
Nuclear	5,423.5	-1,029.0			10.2	4,404.7
Pumped Storage	1,405.1				1.6	1,406.7
Hydro	4,201.4				12.1	4,213.5
Wind	1,739.2				78.4	1,817.6
Other	357.2	-6.0			6.5	357.7
Total	42,601.2	-1,719.0	0.0	0.0	289.8	41,172.0

The gas & oil fuel type is identified based upon whether or not environmental permits, pipeline connections, 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>.

Proposed Changes to Generation for Summer 2021

Proposed generator additions result in an increase of 225.2 MW for the Summer Capability Period. Proposed generator deactivations result in a decrease 1,106.5 MW for the Summer, resulting in an overall decrease of 881.3 MW, as shown in Table V-2a.

Demand Response Resources for Summer 2021 and Winter 2021-22

The projected 2021 Summer Capability for SCR is 1,195.0 MW. The projected summer 2021 enrollment for the EDRP is 4.0 MW. For winter 2021-22, the SCR total is 630.2 MW and the EDRP enrollment is 1.0 MW.

Total Resource Capability for Summer 2021 and Winter 2021-22

The Total Resource Capability forecasted for the 2021 Summer Capability Period is 41,070.6 MW. This value is the sum of existing facilities (38,670.4 MW), Special Case Resources (1,195.0 MW), net generation additions and deactivations (-881.3 MW) and net purchases from external areas (2,086.5 MW). This is a decrease of 270.6 MW from the 2020 value of 41,341.2 MW.

For the Winter Capability Period, the forecasted Total Resource Capability is 42,562.2 MW. This value is the sum of existing facilities (41,172.0 MW), Special Case Resources (630.2 MW), net generation additions and deactivations (-786.4 MW), and net purchases from external areas (1,050.6 MW). This is a decrease of 555.2 MW from the 2020-2021 value of 43,117.4 MW.

Summary of 2020 Energy Generation

In 2020, a total of 131,461.6 GWh was generated in the NYCA, a decrease of 2.3% from the 134,536.3 GWh generated in 2019. Renewable energy generation was 35,964.3 GWh in 2020 (27.4% of total NYCA generation), compared to 37,294.4 GWh in 2019 (27.7%). Fossil-fueled energy generation in 2020 was 57,060.3 GWh (43.4%), compared to 52,454.1 GWh in 2019 (39.0%). Nuclear energy generation was 38,437.0 GWh in 2020 (29.2%), compared to 44,787.9 GWh in 2019 (33.3%).

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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, 2021. 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 values⁷ 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 2020 *Gold Book* remain listed in Table III-2 for one year.

The values for the Summer Capability Period in this *Gold Book* reflect the most recent DMNC values available. The 2021 Summer Installed Capacity market will generally use DMNC values taken from the 2020 Summer Capability Period. The Winter Capability Period values represent the most recent DMNC values demonstrated during a Winter Capability Period. The 2021-22 Winter Installed Capacity Market will generally use DMNC values taken from the 2020-21 Winter Capability Period.

Units are classified as dual-fuel (gas & oil) when environmental permits, pipeline connections, 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 might be considered as primary. The NYISO does not report the DMNC for generation with alternate fuels since: (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.

⁷ 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

<u>FUEL TYPE</u>	<u>UNIT TYPE</u>
BAT - Battery	CC - Combined Cycle
BIT - Bituminous Coal	CG - Cogeneration
BUT - Butane	CT - Combustion Turbine Portion (CC)
COL - Liquefied Coal	CW - Waste Heat Only (CC)
F02 - No. 2 Fuel Oil	ES - Energy Storage
F04 - No. 4 Fuel Oil	FC - Fuel Cell
F06 - No. 6 Fuel Oil	GT - Combustion Turbine
FW - Fly Wheel	HY - Conventional Hydro
JF - Jet Fuel	IC - Internal Combustion
KER - Kerosene	IG - Integrated Coal Gasification (CC)
MTE - Methane (Bio Gas)	JE - Jet Engine
NG - Natural Gas	NB - Steam (BWR Nuclear)
OT - Other (Describe In Footnote)	NP - Steam (PWR Nuclear)
REF - Refuse (Solid Waste)	PS - Pumped Storage Hydro
SUN - Sunlight	PV - Photovoltaic
UR - Uranium	ST - Steam Turbine (Fossil)
WAT - Water	WT - Wind Turbine
WD - Wood and/or Wood Waste	
WND - Wind	

<u>COUNTY CODES</u> <u>NEW YORK - NY - 36</u>	
001 - Albany	063 - Niagara
003 - Allegany	065 - Onelda
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 - Schoenectady
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

<u>COUNTY CODES</u> <u>PENNSYLVANIA - PA - 42</u>	
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

<u>COUNTY CODES</u> <u>MASSACHUSETTS - MA - 25</u>
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

<u>COUNTY CODES</u> <u>NEW JERSEY - NJ - 34</u>
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-2: Existing Generating Facilities

Owner, Operator, and / or Billing Organization	Station	Unit	Z O N E	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(V) MW	2021 CRIS ^(A) MW		2021 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(U)		2020 Net Energy ^(C) GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
Arkwright Summit Wind Farm	Arkwright Summit Wind Farm		A	323751	Arkwright	013	36	2018-09-01	78.4	78.4	78.4	78.4	78.4		WT	WND		255.8	
Astoria Energy II, LLC	Astoria Energy 2 - CC3		J	323677	Queens	081	36	2011-07-01	330.0	288.0	376.3	285.7	329.5	YES	CC	NG	F02	2,899.9	(G)
Astoria Energy II, LLC	Astoria Energy 2 - CC4		J	323678	Queens	081	36	2011-07-01	330.0	288.0	376.3	285.7	329.5	YES	CC	NG	F02		
Astoria Energy, LLC	Astoria East Energy - CC1		J	323581	Queens	081	36	2006-04-01	320.0	292.6	355.3	291.3	334.1	YES	CC	NG	F02	2,567.6	(G)
Astoria Energy, LLC	Astoria East Energy - CC2		J	323582	Queens	081	36	2006-04-01	320.0	292.6	355.3	291.3	334.1	YES	CC	NG	F02		
Astoria Generating Company L.P.	Astoria 2		J	24149	Queens	081	36	1954-03-01	180.0	177.0	177.0	172.4	169.0		ST	NG		2.6	
Astoria Generating Company L.P.	Astoria 3		J	23516	Queens	081	36	1958-09-01	376.0	369.9	369.9	371.3	370.0	YES	ST	F06	NG	195.4	
Astoria Generating Company L.P.	Astoria 5		J	23518	Queens	081	36	1962-05-01	387.0	376.3	376.3	375.1	375.3	YES	ST	F06	NG	476.9	
Astoria Generating Company L.P.	Astoria GT 01		J	23523	Queens	081	36	1967-07-01	16.0	15.7	20.5	13.6	19.3		GT	NG		0.4	
Astoria Generating Company L.P.	Gowanus 1-1		J	24077	Brooklyn	047	36	1971-06-01	20.0	19.1	24.9	18.6	24.7		GT	F02		0.1	
Astoria Generating Company L.P.	Gowanus 1-2		J	24078	Brooklyn	047	36	1971-06-01	20.0	17.1	22.3	19.5	24.2		GT	F02		0.1	
Astoria Generating Company L.P.	Gowanus 1-3		J	24079	Brooklyn	047	36	1971-06-01	20.0	17.2	22.5	17.9	23.2		GT	F02		0.1	
Astoria Generating Company L.P.	Gowanus 1-4		J	24080	Brooklyn	047	36	1971-06-01	20.0	17.1	22.3	16.4	21.2		GT	F02		0.1	
Astoria Generating Company L.P.	Gowanus 1-5		J	24084	Brooklyn	047	36	1971-06-01	20.0	16.5	21.6	17.8	22.6		GT	F02		0.1	
Astoria Generating Company L.P.	Gowanus 1-6		J	24111	Brooklyn	047	36	1971-06-01	20.0	18.0	23.5	16.5	21.4		GT	F02		0.1	
Astoria Generating Company L.P.	Gowanus 1-7		J	24112	Brooklyn	047	36	1971-06-01	20.0	17.6	23.0	18.0	22.4		GT	F02		0.1	
Astoria Generating Company L.P.	Gowanus 1-8 (HFO)		J	24113	Brooklyn	047	36	1971-06-01	20.0	16.1	21.0	16.0	21.0		GT	F02		0.1	(I) (I)
Astoria Generating Company L.P.	Gowanus 2-1		J	24114	Brooklyn	047	36	1971-06-01	20.0	17.9	23.4	17.1	21.6	YES	GT	F02	NG	1.4	
Astoria Generating Company L.P.	Gowanus 2-2		J	24115	Brooklyn	047	36	1971-06-01	20.0	18.8	24.6	16.9	21.5	YES	GT	F02	NG	0.8	
Astoria Generating Company L.P.	Gowanus 2-3		J	24116	Brooklyn	047	36	1971-06-01	20.0	20.6	26.9	19.1	22.6	YES	GT	F02	NG	1.6	
Astoria Generating Company L.P.	Gowanus 2-4		J	24117	Brooklyn	047	36	1971-06-01	20.0	19.3	25.2	17.1	22.0	YES	GT	F02	NG	0.9	
Astoria Generating Company L.P.	Gowanus 2-5		J	24118	Brooklyn	047	36	1971-06-01	20.0	18.6	24.3	17.8	24.0	YES	GT	F02	NG	1.3	
Astoria Generating Company L.P.	Gowanus 2-6		J	24119	Brooklyn	047	36	1971-06-01	20.0	20.3	26.5	19.7	24.9	YES	GT	F02	NG	1.0	
Astoria Generating Company L.P.	Gowanus 2-7		J	24120	Brooklyn	047	36	1971-06-01	20.0	19.6	25.6	19.1	24.9	YES	GT	F02	NG	1.8	
Astoria Generating Company L.P.	Gowanus 2-8		J	24121	Brooklyn	047	36	1971-06-01	20.0	17.7	23.1	17.3	23.5	YES	GT	F02	NG	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	21.5	YES	GT	F02	NG	0.8	
Astoria Generating Company L.P.	Gowanus 3-2		J	24123	Brooklyn	047	36	1971-07-01	20.0	17.7	23.1	16.9	22.0	YES	GT	F02	NG	0.9	
Astoria Generating Company L.P.	Gowanus 3-3		J	24124	Brooklyn	047	36	1971-07-01	20.0	19.8	25.9	18.3	23.7	YES	GT	F02	NG	0.8	
Astoria Generating Company L.P.	Gowanus 3-4		J	24125	Brooklyn	047	36	1971-07-01	20.0	17.9	23.4	15.9	21.6	YES	GT	F02	NG	0.6	
Astoria Generating Company L.P.	Gowanus 3-5		J	24126	Brooklyn	047	36	1971-07-01	20.0	19.0	24.8	17.3	22.5	YES	GT	F02	NG	0.5	
Astoria Generating Company L.P.	Gowanus 3-6		J	24127	Brooklyn	047	36	1971-07-01	20.0	17.6	23.0	15.4	20.8	YES	GT	F02	NG	0.5	
Astoria Generating Company L.P.	Gowanus 3-7		J	24128	Brooklyn	047	36	1971-07-01	20.0	18.1	23.6	17.9	23.6	YES	GT	F02	NG	0.8	
Astoria Generating Company L.P.	Gowanus 3-8		J	24129	Brooklyn	047	36	1971-07-01	20.0	19.0	24.8	17.8	23.7	YES	GT	F02	NG	0.8	
Astoria Generating Company L.P.	Gowanus 4-1		J	24130	Brooklyn	047	36	1971-07-01	20.0	16.8	21.9	18.9	24.2		GT	F02		0.1	
Astoria Generating Company L.P.	Gowanus 4-2		J	24131	Brooklyn	047	36	1971-07-01	20.0	17.3	22.6	18.5	23.1		GT	F02		0.1	
Astoria Generating Company L.P.	Gowanus 4-3		J	24132	Brooklyn	047	36	1971-07-01	20.0	17.6	23.0	18.4	21.7		GT	F02		0.1	
Astoria Generating Company L.P.	Gowanus 4-4		J	24133	Brooklyn	047	36	1971-07-01	20.0	17.1	22.3	16.0	21.6		GT	F02		0.1	
Astoria Generating Company L.P.	Gowanus 4-5		J	24134	Brooklyn	047	36	1971-07-01	20.0	17.1	22.3	16.6	22.1		GT	F02		0.1	

Table III-2: Existing Generating Facilities (cont'd)

Owner, Operator, and / or Billing Organization	Station	Unit	Z O N E	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(V) MW	2021 CRIS ^(A) MW		2021 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(U)		2020 Net Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
Astoria Generating Company L.P.	Gowanus 4-6		J	24135	Brooklyn	047	36	1971-07-01	20.0	18.6	24.3	18.5	23.9	GT	F02			0.1	
Astoria Generating Company L.P.	Gowanus 4-7		J	24136	Brooklyn	047	36	1971-07-01	20.0	16.6	21.7	18.4	24.7	GT	F02			0.1	
Astoria Generating Company L.P.	Gowanus 4-8		J	24137	Brooklyn	047	36	1971-07-01	20.0	19.0	24.8	17.2	23.2	GT	F02			0.2	
Astoria Generating Company L.P.	Narrows 1-1		J	24228	Brooklyn	047	36	1972-05-01	22.0	21.0	27.4	19.4	24.4	YES	GT	F02	NG	3.0	
Astoria Generating Company L.P.	Narrows 1-2		J	24229	Brooklyn	047	36	1972-05-01	22.0	19.5	25.5	17.5	22.7	YES	GT	F02	NG	3.9	
Astoria Generating Company L.P.	Narrows 1-3		J	24230	Brooklyn	047	36	1972-05-01	22.0	20.4	26.6	18.5	24.4	YES	GT	F02	NG	4.8	
Astoria Generating Company L.P.	Narrows 1-4		J	24231	Brooklyn	047	36	1972-05-01	22.0	20.1	26.3	18.7	24.9	YES	GT	F02	NG	3.2	
Astoria Generating Company L.P.	Narrows 1-5		J	24232	Brooklyn	047	36	1972-05-01	22.0	19.8	25.9	20.7	24.0	YES	GT	F02	NG	1.9	
Astoria Generating Company L.P.	Narrows 1-6		J	24233	Brooklyn	047	36	1972-05-01	22.0	18.9	24.7	16.3	21.9	YES	GT	F02	NG	2.2	
Astoria Generating Company L.P.	Narrows 1-7		J	24234	Brooklyn	047	36	1972-05-01	22.0	18.4	24.0	19.0	24.9	YES	GT	F02	NG	3.5	
Astoria Generating Company L.P.	Narrows 1-8		J	24235	Brooklyn	047	36	1972-05-01	22.0	19.9	26.0	17.7	23.3	YES	GT	F02	NG	2.2	
Astoria Generating Company L.P.	Narrows 2-1		J	24236	Brooklyn	047	36	1972-06-01	22.0	19.4	25.3	19.2	24.6	YES	GT	F02	NG	4.4	
Astoria Generating Company L.P.	Narrows 2-2		J	24237	Brooklyn	047	36	1972-06-01	22.0	18.7	24.4	16.4	22.4	YES	GT	F02	NG	2.8	
Astoria Generating Company L.P.	Narrows 2-3		J	24238	Brooklyn	047	36	1972-06-01	22.0	18.4	24.0	17.5	23.2	YES	GT	F02	NG	3.9	
Astoria Generating Company L.P.	Narrows 2-4		J	24239	Brooklyn	047	36	1972-06-01	22.0	18.4	24.0	19.7	23.8	YES	GT	F02	NG	1.5	
Astoria Generating Company L.P.	Narrows 2-5		J	24240	Brooklyn	047	36	1972-06-01	22.0	19.9	26.0	20.2	24.4	YES	GT	F02	NG	4.5	
Astoria Generating Company L.P.	Narrows 2-6		J	24241	Brooklyn	047	36	1972-06-01	22.0	18.1	23.6	15.3	21.7	YES	GT	F02	NG	2.1	
Astoria Generating Company L.P.	Narrows 2-7		J	24242	Brooklyn	047	36	1972-06-01	22.0	20.7	27.0	19.0	24.2	YES	GT	F02	NG	5.9	
Astoria Generating Company L.P.	Narrows 2-8		J	24243	Brooklyn	047	36	1972-06-01	22.0	17.5	22.9	16.4	21.4	YES	GT	F02	NG	2.6	
Bayonne Energy Center, LLC	Bayonne EC CTG1		J	323682	Bayonne NJ	017	34	2012-06-01	64.0	63.2	66.1	61.3	60.4	YES	JE	NG	KER	27.4	
Bayonne Energy Center, LLC	Bayonne EC CTG2		J	323683	Bayonne NJ	017	34	2012-06-01	64.0	63.2	66.1	58.6	61.2	YES	JE	NG	KER	24.7	
Bayonne Energy Center, LLC	Bayonne EC CTG3		J	323684	Bayonne NJ	017	34	2012-06-01	64.0	63.2	66.1	59.9	61.4	YES	JE	NG	KER	27.5	
Bayonne Energy Center, LLC	Bayonne EC CTG4		J	323685	Bayonne NJ	017	34	2012-06-01	64.0	63.2	66.1	62.0	61.4	YES	JE	NG	KER	34.0	
Bayonne Energy Center, LLC	Bayonne EC CTG5		J	323686	Bayonne NJ	017	34	2012-06-01	64.0	63.2	66.1	59.1	61.7	YES	JE	NG	KER	36.6	
Bayonne Energy Center, LLC	Bayonne EC CTG6		J	323687	Bayonne NJ	017	34	2012-06-01	64.0	63.2	66.1	59.4	61.8	YES	JE	NG	KER	38.6	
Bayonne Energy Center, LLC	Bayonne EC CTG7		J	323688	Bayonne NJ	017	34	2012-06-01	64.0	63.2	66.1	59.8	62.7	YES	JE	NG	KER	37.4	
Bayonne Energy Center, LLC	Bayonne EC CTG8		J	323689	Bayonne NJ	017	34	2012-06-01	64.0	63.2	66.1	60.8	62.7	YES	JE	NG	KER	33.2	
Bayonne Energy Center, LLC	Bayonne EC CTG9		J	323749	Bayonne NJ	017	34	2018-06-01	64.0	63.4	66.3	62.1	65.0	YES	JE	NG	KER	44.2	
Bayonne Energy Center, LLC	Bayonne EC CTG10		J	323750	Bayonne NJ	017	34	2018-06-01	64.0	63.4	66.3	61.3	64.9	YES	JE	NG	KER	42.8	
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			73.8	
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			12.4	
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			33.5	
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			9.6	
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			10.4	
Calpine Energy Services LP	Bethpage		K	23823	Hicksville	059	36	1989-09-01	83.6	54.9	55.1	50.6	58.6	YES	CC	NG	F02	185.2	
Calpine Energy Services LP	Bethpage GT4		K	323586	Hicksville	059	36	2002-07-01	60.0	48.2	51.2	44.1	48.0	GT	NG			103.3	
Calpine Energy Services LP	KIAC_JFK_GT1		J	23816	Jamaica	081	36	1995-02-01	60.6	58.7	58.7	54.8	59.4	YES	CC	NG	F02	451.3	(G)
Calpine Energy Services LP	KIAC_JFK_GT2		J	23817	Jamaica	081	36	1995-02-01	60.6	58.3	58.3	54.1	57.4	YES	CC	NG	F02		

Table III-2: Existing Generating Facilities (cont'd)

Owner, Operator, and / or Billing Organization	Station Unit	Z O N E	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(V) MW	2021 CRIS ^(A) MW		2021 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(U)		2020 Net ^(C) Energy GWh	Notes
				Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
Calpine Energy Services LP	Stony Brook (BTM:NG)	K	24151	Stony Brook	103	36	1995-04-01	47.0	9.6	9.6	0.0	0.0	YES	GT	NG	F02	35.8	(4) (E)
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		66.0	
Canastota Windpower LLC	Fenner Wind Power	C	24204	Fenner	053	36	2001-12-01	30.0	0.0	0.0	0.0	0.0		WT	WND		33.1	
Carr Street Generating Station LP	Carr St.-E. Syr	C	24060	Dewitt	067	36	1993-08-01	122.6	89.0	116.8	92.8	107.0	YES	CC	NG	F02	94.4	
Castleton Power, LLC	Castleton Energy Center	F	23900	Castleton	083	36	1992-01-01	72.0	69.0	86.6	67.0	76.5	YES	CC	NG	F02	77.7	
Central Hudson Gas & Elec. Corp.	Coxsackie GT	G	23611	Coxsackie	039	36	1969-12-01	21.6	21.6	26.0	19.3	24.8	YES	GT	KER	NG	0.4	
Central Hudson Gas & Elec. Corp.	Dashville 1	G	23610	Rifton	111	36	1920-01-01	2.4	2.7	2.7	0.0	0.0		HY	WAT		0.0	
Central Hudson Gas & Elec. Corp.	Dashville 2	G	23610	Rifton	111	36	1920-01-01	2.4	2.7	2.7	0.0	0.0		HY	WAT		0.0	
Central Hudson Gas & Elec. Corp.	DCRRA	G	23765	Poughkeepsie	027	36	1987-09-01	9.2	8.8	8.8	5.6	7.2		ST	REF		41.9	
Central Hudson Gas & Elec. Corp.	High Falls	G	23754	Marbletown	111	36	1986-12-01	3.2	3.0	3.0	0.0	0.0		HY	WAT		0.0	
Central Hudson Gas & Elec. 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 & Elec. 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 & Elec. 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 & Elec. Corp.	South Cairo	G	23612	Cairo	039	36	1970-06-01	21.6	19.8	25.9	18.4	22.9		GT	KER		0.1	
Central Hudson Gas & Elec. Corp.	Sturgeon 1	G	23609	Rifton	111	36	1924-01-01	4.8	5.0	5.0	0.0	0.0		HY	WAT		0.0	
Central Hudson Gas & Elec. Corp.	Sturgeon 2	G	23609	Rifton	111	36	1924-01-01	4.8	5.8	5.8	0.0	0.0		HY	WAT		0.0	
Central Hudson Gas & Elec. Corp.	Sturgeon 3	G	23609	Rifton	111	36	1924-01-01	4.8	5.0	5.0	0.0	0.0		HY	WAT		0.0	
Central Hudson Gas & Elec. Corp.	Walkkill	G	5007	Shwangunk	111	36	1986-12-01	0.5	0.0	0.0	0.0	0.0		HY	WAT			
Central Hudson Gas & Elec. Corp.	Wappingers Falls	G	23765	Wappingers Falls	027	36	1988-12-01	2.0	2.0	2.0	2.0	2.0		HY	WAT		6.9	
CHI Energy Inc	Goodyear Lake	E	323669	Milford	077	36	1980-07-01	1.4	1.4	1.4	0.0	0.0		HY	WAT		1.2	
Consolidated Edison Co. of NY, Inc.	59 St. GT 1	J	24138	Manhattan	061	36	1969-06-01	17.1	15.4	20.1	15.6	19.5	YES	GT	KER	NG	0.2	
Consolidated Edison Co. of NY, Inc.	74 St. GT 1	J	24260	Manhattan	061	36	1968-10-01	18.5	19.0	23.5	19.4	20.5		GT	KER		0.3	
Consolidated Edison Co. of NY, Inc.	74 St. GT 2	J	24261	Manhattan	061	36	1968-10-01	18.5	20.1	25.7	19.9	21.9		GT	KER		0.3	
Consolidated Edison Co. of NY, Inc.	Brooklyn Navy Yard	J	23515	Brooklyn	047	36	1996-11-01	322.0	266.9	348.6	260.6	302.2	YES	CC	NG	F02	1,855.6	
Consolidated Edison Co. of NY, Inc.	East River 1	J	323558	Manhattan	061	36	2005-04-01	185.0	160.5	199.0	152.8	194.5	YES	CC	NG	KER	1,235.7	
Consolidated Edison Co. of NY, Inc.	East River 2	J	323559	Manhattan	061	36	2005-04-05	185.0	162.4	201.4	153.9	197.9	YES	CC	NG	KER	1,216.8	
Consolidated Edison Co. of NY, Inc.	East River 6	J	23660	Manhattan	061	36	1951-11-01	156.2	144.3	144.3	146.1	151.3	YES	ST	NG	F06	617.6	
Consolidated Edison Co. of NY, Inc.	East River 7	J	23524	Manhattan	061	36	1955-06-01	200.0	186.7	186.7	186.8	188.9	YES	ST	NG	F06	50.8	
Consolidated Edison Co. of NY, Inc.	Hudson Ave 3	J	23810	Brooklyn	047	36	1970-07-01	16.3	16.0	20.9	16.6	19.5		GT	KER		0.2	
Consolidated Edison Co. of NY, Inc.	Hudson Ave 5	J	23657	Brooklyn	047	36	1970-07-01	16.3	15.1	19.7	14.2	18.5		GT	KER		0.2	
Consolidated Edison Energy, Inc.	Athens 1	F	23668	Athens	039	36	2004-05-01	441.0	316.6	399.9	319.6	401.0	YES	CC	NG	F02	541.6	
Consolidated Edison Energy, Inc.	Athens 2	F	23670	Athens	039	36	2004-05-01	441.0	315.6	398.6	328.5	391.5	YES	CC	NG	F02	532.0	
Consolidated Edison Energy, Inc.	Athens 3	F	23677	Athens	039	36	2004-05-01	441.0	312.8	395.1	330.1	392.1	YES	CC	NG	F02	889.3	
Consolidated Edison Energy, Inc.	Beaver Falls	E	23983	Beaver Falls	049	36	1995-03-01	107.8	80.2	94.9	79.4	92.8	YES	CC	NG	F02	2.1	
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		6.2	
Consolidated Edison Energy, Inc.	Danskammer 1	G	23586	Newburgh	071	36	1951-12-01	72.0	69.0	69.0	69.5	69.2	YES	ST	NG	F06	1.1	
Consolidated Edison Energy, Inc.	Danskammer 2	G	23589	Newburgh	071	36	1954-09-01	73.5	64.7	64.7	64.2	66.4	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	138.4	139.9		ST	NG		2.6	

Table III-2: Existing Generating Facilities (cont'd)

Owner, Operator, and / or Billing Organization	Station	Unit	Z O N E	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(V) MW	2021 CRIS ^(A) MW		2021 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(U)		2020 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
Consolidated Edison Energy, Inc.	Danskammer 4		G	23591	Newburgh	071	36	1967-09-01	239.4	238.2	238.2	225.3	230.5		ST	NG		7.4	
Consolidated Edison Energy, Inc.	Fortistar - N.Tonawanda		A	24026	N Tonawanda	029	36	1993-06-01	68.5	59.0	75.0	59.3	60.9	YES	CC	NG	F02	19.8	
Consolidated Edison Energy, Inc.	Munnsville Wind Power		E	323609	Bouckville	053	36	2007-08-20	34.5	34.5	34.5	34.5	34.5		WT	WND		89.2	
Consolidated Edison Energy, Inc.	Rensselaer		F	23796	Rensselaer	083	36	1993-12-01	96.9	79.0	79.0	77.0	82.7	YES	CC	NG	F02	4.8	
Consolidated Edison Energy, Inc.	Roseton 1		G	23587	Newburgh	071	36	1974-12-01	621.0	614.8	614.8	593.5	604.5	YES	ST	F06	NG	43.2	
Consolidated Edison Energy, Inc.	Roseton 2		G	23588	Newburgh	071	36	1974-09-01	621.0	605.7	605.7	599.7	612.5	YES	ST	F06	NG	65.5	
Consolidated Edison Energy, Inc.	Selkirk-I		F	23801	Selkirk	001	36	1992-03-01	107.2	82.1	107.2	77.2	102.8	YES	CC	NG	F02	24.4	
Consolidated Edison Energy, Inc.	Selkirk-II		F	23799	Selkirk	001	36	1994-09-01	338.8	291.3	380.5	279.2	333.3	YES	CC	NG	F02	118.1	
Consolidated Edison Energy, Inc.	Syracuse		C	23985	Syracuse	067	36	1993-09-01	102.7	86.8	107.3	88.7	102.1	YES	CC	NG	F02	5.5	
Consolidated Hydro New York, Inc.	Groveville Hydro		G	323602	Beacon	027	36	1983-12-01	0.9	0.9	0.9	0.0	0.0		HY	WAT		0.0	
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		0.8	
Covanta Niagara, LP	American Ref-Fuel 1		A	24010	Niagara	063	36	1993-05-01	25.0	19.6	19.6	16.6	17.5		ST	REF		168.9	(G)
Covanta Niagara, LP	American Ref-Fuel 2		A	24010	Niagara	063	36	1993-05-01	25.0	19.6	19.6	16.7	17.5		ST	REF			
CPV Valley, LLC	CPV_VALLEY___CC1		G	323721	Wawayanda	071	36	2018-03-01	385.0	340.0	380.5	330.9	369.7	YES	CC	NG	F02	2,411.5	
CPV Valley, LLC	CPV_VALLEY___CC2		G	323722	Wawayanda	071	36	2018-03-01	385.0	340.0	380.5	330.9	371.4	YES	CC	NG	F02	2,296.6	
Cricket Valley Energy Center, LLC	CRICKET___VALLEY_CC1		G	323756	Dover	027	36	2019-10-29	392.3	340.0	375.7	361.3	373.4		CC	NG		1,367.5	
Cricket Valley Energy Center, LLC	CRICKET___VALLEY_CC2		G	323757	Dover	028	36	2020-01-03	392.3	340.0	375.7	363.4	375.5		CC	NG		1,515.5	
Cricket Valley Energy Center, LLC	CRICKET___VALLEY_CC3		G	323758	Dover	029	36	2020-01-17	392.3	340.0	375.6	363.3	375.1		CC	NG		1,248.6	
Cubit Power One Inc.	Arthur Kill Cogen		J	323718	Staten Island	085	36	2018-05-22	11.1	11.1	11.1	9.0	9.0		IC	NG		25.2	
Dynegy Marketing and Trade, LLC	Independence		C	23970	Scriba	075	36	1994-11-01	1,254.0	1,013.0	1,211.7	995.0	1,181.7		CC	NG		4,144.5	
Eagle Creek Hydro Power, LLC	Mongaup 1		G	23641	Forestburg	105	36	1923-07-01	1.0	0.9	0.9	1.0	1.0		HY	WAT		12.7	(G)
Eagle Creek Hydro Power, LLC	Mongaup 2		G	23641	Forestburg	105	36	1923-07-01	1.0	1.0	1.0	1.0	1.0		HY	WAT			
Eagle Creek Hydro Power, LLC	Mongaup 3		G	23641	Forestburg	105	36	1923-07-01	1.0	1.0	1.0	1.0	1.0		HY	WAT			
Eagle Creek Hydro Power, LLC	Mongaup 4		G	23641	Forestburg	105	36	1926-01-01	1.0	1.0	1.0	1.0	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	10.6	10.7		HY	WAT		28.3	
Eagle Creek Hydro Power, LLC	Swinging Bridge 2		G	23641	Forestburg	105	36	1930-02-01	7.0	7.9	7.9	6.9	7.0		HY	WAT		15.1	
East Coast Power, LLC	Linden Cogen		J	23786	Linden NJ	039	34	1992-05-01	800.0	790.8	924.9	790.8	815.6	YES	CC	NG	BUT	4,182.3	
EDF Renewable Energy	Copenhagen Wind Farm		E	323753	Copenhagen	049	36	2018-12-01	79.9	79.9	79.9	0.0	0.0		WT	WND		274.6	
Emera Energy Services, Inc	Lockport		A	23791	Lockport	063	36	1992-07-01	221.3	225.2	261.7	202.8	232.5	YES	CC	NG	F02	162.0	
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	106.1	107.9		ST	NG	WD	231.5	(5) (E)
Empire Generating Co, LLC	EMPIRE_CC_1		F	323656	Rensselaer	083	36	2010-09-02	335.0	294.2	360.2	297.9	339.9	YES	CC	NG	F02	1,463.5	
Empire Generating Co, LLC	EMPIRE_CC_2		F	323658	Rensselaer	083	36	2010-09-02	335.0	298.2	365.1	297.9	339.9	YES	CC	NG	F02	1,464.3	
ENGIE Energy Marketing NA, Inc.	Nassau Energy Corporation		K	323695	Garden City	059	36	1991-03-01	55.0	51.6	60.1	41.6	54.1	YES	CC	NG	F02	160.1	
Energy Nuclear Power Marketing LLC	Indian Point 2		H	23530	Buchanan	119	36	1973-08-01	1,299.0	1,026.5	1,026.5	0.0	0.0		NP	UR		2,759.1	(2) (R)
Energy Nuclear Power Marketing LLC	Indian Point 3		H	23531	Buchanan	119	36	1976-04-01	1,012.0	1,040.4	1,040.4	1,036.3	1,038.8		NP	UR		9,108.8	
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		1.1	
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		2.7	
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		2.7	

Table III-2: Existing Generating Facilities (cont'd)

Owner, Operator, and / or Billing Organization	Station	Unit	Z O N E	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(V) MW	2021 CRIS ^(A) MW		2021 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(U)		2020 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
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		2.6		
Erie Blvd. Hydro - Beaver River	Eagle 2		E	24048	Watson	049	36	1915-01-01	1.4	1.3	1.3	1.4	1.4	HY	WAT		3.8		
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		3.9		
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		7.5		
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		1.0		
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		0.9		
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		2.3		
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		7.8		
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		4.6		
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		2.2		
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		7.5		
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		7.2		
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		9.4		
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		0.0		
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		24.7		
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		17.5		
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		11.4		
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		5.1		
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		2.6		
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		5.1		
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		15.0		
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		19.2		
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		8.4		
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		12.5		
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		4.7		
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		14.9		
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		24.1		
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		6.9		
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		5.5		
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		10.2		
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		4.9		
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		7.1		
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		9.6		
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		4.3		
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		5.0		
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		5.3		
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		16.7		

Table III-2: Existing Generating Facilities (cont'd)

Owner, Operator, and / or Billing Organization	Station	Unit	Z O N E	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(V) MW	2021 CRIS ^(A) MW		2021 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(U)		2020 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 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		28.8		
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		0.3		
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		6.8		
Erie Blvd. Hydro - East Canada Capital	Ephratah 3		F	24051	Caroga Lake	035	36	1911-01-01	1.3	0.0	0.0	0.0	0.0	HY	WAT		3.8		
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		1.0		
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		4.3		
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		18.2		
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		4.4		
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		2.8		
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		15.5		
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		19.6		
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		11.2		
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		18.4		
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		32.4		
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		32.5		
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		30.2		
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		26.1		
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		31.9		
Erie Blvd. Hydro - Lower Hudson	Schuylerville		F	24059	Schuylerville	091	36	1919-01-01	1.2	1.5	1.5	0.0	0.0	HY	WAT				
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		64.0		
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		33.0		
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		59.9		
Erie Blvd. Hydro - Lower Raquette	East Norfolk		E	24057	East Norfolk	089	36	1928-01-01	3.6	4.0	4.0	4.0	4.0	HY	WAT		19.4		
Erie Blvd. Hydro - Lower Raquette	Hannawa Falls 1		E	24057	Hannawa Falls	089	36	1914-01-01	3.6	3.7	3.7	3.7	3.7	HY	WAT		25.7		
Erie Blvd. Hydro - Lower Raquette	Hannawa Falls 2		E	24057	Hannawa Falls	089	36	1920-01-01	3.6	3.7	3.7	3.7	3.7	HY	WAT		17.3		
Erie Blvd. Hydro - Lower Raquette	Higley 1		E	24057	Colton	089	36	1913-01-01	1.2	1.1	1.1	1.1	1.1	HY	WAT		7.7		
Erie Blvd. Hydro - Lower Raquette	Higley 2		E	24057	Colton	089	36	1913-01-01	1.2	1.1	1.1	1.1	1.1	HY	WAT		6.8		
Erie Blvd. Hydro - Lower Raquette	Higley 3		E	24057	Colton	089	36	1943-01-01	2.1	2.0	2.0	2.0	2.0	HY	WAT		7.9		
Erie Blvd. Hydro - Lower Raquette	Higley 4		E	24057	Colton	089	36	1943-01-01	2.1	2.0	2.0	2.0	2.0	HY	WAT		7.4		
Erie Blvd. Hydro - Lower Raquette	Norfolk		E	24057	Norfolk	089	36	1928-01-01	4.5	4.8	4.8	4.8	4.8	HY	WAT		21.2		
Erie Blvd. Hydro - Lower Raquette	Norwood		E	24057	Norwood	089	36	1928-01-01	2.0	2.2	2.2	2.2	2.2	HY	WAT		11.1		
Erie Blvd. Hydro - Lower Raquette	Raymondville		E	24057	Raymondville	089	36	1928-01-01	2.0	2.1	2.1	2.1	2.1	HY	WAT		9.2		
Erie Blvd. Hydro - Lower Raquette	Sugar Island 1		E	24057	Potsdam	089	36	1924-01-01	2.5	2.1	2.1	2.1	2.1	HY	WAT		9.4		
Erie Blvd. Hydro - Lower Raquette	Sugar Island 2		E	24057	Potsdam	089	36	1924-01-01	2.5	2.0	2.0	2.0	2.0	HY	WAT		13.0		
Erie Blvd. Hydro - Lower Raquette	Yaleville 1		E	24057	Norwood	089	36	1940-01-01	0.5	0.2	0.2	0.2	0.2	HY	WAT		1.7		
Erie Blvd. Hydro - Lower Raquette	Yaleville 2		E	24057	Norwood	089	36	1940-01-01	0.2	0.3	0.3	0.3	0.3	HY	WAT		1.3		
Erie Blvd. Hydro - North Salmon	Allens Falls		D	24042	Allens Falls	089	36	1927-01-01	4.4	5.0	5.0	5.0	5.0	HY	WAT		19.3		
Erie Blvd. Hydro - North Salmon	Chasm 1		D	24042	Chateaugay	033	36	1913-01-01	1.0	1.1	1.1	1.1	1.1	HY	WAT		6.5		

Table III-2: Existing Generating Facilities (cont'd)

Owner, Operator, and / or Billing Organization	Station	Unit	Z O N E	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(V) MW	2021 CRIS ^(A) MW		2021 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(U)		2020 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
Erie Blvd. Hydro - North Salmon	Chasm 2		D	24042	Chateaugay	033	36	1913-01-01	1.0	1.1	1.1	1.1	1.1	HY	WAT		5.1		
Erie Blvd. Hydro - North Salmon	Chasm 3		D	24042	Chateaugay	033	36	1926-01-01	1.4	1.6	1.6	1.6	1.6	HY	WAT		9.1		
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		3.7		
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		3.5		
Erie Blvd. Hydro - North Salmon	Macomb		D	24042	Malone	033	36	1940-01-01	1.0	1.1	1.1	1.1	1.1	HY	WAT		5.6		
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		17.6		
Erie Blvd. Hydro - North Salmon	Piercefield 1		D	24042	Piercefield	089	36	1957-01-01	1.5	1.6	1.6	1.6	1.6	HY	WAT		9.0		
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		2.3		
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		3.1		
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		5.6		
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		1.6		
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		2.5		
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		0.8		
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		8.6		
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		3.2		
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		28.8		
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		10.3		
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		1.3		
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	WAT		1.8		
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		3.7		
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		4.8		
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		6.6		
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		2.2		
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		1.8		
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		1.8		
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		4.6		
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		1.8		
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		7.4		
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		2.7		
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		4.2		
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		2.0		
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		3.2		
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		0.5		
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		2.6		
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		1.3		
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		0.7		
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		0.9		

Table III-2: Existing Generating Facilities (cont'd)

Owner, Operator, and / or Billing Organization	Station Unit	Z O N E	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(V) MW	2021 CRIS ^(A) MW		2021 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(U)		2020 Net ^(C) Energy GWh	Notes
				Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
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		0.4		
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		2.7		
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		2.5		
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		16.1		
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		16.3		
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		6.6		
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		7.3		
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		5.5		
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		6.1		
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		0.0		
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		7.7		
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		6.6		
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		7.3		
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		3.3		
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		2.5		
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		1.4		
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		0.5		
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		7.0		
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		4.9		
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		2.9		
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		4.0		
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		9.0		
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		6.9		
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		24.5		
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		30.3		
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		6.2		
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		10.9		
Erie Blvd. Hydro - Upper Hudson	E J West 1	F	24058	Hadley	091	36	1930-01-01	10.0	11.9	11.9	10.0	10.0	HY	WAT		29.2		
Erie Blvd. Hydro - Upper Hudson	E J West 2	F	24058	Hadley	091	36	1930-01-01	10.0	11.9	11.9	10.0	10.0	HY	WAT		33.1		
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		3.2		
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		2.5		
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		3.1		
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		2.8		
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		5.9		
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		26.2		
Erie Blvd. Hydro - Upper Hudson	Sherman Island 2	F	24058	Queensbury	113	36	1923-01-01	7.2	8.1	8.1	7.2	7.2	HY	WAT		30.4		
Erie Blvd. Hydro - Upper Hudson	Sherman Island 3	F	24058	Queensbury	113	36	1923-01-01	8.7	9.7	9.7	8.7	8.7	HY	WAT		38.9		
Erie Blvd. Hydro - Upper Hudson	Sherman Island 4	F	24058	Queensbury	113	36	1923-01-01	7.2	8.1	8.1	7.2	7.2	HY	WAT		32.6		

Table III-2: Existing Generating Facilities (cont'd)

Owner, Operator, and / or Billing Organization	Station	Unit	Z O N E	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(V) MW	2021 CRIS ^(A) MW		2021 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(U)		2020 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
Erie Blvd. Hydro - Upper Hudson	Sherman Island 5		F	24058	Queensbury	113	36	1923-01-01	7.2	8.1	8.1	7.2	7.2	HY	WAT			21.1	
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			9.7	
Erie Blvd. Hydro - Upper Hudson	Spier Falls 1		F	24058	Moreau	091	36	1924-01-01	6.8	8.4	8.4	6.8	6.8	HY	WAT			48.4	
Erie Blvd. Hydro - Upper Hudson	Spier Falls 2		F	24058	Moreau	091	36	1930-01-01	37.6	46.9	46.9	37.6	37.6	HY	WAT			160.3	
Erie Blvd. Hydro - Upper Hudson	Stewarts Bridge 1		F	24058	Hadley	091	36	1952-01-01	30.0	35.8	35.8	30.0	30.0	HY	WAT			104.1	
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			21.2	
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			45.4	
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			76.6	
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			79.1	
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			65.0	
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			75.3	
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			59.3	
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			49.6	
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			37.2	
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			30.0	
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			25.9	
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			9.4	
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			38.2	
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			26.0	
Exelon Generation Company, LLC	James A. FitzPatrick		C	23598	Scriba	075	36	1975-07-01	882.0	858.9	858.9	842.9	849.0	NB	UR			6,598.7	
Exelon Generation Company, LLC	Madison County LF		E	323628	Wampsville	053	36	2010-03-01	1.6	1.6	1.6	1.6	1.6	IC	MTE			5.5	
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			53.5	
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			26.4	
Exelon Generation Company, LLC	Synergy Biogas		B	323694	Wyoming	121	36	2012-09-01	2.0	2.0	2.0	0.0	0.0	IC	MTE			0.0	
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			202.3	
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			538.9	
Freeport Electric	Freeport 1-2		K	1660	Freeport	059	36	1949-08-01	2.9	2.0	2.0	0.0	0.0	IC	F02			0.0	
Freeport Electric	Freeport 1-3		K	1660	Freeport	059	36	1954-08-01	3.1	2.1	2.1	0.0	0.0	IC	F02			0.0	
Freeport Electric	Freeport 1-4		K	1660	Freeport	059	36	1964-10-01	5.1	4.4	4.4	0.0	0.0	IC	F02			0.0	
Freeport Electric	Freeport 2-3		K	1660	Freeport	059	36	1973-05-01	18.1	18.1	18.1	0.0	0.0	GT	KER			0.1	
Freeport Electric	Freeport CT 2		K	23818	Freeport	059	36	2004-03-01	60.5	50.3	50.3	46.1	49.4	YES	GT	NG	KER	10.1	
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				
GenOn Energy Management, LLC	Bowline 1		G	23526	West Haverstraw	087	36	1972-09-01	621.0	577.7	577.7	586.0	593.2	YES	ST	NG	F06	427.9	
GenOn Energy Management, LLC	Bowline 2		G	23595	West Haverstraw	087	36	1974-05-01	621.0	567.4	567.4	573.6	568.8	YES	ST	NG	F06	232.5	
Gravity Renewables, Inc.	Dahowa Hydroelectric		F	323763	Middle Falls	115	36	1987-12-01	10.5	10.5	10.5	10.5	10.5	HY	WAT			18.2	
Gravity Renewables, Inc.	LaChute		F	323717	Ticonderoga	031	36	1987-12-01	9.0	8.9	8.9	9.0	9.0	HY	WAT			27.9	
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			68.8	
Helix Ravenswood, LLC	Ravenswood 01		J	23729	Queens	081	36	1967-07-01	18.6	8.8	11.5	7.7	9.4	GT	NG			0.3	

Table III-2: Existing Generating Facilities (cont'd)

Owner, Operator, and / or Billing Organization	Station	Unit	Z O N E	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(V) MW	2021 CRIS ^(A) MW		2021 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(U)		2020 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
Helix Ravenswood, LLC	Ravenswood 10		J	24258	Queens	081	36	1970-08-01	25.0	21.2	27.0	16.0	21.8	YES	JE	KER	NG	1.6	
Helix Ravenswood, LLC	Ravenswood 11		J	24259	Queens	081	36	1970-08-01	25.0	20.2	25.7	16.1	22.2	YES	JE	KER	NG	1.9	
Helix Ravenswood, LLC	Ravenswood CC 04		J	23820	Queens	081	36	2004-05-01	250.0	231.2	276.7	232.5	279.7	YES	CC	NG	F02	1,446.8	
Helix Ravenswood, LLC	Ravenswood ST 01		J	23533	Queens	081	36	1963-02-01	400.0	365.1	365.1	372.3	375.0	YES	ST	F06	NG	299.4	
Helix Ravenswood, LLC	Ravenswood ST 02		J	23534	Queens	081	36	1963-05-01	400.0	391.6	391.6	377.5	378.5	YES	ST	F06	NG	195.0	
Helix Ravenswood, LLC	Ravenswood ST 03		J	23535	Queens	081	36	1965-06-01	1,027.0	986.8	986.8	980.3	989.5	YES	ST	F06	NG	130.7	
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		126.0	
Indeck Energy Services of Silver Springs	Indeck-Silver Springs		C	23768	Silver Springs	121	36	1991-04-01	56.6	51.5	66.1	51.9	62.3	YES	CC	NG	F02	46.4	
Indeck-Corinth LP	Indeck-Corinth		F	23802	Corinth	091	36	1995-07-01	147.0	131.2	134.0	130.3	135.4	YES	CC	NG	F02	384.3	
Indeck-Olean LP	Indeck-Olean		A	23982	Olean	009	36	1993-12-01	90.6	79.4	88.5	78.2	86.2	YES	CC	NG	F02	76.7	
Indeck-Oswego LP	Indeck-Oswego		C	23783	Oswego	075	36	1990-05-01	57.4	51.6	66.7	49.7	58.2	YES	CC	NG	F02	19.7	
Indeck-Yerkes LP	Indeck-Yerkes		A	23781	Tonawanda	029	36	1990-02-01	59.9	49.7	60.5	47.4	57.1	YES	CC	NG	F02	23.4	
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		33.2	
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		35.5	
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		29.8	
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		30.9	
Innovative Energy Systems, Inc.	Fulton LFGE		F	323630	Johnstown	035	36	2010-06-04	3.2	3.2	3.2	0.0	0.0		IC	MTE		13.4	
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		36.4	
Jamestown Board of Public Utilities	Jamestown 5		A	1658	Jamestown	013	36	1951-08-01	28.7	23.0	23.0	18.7	20.3		ST	NG		2.3	
Jamestown Board of Public Utilities	Jamestown 6		A	1658	Jamestown	013	36	1968-08-01	25.0	22.4	22.4	18.0	20.0		ST	NG		4.6	
Jamestown Board of Public Utilities	Jamestown 7		A	1659	Jamestown	013	36	2002-01-01	47.3	40.0	40.0	41.0	46.0		GT	NG		68.1	
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		225.9	
LI Energy Storage System, LLC	East Hampton Battery Storage		K	5066	East Hampton	103	36	2018-08-01	5.0	5.0	5.0	0.0	0.0		ES	BAT			
LI Energy Storage System, LLC	Montauk Battery Storage		K	5068	Montauk	103	36	2018-10-01	5.0	5.0	5.0	0.0	0.0		ES	BAT			
Long Island Power Authority	Babylon (RR)		K	323704	Babylon	103	36	1989-04-01	17.0	15.5	15.5	14.7	14.7		ST	REF		116.1	
Long Island Power Authority	Barrett 03		K	23706	Island Park	059	36	1970-06-01	18.0	17.9	23.4	16.7	19.5	YES	GT	NG	F02	4.5	
Long Island Power Authority	Barrett 04		K	23707	Island Park	059	36	1970-07-01	18.0	17.7	23.1	17.4	20.1	YES	GT	NG	F02	4.8	
Long Island Power Authority	Barrett 05		K	23708	Island Park	059	36	1970-07-01	18.0	17.8	23.3	14.6	20.0	YES	GT	NG	F02	1.2	
Long Island Power Authority	Barrett 06		K	23709	Island Park	059	36	1970-07-01	18.0	17.8	23.3	17.3	19.9	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	15.9	18.1	YES	GT	NG	F02	4.0	
Long Island Power Authority	Barrett 09		K	23700	Island Park	059	36	1971-06-01	41.8	43.4	55.2	40.3	48.8	YES	JE	NG	F02	13.2	
Long Island Power Authority	Barrett 10		K	23701	Island Park	059	36	1971-06-01	41.8	42.7	54.3	40.2	49.6	YES	JE	NG	F02	11.7	
Long Island Power Authority	Barrett 11		K	23702	Island Park	059	36	1971-06-01	41.8	43.3	55.1	40.1	49.6	YES	JE	NG	F02	22.2	
Long Island Power Authority	Barrett 12		K	23703	Island Park	059	36	1971-06-01	41.8	44.0	56.0	38.9	49.0	YES	JE	NG	F02	13.8	
Long Island Power Authority	Barrett GT 01		K	23704	Island Park	059	36	1970-06-01	18.0	18.1	23.6	18.1	20.7	YES	GT	NG	F02	7.5	
Long Island Power Authority	Barrett GT 02		K	23705	Island Park	059	36	1970-06-01	18.0	17.4	22.7	17.7	20.3	YES	GT	NG	F02	9.1	
Long Island Power Authority	Barrett ST 01		K	23545	Island Park	059	36	1956-11-01	188.0	200.2	200.2	192.7	198.7	YES	ST	NG	F06	693.4	
Long Island Power Authority	Barrett ST 02		K	23546	Island Park	059	36	1963-10-01	188.0	197.5	197.5	184.7	182.0	YES	ST	NG	F06	593.5	

Table III-2: Existing Generating Facilities (cont'd)

Owner, Operator, and / or Billing Organization	Station	Unit	Z O N E	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(V) MW	2021 CRIS ^(A) MW		2021 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(U)		2020 Net Energy ^(C) GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
Long Island Power Authority	Bethpage 3		K	323564	Hicksville	059	36	2005-05-01	96.0	79.9	91.4	76.7	79.3		CC	NG		215.5	
Long Island Power Authority	Caitness_CC_1		K	323624	Brookhaven	103	36	2009-08-01	375.0	315.6	389.8	317.3	365.4	YES	CC	NG	F02	2,171.3	
Long Island Power Authority	East Hampton 2		K	23722	E Hampton	103	36	1962-12-01	2.0	2.0	2.0	2.2	2.0		IC	F02		1.0	
Long Island Power Authority	East Hampton 3		K	23722	E Hampton	103	36	1962-12-01	2.0	2.0	2.0	2.2	2.0		IC	F02		0.8	
Long Island Power Authority	East Hampton 4		K	23722	E Hampton	103	36	1962-12-01	2.0	2.0	2.0	2.2	2.0		IC	F02		1.0	
Long Island Power Authority	East Hampton GT 01		K	23717	E Hampton	103	36	1970-12-01	21.3	19.2	24.4	18.3	24.1		JE	F02		13.1	
Long Island Power Authority	Glenwood GT 01		K	23712	Glenwood	059	36	1967-04-01	16.0	14.6	19.1	13.0	15.3		GT	F02		0.1	
Long Island Power Authority	Glenwood GT 02		K	23688	Glenwood	059	36	1972-06-01	55.0	52.7	68.8	50.3	64.2		GT	F02		0.7	
Long Island Power Authority	Glenwood GT 03		K	23689	Glenwood	059	36	1972-06-01	55.0	54.7	71.5	53.1	68.1		GT	F02		0.5	
Long Island Power Authority	Glenwood GT 04		K	24219	Glenwood	059	36	2002-06-01	53.0	42.3	50.0	42.1	46.1	YES	GT	NG	F02	63.6	
Long Island Power Authority	Glenwood GT 05		K	24220	Glenwood	059	36	2002-06-01	53.0	42.0	49.6	42.4	47.2	YES	GT	NG	F02	42.8	
Long Island Power Authority	Greenport GT1		K	23814	Greenport	103	36	2003-07-02	54.0	51.9	52.4	54.3	58.3		JE	F02		51.8	
Long Island Power Authority	Hempstead (RR)		K	23647	Hempstead	059	36	1989-10-01	78.6	73.7	73.7	74.4	76.8		ST	REF		593.7	
Long Island Power Authority	Holtsville 01		K	23690	Holtsville	103	36	1974-07-01	56.7	56.7	72.1	59.3	65.6		JE	F02		10.6	
Long Island Power Authority	Holtsville 02		K	23691	Holtsville	103	36	1974-07-01	56.7	55.3	70.3	57.2	65.0		JE	F02		1.5	
Long Island Power Authority	Holtsville 03		K	23692	Holtsville	103	36	1974-07-01	56.7	52.1	66.3	51.4	64.9		JE	F02		4.5	
Long Island Power Authority	Holtsville 04		K	23693	Holtsville	103	36	1974-07-01	56.7	52.7	67.0	54.8	65.5		JE	F02		4.1	
Long Island Power Authority	Holtsville 05		K	23694	Holtsville	103	36	1974-07-01	56.7	55.3	70.3	56.7	63.1		JE	F02		1.5	
Long Island Power Authority	Holtsville 06		K	23695	Holtsville	103	36	1975-07-01	56.7	53.0	67.4	50.2	66.2		JE	F02		8.4	
Long Island Power Authority	Holtsville 07		K	23696	Holtsville	103	36	1975-07-01	56.7	55.1	70.1	54.0	64.1		JE	F02		4.0	
Long Island Power Authority	Holtsville 08		K	23697	Holtsville	103	36	1975-07-01	56.7	57.4	73.0	53.6	66.9		JE	F02		5.3	
Long Island Power Authority	Holtsville 09		K	23698	Holtsville	103	36	1975-07-01	56.7	57.5	73.1	52.6	65.1		JE	F02		5.5	
Long Island Power Authority	Holtsville 10		K	23699	Holtsville	103	36	1975-07-01	56.7	55.1	70.1	50.6	63.9		JE	F02		1.7	
Long Island Power Authority	Huntington (RR)		K	323705	Huntington	103	36	1991-12-01	28.0	24.7	24.7	24.5	24.6		ST	REF		193.3	
Long Island Power Authority	Islip (RR)		K	323679	Ronkonkoma	103	36	1990-03-01	12.5	11.2	11.2	8.0	8.4		ST	REF		55.2	
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		48.5	
Long Island Power Authority	Northport 1		K	23551	Northport	103	36	1967-07-01	387.0	395.0	395.0	398.0	391.7	YES	ST	NG	F06	686.1	
Long Island Power Authority	Northport 2		K	23552	Northport	103	36	1968-06-01	387.0	396.0	396.0	390.5	395.2	YES	ST	NG	F06	269.1	
Long Island Power Authority	Northport 3		K	23553	Northport	103	36	1972-07-01	387.0	399.2	399.2	397.2	374.3	YES	ST	NG	F06	790.7	
Long Island Power Authority	Northport 4		K	23650	Northport	103	36	1977-12-01	387.0	399.2	399.2	389.5	399.0	YES	ST	NG	F06	1,204.7	
Long Island Power Authority	Northport GT		K	23718	Northport	103	36	1967-03-01	16.0	13.8	18.0	11.9	15.6		GT	F02		0.0	
Long Island Power Authority	Oceanside (LF)		K	5008	Oceanside	059	36	1991-02-01	2.1	1.1	1.1	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			
Long Island Power Authority	Pilgrim GT1		K	24216	Brentwood	103	36	2002-08-01	50.0	45.6	45.6	42.2	44.2		GT	NG		42.9	
Long Island Power Authority	Pilgrim GT2		K	24217	Brentwood	103	36	2002-08-01	50.0	46.2	46.2	41.8	44.6		GT	NG		38.7	
Long Island Power Authority	Pinelawn Power 1		K	323563	Babylon	103	36	2005-06-01	82.0	78.0	78.0	73.5	77.0	YES	CC	NG	KER	130.6	
Long Island Power Authority	Port Jefferson 3		K	23555	Port Jefferson	103	36	1958-11-01	188.0	194.5	194.5	196.5	189.0	YES	ST	F06	NG	280.8	
Long Island Power Authority	Port Jefferson 4		K	23616	Port Jefferson	103	36	1960-11-01	188.0	198.7	198.7	192.7	194.5	YES	ST	F06	NG	188.8	

Table III-2: Existing Generating Facilities (cont'd)

Owner, Operator, and / or Billing Organization	Station Unit	Z O N E	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(V) MW	2021 CRIS ^(A) MW		2021 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(U)		2020 Net ^(C) Energy GWh	Notes
				Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
Long Island Power Authority	Port Jefferson GT 01	K	23713	Port Jefferson	103	36	1966-12-01	16.0	14.1	18.4	12.7	17.5		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	41.6	47.0	YES	GT	NG	F02	40.2	
Long Island Power Authority	Port Jefferson GT 03	K	24211	Port Jefferson	103	36	2002-07-01	53.0	43.1	50.9	40.1	45.8	YES	GT	NG	F02	40.2	
Long Island Power Authority	S Hampton 1	K	23720	South Hampton	103	36	1963-03-01	11.5	10.3	13.5	8.3	11.2		GT	F02		1.2	
Long Island Power Authority	Shoreham 1	K	23715	Shoreham	103	36	1971-07-01	52.9	48.9	63.9	42.7	65.5		GT	F02		1.2	
Long Island Power Authority	Shoreham 2	K	23716	Shoreham	103	36	1984-04-01	18.6	18.5	23.5	15.7	20.4		JE	F02		0.0	
Long Island Power Authority	Shoreham GT3	K	24213	Shoreham	103	36	2002-08-01	50.0	45.4	45.4	43.3	46.1		GT	F02		18.0	
Long Island Power Authority	Shoreham GT4	K	24214	Shoreham	103	36	2002-08-01	50.0	43.9	43.9	42.7	47.0		GT	F02		17.7	
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			
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			
Long Island Power Authority	Southold 1	K	23719	Southold	103	36	1964-08-01	14.0	12.3	16.1	9.9	13.1		GT	F02		2.4	
Long Island Power Authority	Wading River 1	K	23522	Shoreham	103	36	1989-08-01	79.5	81.2	106.1	76.3	100.7		GT	F02		12.5	
Long Island Power Authority	Wading River 2	K	23547	Shoreham	103	36	1989-08-01	79.5	81.3	106.2	76.3	98.2		GT	F02		7.3	
Long Island Power Authority	Wading River 3	K	23601	Shoreham	103	36	1989-08-01	79.5	81.3	106.2	76.2	98.3		GT	F02		16.7	
Long Island Power Authority	West Babylon 4	K	23714	West Babylon	103	36	1971-08-01	52.4	49.0	64.0	41.2	63.4		GT	F02		1.6	
Long Island Power Authority	Yaphank (LF)	K	5012	Yaphank	103	36	1983-09-01	1.6	1.5	1.5	0.0	0.0		IC	MTE			
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		17.1	
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		488.0	
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		19.0	
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		36.6	
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		34.1	
MPH Rockaway Peakers, LLC	Far Rockaway GT1	K	24212	Far Rockaway	081	36	2002-07-01	60.5	53.5	73.1	54.3	57.8		JE	NG		88.1	
MPH Rockaway Peakers, LLC	Far Rockaway GT2	K	23815	Jamaica Bay	081	36	2003-07-02	60.5	55.4	75.7	53.9	53.7	YES	JE	NG	F02	20.5	
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		3.5	
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		3.2	
New York Power Authority	Astoria CC 1	J	323568	Queens	081	36	2006-01-01	288.0	246.2	270.2	240.8	270.2	YES	CC	NG	F02	2,528.8	(G)
New York Power Authority	Astoria CC 2	J	323569	Queens	081	36	2006-01-01	288.0	246.2	270.2	240.8	270.2	YES	CC	NG	F02		
New York Power Authority	Gilboa 1	F	23756	Gilboa NY	095	36	1973-07-01	290.0	290.7	290.7	291.8	290.7		PS	WAT		24.1	
New York Power Authority	Gilboa 2	F	23757	Gilboa NY	095	36	1973-07-01	290.0	291.2	291.2	291.3	292.7		PS	WAT		136.4	
New York Power Authority	Gilboa 3	F	23758	Gilboa NY	095	36	1973-07-01	290.0	291.7	291.7	291.9	290.8		PS	WAT		75.3	
New York Power Authority	Gilboa 4	F	23759	Gilboa NY	095	36	1973-07-01	290.0	291.5	291.5	291.8	292.5		PS	WAT		35.9	
New York Power Authority	Brentwood	K	24164	Brentwood	103	36	2001-08-01	47.0	47.1	47.1	46.0	46.0		GT	NG		81.9	
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		13.9	
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		12.9	
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		14.5	
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	Flynn	K	23794	Holtsville	103	36	1994-05-01	170.0	135.5	168.4	141.5	166.6	YES	CC	NG	F02	564.0	
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		44.2	

Table III-2: Existing Generating Facilities (cont'd)

Owner, Operator, and / or Billing Organization	Station	Unit	Z O N E	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(V) MW	2021 CRIS ^(A) MW		2021 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(U)		2020 Net ^(C) 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	GT	NG		60.8		
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		88.0		
New York Power Authority	Greenport IC 4		K	1652	Greenport	103	36	1957-06-06	1.2	1.7	1.7	0.0	0.0	IC	FO2		0.0		
New York Power Authority	Greenport IC 5		K	1652	Greenport	103	36	1965-07-08	1.8	1.7	1.7	0.0	0.0	IC	FO2		0.0		
New York Power Authority	Greenport IC 6		K	1652	Greenport	103	36	1971-09-17	3.8	2.7	2.7	0.0	0.0	IC	FO2		0.0		
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		35.0		
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		22.6		
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		35.5		
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		26.2		
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		11.5		
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		10.1		
New York Power Authority	Kent		J	24152	Brooklyn	047	36	2001-08-01	47.0	46.9	46.9	46.0	46.0	GT	NG		48.7		
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		363.8		
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		17,492.4		
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		23.1		
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		61.6		
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	810.0	HY	WAT		7,814.7		
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		38.5		
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		28.5		
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		14.0		
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		13.1		
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		16.8		
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		1.6		
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				
New York State Elec. & Gas Corp.	Alice Falls 1		D	23915	Ausable	019	36	1991-11-01	1.5	1.6	1.6	0.0	0.0	HY	WAT				
New York State Elec. & Gas Corp.	Alice Falls 2		D	23915	Ausable	019	36	1991-11-01	0.6	0.6	0.6	0.0	0.0	HY	WAT				
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		184.6	(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				
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				
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				
New York State Elec. & Gas Corp.	Broome LFGE		C	323600	Binghamton	007	36	2007-09-01	2.4	2.1	2.1	2.4	2.4	IC	MTE		12.2		
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		86.4	(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.	Chasm Falls Hydro		D	5016	Chateaugay	033	36	1982-03-01	1.6	0.0	0.0	0.0	0.0	HY	WAT				
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				
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	FO2				
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				

Table III-2: Existing Generating Facilities (cont'd)

Owner, Operator, and / or Billing Organization	Station	Unit	Z O N E	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(V) MW	2021 CRIS ^(A) MW		2021 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(U)		2020 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
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				
New York State Elec. & Gas Corp.	Lower Saranac 1		D	23913	Schuyler Falls	019	36	1990-10-01	3.2	3.5	3.5	0.0	0.0	HY	WAT		0.0		(G)
New York State Elec. & Gas Corp.	Lower Saranac 2		D	23913	Schuyler Falls	019	36	1990-10-01	3.2	3.5	3.5	0.0	0.0	HY	WAT				
New York State Elec. & Gas Corp.	Lower Saranac 3		D	23913	Schuyler Falls	019	36	1990-10-01	0.3	2.9	2.9	0.0	0.0	HY	WAT				
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		30.0		(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 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.	Montville Falls		C	5019	Moravia	011	36	1992-08-01	0.2	0.0	0.0	0.0	0.0	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				
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				
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				
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				
Niagara Mohawk Power Corp.	Boralex - Hudson Falls		F	24011	Hudson Falls	115	36	1995-10-01	44.0	43.7	43.7	0.0	0.0	HY	WAT		191.6		
Niagara Mohawk Power Corp.	Boralex - South Glens Falls		F	24028	Moreau	091	36	1994-12-01	13.8	14.8	14.8	0.0	0.0	HY	WAT		68.9		
Niagara Mohawk Power Corp.	Fortis - Dolgeville		E	23807	Dolgeville	043	36	1985-07-01	5.0	6.3	6.3	0.0	0.0	HY	WAT		2.0		
Niagara Mohawk Power Corp.	Fortis Energy - Philadelphia		E	1656	Philadelphia	045	36	1986-08-01	3.6	3.2	3.2	0.0	0.0	HY	WAT		6.8		
Niagara Mohawk Power Corp.	Fortis Energy - Moose River		E	24016	Lyonsdale	049	36	1987-09-01	12.6	12.0	12.0	0.0	0.0	HY	WAT		39.8		
Niagara Mohawk Power Corp.	General Mills Inc		A	23808	Buffalo	029	36	1988-12-01	3.8	3.8	3.8	0.0	0.0	GT	NG		0.0		
Niagara Mohawk Power Corp.	International Paper - Curtis		F	1655	Corinth	091	36	1986-01-01	9.8	30.8	30.8	0.0	0.0	HY	WAT		299.6		(G)
Niagara Mohawk Power Corp.	International Paper - Palmer		F	1655	Corinth	091	36	1986-01-01	49.2	30.8	30.8	0.0	0.0	HY	WAT				
Niagara Mohawk Power Corp.	Little Falls Hydro		E	24013	Little Falls	043	36	1987-01-01	13.0	12.6	12.6	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	32.6	32.6	0.0	0.0	ST	REF		0.0		
Niagara Mohawk Power Corp.	Pyrites Assoc.		E	24023	Canton	089	36	1985-12-01	8.2	7.5	7.5	0.0	0.0	HY	WAT		0.0		
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.	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.	Azure Mountain		D	24055	St. Regis Falls	033	36	1993-08-01	0.6	0.0	0.0	0.0	0.0	HY	WAT		0.2		
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		3.9		
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		7.3		
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		

Table III-2: Existing Generating Facilities (cont'd)

Owner, Operator, and / or Billing Organization	Station	Unit	Z O N E	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(V) MW	2021 CRIS ^(A) MW		2021 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(U)		2020 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 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		2.6		
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		0.8		
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		4.7		
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		11.2		
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		0.8		
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		0.0		
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.	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		9.1		
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		2.2		
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		1.8		
Niagara Mohawk Power Corp.	C.H.I. (Hailsboro #3)		E	23633	Hailsboro	089	36	1986-01-01	0.8	0.0	0.0	0.0	0.0	HY	WAT		3.0		
Niagara Mohawk Power Corp.	C.H.I. (Hailsboro #4)		E	23633	Hailsboro	089	36	1986-01-01	1.4	0.0	0.0	0.0	0.0	HY	WAT		8.0		
Niagara Mohawk Power Corp.	C.H.I. (Hailsboro #6)		E	23633	Hailsboro	089	36	1986-01-01	0.8	0.0	0.0	0.0	0.0	HY	WAT		3.9		
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		4.7		
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.	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.	Champlain Spinner		F	23643	Whitehall	031	36	1992-07-01	0.4	0.0	0.0	0.0	0.0	HY	WAT		0.9		
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 Oswego (High Dam)		C	23634	Oswego	075	36	1994-02-01	11.9	0.0	0.0	0.0	0.0	HY	WAT		18.9		
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		0.6		
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		9.2		
Niagara Mohawk Power Corp.	City of Watervliet Hydro		F	23643	Guiderland	001	36	1986-01-01	1.5	0.0	0.0	0.0	0.0	HY	WAT		1.5		
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		5.8		
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		8.1		
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.	Cranberry Lake		E	23633	Cranberry Lake	049	36	1987-12-01	0.5	0.0	0.0	0.0	0.0	HY	WAT		0.9		
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		0.6		
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		4.3		
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		1.1		
Niagara Mohawk Power Corp.	Finch Pruy		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.	Forestport Hydro		E	23633	Forestport	065	36	1987-12-01	3.4	0.0	0.0	0.0	0.0	HY	WAT		0.9		
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		21.1		
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		5.3		
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.	Gloversville Johnstown WWT		F	23643	Gloversville	035	36	2010-01-01	0.7	0.0	0.0	0.0	0.0	IC	MTE		1.3		
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		38.4		

Table III-2: Existing Generating Facilities (cont'd)

Owner, Operator, and / or Billing Organization	Station	Unit	Z O N E	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(V) MW	2021 CRIS ^(A) MW		2021 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(U)		2020 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 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		11.6		
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		0.0		
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		0.5		
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.	Hollow Dam Power		E	23633	Saint Lawrence	089	36	1987-12-01	1.0	0.0	0.0	0.0	0.0	HY	WAT		2.5		
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.	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.	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		
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	WAT		0.0		
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.	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.	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		8.9		
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		21.0		
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		6.4		
Niagara Mohawk Power Corp.	Mountaineire Massage Spa		F	23643	Wevertown	113	36	2009-11-01		0.0	0.0	0.0	0.0	HY	WAT		0.0		
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		5.4		
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		16.3		
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.	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.	Ogdensburg Hydro		E	23633	Ogdensburg	089	36	1987-12-01	3.5	0.0	0.0	0.0	0.0	HY	WAT		7.6		
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		5.7		
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		10.3		
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.	Sandy Hollow Hydro Assoc.		E	23633	Philadelphia	045	36	1986-09-01	0.6	0.0	0.0	0.0	0.0	HY	WAT		0.3		
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.	St. Elizabeth Medical Center		E	23633	Utica	065	36	2012-02-01	0.6	0.0	0.0	0.0	0.0	IC	NG		0.1		
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		3.4		
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		13.1		
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		12.8		
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		0.9		
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 - Union Falls		D	24055	Union Falls	019	36	1987-12-01	3.0	0.0	0.0	0.0	0.0	HY	WAT		9.3		
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.	Tannery Island		E	23633	Carthage	045	36	1986-01-01	1.5	0.0	0.0	0.0	0.0	HY	WAT		5.5		
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		1.2		

Table III-2: Existing Generating Facilities (cont'd)

Owner, Operator, and / or Billing Organization	Station	Unit	Z O N E	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(V) MW	2021 CRIS ^(A) MW		2021 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(U)		2020 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
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.	Unionville Hydro		E	23633	Potsdam	089	36	1984-07-01	3.0	0.0	0.0	0.0	0.0	HY	WAT		10.7		
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		
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		0.0		
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		6.6		
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		
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.	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 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		10.8		
Nine Mile Point Nuclear Station, LLC	Nine Mile Point 1		C	23575	Scriba	075	36	1969-11-01	641.8	630.5	630.5	630.6	635.0	NB	UR		5,463.9		
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	1,288.9	1,300.5	NB	UR		10,174.1		
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		13.6		
Northbrook Lyons Falls, LLC	Lyons Falls Hydro (BTM:NG)		E	23570	Lyons Falls	049	36	1986-01-01	8.6	7.3	7.3	0.0	0.0	HY	WAT		18.9	(6) (E)	
NRG Power Marketing LLC	Arthur Kill GT 1		J	23520	Staten Island	085	36	1970-06-01	20.0	16.5	21.6	12.2	15.8	GT	NG		0.5		
NRG Power Marketing LLC	Arthur Kill ST 2		J	23512	Staten Island	085	36	1959-08-01	376.2	357.7	357.7	339.6	344.2	ST	NG		506.5		
NRG Power Marketing LLC	Arthur Kill ST 3		J	23513	Staten Island	085	36	1969-06-01	535.5	518.0	518.0	514.6	522.5	ST	NG		363.4		
NRG Power Marketing LLC	Astoria GT 2-1		J	24094	Queens	081	36	1970-06-01	46.5	41.2	50.7	35.1	44.9	YES	JE	KER	NG	2.0	
NRG Power Marketing LLC	Astoria GT 2-2		J	24095	Queens	081	36	1970-06-01	46.5	42.4	52.2	34.6	45.5	YES	JE	KER	NG	0.6	
NRG Power Marketing LLC	Astoria GT 2-3		J	24096	Queens	081	36	1970-06-01	46.5	41.2	50.7	35.8	45.9	YES	JE	KER	NG	1.6	
NRG Power Marketing LLC	Astoria GT 2-4		J	24097	Queens	081	36	1970-06-01	46.5	41.0	50.5	34.9	45.4	YES	JE	KER	NG	1.3	
NRG Power Marketing LLC	Astoria GT 3-1		J	24098	Queens	081	36	1970-06-01	46.5	41.2	50.7	34.8	45.0	YES	JE	KER	NG	0.6	
NRG Power Marketing LLC	Astoria GT 3-2		J	24099	Queens	081	36	1970-06-01	46.5	43.5	53.5	35.7	44.4	YES	JE	KER	NG	1.6	
NRG Power Marketing LLC	Astoria GT 3-3		J	24100	Queens	081	36	1970-06-01	46.5	43.0	52.9	35.6	45.2	YES	JE	KER	NG	2.1	
NRG Power Marketing LLC	Astoria GT 3-4		J	24101	Queens	081	36	1970-06-01	46.5	43.0	52.9	36.2	46.2	YES	JE	KER	NG	1.2	
NRG Power Marketing LLC	Astoria GT 4-1		J	24102	Queens	081	36	1970-07-01	46.5	42.6	52.4	32.9	44.3	YES	JE	KER	NG	2.7	
NRG Power Marketing LLC	Astoria GT 4-2		J	24103	Queens	081	36	1970-07-01	46.5	41.4	51.0	33.6	44.5	YES	JE	KER	NG	2.0	
NRG Power Marketing LLC	Astoria GT 4-3		J	24104	Queens	081	36	1970-07-01	46.5	41.1	50.6	33.7	45.3	YES	JE	KER	NG	2.1	
NRG Power Marketing LLC	Astoria GT 4-4		J	24105	Queens	081	36	1970-07-01	46.5	42.8	52.7	33.5	44.3	YES	JE	KER	NG	2.0	
NRG Power Marketing LLC	Oswego 5		C	23606	Oswego	075	36	1976-02-01	901.8	850.3	850.3	761.7	821.5	ST	F06		11.6		
NRG Power Marketing LLC	Oswego 6		C	23613	Oswego	075	36	1980-07-01	901.8	835.2	835.2	802.7	820.5	YES	ST	F06	NG	11.1	
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				
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				
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				
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				
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	F02		
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				

Table III-2: Existing Generating Facilities (cont'd)

Owner, Operator, and / or Billing Organization	Station	Unit	Z O N E	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(V) MW	2021 CRIS ^(A) MW		2021 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(U)		2020 Net Energy ^(C) GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
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				
PSEG Energy Resource & Trade, LLC	Bethlehem Energy Center		F	323570	Bethlehem	001	36	2005-07-01	893.1	835.0	924.8	815.5	926.1	YES	CC	NG	F02	4,975.7	
R.E. Ginna Nuclear Power Plant, LLC	R. E. Ginna		B	23603	Ontario	117	36	1970-07-01	614.0	582.0	582.0	579.6	581.4	NP	UR			4,332.4	
ReEnergy Black River LLC	Fort Drum		E	23780	Watertown	045	36	2013-05-30	55.5	55.6	55.6	0.0	0.0	ST	WD			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				
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				
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			3.5	(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				
Rockville Centre, Village of	Charles P Keller 07		K	1661	Rockville Centre	059	36	1942-09-01	2.0	2.0	2.0	0.0	0.0	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	3.5	3.5	YES	IC	F02	NG	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	3.5	3.5	YES	IC	F02	NG	0.1	
Rockville Centre, Village of	Charles P Keller 11		K	1661	Rockville Centre	059	36	1962-09-01	5.2	5.2	5.2	5.2	5.2	YES	IC	F02	NG	0.1	
Rockville Centre, Village of	Charles P Keller 12		K	1661	Rockville Centre	059	36	1967-09-01	5.5	5.5	5.5	5.5	5.5	YES	IC	F02	NG	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	5.5	5.5	YES	IC	F02	NG	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	6.2	6.2	YES	IC	F02	NG	0.7	
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			84.7	
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			108.1	(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 Falls Power Corp.	Seneca Falls 1		C	23627	Seneca Falls	099	36	1998-06-01	1.8	1.6	1.6	0.0	0.0	HY	WAT			0.0	
Seneca Falls Power Corp.	Seneca Falls 2		C	23627	Seneca Falls	099	36	1998-06-01	1.8	1.6	1.6	0.0	0.0	HY	WAT			0.0	
Seneca Falls Power Corp.	Seneca Falls 4		C	23627	Seneca Falls	099	36	1998-06-01	2.0	1.8	1.8	0.0	0.0	HY	WAT			0.0	
Seneca Power Partners, L.P.	Allegany		B	23514	Hume	003	36	1995-03-01	67.0	62.9	82.2	61.6	62.7	CC	NG			17.7	
Seneca Power Partners, L.P.	Batavia		B	24024	Batavia	037	36	1992-06-01	67.3	57.1	71.7	48.5	59.3	CC	NG			6.9	
Seneca Power Partners, L.P.	Carthage Energy		E	23857	Carthage	045	36	1991-08-01	62.9	59.0	70.6	57.0	64.6	YES	CC	NG	F02	4.6	
Seneca Power Partners, L.P.	Hillburn GT		G	23639	Hillburn	087	36	1971-04-01	46.5	37.9	51.8	35.7	45.6	YES	JE	NG	KER	0.2	
Seneca Power Partners, L.P.	Massena		D	23902	Massena	089	36	1992-07-01	102.1	82.2	107.9	78.4	92.3	YES	CC	NG	F02	1.3	
Seneca Power Partners, L.P.	Shoemaker GT		G	23640	Middletown	071	36	1971-05-01	41.9	33.1	45.2	32.8	39.5	YES	JE	NG	KER	0.1	
Seneca Power Partners, L.P.	Sterling		E	23777	Sherrill	065	36	1991-06-01	65.3	57.4	72.1	49.2	62.2	CC	NG			4.3	
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			258.7	
Shoreham Solar Commons LLC	Shoreham Solar		K	323752	East Shoreham	103	36	2018-07-01	25.0	24.9	24.9	0.0	0.0	PV	SUN				
Somerset Operating Company, LLC	Somerset		A	23543	Somerset	063	36	1984-08-01	655.1	686.5	686.5	0.0	0.0	ST	BIT			145.9	(3) (R)
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			0.0	
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			281.6	
Tenaska Power Services Co.	Freeport CT 1		K	23764	Freeport	059	36	2004-06-01	60.0	48.3	51.3	45.9	48.5	YES	GT	NG	F02	58.8	
TransAlta Energy Marketing (U.S.) Inc.	Saranac Energy		D	23793	Plattsburgh	019	36	1994-06-01	285.6	253.7	298.4	242.0	280.2	CC	NG			34.2	

Table III-2: Existing Generating Facilities (cont'd)

Owner, Operator, and / or Billing Organization	Station	Unit	Z O N E	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(V) MW	2021 CRIS ^(A) MW		2021 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(U)		2020 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
Triton Power Company	Chateaugay High Falls		D	323578	Chateaugay	033	36	1987-12-01	1.7	1.7	1.7	0.0	0.0	HY	WAT			1.4	
Valcour 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			184.6	
Valcour 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			196.3	
Valcour 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			207.0	
Valcour 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			175.9	
Valcour 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			167.2	
Valcour 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			264.7	
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			1.0	
Wheelabrator Hudson Falls, LLC	Wheelabrator Hudson Falls		F	23798	Hudson Falls	115	36	1991-10-01	14.4	12.7	12.7	10.4	10.4	ST	REF			75.0	
Wheelabrator Westchester, LP	Wheelabrator Westchester		H	23653	Peekskill	119	36	1984-04-01	59.7	53.5	53.5	51.6	52.6	ST	REF			369.9	
									45,557.8	41,627.4	44,713.4	38,670.4	41,172.0					131,461.6	

Notes for Table III-2

Note	Owner / Operator	Station Unit	Zone	PTID	Description
1	Astoria Generating Company L.P.	Gowanus 1-8	J	24113	Unit entered an ICAP Ineligible Forced Outage on 02/01/2021
2	Entergy Nuclear Power Marketing LLC	Indian Point 2	H	23530	Unit Retired on 04/30/2020
3	Somerset Operating Company, LLC	Somerset	A	23543	Unit Retired on 03/12/2020
4	Calpine Energy Services LP	Stony Brook	K	24151	Behind-the-Meter
5	Emera Energy U.S. Sub. No. 1, Inc.	Greenidge 4	C	23583	Behind-the-Meter
6	Northbrook Lyons Falls, LLC	Lyons Falls Hydro	E	23570	Behind-the-Meter
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 2021 ICAP Market. Winter Capability reflects DMNC values that were applicable to the Winter 2020-2021 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. Summer and Winter Net-ICAP replaces Summer Capability and Winter Capability values
G	Various	Generating Station	A-K	Various	Generation is reported as Station Total.
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 2020 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	761.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	761.7
	Steam Turbine (Oil & Gas)	0.0	0.0	802.7	0.0	0.0	0.0	2,486.5	0.0	0.0	2,809.4	2,341.8	8,440.4
	Steam Turbine (Gas)	36.7	0.0	106.1	0.0	0.0	0.0	363.7	0.0	0.0	1,026.6	0.0	1,533.1
	Steam Turbine (Coal)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Combined Cycle (Oil & Gas)	387.7	0.0	283.1	78.4	136.4	3,020.2	661.8	0.0	0.0	3,335.1	624.5	8,527.2
	Combined Cycle (Gas)	0.0	110.1	995.0	242.0	49.2	0.0	1,088.0	0.0	0.0	0.0	76.7	2,561.0
	Jet Engine (Oil)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	628.7	628.7
	Jet Engine (Oil & Gas)	0.0	0.0	0.0	0.0	0.0	0.0	68.5	0.0	0.0	1,052.8	213.4	1,334.7
	Jet Engine (Gas)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.3	54.3
	Combustion Turbine (Oil)	0.0	0.0	0.0	0.0	0.0	0.0	18.4	0.0	0.0	353.3	557.9	929.6
	Combustion Turbine (Oil & Gas)	0.0	0.0	0.0	0.0	0.0	0.0	19.3	0.0	0.0	587.7	375.9	982.9
	Combustion Turbine (Gas)	41.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	444.2	174.1	659.3
	Internal Combustion (Oil)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	6.6
	Internal Combustion (Oil & Gas)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.4	29.4
	Internal Combustion (Gas)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	0.0	9.0
Pumped Storage	Pumped Storage Hydro	240.0	0.0	0.0	0.0	0.0	1,166.8	0.0	0.0	0.0	0.0	0.0	1,406.8
Nuclear	Steam (PWR Nuclear)	0.0	579.6	0.0	0.0	0.0	0.0	0.0	1,036.3	0.0	0.0	0.0	1,615.9
	Steam (BWR Nuclear)	0.0	0.0	2,762.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,762.4
Renewable ⁽¹⁾	Conventional Hydro	2,439.7	63.8	108.4	916.0	365.0	287.8	78.6	0.0	0.0	0.0	0.0	4,259.3
	Internal Combustion (Methane)	18.4	11.2	42.9	6.4	11.2	6.4	0.0	0.0	0.0	0.0	0.0	96.5
	Steam Turbine (Wood)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Steam Turbine (Refuse)	33.3	0.0	0.0	0.0	0.0	10.4	5.6	51.6	0.0	0.0	121.6	222.5
	Wind	178.9	0.0	518.4	678.4	441.9	0.0	0.0	0.0	0.0	0.0	0.0	1,817.6
	Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.5	31.5
Totals		3,375.7	764.7	6,380.7	1,921.2	1,003.7	4,491.6	4,790.4	1,087.9	0.0	9,618.1	5,236.4	38,670.4

(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-2: Existing Generators.

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	821.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	821.5
	Steam Turbine (Oil & Gas)	0.0	0.0	820.5	0.0	0.0	0.0	2,514.6	0.0	0.0	2,828.5	2,324.4	8,488.0
	Steam Turbine (Gas)	40.3	0.0	107.9	0.0	0.0	0.0	370.4	0.0	0.0	1,035.7	0.0	1,554.3
	Steam Turbine (Coal)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Combined Cycle (Oil & Gas)	436.7	0.0	329.6	92.3	157.4	3,521.2	741.1	0.0	0.0	3,774.3	721.7	9,774.3
	Combined Cycle (Gas)	0.0	122.0	1,181.7	280.2	62.2	0.0	1,124.0	0.0	0.0	0.0	79.3	2,849.4
	Jet Engine (Oil)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	753.1	753.1
	Jet Engine (Oil & Gas)	0.0	0.0	0.0	0.0	0.0	0.0	85.1	0.0	0.0	1,208.1	250.7	1,543.9
	Jet Engine (Gas)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.8	57.8
	Combustion Turbine (Oil)	0.0	0.0	0.0	0.0	0.0	0.0	22.9	0.0	0.0	445.6	724.2	1,192.7
	Combustion Turbine (Oil & Gas)	0.0	0.0	0.0	0.0	0.0	0.0	24.8	0.0	0.0	760.1	422.6	1,207.5
	Combustion Turbine (Gas)	46.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	456.1	182.8	684.9
	Internal Combustion (Oil)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	6.0
	Internal Combustion (Oil & Gas)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.4	29.4
	Internal Combustion (Gas)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	0.0	9.0
Pumped Storage	Pumped Storage Hydro	240.0	0.0	0.0	0.0	0.0	1,166.7	0.0	0.0	0.0	0.0	0.0	1,406.7
Nuclear	Steam (PWR Nuclear)	0.0	581.4	0.0	0.0	0.0	0.0	0.0	1,038.8	0.0	0.0	0.0	1,620.2
	Steam (BWR Nuclear)	0.0	0.0	2,784.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,784.5
Renewable ⁽¹⁾	Conventional Hydro	2,439.7	63.8	108.4	870.0	365.0	287.8	78.8	0.0	0.0	0.0	0.0	4,213.5
	Internal Combustion (Methane)	18.4	11.2	42.9	6.4	11.2	6.4	0.0	0.0	0.0	0.0	0.0	96.5
	Steam Turbine (Wood)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Steam Turbine (Refuse)	35.0	0.0	0.0	0.0	0.0	10.4	7.2	52.6	0.0	0.0	124.5	229.7
	Wind	178.9	0.0	518.4	678.4	441.9	0.0	0.0	0.0	0.0	0.0	0.0	1,817.6
	Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.5	31.5
Totals		3,435.0	778.4	6,715.4	1,927.3	1,037.7	4,992.5	4,968.9	1,091.4	0.0	10,517.4	5,708.0	41,172.0

(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-2: Existing Generators.

Table III-3c: Annual Net Energy Generation by Zone and Type - 2020

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	11.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.6
	Steam Turbine (Oil & Gas)	0.0	0.0	11.1	0.0	0.0	0.0	771.4	0.0	0.0	1,965.8	4,707.1		7,455.4
	Steam Turbine (Gas)	6.9	0.0	231.5	0.0	0.0	0.0	10.0	0.0	0.0	872.5	0.0		1,120.9
	Steam Turbine (Coal)	145.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		145.9
	Combined Cycle (Oil & Gas)	281.9	0.0	166.0	1.3	6.7	10,475.7	4,708.1	0.0	0.0	18,384.8	3,211.2		37,235.7
	Combined Cycle (Gas)	0.0	26.6	4,144.5	34.2	4.3	0.0	4,131.6	0.0	0.0	0.0	215.5		8,556.7
	Jet Engine (Oil)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	112.0		112.0
	Jet Engine (Oil & Gas)	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	369.7	81.4		451.4
	Jet Engine (Gas)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	88.1		88.1
	Combustion Turbine (Oil)	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	2.7	80.0		82.8
	Combustion Turbine (Oil & Gas)	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	67.8	328.6		396.8
	Combustion Turbine (Gas)	68.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	402.8	266.8		737.7
	Internal Combustion (Oil)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8		2.8
	Internal Combustion (Oil & Gas)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9		0.9
	Internal Combustion (Gas)	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	25.2	0.0		26.1
Pumped Storage	Pumped Storage Hydro	363.8	0.0	0.0	0.0	0.0	271.7	0.0	0.0	0.0	0.0	0.0		635.5
Nuclear	Steam (PWR Nuclear)	0.0	4,332.4	0.0	0.0	0.0	0.0	0.0	11,867.9	0.0	0.0	0.0		16,200.3
	Steam (BWR Nuclear)	0.0	0.0	22,236.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		22,236.7
Renewable ⁽¹⁾	Conventional Hydro	17,498.0	22.1	414.1	7,998.5	1,590.2	1,790.9	207.5	0.0	0.0	0.0	0.0		29,521.3
	Internal Combustion (Methane)	143.0	89.9	237.2	35.5	62.8	44.5	0.0	0.0	0.0	0.0	0.0		612.9
	Steam Turbine (Wood)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
	Steam Turbine (Refuse)	168.9	0.0	5.7	0.0	0.0	75.0	41.9	369.9	0.0	0.0	958.3		1,619.7
	Wind	472.3	1.0	1,049.1	1,448.6	1,190.9	0.0	0.0	0.0	0.0	0.0	0.0		4,161.9
	Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.5		48.5
Totals		19,148.8	4,472.0	28,507.5	9,518.1	2,855.8	12,657.8	9,871.3	12,237.8	0.0	22,091.3	10,101.2		131,461.6

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

(2) - Values are from the 2020 Net Energy column in Table III-2: Existing Generators.

Table III-3d: Scheduled Real-Time Transactions by Control Area and Proxy Bus (GWh) - 2020

Control Area	Proxy Bus Name	Imports	Wheels-In	Exports	Wheels-Out	Net Imports
HQ	Cedars	1,066	0	0	0	1,066
HQ	Chateaugay	7,556	1,365	3	0	8,918
IESO	Bruce	7,502	2	29	3	7,472
ISO-NE	1385 Line	582	0	108	0	474
ISO-NE	Cross Sound Cable	658	0	0	0	658
ISO-NE	Sandy Pond	4,276	0	11,108	1,366	-8,198
PJM	HTP	1,250	0	0	0	1,250
PJM	Keystone	3,970	3	1,519	1	2,453
PJM	Linden VFT	1,616	0	13	0	1,603
PJM	Neptune	4,333	0	0	0	4,333
	NYCA Total	32,809	1,370	12,780	1,370	20,029

Figure III-1: 2020 NYCA Energy Production by Zone

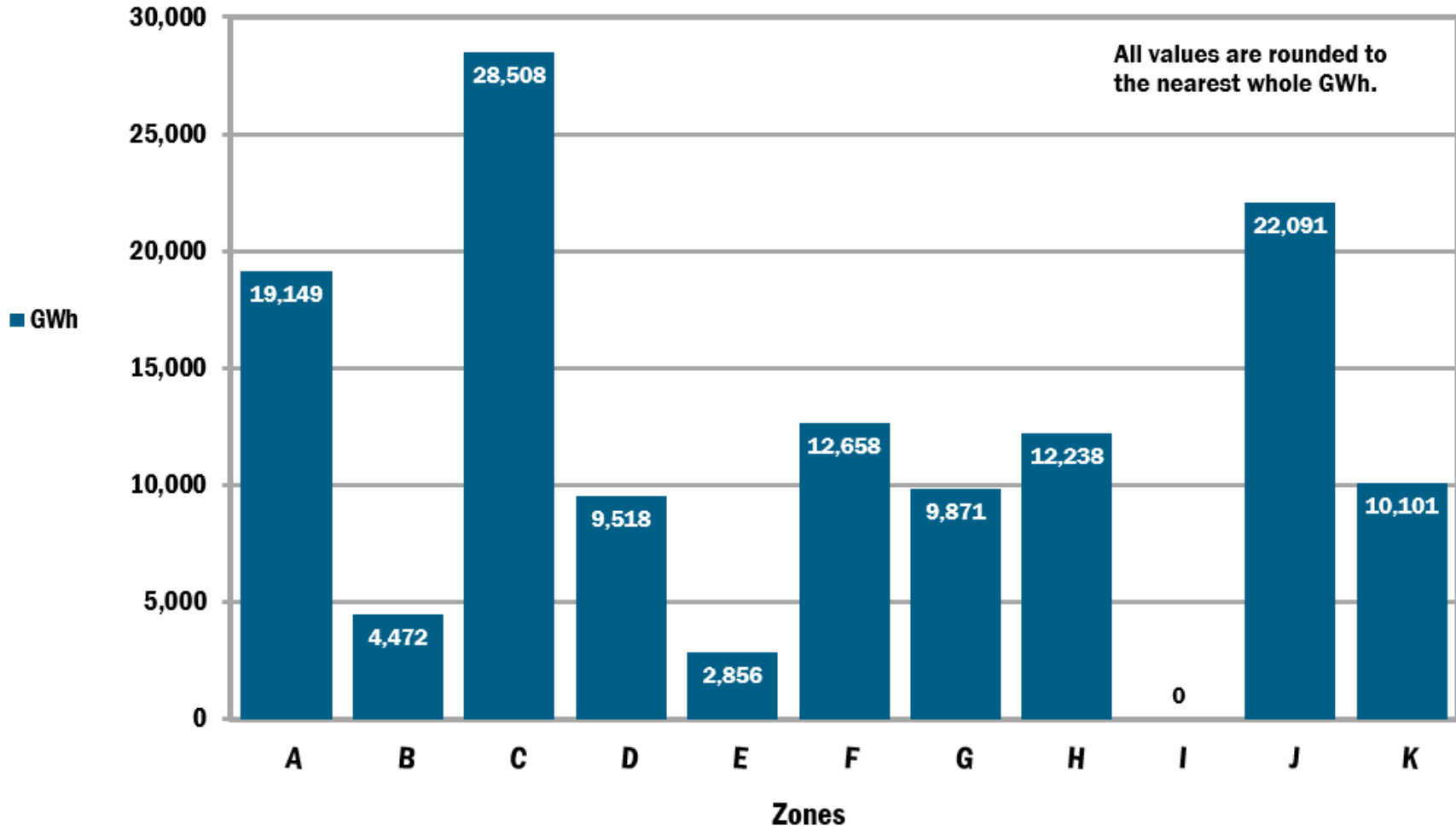
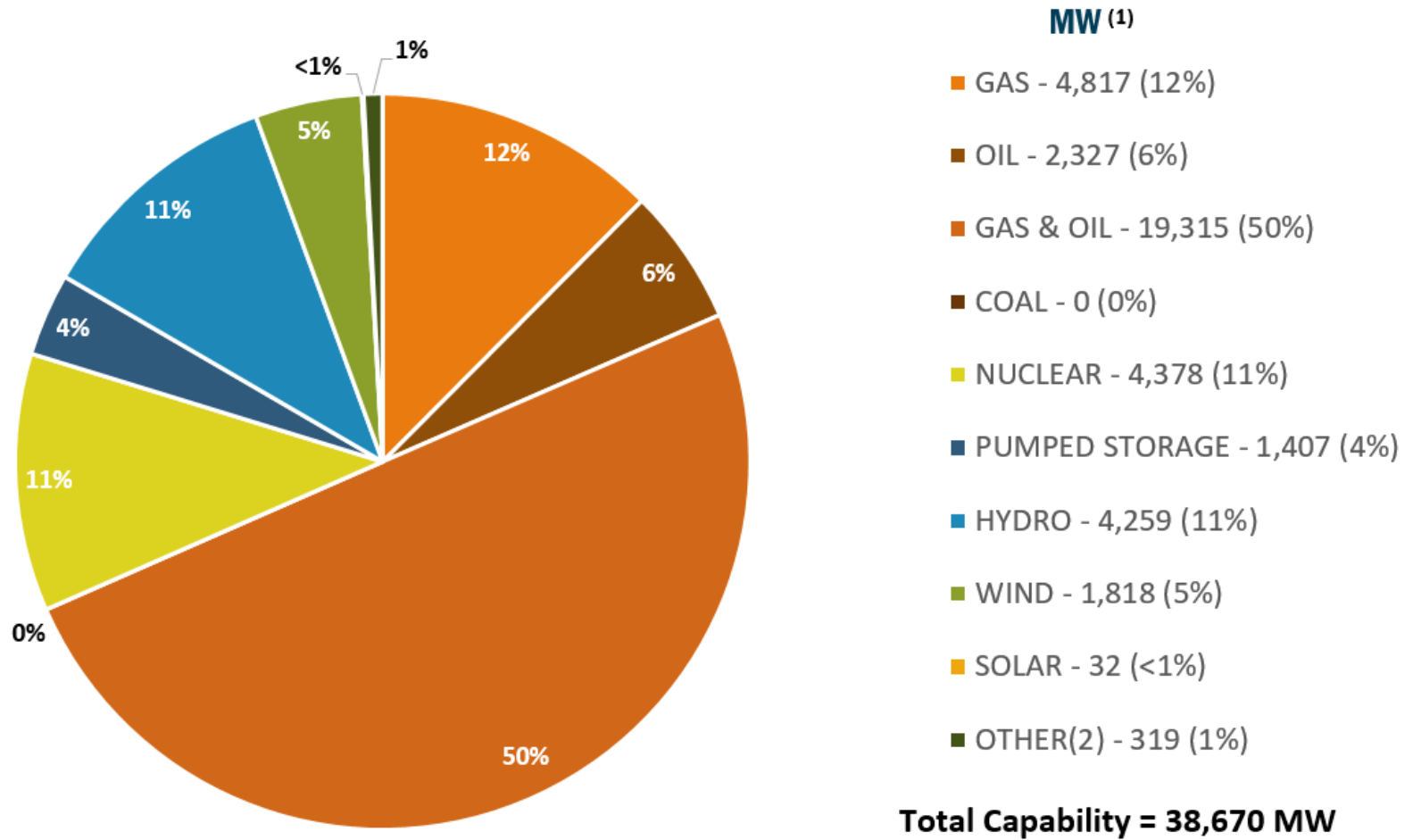


Figure III-2: Existing NYCA Summer Capability by Fuel Type



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

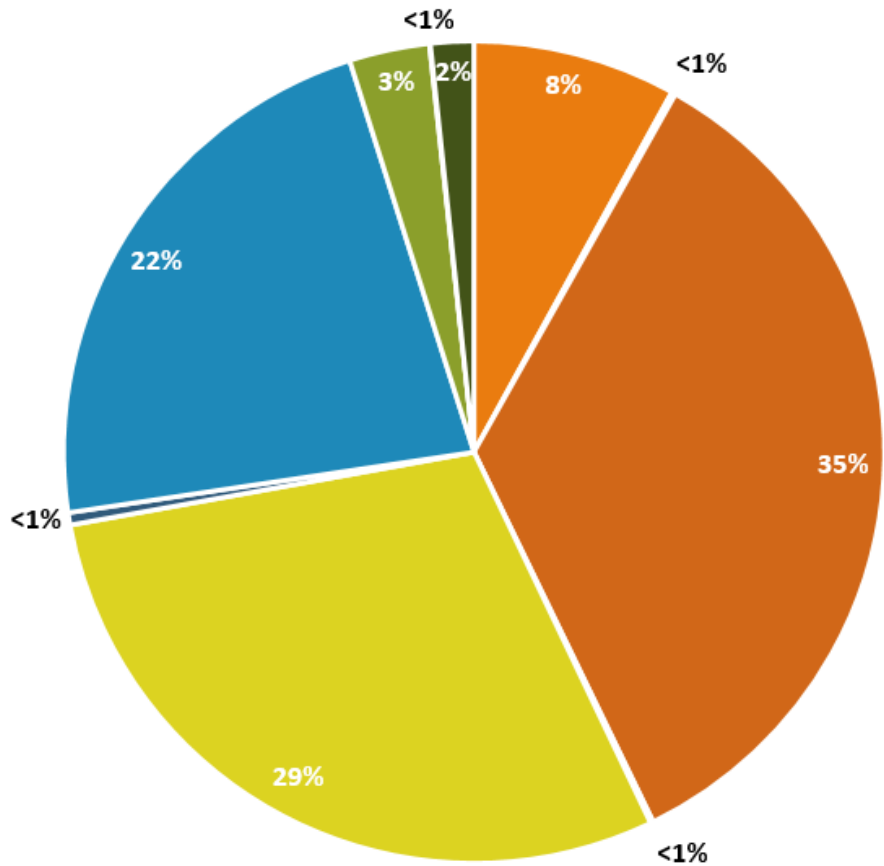
Total may not match due to rounding.

(2) Includes Methane, Refuse & Wood.

Figure III-3: 2020 NYCA Energy Production by Fuel Type

Renewable Resources ⁽³⁾

Conventional Hydro	22%
Wind	3%
Solar	<1%
Other	2%
Total	27%



GWh ⁽¹⁾

- GAS - 10,530 (8%)
- OIL - 209 (<1%)
- GAS & OIL - 45,540 (35%)
- COAL - 146 (<1%)
- NUCLEAR - 38,437 (29%)
- PUMPED STORAGE - 636 (<1%)
- HYDRO - 29,521 (22%)
- WIND - 4,162 (3%)
- SOLAR - 49 (<1%)
- OTHER(2) - 2,233 (2%)

Total Energy = 131,462 GWh

(1) All values are rounded to the nearest whole GWh. Total may not match due to rounding.
 (2) Includes Methane, Refuse & Wood.
 (3) Renewable Resources do not necessarily match the NYS Clean Energy Standard (CES) definition.

Figure III-4a: NYCA Wind Resources – Historical Installed Nameplate Capacity

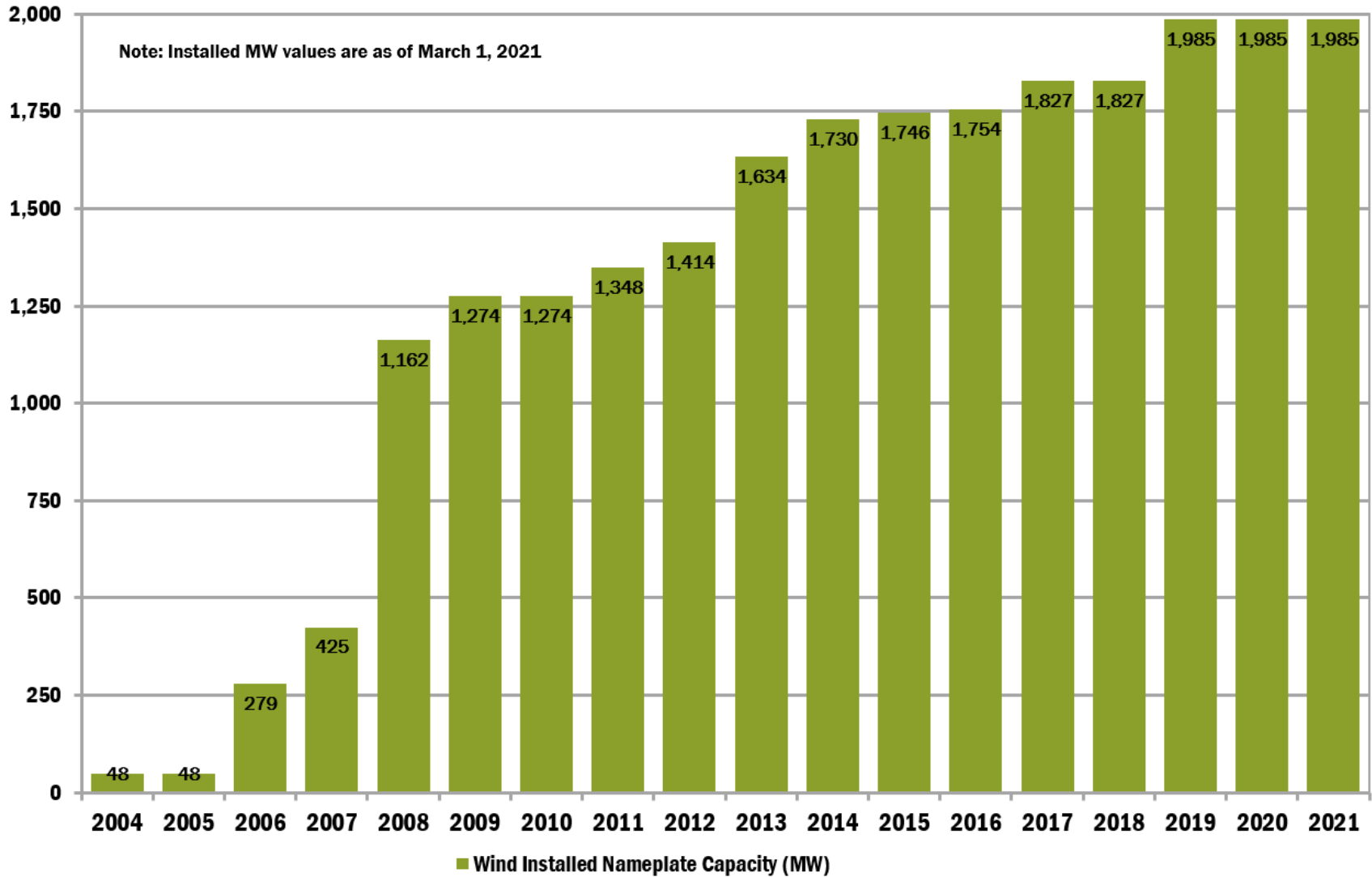
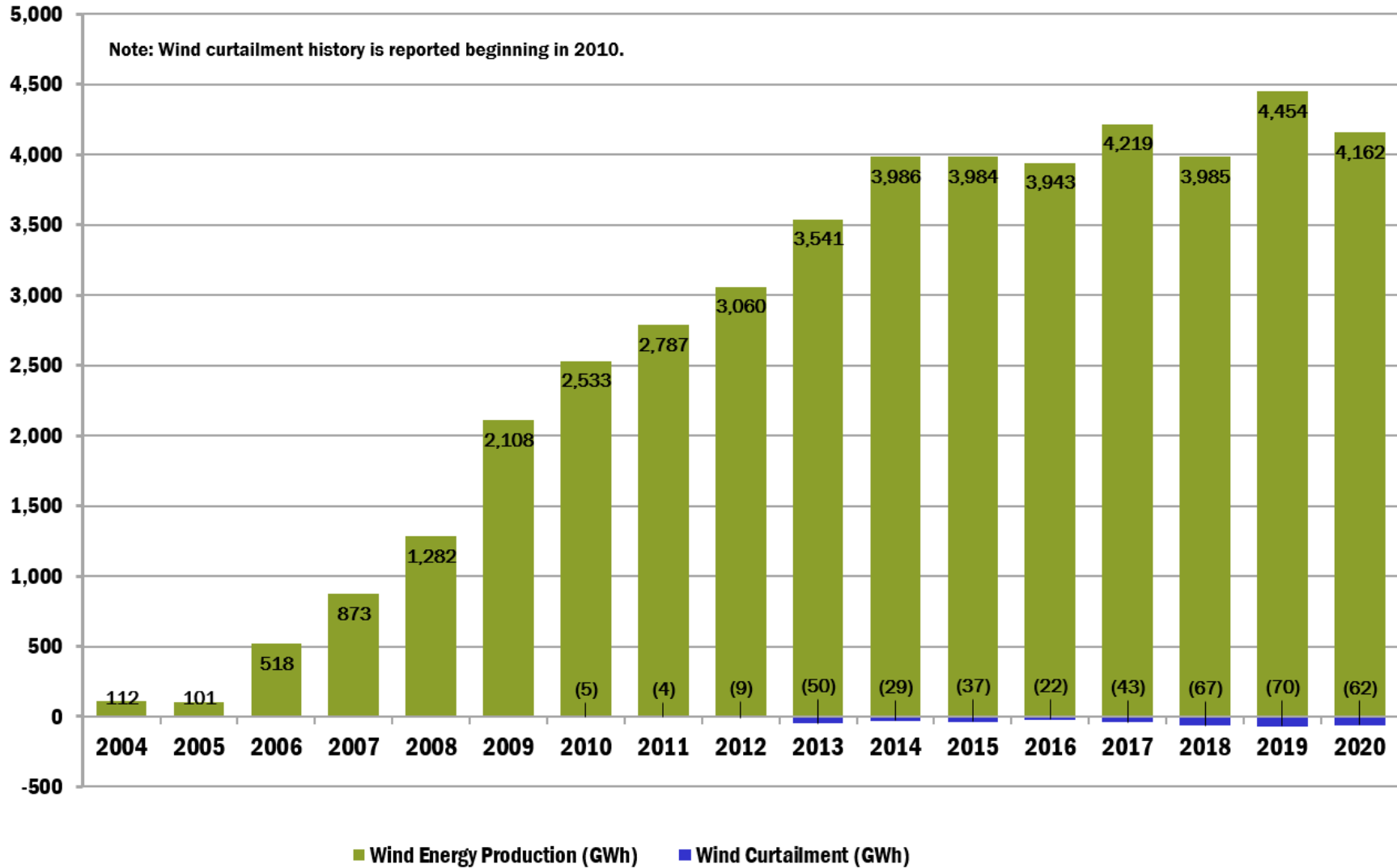


Figure III-4b: NYCA Wind Resources – Historical Energy Production and Curtailment



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. 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 2020 *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. These tables are current through March 15, 2021. 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 15, 2021

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
<u>Completed Class Year Facilities Study</u>												
349	Taylor Biomass Energy Montgomery, LLC	Taylor Biomass	G	Apr-21	21.0	19.0	19.0	19.0	22.5	Solid Waste	2011	(2)
387	Cassadaga Wind, LLC	Cassadaga Wind	A	Apr-21	126.5	126.0	126.0	126.5	126.5	Wind Turbines	2017	(2)
546	Atlantic Wind, LLC	Roaring Brook Wind	E	Apr-21	79.7	79.7	79.7	79.7	79.7	Wind Turbines	2019	(2)
505	Ball Hill Wind Energy, LLC	Ball Hill Wind	A	Dec-21	100.0	100.0	100.0	100.0	100.0	Wind Turbines	2017	(2)
678	Li Solar Generation, LLC	Calverton Solar Energy Center	K	Dec-21	22.9	22.9	22.9	22.9	22.9	Solar	2019	(2)
422	NextEra Energy Resources, LLC	Eight Point Wind Energy Center	B	Sep-22	101.8	101.2	101.2	101.8	101.8	Wind Turbines	2017	(2)
531	Invenergy Wind Development LLC	Number 3 Wind Energy	E	Sep-22	105.8	105.8	105.8	105.8	105.8	Wind Turbines	2019	(2)
579	Bluestone Wind, LLC	Bluestone Wind	E	Oct-22	124.2	124.2	124.2	124.2	124.2	Wind Turbines	2019	(2)
618	North Park Energy, LLC	High River Solar	F	Nov-22	90.0	90.0	90.0	90.0	90.0	Solar	2019	(2)
619	North Park Energy, LLC	East Point Solar	F	Nov-22	50.0	50.0	50.0	50.0	50.0	Solar	2019	(2)
720	North Light Energy Center, LLC	North Light Energy Center	C	Nov-22	80.0	80.0	80.0	80.0	80.0	Solar	2019	(2)
721	Excelsior Energy Center, LLC	Excelsior Energy Center	A	Nov-22	280.0	280.0	280.0	280.0	280.0	Solar	2019	(2)
495	Mohawk Solar LLC	Mohawk Solar	F	Dec-22	90.5	90.5	90.5	90.5	90.5	Solar	2019	(2)
519	Canisteo Wind Energy LLC	Canisteo Wind	C	Dec-22	290.7	290.7	290.7	290.7	290.7	Wind Turbines	2019	(2)
535	sPower Development Company, LLC	Riverhead Expansion	K	Dec-22	36.0	36.0	TBD	36.0	36.0	Solar	2019	(2) (3)
591	SED NY Holdings LLC	Highview Solar	C	Dec-22	20.0	20.0	20.0	20.0	20.0	Solar	2019	(2)
612	Deepwater Wind South Fork, LLC	South Fork Wind Farm	K	Dec-22	96.0	96.0	TBD	96.0	96.0	Wind Turbines	2019	(2) (3)
617	North Park Energy, LLC	Watkins Glen Solar	C	Dec-22	50.0	50.0	50.0	50.0	50.0	Solar	2019	(2)
637	Flint Mine Solar LLC	Flint Mine Solar	G	Dec-22	100.0	100.0	100.0	100.0	100.0	Solar	2019	(2)
683	KCE NY 2, LLC	KCE NY 2	G	Dec-22	200.0	200.0	0.0	200.0	200.0	Energy Storage	2019	(2)
695	Deepwater Wind South Fork, LLC	South Fork Wind Farm II	K	Dec-22	40.0	40.0	TBD	40.0	40.0	Wind Turbines	2019	(2) (3)
704	Bear Ridge Solar, LLC	Bear Ridge Solar	A	Dec-22	100.0	100.0	100.0	100.0	100.0	Solar	2019	(2)
706	High Brigde Wind, LLC	High Brigde Wind	E	Dec-22	100.8	100.8	100.8	100.8	100.8	Wind Turbines	2019	(2)
596	Invenergy Wind Development LLC	Alle Catt II Wind	A	May-23	339.1	339.1	339.1	339.1	339.1	Wind Turbines	2019	(2)
393	NRG Berrians East Development, LLC	Berrians East Replacement	J	Jun-23	465.0	508.0	508.0	431.0	438.0	Combustion Turbines	2017	(2) (7)
396	Baron Winds, LLC	Baron Winds	C	Jul-23	238.4	300.0	300.0	238.4	238.4	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)
791	Danskammer Energy LLC	Danskammer Energy Center	G	Oct-23	615.0	88.9	600.0	595.5	600.0	Combined Cycle	2019	(2) (9)
620	North Park Energy, LLC	North Side Solar	D	Nov-23	180.0	180.0	180.0	180.0	180.0	Solar	2019	(2)
644	Hecate Energy Columbia County 1, LLC	Columbia County 1	F	Dec-23	60.0	60.0	60.0	60.0	60.0	Solar	2019	(2)
<u>Completed CRIS Requests</u>												
430	HQUS	Cedar Rapids Transmission Upgrade	D	Oct-21	N/A	80.0	80.0	N/A	N/A		2017	
804	KCE NY 10, LLC	KCE NY 10	A	Oct-22	N/A	20.0	20.0	N/A	N/A	Energy Storage	2019	
	Innovative Energy Systems, LLC	Fulton County Landfill	F	N/A	N/A	3.2	3.2	N/A	N/A	Methane	2019	
	Seneca Energy II, LLC	Ontario Landfill	B	N/A	N/A	3.6	3.6	N/A	N/A	Methane	2019	
	BSC Owner LLC	Spring Creek Tower	J	N/A	N/A	8.0	8.0	N/A	N/A	Diesel	2019	
	Energy Storage Resources, LLC	Eagle Energy Storage	J	N/A	N/A	20.0	20.0	N/A	N/A	Energy Storage	2019	
	Strata Storage, LLC	Groundvault Energy Storage	J	N/A	N/A	12.5	12.5	N/A	N/A	Energy Storage	2019	
	Strata Storage, LLC	Stillwell Energy Storage	J	N/A	N/A	10.0	10.0	N/A	N/A	Energy Storage	2019	
	Strata Storage, LLC	Cleancar Energy Storage	J	N/A	N/A	15.0	15.0	N/A	N/A	Energy Storage	2019	
	Hannacroix Solar Facility, LLC	Hannacroix Solar	G	N/A	N/A	3.2	3.2	N/A	N/A	Solar	2019	
	RWE Solar Development, LLC	Monsey 44-6	G	N/A	N/A	5.0	5.0	N/A	N/A	Energy Storage	2019	
	RWE Solar Development, LLC	Monsey 44-2	G	N/A	N/A	5.0	5.0	N/A	N/A	Energy Storage	2019	
	RWE Solar Development, LLC	Monsey 44-3	G	N/A	N/A	5.0	5.0	N/A	N/A	Energy Storage	2019	
	RWE Solar Development, LLC	Cuddebackville Battery	G	N/A	N/A	10.0	10.0	N/A	N/A	Energy Storage	2019	
	Yonkers Grid, LLC	Yonkers Grid	J	N/A	N/A	20.0	20.0	N/A	N/A	Energy Storage	2019	
	King's Plaza Energy LLC	King's Plaza	J	N/A	N/A	6.0	6.0	N/A	N/A	Natural Gas	2019	
	Gravity Renewables, Inc	Dahowa Hydroelectric	F	N/A	N/A	10.5	10.5	N/A	N/A	Hydro	2019	

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
<u>Class Year 2019³ (Additional SDU Study)</u>												
697	Helix Ravenswood, LLC	Ravenswood Energy Storage 1	J	May-22	129.0	129.0	TBD	129.0	129.0	Energy Storage		
698	Helix Ravenswood, LLC	Ravenswood Energy Storage 2	J	May-22	129.0	129.0	TBD	129.0	129.0	Energy Storage		
746	Energy Storage Resources, LLC	Peconic River Energy Storage	K	Jun-22	150.0	150.0	TBD	150.0	150.0	Energy Storage		
668	North Bergen Liberty Generating, LLC	Liberty Generating Alternative	J	Feb-24	1,200.0	1,172.0	TBD	1,171.0	1,172.0	Combustion Turbines		
737	Equinor Wind US LLC	El Sunset Park	J	Dec-24	816.0	816.0	TBD	816.0	816.0	Wind Turbines		
738	Equinor Wind US LLC	El Melville	K	Dec-24	816.0	816.0	TBD	816.0	816.0	Wind Turbines		
458	Transmission Developers Inc.	Hertel 735kV/Astoria Annex 345kV	J	Dec-26	N/A	1,000.0	TBD	N/A	N/A			
<u>Future Class Year Candidates⁴</u>												
786	Ravenswood Development, LLC	Ravenswood Energy Storage	J	Mar-21	187.0	TBD	TBD	187.0	187.0	Energy Storage		
693	Renovo Energy Center, LLC	Renovo Energy Center Uprate	C	Apr-21	531.0	TBD	TBD	515.0	548.0	Combined Cycle		
787	Levy Grid, LLC	Levy Grid, LLC	A	May-21	150.0	TBD	TBD	150.0	150.0	Energy Storage		
779	Hecate Energy Gedney Hill LLC	Gedney Hill Solar	G	Jun-21	20.0	TBD	TBD	20.0	20.0	Solar		
571	Heritage Renewables, LLC	Heritage Wind	A	Oct-21	200.1	TBD	TBD	200.1	200.1	Wind Turbines		
716	EDF Renewables Development, Inc.	Moraine Solar	C	Oct-21	93.5	TBD	TBD	87.4	93.5	Solar		
594	North Park Energy, LLC	NW Energy	C	Dec-21	60.0	TBD	TBD	60.0	60.0	Energy Storage		
595	North Park Energy, LLC	SW Energy	A	Dec-21	100.0	TBD	TBD	100.0	100.0	Energy Storage		
597	Hecate Energy Greene County 3 LLC	Greene County 3	G	Dec-21	20.0	20.0	20.0	20.0	20.0	Solar		(10)
710	Invenergy Solar Development North America LLC	Horseshoe Solar	B	Dec-21	180.0	TBD	TBD	180.0	180.0	Solar		
777	Community Energy Solar, LLC	White Creek Solar	B	Dec-21	135.0	TBD	TBD	135.0	135.0	Solar		
577	Greene County Energy Properties, LLC	Greene County Energy	G	Jan-22	20.0	TBD	TBD	20.0	20.0	Solar		
745	Energy Storage Resources, LLC	Huckleberry Ridge Energy	G	Apr-22	100.0	TBD	TBD	100.0	100.0	Energy Storage		
878	Energy Storage Resources, LLC	Pirates Island	A	Apr-22	100.0	TBD	TBD	100.0	100.0	Energy Storage		
778	Astoria Generating Company LP	Gowanus Gas Turbine Facility Repowering	J	May-22	71.0	TBD	TBD	549.0	588.0	Combustion Turbines		(8)
699	Helix Ravenswood, LLC	Ravenswood Gas	J	Jun-22	272.0	TBD	TBD	238.5	243.8	Combustion Turbines		
840	Hecate Grid Swiftsure LLC	Swiftsure Energy Storage	J	Jun-22	650.0	TBD	TBD	650.0	650.0	Energy Storage		
942	KCE NY 21, LLC	KCE NY 21	K	Jun-22	60.0	TBD	TBD	60.0	60.0	Energy Storage		
974	KCE NY 19 LLC	KCE NY 19	G	Jun-22	80.0	TBD	TBD	80.0	80.0	Energy Storage		
994	KCE NY 22, LLC	KCE NY 22	K	Jun-22	90.0	TBD	TBD	90.0	90.0	Energy Storage		
967	KCE NY 5 LLC	KCE NY 5	G	Oct-22	94.0	TBD	TBD	94.0	94.0	Energy Storage		
694	Sunset Hill Solar, LLC	Sunset Hill Solar	G	Nov-22	20.0	TBD	TBD	20.0	20.0	Solar		
718	Cortland Energy Center, LLC	Cortland Energy Center	C	Nov-22	50.0	TBD	TBD	50.0	50.0	Solar		
719	East Ling Energy Center	East Light Energy Center	F	Nov-22	40.0	TBD	TBD	40.0	40.0	Solar		
783	ConnectGen Chautauqua County LLC	South Ripley Solar	A	Nov-22	270.0	TBD	TBD	270.0	270.0	Solar		
834	Astoria Generating Company, LP	Parking Lot Battery Energy Storage	J	Nov-22	97.0	TBD	TBD	79.0	79.0	Energy Storage		
835	Astoria Generating Company, LP	Dock Battery Energy Storage	J	Nov-22	59.1	TBD	TBD	56.3	57.3	Energy Storage		
497	Invenergy Wind Development LLC	Bull Run	D	Dec-22	303.6	TBD	TBD	303.6	303.6	Wind Turbines		
521	Invenergy NY, LLC	Bull Run II Wind	D	Dec-22	145.4	TBD	TBD	145.4	145.4	Wind Turbines		
629	Silver Lake Solar, LLC	Silver Lake Solar	C	Dec-22	24.9	TBD	TBD	24.9	24.9	Solar		
801	Prattsburgh Wind, LLC	Prattsburgh Wind Farm	C	Dec-22	147.0	TBD	TBD	147.0	147.0	Wind Turbines		
822	Astoria Generating Company, LP	Narrows Generating Barge Battery Energy Storage	J	Dec-22	58.0	TBD	TBD	58.0	58.0	Energy Storage		
907	174 Power Global	Harlem River Yard	J	Dec-22	100.0	TBD	TBD	100.0	100.0	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
Future Class Year Candidates⁴ (cont'd)												
925	Hecate Grid Clermont 1 LLC	Clermont 1	K	Dec-22	100.0	TBD	TBD	100.0	100.0	Energy Storage		
931	Hanwha Energy USA Holdings d/d/a/ 174 Power Global	Astoria Energy Storage	J	Dec-22	100.0	TBD	TBD	100.0	100.0	Energy Storage		
939	National Grid Generation LLC	Far Rockaway Battery Energy Storage	K	Dec-22	30.0	TBD	TBD	30.0	30.0	Energy Storage		
950	Orleans Solar LLC	Orleans Solar	B	Dec-22	200.0	TBD	TBD	200.0	200.0	Solar		
774	EDF Renewables Development, Inc.	Tracy Solar Energy Centre	E	Jan-23	119.0	TBD	TBD	119.0	119.0	Solar		
956	Holbrook Energy Storage	Holbrook Energy Storage	K	May-23	300.9	TBD	TBD	294.9	296.4	Energy Storage		
957	Holtsville Energy Storage	Holtsville Energy Storage	K	May-23	79.6	TBD	TBD	76.8	76.8	Energy Storage		
965	Yaphank Energy Storage, LLC	Yaphank Energy Storage	K	May-23	79.6	TBD	TBD	76.8	77.6	Energy Storage		
966	Suffolk County Energy Storage, LLC	Suffolk County Storage	K	May-23	41.3	TBD	TBD	40.3	40.3	Energy Storage		
740	Oakdale Battery Storage LLC	Oakdale Battery Storage	C	Jun-23	120.0	TBD	TBD	120.0	120.0	Energy Storage		
815	Bayonne Energy Center, LLC	Bayonne Energy Center III	J	Jun-23	49.8	TBD	TBD	49.8	49.8	Energy Storage		
805	Osbow Hill Solar, LLC	Owbox Hill Solar	C	Sep-23	140.0	TBD	TBD	140.0	140.0	Solar		
709	Alder Creek Solar, LLC	Alder Creek Solar	E	Oct-23	205.0	TBD	TBD	205.0	205.0	Solar		
717	EDF Renewables Development, Inc.	Morris Ridge Solar Energy Center	C	Oct-23	177.0	TBD	TBD	177.0	177.0	Solar		
995	Alabama Solar Park LLC	Alabama Solar Park LLC	B	Oct-23	132.4	TBD	TBD	130.0	130.0	Solar		
520	EDP Renewables North America	Rolling Upland Wind	E	Nov-23	72.6	TBD	TBD	72.6	72.6	Wind Turbines		
880	Brookside Solar, LLC	Brookside Solar	D	Nov-23	100.0	TBD	TBD	100.0	100.0	Solar		
881	New Breman Solar, LLC	New Breman Solar	E	Nov-23	100.0	TBD	TBD	100.0	100.0	Solar		
882	Riverside Solar, LLC	Riverside Solar	E	Nov-23	100.0	TBD	TBD	100.0	100.0	Solar		
883	North Park Energy, LLC	Garnet Energy Center	B	Nov-23	200.0	TBD	TBD	200.0	200.0	Solar		
522	NYC Energy LLC	NYC Energy	J	Dec-23	79.9	TBD	TBD	79.9	79.9	Energy Storage		
624	Franklin Solar, LLC	Franklin Solar	D	Dec-23	150.0	TBD	TBD	150.0	150.0	Solar		
811	Hecate Energy Cider Solar LLC	Cider Solar	A	Dec-23	500.0	TBD	TBD	500.0	500.0	Solar		
825	Setauket Energy Storage, LLC	Setauket Energy Storage	K	Dec-23	76.9	TBD	TBD	76.9	76.9	Energy Storage		
929	EDF Renewables Development, Inc.	Morris Ridge Battery Storage	C	Dec-23	84.2	TBD	TBD	83.0	83.0	Energy Storage		
953	Sugar Maple Solar, LLC	Sugar Maple Solar	E	Dec-23	150.7	TBD	TBD	150.7	150.7	Solar		
954	Empire Solar, LLC	Empire Solar	A	Dec-23	157.9	TBD	TBD	157.9	150.0	Solar		
766	Sunrise Wind LLC	NY Wind Holbrook	K	May-24	1,085.7	TBD	TBD	880.0	880.0	Wind Turbines		
864	Boralex US Development, LLC	NY38 Solar	E	Mar-24	120.0	TBD	TBD	120.0	120.0	Solar		
971	Savion, LLC	East Setauket Energy Storage	K	Mar-24	300.9	TBD	TBD	293.5	293.5	Energy Storage		
987	Sunrise Wind LLC	NY Wind Holbrook 2	K	May-24	1,085.7	TBD	TBD	44.0	44.0	Wind Turbines		(12)
830	NRG Astoria Storage LLC	Astoria Energy Storage 2	J	Jun-24	79.9	TBD	TBD	79.9	79.9	Energy Storage		
770	KCE NY 8 LLC	KCE NY 8a	G	Oct-24	20.0	TBD	TBD	20.0	20.0	Energy Storage		
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	E	Oct-24	350.0	TBD	TBD	350.0	350.0	Solar		
686	Invenergy Solar Development North America LLC	Bull Run Solar Energy Center	D	Dec-24	170.0	TBD	TBD	170.0	170.0	Solar		
800	EDF Renewables Development, Inc.	Rich Road Solar Energy Center	E	Dec-24	240.0	TBD	TBD	240.0	240.0	Solar		
700	Able Grid Energy Solutions, LLC	Robinson Grid	J	Jul-25	300.0	TBD	TBD	300.0	300.0	Energy Storage		
958	Empire Offshore Wind LLC	EI Oceanside	K	Dec-25	1,568.0	TBD	TBD	1,000.0	1,000.0	Wind Turbines		
959	Empire Offshore Wind LLC	EI Oceanside 2	K	Dec-25	1,568.0	TBD	TBD	500.0	500.0	Wind Turbines		(13)
526	Atlantic Wind, LLC	North Ridge Wind	D	Dec-25	100.0	TBD	TBD	100.0	100.0	Wind Turbines		
560	Atlantic Wind, LLC	Deer River Wind	E	Dec-25	100.0	TBD	TBD	100.0	100.0	Wind Turbines		
574	Atlantic Wind, LLC	Mad River Wind	E	Dec-25	450.0	TBD	TBD	450.0	450.0	Wind Turbines		

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
<u>Other Non Class Year Generators</u>												
649	CR Fuel Cell, LLC	Clare Rose	K	Dec-20	13.9	N/A	N/A	13.9	13.9	Fuel Cell		(5)
564	Rock District Solar, LLC	Rock District Solar	F	Apr-21	20.0	20.0	20.0	20.0	20.0	Solar		(5) (10)
742	Consolidated Edison Co. of NY, Inc.	Astoria Storage on Demand	J	Apr-21	1.5	N/A	N/A	1.5	1.5	Energy Storage		(5)
581	SED NY Holdings LLC	Hills Solar	E	May-21	20.0	20.0	20.0	20.0	20.0	Solar		(5) (11)
768	Janis Solar, LLC	Janis Solar	C	Jul-21	20.0	20.0	20.0	20.0	20.0	Solar		(5) (10)
513	Orangeville Energy Storage LLC	Orangeville	C	Aug-21	20.0	N/A	N/A	20.0	20.0	Energy Storage		(5)
775	Puckett Solar, LLC (Conti)	Puckett Solar	E	Aug-21	20.0	20.0	20.0	20.0	20.0	Solar		(5) (10)
565	Tayandenege Solar, LLC	Tayandenege Solar	F	Sep-21	20.0	20.0	20.0	20.0	20.0	Solar		(5) (10)
769	New York Power Authority	North Country Energy Storage	D	Oct-21	20.0	N/A	N/A	20.0	20.0	Energy Storage		(5)
589	Duke Energy Renewables Solar, LLC	North Country Solar	E	Nov-21	15.0	N/A	N/A	15.0	15.0	Solar		(5)
570	Hecate Energy, LLC	Albany County	F	Nov-21	20.0	20.0	20.0	20.0	20.0	Solar		(5) (10)
572	Hecate Energy Greene 1 LLC	Greene County 1	G	Nov-21	20.0	20.0	20.0	20.0	20.0	Solar		(5) (10)
573	Hecate Energy Greene 2 LLC	Greene County 2	G	Nov-21	10.0	10.0	10.0	10.0	10.0	Solar		(5) (10)
575	Little Pond Solar, LLC	Little Pond Solar	G	Nov-21	20.0	20.0	10.0	20.0	20.0	Solar		(5) (10)
598	Hecate Energy, LLC	Albany County II	F	Nov-21	20.0	20.0	20.0	20.0	20.0	Solar		(5) (10)
638	Pattersonville Solar Facility, LLC	Pattersonville	F	Nov-21	20.0	20.0	20.0	20.0	20.0	Solar		(5) (10)
730	Darby Solar, LLC	Darby Solar	F	Nov-21	20.0	20.0	20.0	20.0	20.0	Solar		(5) (10)
731	Branscomb Solar, LLC	Branscomb Solar	F	Nov-21	20.0	20.0	20.0	20.0	20.0	Solar		(5) (10)
735	ELP Stillwater Solar LLC	ELP Stillwater Solar	F	Nov-21	20.0	20.0	20.0	20.0	20.0	Solar		(5) (10)
807	SED NY Holdings LLC	Hilltop Solar	F	Nov-21	20.0	N/A	N/A	20.0	20.0	Solar		(5)
848	SED NY Holdings LLC	Fairway Solar	E	Nov-21	20.0	N/A	N/A	20.0	20.0	Solar		(5)
487	LI Energy Storage System, LLC	Far Rockaway Battery Storage	K	Dec-21	20.0	20.0	20.0	20.0	20.0	Energy Storage		(5) (10)
682	Grissom Solar, LLC	Grissom Solar	F	Dec-21	20.0	20.0	20.0	20.0	20.0	Solar		(5) (10)
748	Regan Solar, LLC	Regan Solar	F	Dec-21	20.0	20.0	20.0	20.0	20.0	Solar		(5) (10)
759	KCE NY 6, LLC	KCE NY 6	A	Dec-21	20.0	20.0	20.0	20.0	20.0	Energy Storage		(5) (10)
584	SED NY Holdings LLC	Dog Corners Solar	C	Mar-22	20.0	20.0	20.0	20.0	20.0	Solar		(5) (11)
669	SED NY Holdings LLC	Clay Solar	C	Apr-22	20.0	20.0	20.0	20.0	20.0	Solar		(5) (11)
670	SED NY Holdings LLC	Skyline Solar	E	Apr-22	20.0	20.0	20.0	20.0	20.0	Solar		(5) (11)
650	BRT Fuel Cell, LLC	Brookhaven Rail Terminal	K	May-22	18.5	N/A	N/A	18.5	18.5	Fuel Cell		(5)
833	Dolan Solar, LLC	Dolan Solar	F	Jun-22	20.0	N/A	N/A	20.0	20.0	Solar		(5)
780	Hecate Energy Johnstown LLC	Johnstown Solar	F	Jul-22	20.0	N/A	N/A	20.0	20.0	Solar		(5)
828	SED NY Holdings LLC	Valley Solar	C	Jul-22	20.0	N/A	N/A	20.0	20.0	Solar		(5)
545	Delaware River Solar, LLC	Sky High Solar	C	Aug-22	20.0	N/A	N/A	20.0	20.0	Solar		(5)
734	ELP Ticonderoga Solar, LLC	ELP Ticonderoga Solar	F	Aug-22	20.0	20.0	20.0	20.0	20.0	Solar		(5) (10)
784	High Bridge Wind, LLC	High Bridge Wind	E	Sep-22	5.0	N/A	N/A	5.0	5.0	Wind Turbines		(5)
666	Martin Rd Solar LLC	Martin Rd Solar	A	Oct-22	20.0	N/A	N/A	20.0	20.0	Solar		(5)
667	Bakerstand Solar LLC	Bakerstand Solar	A	Oct-22	20.0	N/A	N/A	20.0	20.0	Solar		(5)
715	EDF Renewables Development, Inc.	Suffragette Solar Energy Center	C	Nov-22	20.0	N/A	N/A	20.0	20.0	Solar		(5)
590	Duke Energy Renewables Solar, LLC	Scipio Solar	C	Dec-22	20.0	N/A	N/A	20.0	20.0	Solar		(5)
592	Duke Energy Renewables Solar, LLC	Niagara Solar	B	Dec-22	20.0	N/A	N/A	20.0	20.0	Solar		(5)
744	Granada Solar, LLC	Magruder Solar	G	Dec-22	20.0	N/A	N/A	20.0	20.0	Solar		(5)
586	SED NY Holdings LLC	Watkins Rd Solar	E	Jun-23	20.0	20.0	20.0	20.0	20.0	Solar		(5) (11)
853	Boralex US Development, LLC	NY16 Solar	F	Nov-23	19.9	N/A	N/A	19.9	19.9	Solar		(5)
855	Boralex US Development, LLC	NY13 Solar	F	Nov-23	19.9	N/A	N/A	19.9	19.9	Solar		(5)
					Total			21,830.8	21,925.6			

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. See Definitions of Labels on Load & Capacity Schedule (Sec. V) for description.
2	Projects included as expected additions in this year's Load and Capacity Schedule, Table V-2a & V-2b.
3	Projects that are members of the ongoing Class Year 2019 Additional SDU Study. These projects are included as proposed resource changes in this year's Load and Capacity Schedule, Table V-2a.
4	Projects that are potential candidates for Class Year 2021, 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.
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	Q#393 Berrians East Replacement is a repowering project that would include retiring NRG GTs 2, 3, and 4 (PTIDs 24094 through 24105). The Q#393 Berrians East Replacement, as proposed, will have a total ERIS capability of 431 MW (Summer) and 438 MW (Winter) and CRIS (Summer) of 508 MW (3.6 MW Summer CRIS increase).
8	Q#778 Gowanus Gas Turbine Facility Repowering is a repowering project that would include retiring Eastern Generation Gowanus Barges# 1, 2, 3, and 4 (PTIDs 24077 through 24080, 24084, 24111 through 24137). The Q#778 Gowanus Gas Turbine Facility Repowering, as proposed, will have a total ERIS capability of 549 MW (Summer) and 588 MW (Winter) and CRIS (Summer) of 578.4 MW (CRIS transfer at same location).
9	Q#791 Danskammer Energy Center is a repowering project that would include retiring Danskammer units# 1, 2, 3, and 4 (PTIDs 23586 and 23589 through 23591). The Q#791 Danskammer Energy Center, as proposed, will have a total ERIS capability of 595.5 MW (Summer) and 600.0 MW (Winter) and CRIS (Summer) of 600.0 MW (88.9 MW Summer CRIS increase).
10	Projects obtain CRIS via Class Year 2019
11	Projects obtain CRIS via Expediated Deliverability Study 2020-01
12	Q#987 is a 44 MW uprate of Q#766.
13	Q#959 is a 500 MW uprate of Q#958.

Table IV-2: Proposed Generator Re-ratings¹, as of March 15, 2021

QUEUE POS.	OWNER / OPERATOR	STATION	UNIT	ZONE	DATE (3)	PTID	Class Year	INCREMENTAL CAPABILITY (MW)				TOTAL CAPABILITY (MW)				Notes
								Nameplate Rating	CRIS	SUMMER	WINTER	Nameplate Rating	CRIS	SUMMER	WINTER	
758	Sithe/Independence Power Partners, LP	Sithe Independence		C	TBD	23970	(2)	0.0	0.0	10.9	27.1	1,254.0	1,013.0	1,012.0	1,212.0	
Total								0.0	0.0	10.9	27.1	1,254.0	1,013.0	1,012.0	1,212.0	

1. Re-ratings other than de minimis increases in capacity permitted by Section 30.3.1 of Attachments X and Section 32.1.3 of Attachment Z to the OATT.

2. Projects that are potential candidates Class Year 2021, 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.

3. 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

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

Table IV-3: Deactivated Units with Unexpired CRIS Rights Not Listed in Existing Generating Facilities Table III-2, as of March 15, 2021

OWNER / OPERATOR	STATION UNIT	ZONE	DATE ⁽¹⁾	PTID	CRIS (MW)		CAPABILITY (MW)		Status ⁽³⁾
					SUMMER ⁽²⁾	WINTER ⁽²⁾	SUMMER ⁽²⁾	WINTER ⁽²⁾	
International Paper Company	Ticonderoga ⁽⁴⁾	F	05/01/2017	23804	7.6		9.5	9.8	See Note
Helix Ravenswood, LLC	Ravenswood 2-1	J	04/01/2018	24244	40.4	51.4	31.4	41.7	I
Helix Ravenswood, LLC	Ravenswood 2-2	J	04/01/2018	24245	37.6	47.8	29.9	41.9	I
Helix Ravenswood, LLC	Ravenswood 2-3	J	04/01/2018	24246	39.2	49.9	28.9	37.3	I
Helix Ravenswood, LLC	Ravenswood 2-4	J	04/01/2018	24247	39.8	50.6	30.7	41.6	I
Helix Ravenswood, LLC	Ravenswood 3-1	J	04/01/2018	24248	40.5	51.5	31.9	40.8	I
Helix Ravenswood, LLC	Ravenswood 3-2	J	04/01/2018	24249	38.1	48.5	29.4	40.3	I
Helix Ravenswood, LLC	Ravenswood 3-4	J	04/01/2018	24251	35.8	45.5	31.2	40.8	I
Exelon Generation Company LLC	Monroe Livingston	B	09/01/2019	24207	2.4	2.4	2.4	2.4	R
Innovative Energy Systems, Inc.	Steuben County LF	C	09/01/2019	323667	3.2	3.2	3.2	3.2	R
Consolidated Edison Co. of NY, Inc	Hudson Ave 4	J	09/10/2019	23540	13.9	18.2	14.0	16.3	R
New York State Elec. & Gas Corp.	Auburn - State St	C	10/01/2019	24147	5.8	6.2	4.1	7.3	R
Cayuga Operating Company, LLC	Cayuga 1	C	06/04/2020	23584	154.1	154.1	151.0	152.0	R
Cayuga Operating Company, LLC	Cayuga 2	C	06/04/2020	23585	154.7	154.7	139.6	158.0	R
Albany Energy LLC	Albany LFGE	F	07/01/2020	323615	4.5	4.5	5.6	5.6	I
Total					617.6	688.5	542.8	639.0	

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. Resource is currently participating in the ICAP Market as a Special Case Resource (SCR).

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

Table IV-4: Deactivated Units Listed in Existing Generating Facilities Table III-2, as of March 15, 2021

OWNER / OPERATOR	STATION	UNIT	ZONE	DATE	PTID	CRIS (MW)		CAPABILITY (MW)		Status ⁽¹⁾
						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
Astoria Generating Company L.P.	Gowanus 1-8 ⁽³⁾		J	02/01/2021	24113	16.1	21.0	16.0	21.0	I
Total						1,729.1	1,734.0	1,703.9	1,734.8	

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, 2021

OWNER / OPERATOR	STATION	UNIT	ZONE	DATE ⁽²⁾	PTID	CRIS (MW)		CAPABILITY (MW)		Notes
						SUMMER	WINTER	SUMMER	WINTER	
National Grid	West Babylon 4 ⁽³⁾		K	12/12/2020	23714	49.0	64.0	41.2	63.4	1
Long Island Power Authority	Glenwood GT 01 ⁽³⁾		K	02/28/2021	23712	14.6	19.1	13.0	15.3	1
Entergy Nuclear Power Marketing, LLC	Indian Point 3		H	04/30/2021	23531	1,040.4	1,040.4	1,036.3	1,038.3	1
Total						1,104.0	1,123.5	1,090.5	1,117.0	

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	19.3	24.8	2
Central Hudson Gas & Elec. Corp.	South Cairo	G	05/01/2023	23612	19.8	25.9	18.4	22.9	2
Consolidated Edison Co. of NY, Inc.	74 St. GT 1 & 2	J	05/01/2023	24260-24261	39.1	49.2	39.3	42.4	2
NRG Power Marketing, LLC	Astoria GT 2-1, 2-2, 2-3, 2-4	J	05/01/2023	24094-24097	165.8	204.1	140.4	181.7	2
NRG Power Marketing, LLC	Astoria GT 3-1, 3-2, 3-3, 3-4	J	05/01/2023	24098-24101	170.7	210.0	142.3	180.8	2
NRG Power Marketing, LLC	Astoria GT 4-1, 4-2, 4-3, 4-4	J	05/01/2023	24102-24105	167.9	206.7	133.7	178.4	2
Astoria Generating Company, L.P.	Gowanus 1-1 through 1-7	J	05/01/2023	24077-24080, 24084, 24111-24112	122.6	160.1	124.7	159.7	3
Astoria Generating Company, L.P.	Gowanus 4-1 through 4-8	J	05/01/2023	24130-24137	140.1	182.9	142.5	184.5	3
Consolidated Edison Co. of NY, Inc.	Hudson Ave 3	J	05/01/2023	23810	16.0	20.9	16.6	19.5	2
Consolidated Edison Co. of NY, Inc.	Hudson Ave 5	J	05/01/2023	23657	15.1	19.7	14.2	18.5	2
Helix Ravenswood, LLC	Ravenswood 01	J	05/01/2023	23729	8.8	11.5	7.7	9.4	2
Helix Ravenswood, LLC	Ravenswood 10	J	05/01/2023	24258	21.2	27.0	16.0	21.8	2
Helix Ravenswood, LLC	Ravenswood 11	J	05/01/2023	24259	20.2	25.7	16.1	22.2	2
National Grid	Northport GT	K	05/01/2023	23718	13.8	18.0	11.9	15.6	2
National Grid	Port Jefferson GT 01	K	05/01/2023	23713	14.1	18.4	12.7	17.5	2
Consolidated Edison Co. of NY, Inc.	59 St. GT 1	J	05/01/2025	24138	15.4	20.1	15.6	19.5	2
NRG Power Marketing, LLC	Arthur Kill GT 1	J	05/01/2025	23520	16.5	21.6	12.2	15.8	2
Astoria Generating Company, L.P.	Astoria GT 01	J	05/01/2025	23523	15.7	20.5	13.6	19.3	3
Astoria Generating Company, L.P.	Gowanus 2-1 through 2-8	J	05/01/2025	24114-24121	152.8	199.6	144.1	185.0	3
Astoria Generating Company, L.P.	Gowanus 3-1 through 3-8	J	05/01/2025	24122-24129	146.8	191.7	136.5	179.4	3
Astoria Generating Company, L.P.	Narrows 1-1 through 2-8	J	05/01/2025	24228-24243	309.1	403.6	291.5	376.2	3
Total					1,613.1	2,063.2	1,469.3	1,894.9	

1. Units listed have not provided a notice to the NYSPSC 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.

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Section V

Load & Capacity Schedule

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Section V

This section provides a summary of NYCA load and capacity from 2020 through 2031 (as of March 15, 2021). Table V-1 summarizes Net Capacity Purchases (MW) from External Control Areas from 2021 through 2031. Table V-2a summarizes the NYCA Load and Capacity Schedule for the Summer Capability Period from 2020 through 2031. Table V-2b summarizes the NYCA Load and Capacity Schedule for the Winter Capability Period from 2020-21 through 2031-32. For reference, the values for the summer of 2020 and winter of 2020-21 are repeated from the *2020 Gold Book*. 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.

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 1,195 MW of summer capacity and 630 MW of winter capacity. Tables V-2a and V-2b include the summer and winter capacity projections for SCR.

The NYCA resource capability for the 2021 Summer Capability Period is 38,984 MW. This value is the sum of existing facilities (38,670 MW), SCR (1,195 MW), and net generation changes (-881 MW). With the inclusion of net Capacity purchases of 2,087 MW, the total resource capability is 41,071 MW.

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Definitions of Labels on Load & Capacity Schedule

Existing Generating Facilities	Generating facilities that have been in operation prior to the peak demand
Additions	Generating additions expected prior to the seasonal peak demand
Re-rates	Generating re-rates expected prior to the seasonal peak demand
Noticed Deactivations	Noticed generator deactivations (retirements, mothballs, generator outages) 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
NYCA Resource Capability	Summation of all existing generation, additions, re-ratings, retirements and Special Case Resources
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
Unforced Capability Deliverability Right (UDR)	Controllable transmission project that provides a transmission interface into NYCA
Total Resource Capability	The sum of NYCA Resource Capability and Net Purchases
Peak Demand Forecast	Baseline forecast of coincident peak demand of the New York Control Area
Installed Reserve	Total Resource Capability minus Peak Demand Forecast.
Installed Reserve Percent	Installed Reserve divided by Peak Demand Forecast expressed as a percentage
Proposed Resource Changes	All proposed generator additions, re-ratings and retirements from Section IV, except those that have met Base Case inclusion rules as described in the Reliability Planning Process (RPP) manual
Adjusted Resource Capability	The Total Resource Capability plus all Proposed Resource Changes
Adjusted Installed Reserve	Adjusted Resource Capability minus Peak Demand Forecast
Adjusted Installed Reserve Percent	Adjusted Installed Reserve divided by Peak Demand Forecast expressed as a percentage
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

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

SUMMER NET CAPACITY PURCHASES (1, 2, 3)

MW

2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
2,086.5	1,810.7	1,795.2	1,617.5	1,952.3	1,952.3	1,952.3	1,952.3	1,952.3	1,952.3	1,952.3

WINTER NET CAPACITY PURCHASES (1, 2, 3)

MW

2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	2031/32
1,546.4	1,200.1	1,183.2	1,005.5	1,340.3	1,340.3	1,340.3	1,340.3	1,340.3	1,340.3	1,340.3

(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 2025, excluding wheel transactions from HQ to ISO-NE.

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

SUMMER CAPABILITY		2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Totals
Fossil	Steam Turbine (Oil)	818.7	761.7	761.7	761.7	761.7	761.7	761.7	761.7	761.7	761.7	761.7	761.7	
	Steam Turbine (Oil & Gas)	8,456.3	8,440.4	8,440.4	8,440.4	8,440.4	8,440.4	8,440.4	8,440.4	8,440.4	8,440.4	8,440.4	8,440.4	
	Steam Turbine (Gas)	1,473.1	1,533.1	1,533.1	1,533.1	1,533.1	1,533.1	1,533.1	1,533.1	1,533.1	1,533.1	1,533.1	1,533.1	
	Steam Turbine (Coal)	676.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Combined Cycle (Oil & Gas)	8,485.3	8,527.2	8,527.2	8,527.2	8,527.2	8,625.3	8,625.3	8,625.3	8,625.3	8,625.3	8,625.3	8,625.3	
	Combined Cycle (Gas)	2,529.0	2,561.0	2,561.0	2,561.0	2,561.0	2,561.0	2,561.0	2,561.0	2,561.0	2,561.0	2,561.0	2,561.0	
	Jet Engine (Oil)	671.4	628.7	628.7	628.7	628.7	628.7	628.7	628.7	628.7	628.7	628.7	628.7	
	Jet Engine (Oil & Gas)	1,279.7	1,334.7	1,334.7	1,334.7	886.2	886.2	886.2	886.2	886.2	886.2	886.2	886.2	
	Jet Engine (Gas)	52.8	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	
	Combustion Turbine (Oil)	919.9	929.6	859.4	859.4	479.1	479.1	479.1	479.1	479.1	479.1	479.1	479.1	
	Combustion Turbine (Oil & Gas)	979.6	982.9	982.9	982.9	1,394.6	1,394.6	806.9	806.9	806.9	806.9	806.9	806.9	
	Combustion Turbine (Gas)	659.2	659.3	659.3	659.3	651.6	651.6	625.8	625.8	625.8	625.8	625.8	625.8	
	Internal Combustion (Oil)	6.0	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	
	Internal Combustion (Oil & Gas)	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	
Internal Combustion (Gas)	11.1	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0		
Pumped Storage	Pumped Storage Hydro	1,407.1	1,406.8	1,406.8	1,406.8	1,406.8	1,406.8	1,406.8	1,406.8	1,406.8	1,406.8	1,406.8	1,406.8	
Nuclear	Steam (PWR Nuclear)	2,628.4	1,615.9	579.6	579.6	579.6	579.6	579.6	579.6	579.6	579.6	579.6	579.6	
	Steam (BWR Nuclear)	2,762.4	2,762.4	2,762.4	2,762.4	2,762.4	2,762.4	2,762.4	2,762.4	2,762.4	2,762.4	2,762.4	2,762.4	
Renewable	Conventional Hydro (5)	4,247.1	4,259.3	4,259.3	4,259.3	4,259.3	4,259.3	4,259.3	4,259.3	4,259.3	4,259.3	4,259.3	4,259.3	
	Internal Combustion (Methane) (5)	101.7	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	
	Steam Turbine (Wood) (5)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Steam Turbine (Refuse) (5)	225.3	222.5	241.5	241.5	241.5	241.5	241.5	241.5	241.5	241.5	241.5	241.5	
	Wind (5) (6)	1,739.2	1,817.6	2,023.8	2,123.8	3,322.2	3,560.6	3,560.6	3,560.6	3,560.6	3,560.6	3,560.6	3,560.6	
	Energy Storage	0.0	0.0	0.0	0.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	
	Solar (5) (8)	31.5	31.5	31.5	54.4	950.9	1,280.9	1,280.9	1,280.9	1,280.9	1,280.9	1,280.9	1,280.9	
EXISTING GENERATING FACILITIES		40,190.6	38,670.4	37,789.1	37,912.0	39,782.1	40,448.6	39,835.1	39,835.1	39,835.1	39,835.1	39,835.1	39,835.1	
Expected Changes	Expected Changes													
	Additions and Re-rates (2)	0.0	225.2	122.9	2,725.9	666.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,740.5
	Noticed Deactivations (9)	-1,693.5	-1,106.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1,106.5
	DEC Peaker Rule Compliance (11)	0.0	0.0	0.0	-855.8	0.0	-613.5	0.0	0.0	0.0	0.0	0.0	0.0	-1,469.3
	Subtotal of Expected Changes	-1,693.5	-881.3	122.9	1,870.1	666.5	-613.5	0.0	0.0	0.0	0.0	0.0	0.0	1,164.7
Special Case Resources - SCR (3)	1,281.9	1,195.0	1,195.0	1,195.0	1,195.0	1,195.0	1,195.0	1,195.0	1,195.0	1,195.0	1,195.0	1,195.0	1,195.0	
NYCA RESOURCE CAPABILITY		39,779.0	38,984.1	39,107.0	40,977.1	41,643.6	41,030.1	41,030.1	41,030.1	41,030.1	41,030.1	41,030.1	41,030.1	
Contracts	Net Capacity Purchases (1) (7)	1,562.2	2,086.5	1,810.7	1,795.2	1,617.5	1,952.3	1,952.3	1,952.3	1,952.3	1,952.3	1,952.3	1,952.3	
TOTAL RESOURCE CAPABILITY		41,341.2	41,070.6	40,917.7	42,772.3	43,261.1	42,982.4	42,982.4	42,982.4	42,982.4	42,982.4	42,982.4	42,982.4	
BASE FORECAST														
Peak Demand Forecast			32,327.0	32,178.0	31,910.0	31,641.0	31,470.0	31,326.0	31,278.0	31,284.0	31,348.0	31,453.0	31,565.0	
Installed Reserve			8,743.6	8,739.7	10,862.3	11,620.1	11,512.4	11,656.4	11,704.4	11,698.4	11,634.4	11,529.4	11,417.4	
Installed Reserve Percent (4)			27.0	27.2	34.0	36.7	36.6	37.2	37.4	37.4	37.1	36.7	36.2	
Proposed Resource Changes (10)			0.0	408.0	408.0	1,579.0	3,211.0	3,211.0	3,211.0	3,211.0	3,211.0	3,211.0	3,211.0	
Adjusted Resource Capability			41,070.6	41,325.7	43,180.3	44,840.1	46,193.4	46,193.4	46,193.4	46,193.4	46,193.4	46,193.4	46,193.4	
Adjusted Installed Reserve			8,743.6	9,147.7	11,270.3	13,199.1	14,723.4	14,867.4	14,915.4	14,909.4	14,845.4	14,740.4	14,628.4	
Adjusted Installed Reserve Percent			27.0	28.4	35.3	41.7	46.8	47.5	47.7	47.7	47.4	46.9	46.3	

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

WINTER CAPABILITY		2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	2031/32	Totals
Fossil	Steam Turbine (Oil)	776.0	821.5	821.5	821.5	821.5	821.5	821.5	821.5	821.5	821.5	821.5	821.5	
	Steam Turbine (Oil & Gas)	8,493.1	8,488.0	8,488.0	8,488.0	8,488.0	8,488.0	8,488.0	8,488.0	8,488.0	8,488.0	8,488.0	8,488.0	
	Steam Turbine (Gas)	1,496.8	1,554.3	1,554.3	1,554.3	1,554.3	1,554.3	1,554.3	1,554.3	1,554.3	1,554.3	1,554.3	1,554.3	
	Steam Turbine (Coal)	684.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Combined Cycle (Oil & Gas)	9,673.4	9,774.3	9,774.3	9,774.3	9,868.3	9,868.3	9,868.3	9,868.3	9,868.3	9,868.3	9,868.3	9,868.3	9,868.3
	Combined Cycle (Gas)	2,860.0	2,849.4	2,849.4	2,849.4	2,849.4	2,849.4	2,849.4	2,849.4	2,849.4	2,849.4	2,849.4	2,849.4	2,849.4
	Jet Engine (Oil)	797.8	753.1	753.1	753.1	753.1	753.1	753.1	753.1	753.1	753.1	753.1	753.1	753.1
	Jet Engine (Oil & Gas)	1,503.9	1,543.9	1,543.9	1,543.9	959.0	959.0	959.0	959.0	959.0	959.0	959.0	959.0	959.0
	Jet Engine (Gas)	57.9	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
	Combustion Turbine (Oil)	1,178.4	1,192.7	1,093.0	1,093.0	956.6	956.6	956.6	956.6	956.6	956.6	956.6	956.6	956.6
	Combustion Turbine (Oil & Gas)	1,221.1	1,207.5	1,207.5	1,207.5	1,620.7	1,620.7	1,601.2	1,601.2	1,601.2	1,601.2	1,601.2	1,601.2	1,601.2
	Combustion Turbine (Gas)	685.5	684.9	684.9	684.9	675.5	675.5	659.7	659.7	659.7	659.7	659.7	659.7	659.7
	Internal Combustion (Oil)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
	Internal Combustion (Oil & Gas)	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4
Internal Combustion (Gas)	11.1	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	
Pumped Storage	Pumped Storage Hydro	1,405.1	1,406.7	1,406.7	1,406.7	1,406.7	1,406.7	1,406.7	1,406.7	1,406.7	1,406.7	1,406.7	1,406.7	
Nuclear	Steam (PWR Nuclear)	2,648.7	1,620.2	581.9	581.9	581.9	581.9	581.9	581.9	581.9	581.9	581.9	581.9	
	Steam (BWR Nuclear)	2,774.8	2,784.5	2,784.5	2,784.5	2,784.5	2,784.5	2,784.5	2,784.5	2,784.5	2,784.5	2,784.5	2,784.5	
Renewable	Conventional Hydro (5)	4,201.4	4,213.5	4,213.5	4,213.5	4,213.5	4,213.5	4,213.5	4,213.5	4,213.5	4,213.5	4,213.5	4,213.5	
	Internal Combustion (Methane) (5)	101.7	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	
	Steam Turbine (Wood) (5)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Steam Turbine (Refuse) (5)	224.0	229.7	252.2	252.2	252.2	252.2	252.2	252.2	252.2	252.2	252.2	252.2	
	Wind (5) (6)	1,739.2	1,817.6	2,123.8	2,983.1	3,560.6	3,560.6	3,560.6	3,560.6	3,560.6	3,560.6	3,560.6	3,560.6	3,560.6
	Energy Storage	0.0	0.0	0.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0
	Solar (5) (8)	31.5	31.5	54.4	950.9	1,280.9	1,280.9	1,280.9	1,280.9	1,280.9	1,280.9	1,280.9	1,280.9	1,280.9
EXISTING GENERATING FACILITIES		42,601.2	41,172.0	40,385.6	42,341.4	43,025.4	43,025.4	42,990.1	42,990.1	42,990.1	42,990.1	42,990.1	42,990.1	
Expected Changes	Expected Changes													
	Additions and Re-rates (2)	966.7	351.6	1,955.8	1,439.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,746.9
	Noticed Deactivations (9)	-1,784.8	-1,138.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1,138.0
	DEC Peaker Rule Compliance (11)	0.0	0.0	0.0	-755.5	0.0	-35.3	0.0	0.0	0.0	0.0	0.0	0.0	-790.8
Subtotal of Expected Changes		-818.1	-786.4	1,955.8	684.0	0.0	-35.3	0.0	0.0	0.0	0.0	0.0	0.0	1,818.1
Special Case Resources - SCR (3)		838.5	630.2	630.2	630.2	630.2	630.2	630.2	630.2	630.2	630.2	630.2	630.2	
NYCA RESOURCE CAPABILITY		42,621.6	41,015.8	42,971.6	43,655.6	43,655.6	43,620.3	43,620.3	43,620.3	43,620.3	43,620.3	43,620.3	43,620.3	
Contracts	Net Capacity Purchases (1) (7)	495.8	1,546.4	1,200.1	1,183.2	1,005.5	1,340.3	1,340.3	1,340.3	1,340.3	1,340.3	1,340.3	1,340.3	
TOTAL RESOURCE CAPABILITY		43,117.4	42,562.2	44,171.7	44,838.8	44,661.1	44,960.6	44,960.6	44,960.6	44,960.6	44,960.6	44,960.6	44,960.6	
BASE FORECAST														
Peak Demand Forecast			24,025.0	24,065.0	24,095.0	24,072.0	24,065.0	24,160.0	24,359.0	24,583.0	24,879.0	25,252.0	25,757.0	
Installed Reserve			18,537.2	20,106.7	20,743.8	20,589.1	20,895.6	20,800.6	20,601.6	20,377.6	20,081.6	19,708.6	19,203.6	
Installed Reserve Percent (4)			77.2	83.6	86.1	85.5	86.8	86.1	84.6	82.9	80.7	78.0	74.6	

Notes for Table V-2 Load & 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 completed a Class Year Study, as shown in Table IV-1. These MW values do not necessarily reflect the additions and re-rates assumed in NYISO studies, each of which have their own inclusion rules.
(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 Installed Reserve Margin requirement determined by the NYSRC for the 2021 - 2022 Capability Year is 20.7%. The Installed Reserve Percent calculated in Table V-2a should be compared to the Installed Reserve Margin requirement in the 2021 - 2022 Capability Year.
(5)	The renewable category does not necessarily match New York State policy definitions.
(6)	Existing wind generators are listed at their full nameplate rating.
(7)	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.
(8)	Existing solar generators are listed at their full nameplate rating.
(9)	Noticed deactivations as shown in Table IV-5. Existing Retirements in Table IV-4 are accounted for in the list of 2021 Existing Generating Facilities.
(10)	Proposed Resource Changes: Projects that are members of the ongoing Class Year 2019 Additional SDU Study, as shown in Table IV-1.
(11)	Proposed generator status changes to comply with DEC Peaker Rule, as shown in Table IV-6.

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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, 2021). The information in Table VI-1 is redacted as it may contain Critical Energy Infrastructure Information.

A version of the 2021 *Gold Book* that includes this table is available to individuals with a *myNYISO* account. To access a version of the 2021 *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	230.1	4.1	0.0	0.0	0.0	0.0	76.1	0.0	0.0	0.0			310.3			
CONSOLIDATED EDISON EDISON COMPANY OF NEW YORK, INC	0.0	0.0	21.7	214.5	(a)	0.4	0.0	422.3	(b) (i)	185.2	(h)	5.3	0.0	849.4	(b)	
LONG ISLAND POWER AUTHORITY	0.0	0.0	245.2	168.9	(e)	0.0	0.0	0.0	9.3	(g)	0.0	0.0	24.0	66.0	(g)	513.4
NEW YORK POWER AUTHORITY	52.2	(f)	1.8	0.0	0.0	337.3	0.0	884.3	42.8	0.0	155.2					1,473.5
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	4,108.2	22.9	0.0	0.0	498.4	20.2	687.8	0.4	0.0	0.0						5,337.9
ORANGE AND ROCKLAND UTILITIES INC.	0.0	0.0	86.0	6.9	(a)	0.0	0.0	64.0	(b)	3.4	(d)	0.0	0.0			160.3
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							11.8									11.8
TOTALS BY kV CLASS (c)	6,163.4	73.4	352.9	390.4		1,077.2	20.2	2,649.4	241.1	5.3	155.2	24.0	66.0	11,218.5	(c)	

TOTAL OVERHEAD = 10,403.5 (c)
 TOTAL UNDERGROUND = 815.0 (c)
 TOTAL = 11,218.5 (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, 2021). Projects that were placed in-service since the publication of the 2020 *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)	Expected In-Service Date/Yr		Nominal Voltage In kV		# of ckts	Thermal Ratings (4)		Project Description / Conductor Size	Class Year / Type of Construction	
				Prior to (2)	Year	Operating	Design		Summer	Winter			
Class Year Transmission Projects (18)													
[506]	Empire State Connector Corp.	Marcy 345kV	Gowanus 345kV	320	W	2021	320	320	1	1000 MW	1000 MW	-/+ 320kV Bipolar HVDC cable	TBD
[631].15	Transmission Developers Inc.	Hertel 735kV (Quebec)	Astoria Annex 345kV	333	W	2026	400	320	1	1000 MW	1000 MW	-/+ 320kV Bipolar HVDC cable	TBD
[458].15	Transmission Developers Inc.	Hertel 735kV (Quebec)	Astoria Annex 345kV	333	W	2026	400	320	1	1000 MW	1000 MW	-/+ 320kV Bipolar HVDC cable	2019
[887].15	Transmission Developers Inc.	Hertel 735kV (Quebec)	Astoria Annex 345kV	333	W	2026	400	320	1	250 MW	250 MW	-/+ 320kV Bipolar HVDC cable	TBD
TIP Projects (19) (Included in FERC 715 Base Case)													
[430]	H.Q. Energy Services U.S. Inc.	Dennison	Alcoa	3	W	2020	115	115	1	1513	1851	954 ACSR	OH
545A	NextEra Energy Transmission NY	Dysinger (New Station)	East Stolle (New Station)	20	S	2022	345	345	1	1356 MVA	1612 MVA	Western NY - Empire State Line Project	OH
545A	NextEra Energy Transmission NY	Dysinger (New Station)	Dysinger (New Station)	PAR	S	2022	345	345	1	700 MVA	700 MVA	Western NY - Empire State Line Project	
556	NGRID	Porter	Rotterdam	-71.8	S	2022	230	230	1	1105	1284	AC Transmission Project Segment A/1-795 ACSR/1-1431 ACSR	
556	NGRID	Porter	Rotterdam	-72.0	S	2022	230	230	1	1105	1284	AC Transmission Project Segment A/1-795 ACSR/1-1431 ACSR	
556	NGRID	Edic	New Scotland	-83.5	S	2022	345	345	1	2228	2718	AC Transmission Project Segment A/2-795 ACSR	
556	NGRID	Rotterdam	New Scotland	-18.1	S	2022	115	230	1	1212	1284	AC Transmission Project Segment A/1-1033.5 ACSR/1-1192.5 ACSR	
556	LSP/NGRID	Edic	Gordon Rd (New Station)	69.0	S	2022	345	345	1	2228	2718	AC Transmission Project Segment A/2-795 ACSR/2-954 ACSS	
556	LSP/NGRID	Gordon Rd (New Station)	New Scotland	25.0	S	2022	345	345	1	2228	2718	AC Transmission Project Segment A/2-795 ACSR/2-954 ACSS	
556	LSP	Gordon Rd (New Station)	Rotterdam	transformer	S	2022	345/230	345/230	2	478 MVA	478 MVA	AC Transmission Project Segment A	
556	LSP/NGRID	Gordon Rd (New Station)	New Scotland	-25.0	S	2023	345	345	1	2228	2718	AC Transmission Project Segment A/2-795 ACSR/2-954 ACSS	
556	LSP	Gordon Rd (New Station)	Princeton (New Station)	5.2	S	2023	345	345	1	3410	3709	AC Transmission Project Segment A/2-954 ACSS	
556	LSP	Princeton (New Station)	New Scotland	20.2	S	2023	345	345	2	3410	3709	AC Transmission Project Segment A/2-954 ACSS	
556	LSP/NGRID	Princeton (New Station)	New Scotland	19.8	S	2023	345	345	1	2228	2718	AC Transmission Project Segment A/2-795 ACSR	
556	LSP/NYPA/NGRID	Edic	Princeton (New Station)	66.9	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	2	478 MVA	478 MVA	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	478 MVA	478 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	650 MVA	650 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	O&R	Shoemaker, Middle	Sugarloaf, Chester	-12.0	W	2023	138	138	1	1098	1312	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	New York Transco	Schodack	Churchtown	26.7	W	2023	115	115	1	648	798	AC Transmission Project Segment B	
543	New York Transco	Churchtown	Pleasant Valley	32.2	W	2023	115	115	1	623	733	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	
543	New York Transco	Knickerbocker (New Station)	Pleasant Valley	54.2	W	2023	345	345	1	3862	4103	AC Transmission Project Segment B	
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	328	402	AC Transmission Project Segment B; 1-1590 ACSR	OH
543	New York Transco	Sugarloaf	Sugarloaf	Transformer	W	2023	138/115	138/115	---	329	329	AC Transmission Project Segment B	
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/Con Ed	Van Wagner (New Station)	Pleasant Valley	0.75	W	2023	345	345	1	3126	3704	Loop Line into new Van Wagner Substation/Reconductor w/2-795 ACSS	OH
543	New York Transco/Con Ed	Van Wagner (New Station)	Pleasant Valley	0.75	W	2023	345	345	1	3126	3704	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 398 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

Table VII: Proposed Transmission Facilities (Cont.)

[Project Queue Position] / Project Notes	Transmission Owner	Terminals		Line Length In Miles (1)	Expected In-Service Date/Yr		Nominal Voltage In kV		# of ckts	Thermal Ratings (4)		Project Description / Conductor Size	Class Year / Type of Construction
					Prior to (2)	Year	Operating	Design		Summer	Winter		
Firm Plans (6) (Included in FERC 715 Base Case)													
3	CHGE	North Chelsea	North Chelsea	xfmr	In-Service	2020	115/69	115/69	1	564	728	Replace Transformer 1	-
3	CHGE	Fishkill Plains	East Fishkill	2.05	In-Service	2020	115	115	1	1172	1434	1-1033 ACSR	OH
3	CHGE	North Catskill	North Catskill	xfmr	In-Service	2020	115/69	115/69	2	560	726	Replace Transformer 4	-
	CHGE	North Catskill	North Catskill	xfmr	S	2021	115/69	115/69	1	560	726	Replace Transformer 5	-
14	CHGE	Hurley Avenue	Leeds	Static synchronous series compensator	S	2022	345	345	1	2336	2866	21% Compensation	-
	CHGE	Rock Tavern	Sugarloaf	12.10	W	2022	115	115	1	N/A	N/A	Retire SL Line	OH
	CHGE	Sugarloaf	NY/NJ State Line	10.30	W	2022	115	115	2	N/A	N/A	Retire SD/SJ Lines	OH
11	CHGE	St. Pool	High Falls	5.61	W	2023	115	115	1	1010	1245	1-795 ACSR	OH
11	CHGE	High Falls	Kerhonkson	10.03	W	2023	115	115	1	1010	1245	1-795 ACSR	OH
11	CHGE	Modena	Galeville	4.62	W	2023	115	115	1	1010	1245	1-795 ACSR	OH
11	CHGE	Galeville	Kerhonkson	8.96	W	2023	115	115	1	1010	1245	1-795 ACSR	OH
	CHGE	Hurley Ave	Saugerties	11.40	W	2023	69	115	1	1114	1359	1-795 ACSR	OH
	CHGE	Kerhonkson	Kerhonkson	xfmr	W	2023	115/69	115/69	1	564	728	Add Transformer 3	-
	CHGE	Kerhonkson	Kerhonkson	xfmr	W	2023	115/69	115/69	1	564	728	Add Transformer 4	-
	CHGE	Saugerties	North Catskill	12.46	W	2024	69	115	1	1114	1359	1-795 ACSR	OH
	CHGE	Knapps Corners	Spackenkill	2.36	W	2025	115	115	1	1280	1563	1-1033 ACSR	-
	ConEd	Buchanan North	Buchanan North	Reconfiguration	S	2022	345	345		N/A	N/A	Reconfiguration (bus work related to decommissioning of Indain Point 2)	-
	ConEd	Rainey	Rainey	xfmr	S	2022	345	345		N/A	N/A	Replacing xmrf 3W	-
	ConEd	Hudson Ave East	New Vinegar Hill Distribution Switching Station	xfmrs/PARs/Feeders	S	2022	138/27	138/27		N/A	N/A	New Vinegar Hill Distribution Switching Station	UG
	ConEd	Rainey	Corona	xfmr/PAR/Feeder	S	2023	345/138	345/138		N/A	N/A	New second PAR regulated feeder	UG
	ConEd	Gowanus	Greenwood	xfmr/PAR/Feeder	S	2025	345/138	345/138		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	New PAR regulated feeder	UG
3	LIPA	Deer Park	Deer Park	-	In-Service	2019	69	69	1	N/A	N/A	Install 27 MVAR Cap Bank	-
3	LIPA	MacArthur	MacArthur	-	In-Service	2019	69	69	1	N/A	N/A	Install 27 MVAR Cap Bank	-
6/7/3	LIPA	Meadowbrook	East Garden City	-3.11	In-Service	2020	69	69	1	458	601	4/0 CU	OH+UG
6/7/3	LIPA	East Garden City	Lindbergh	2.11	In-Service	2020	69	69	1	575	601	750 kcmil CU	OH+UG
6/7/3	LIPA	Meadowbrook	Lindbergh	2.50	In-Service	2020	69	69	1	458	601	4/0 CU	OH+UG
6/7/3	LIPA	Elmont	Floral Park	-1.59	In-Service	2020	34.5	34.5	1	644	816	477 AL	OH+UG
6/7/3	LIPA	Elmont	Belmont	1.82	In-Service	2020	34.5	34.5	1	342	457	2/0 CU	OH+UG
6/7/3	LIPA	Belmont	Floral Park	2.04	In-Service	2020	34.5	34.5	1	644	816	477 AL	OH+UG
3	LIPA	Valley Stream	East Garden City	7.36	In-Service	2020	138	138	1	1128	1195	New line / 2000 SQMM XLPE	UG
6/7	LIPA	Amagansett	Montauk	-13.00	S	2021	23	23	1	577	657	750 kcmil CU	UG
6/7	LIPA	Amagansett	Navy Road	12.74	S	2021	23	23	1	577	657	750 kcmil CU	UG
6/7	LIPA	Navy Road	Montauk	0.26	S	2021	23	23	1	577	657	750 kcmil CU	UG
9	LIPA	Riverhead	Wildwood	10.63	S	2021	138	138	1	1399	1709	1192ACSR	-
13	LIPA	Riverhead	Canal	16.49	S	2021	138	138	1	1000	1110	2368 KCMIL (1200 mm ²) Copper XLPE	-
	LIPA	Barrett	Barrett	-	S	2021	34.5	34.5	1	N/A	N/A	Barrett 34.5kV Bus Tie Reconfiguration	-
3	NGRID	Rosa Rd	Rosa Rd	-	In-Service	2020	115	115		N/A	N/A	Install 35.2MVAR Cap Bank at Rosa Rd	-
6/3	NGRID	Rotterdam	Curry Rd	7	In-Service	2020	115	115	1	1105	1347	Replace 7.0 miles of mainly 4/0 Cu conductor with 795kcmil ACSR 26/7	OH
3	NGRID	Elm St	Elm St	xfmr	In-Service	2020	230/23	230/23	1	118MVA	133MVA	Add a fourth 230/23kV transformer	-
3	NGRID	West Ashville	West Ashville		In-Service	2020	115	115		N/A	N/A	New Distribution Station at West Ashville	-
7/3	NGRID	Spier	Rotterdam (#2)	-32.74	In-Service	2020	115	115	1	1168	1416	New Lasher Rd Switching Station	OH
7/3	NGRID	Spier	Lasher Rd (New Station) (#2)	21.69	In-Service	2020	115	115	1	1168	1416	New Lasher Rd Switching Station	OH
7/3	NGRID	Lasher Rd (New Station)	Rotterdam	11.05	In-Service	2020	115	115	1	2080	2392	New Lasher Rd Switching Station	OH
7/3	NGRID	Spier	Luther Forest (#302)	-34.21	In-Service	2020	115	115	1	916	1070	New Lasher Rd Switching Station	OH
7/3	NGRID	Spier	Lasher Rd (New Station) (#302)	21.72	In-Service	2020	115	115	1	916	1118	New Lasher Rd Switching Station	OH
3	NGRID	Lasher Rd (New Station)	Luther Forest	12.49	In-Service	2020	115	115	1	990	1070	New Lasher Rd Switching Station	OH
3	NGRID	Rotterdam	Rotterdam	-	In-Service	2020	115	115	2	N/A	N/A	Install Series Reactors at Rotterdam Station on lines 17 & 19	-
3	NGRID	Huntley	Lockport	6.9	In-Service	2020	115	115	2	1303	1380	Replace 6.9 miles of 36 and 37 lines	OH
3	NGRID	Two Mile Creek	Two Mile Creek		In-Service	2020	115	115		N/A	N/A	New Distribution Station at Two Mile Creek	-
6/3	NGRID	GE	Geres Lock	7.14	In-Service	2020	115	115	1	785	955	Reconductoring 4/OCU & 336 ACSR to 477 ACCR (Line #8)	-
3	NGRID	Gardenville 230kV	Gardenville 115kV	xfmr	In-Service	2020	230/115	230/115	-	347 MVA	422 MVA	Replacement of 230/115kV TB#4 stepdown with larger unit	-
3	NGRID	Gardenville 115kV	Gardenville 115kV	-	In-Service	2020	-	-	-	-	-	Rebuild of Gardenville 115kV Station to full breaker and a half	-
	NGRID	Oswego	Oswego	-	W	2020	115	115		N/A	N/A	Rebuild of Oswego 115kV Station	-

Table VII: Proposed Transmission Facilities (Cont.)

[Project Queue Position] / Project Notes	Transmission Owner	Terminals		Line Length In Miles (1)	Expected In-Service Date/Yr		Nominal Voltage In kV		# of ckt	Thermal Ratings (4)		Project Description / Conductor Size	Class Year / Type of Construction
					Prior to (2)	Year	Operating	Design		Summer	Winter		
6	NGRID	Clay	Dewitt	10.24	S	2021	115	115	1	220MVA	268MVA	Reconductor 4/0 CU to 795ACSR	OH
6	NGRID	Clay	Teall	12.75	S	2021	115	115	1	220 MVA	268MVA	Reconductor 4/0 CU to 795ACSR	OH
	NGRID	Gardenville 230kV	Gardenville 115kV	xfmr	S	2021	230/115	230/115	-	347 MVA	422 MVA	Replacement of 230/115kV TB#3 stepdown with larger unit	
	NGRID	Huntley 115kV	Huntley 115kV	-	S	2021	115	115	-	N/A	N/A	Rebuild of Huntley 115kV Station	
	NGRID	Mortimer	Mortimer	xfmr	S	2021	115	115		50MVA	50MVA	Replace Mortimer 115/69kV Transformer	
	NGRID	Mortimer	Mortimer	-	S	2021	115	115		N/A	N/A	Second 115kV Bus Tie Breaker at Mortimer Station	
	NGRID	Royal Ave	Royal Ave	-	S	2021	115/13.2	115/13.2	-	-	-	Install new 115-13.2 kV distribution substation in Niagara Falls (Royal Ave)	-
	NGRID	Niagara	Packard	3.4	W	2021	115	115	1	344MVA	449MVA	Replace 3.4 miles of 192 line	OH
	NGRID	Mountain	Lockport	0.08	S	2022	115	115	2	174MVA	199MVA	Mountain-Lockport 103/104 Bypass	OH
	NGRID	South Oswego	Indeck (#6)	-	S	2022	115	115	1	-	-	Install High Speed Clearing on Line #6	
	NGRID	Porter	Porter	-	S	2022	230	230		N/A	N/A	Porter 230kV upgrades	
	NGRID	Watertown	Watertown	-	S	2022	115	115		N/A	N/A	New Distribution Station at Watertown	
	NGRID	Golah	Golah	xfmr	S	2022	69	69		50MVA	50MVA	Replace Golah 69/34.5kV Transformer	
	NGRID	Niagara	Packard	3.7	S	2022	115	115	1	344MVA	449MVA	Replace 3.7 miles of 191 line	OH
	NGRID	Lockport	Mortimer	56.5	S	2022	115	115	3	-	-	Replace Cables Lockport-Mortimer #111, 113, 114	
6	NGRID	Niagara	Packard	3.7	W	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	Seneca	Seneca	xfmr	W	2022	115/22	115/22		40MVA	40MVA	Seneca #5 xfmr asset replacement	
	NGRID	Batavia	Batavia	-	W	2022	115	115				Batavia replace five OCB's	
	NGRID	Cortland	Clarks Corners	0.2	S	2023	115	115	1	147MVA	170MVA	Replace 0.2 miles of 1(716) line and series equipment	OH
	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	Elm St	Elm St	-	S	2023	230/23	230/23	-	118MVA	133MVA	Replace TR2 as failure	
	NGRID	Ridge	Ridge	-	S	2023				N/A	N/A	Ridge substation 34.5kV rebuild	
	NGRID	Wolf Rd	Menands	1.34	W	2023	115	115	1	182 MVA	222 MVA	Reconductor 1.34 miles betw Wolf Rd- Everett tap (per EHI)	OH
	NGRID	Packard	Huntley	9.1	W	2023	115	115	1	262MVA	275MVA	Walck-Huntley #133, Packard-Huntley #130 Reconductor	OH
	NGRID	Walck	Huntley	9.1	W	2023	115	115	1	262MVA	275MVA	Walck-Huntley #133, Packard-Huntley #130 Reconductor	OH
	NGRID	Kensington Terminal	Kensington Terminal	-	W	2023	115/23	115/23	-	50MVA	50MVA	Replace TR4 and TR5	
	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	Station 56	Pannell	-	W	2023	115	115	1	649	788	Mortimer-Pannell #24 Loop in-and-out of NYSEG's Station 56	
	NGRID	Dunkirk	Laona	-	S	2024	115	115	2	N/A	N/A	Remove series reactors from New Road Switch Station and install new to Moons Switch Station	
	NGRID	Laona	Moons	-	S	2024	115	115	2	N/A	N/A	Remove series reactors from New Road Switch Station and install new to Moons Switch Station	
	NGRID	Golah	Golah	Reconfiguration	S	2024	115	115		-	-	Add a Golah 115kV bus tie breaker	
	NGRID	Dunkirk	Dunkirk	-	S	2024	115	115		N/A	N/A	Rebuild of Dunkirk 115kV Station	
6	NGRID	Gardenville	Dunkirk	20.5	S	2024	115	115	2	1105	1346	Replace 20.5 miles of 141 and 142 lines	OH
	NGRID	Homer Hill	Homer Hill	-	S	2024	115	115	-	116MVA	141MVA	Homer Hill Replace five OCB	
	NGRID	Golah	Golah	-	S	2024				N/A	N/A	Golah substation rebuild	
	NGRID	Pannell	Geneva	-	W	2024	115	115	2	755	940	Critical Road crossings replace on Pannell-Geneva 4/4A	
	NGRID	Oswego	Oswego	-	S	2025	345	345		N/A	N/A	Rebuild of Oswego 345kV Station	
	NGRID	Mortimer	Golah	9.7	S	2025	115	115	1	657	797	Refurbish 9.7 miles Single Circuit Wood H-Frames on Mortimer-Golah 110	
	NGRID	Huntley	Lockport	1.2	S	2025	115	115	2	747	934	Rebuild 1.2 miles of (2) single circuit taps on Huntley-Lockport 36/37 at Ayer Rd	
	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	Mortimer	Pannell	15.7	S	2026	115	115	2	221MVA	270MVA	Reconductor existing Mortimer - Pannell 24 and 25 lines with 795 ACSR	
	NGRID	Lockport	Batavia	20	S	2026	115	115	1	646	784	Rebuild 20 miles of Lockport-Batavia 112	
	NGRID	Mountain	Lockport	-	S	2026	115	115	2	847	1000	Reinsulating Mountain-Lockport 103/104	
	NGRID	SE Batavia	Golah	27.8	S	2026	115	115	1	648	846	Refurbish 27.8 miles Single Circuit Wood H-Frames on SE Batavia-Golah 119	
	NGRID	Packard	Packard	-	S	2026	115	115				Packard replace three OCB's	
	NGRID	Brockport	Brockport	3.5	W	2026	115	115	2	648	650	Refurbish 111/113 3.5 mile single circuit taps to Brockport Station	
	NGRID	Gardenville	Homer Hill	37.5	S	2027	115	115	2	649	788	Refurbish 37.5 miles double circuit Gardenville-Homer Hill 151/152	
	NGRID	Huntley	Gardenville	23.4	W	2027	115	115	2	731	887	Refurbish 23.4 miles double circuit on Huntley-Gardenville 38/39	
	NGRID	Lockport	Lockport	-	W	2027				N/A	N/A	Rebuild of Lockport Substation and control house	

Table VII: Proposed Transmission Facilities (Cont.)

[Project Queue Position] / Project Notes	Transmission Owner	Terminals		Line Length In Miles (1)	Expected In-Service Date/Yr		Nominal Voltage In kV		# of ckt	Thermal Ratings (4)		Project Description / Conductor Size	Class Year / Type of Construction
					Prior to (2)	Year	Operating	Design		Summer	Winter		
781/3	NYPA	Fraser Annex	Fraser Annex	SSR Detection	In-Service	2020	345	345	1	1793 MVA	1793 MVA	MSSC SSR Detection Project	
3	NYPA	Niagara 230 kV	Niagara 230 kV	Breaker	In-Service	2020	230	230	1	N/A	N/A	Add a new breaker	
3	NYPA	Niagara 230 kV	Niagara 115 kV	Autotransformer	In-Service	2020	230	115	1	240 MVA	240 MVA	Replace Niagara AT #1	
3	NYPA	Astoria 13.8 kV	Astoria 13.8 kV	Astoria CC GSU Refurbishment	In-Service	2020	138	18	1	234	234	Astoria CC GSU Refurbishment	
3	NYPA	Niagara	Rochester	-70.20	In-Service	2020	345	345	1	2177	2662	2-795 ACSR	
339/7/3	NYPA	Somerset	Rochester	-44.00	In-Service	2020	345	345	1	2177	2662	2-795 ACSR	
339/7/3	NYPA	Niagara	Station 255 (New Station)	66.40	In-Service	2020	345	345	1	2177	2662	2-795 ACSR	
339/7/3	NYPA	Somerset	Station 255 (New Station)	40.20	In-Service	2020	345	345	1	2177	2662	2-795 ACSR	
339/7/3	NYPA	Station 255 (New Station)	Rochester	3.80	In-Service	2020	345	345	2	2177	2662	2-795 ACSR	
	NYPA	East Garden City	East Garden City	Shunt Reactor	S	2021	345	345	1	N/A	N/A	Swap with the spare unit	
566/6	NYPA	Moses	Adirondack	78	S	2023	230	345	2	1088	1329	Replace 78 miles of both Moses-Adirondack 1&2	
3	NYSEG	Watercure Road	Watercure Road	xfmr	In-Service	2020	345/230	345/230	1	426 MVA	494 MVA	Transformer #2 and Station Reconfiguration	-
	NYSEG	Willet	Willet	xfmr	S	2021	115/34.5	115/34.5	1	39 MVA	44 MVA	Transformer #2	-
	NYSEG	Big Tree Road	Big Tree Road	Rebuild	W	2022	115	115				Station Rebuild	-
	NYSEG	Wood Street	Wood Street	xfmr	W	2022	345/115	345/115	1	327 MVA	378 MVA	Transformer #3	-
	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	Erie Street Rebuild	Erie Street Rebuild	Rebuild	S	2026	115	115				Station Rebuild	-
	NYSEG	Gardenville	Gardenville	xfmr	S	2026	230/115	230/115	1	316 MVA	370 MVA	NYSEG Transformer #3 and Station Reconfiguration	-
	NYSEG	Meyer	Meyer	xfmr	W	2026	115/34.5	115/34.5	2	59.2MVA	66.9MVA	Transformer #2	-
	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	45/115/34.5	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	-
3	O & R	West Nyack	West Nyack	Cap Bank	In-Service	2020	138	138	1	-	-	Capacitor Bank	
3	O & R	Harings Corner (RECO)	Closter (RECO)	3.20	In-Service	2020	69	69	1	1098	1312	UG Cable	
3	O & R	Ramapo	Ramapo	xfmr	In-Service	2020	345/138	345/138	1	731	731	New transformer replacement Bank 1300	
7	O & R/ConEd	Ladentown	Buchanan	-9.5	S	2023	345	345	1	3000	3211	2-2493 ACAR	
7	O & R/ConEd	Ladentown	Lovett 345 kV Station (New Station)	5.5	S	2023	345	345	1	3000	3211	2-2493 ACAR	
7	O & R/ConEd	Lovett 345 kV Station (New Station)	Buchanan	4	S	2023	345	345	1	3000	3211	2-2493 ACAR	
	O & R	Lovett 345 kV Station (New Station)	Lovett	xfmr	S	2023	345/138	345/138	1	562 MVA	562 MVA	Transformer	
3	RGE	Station 23	Station 23	xfmr	In-Service	2019	115/34.5	115/34.5	2	75 MVA	84 MVA	Transformer	-
3	RGE	Station 122-Pannell-PC1	Station 122-Pannell-PC1 and PC2		In-Service	2020	345	345	1	1314 MVA-LTE	1314 MVA-LTE	Relay Replacement	
3	RGE	Station 255 (New Station)	Rochester	3.80	In-Service	2020	345	345	1	2177	2662	2-795 ACSR	OH
3	RGE	Station 255 (New Station)	Station 255 (New Station)	xfmr	In-Service	2020	345/115	345/115	1	400 MVA	450 MVA	Transformer	-
3	RGE	Station 255 (New Station)	Station 255 (New Station)	xfmr	In-Service	2020	345/115	345/115	2	400 MVA	450 MVA	Transformer	-
3	RGE	Station 255 (New Station)	Station 418	10.49	In-Service	2020	115	115	1	300 MVA	300 MVA	New 115kV Line	OH
3	RGE	Station 255 (New Station)	Station 23	11.96	In-Service	2020	115	115	1	300 MVA	300 MVA	New 115kV Line	OH+UG
	RGE	Station 262	Station 23	1.46	S	2021	115	115	1	2008	2008	Underground Cable	
	RGE	Station 33	Station 262	2.97	S	2021	115	115	1	2008	2008	Underground Cable	
	RGE	Station 262	Station 262	xfmr	S	2021	115/34.5	115/34.5	1	58.8MVA	58.8MVA	Transformer	-
7	RGE	Station 168	Mortimer (NG Trunk #2)	26.4	W	2023	115	115	1	145 MVA	176 MVA	Station 168 Reinforcement Project	OH
7	RGE	Station 168	Elbridge (NG Trunk # 6)	45.5	W	2023	115	115	1	145 MVA	176 MVA	Station 168 Reinforcement Project	OH
	RGE	Station 127	Station 127	xfmr	W	2024	115/34.5	115/34.5	1	75MVA	75MVA	Transformer #2	-
	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	
	RGE	Station 33	Station 251 (Upgrade Line #943)		S	2026	115	115	1	400MVA	400MVA	Line Upgrade	
	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	

Table VII: Proposed Transmission Facilities (Cont.)

[Project Queue Position] / Project Notes	Transmission Owner	Terminals		Line Length In Miles (1)	Expected In-Service Date/Yr		Nominal Voltage In kV		# of ckts	Thermal Ratings (4)		Project Description / Conductor Size	Class Year / Type of Construction
					Prior to (2)	Year	Operating	Design		Summer	Winter		
Non-Firm Plans (not Included in Base Cases)													
	LIPA	Southampton	Deerfield	4.00	S	2025	69	138	1	1171	1171	2000 SQMM XLPE	
	LIPA	Syosset	Shore Rd	11.00	S	2026	138	138	1	1171	1171	2000 SQMM XLPE	
	LIPA	Syosset	Shore Rd	Phase Shifter	S	2026	138	138	1	TBD	TBD	Phase Shifter	
	NGRID	New Cicero	New Cicero		S	2021	115	115	-	N/A	N/A	New Distribution Station at New Cicero	
	NGRID	Coffeen	Coffeen	-	S	2022	115	115	-	TBD	TBD	Terminal equipment replacements	
	NGRID	Browns Falls	Browns Falls	-	S	2022	115	115	-	TBD	TBD	Terminal equipment replacements	
	NGRID	Taylorville	Taylorville	-	S	2022	115	115	-	TBD	TBD	Terminal equipment replacements	
	NGRID	Malone	Malone	-	S	2023	115	115	-	TBD	TBD	Station Rebuild	
	NGRID	Taylorville	Boonville	-	S	2023	115	115	-	TBD	TBD	Install series reactors on the 5 and 6 lines. Size TBD	
	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	Inghams 115kV	Inghams 115kV	Breaker	W	2024	115	115	-	2000	2000	Add series breaker to Inghams R15 (Inghams - Meco #15 115kV)	
	NGRID	Schenectady International	Rotterdam	0.93	W	2024	69	115	1	1114	1359	Reconductor 0.93mi of 4/0 Cu + 336.4 ACSR (of 21.08mi total) to 795 ACSR	
	NGRID	Rotterdam	Schoharie	0.93	W	2024	69	115	1	1114	1359	Reconductor 0.93mi of 4/0 Cu (of 21.08mi total) to 795 ACSR	
	NGRID	Stoner	Rotterdam	9.81	W	2025	115	115	1	1398	1708	Reconductor 9.81mi of 4/0 Cu + 336.4 ACSR (of 23.12mi total) to 1192.5 ACSR	
	NGRID	Meco	Rotterdam	9.81	W	2025	115	115	1	1398	1708	Reconductor 9.81mi of 4/0 Cu + 336.4 ACSR (of 30.79mi total) to 1192.5 ACSR	
	NYPA	Moses-St.Lawrence	Reynolds	Back to Service	W	2021	115	115	1	767	1121	MR3 line back to service to supply loads	
	NYPA	Fraser	Fraser	SVC Control	S	2022	345	345	1	TBD	TBD	Fraser SVC Control Upgrade	
	NYPA	St. Lawrence 230kV	St. Lawrence 115kV	xmfr	S	2022	230/115	230/115	1	TBD	TBD	Replacement of St. Lawrence AutoTransformer #2	
	NYPA	Astoria Annex	Astoria Annex	Shunt Reactor	S	2022	345	345	2	TBD	TBD		
	NYPA	Plattsburg 230 kV	Plattsburg 115 kV	xmfr	W	2022	230/115	230/115	1	249	288	Refurbishment of Plattsburgh Auto Transformer #1	
	NYPA	Niagara 345 kV	Niagara 230 kV	xmfr	W	2022	345/230	345/230	1	TBD	TBD	Replacement of Niagara AutoTransformer #3	
	NYPA	Niagara 345 kV	Niagara 230 kV	xmfr	W	2023	345/230	345/230	1	TBD	TBD	Replacement of Niagara AutoTransformer #5	
1125	NYPA	Moses	Haverstock	2	W	2025	230	230	3	1089	1330	NNYPTP: Existing Moses - Adirondack (MA1), Moses - Adirondack (MA2), and Moses - Willis (MW2) 230 kV Lines to Haverstock Substation.	
1125	NYPA	Moses	Moses	SUB	W	2025	230	230	N/A	N/A	N/A	NNYPTP: Terminal Upgrades at Moses 230 kV Substation. New Shunt Capacitor Bank.	
1125	NYPA	Haverstock 230 kV	Haverstock 345 kV	xmfr	W	2025	230/345	230/345	3	753	753	NNYPTP: 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	NNYPTP: Haverstock 345 kV Substation. New Shunt Capacitor Banks.	
1125	NYPA	Haverstock	Adirondack	83.7	W	2025	345	345	2	2177	2663	NNYPTP: Haverstock - Adirondack Circuit-1 and Circuit-2 345 kV Lines.	
1125	NYPA	Adirondack 115 kV	Adirondack 345 kV	xmfr	W	2025	115/345	115/345	1	192	221	NNYPTP: 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	NNYPTP: 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	NNYPTP: Haverstock - Willis Circuit-1 and Circuit-2 345 kV Lines.	
1125	NYPA	Willis 345 kV	Willis 230 kV	xmfr	W	2025	345/230	345/230	2	2259	2259	NNYPTP: 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	NNYPTP: Terminal Upgrades at Willis 230 kV Substation. New Shunt Capacitor Bank.	
1125	NYPA	Willis	Patnode	8.65	W	2025	230	230	2	2078	2440	NNYPTP: Two Willis - Patnode 230 kV Lines	
1125	NYPA	Willis	Ryan	6.59	W	2025	230	230	2	2078	2440	NNYPTP: Two Willis - Ryan 230 kV Lines	
1125	NYPA	Ryan	Ryan	SUB	W	2025	230	230	N/A	N/A	N/A	NNYPTP: Terminal Upgrades at Ryan 230 kV Substation.	
1125	NYPA	Patnode	Patnode	SUB	W	2025	230	230	N/A	N/A	N/A	NNYPTP: Terminal Upgrades at Patnode 230 kV Substation.	

Table VII: Proposed Transmission Facilities (Cont.)

[Project Queue Position] / Project Notes	Transmission Owner	Terminals		Line Length In Miles (1)	Expected In-Service Date/Yr		Nominal Voltage In kV			# of ckts	Thermal Ratings (4)		Project Description / Conductor Size	Class Year / Type of Construction
					Prior to (2)	Year	Operating	Design	Summer		Winter			
1125	NYP/NGRID	Adirondack	Chases Lake	11.05	W	2025	345	345	1	3119	3660	NNYPTP: Adirondack -Chases Lake Circuit-1 345 kV Line.		
1125	NYP/NGRID	Adirondack	Marcy	53.53	W	2025	345	345	1	3119	3660	NNYPTP: Adirondack - Marcy Circuit-1 345 kV Line.		
1125	NYP/NGRID	Chases Lake	Edic	43.88	W	2025	345	345	1	3119	3660	NNYPTP: Chases Lake - Edic Circuit-1 345 kV Line.		
1125	NYP/NGRID	Chases Lake 230 kV	Chases Lake 345 kV	xmfr	W	2025	230/345	230/345	1	753	753	NNYPTP: Chases Lake 230/345 kV xmfr. Given Amp Ratings are for High Voltage side of xmfr.		
1125	NYP/NGRID	Chases Lake	Chases Lake	SUB	W	2025	345	345	N/A	N/A	N/A	NNYPTP: Chases Lake 345 kV Substation. New Shunt Capacitor Banks.		
1125	NYP/NGRID	Edic	Edic	SUB	W	2025	345	345	N/A	N/A	N/A	NNYPTP: Terminal Upgrades at Edic 345 kV Substation. New Shunt Capacitor Bank.		
1125	NYP/NGRID	Marcy	Marcy	SUB	W	2025	345	345	N/A	N/A	N/A	NNYPTP: Terminal Upgrades at Marcy 345 kV Substation.		
1125	NYP/NGRID	Moses	Massena	Series Reactor	W	2025	230	230	2	TBD	TBD	NNYPTP: Install Series Reactors on Moses -Massena 230 kV Lines		
1125	NYP/NGRID	Moses	Adirondack	-85.7	W	2025	230	230	2	N/A	N/A	NNYPTP: Retire Existing Moses - Adirondack MA1 and MA2 230 kV Lines		
1125	NYP/NGRID	Moses	Willis	-36.99	W	2025	230	230	2	N/A	N/A	NNYPTP: Retire Existing Moses - Willis MW1 and MW2 230 kV Line		
1125	NGRID	Adirondack	Porter	-54.41	W	2025	230	230	1	N/A	N/A	NNYPTP: Retire Existing Adirondack - Porter 230 kV Line		
1125	NGRID	Adirondack	Chases Lake	-11.05	W	2025	230	230	1	N/A	N/A	NNYPTP: Retire Existing Adirondack - Chases Lake 230 kV Line		
1125	NGRID	Chases Lake	Porter	-43.46	W	2025	230	230	1	N/A	N/A	NNYPTP: Retire Existing Chases Lake - Porter 230 kV Line		
1125	NYP/NGRID	Willis	Patnode	-8.65	W	2025	230	230	1	N/A	N/A	NNYPTP: Retire Existing Willis - Patnode WPN1 230 kV Line.		
1125	NYP/NGRID	Willis	Ryan	-6.59	W	2025	230	230	1	N/A	N/A	NNYPTP: Retire Existing Willis - Ryan WRY2 230 kV Line.		
1125	NGRID	Porter	Porter	xmfr	W	2025	230	230	N/A	N/A	N/A	NNYPTP: Retire Existing Porter to Edic 230/345 kV xmfr, Porter 230/115 kV xmfr-1 and xmfr-2		
O & R	Little Tor	-	Cap Bank	S	2021	138	138	1	32 MVAR	32 MVAR	Capacitor bank			
O & R	Deerpak	Port Jervis	2	S	2021	69	69	1			1604			
O & R	Westtown	Port Jervis	7	S	2021	69	69	1			1604			
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	xmfr	W	2027	138/69	138/69	1	196 MVA	196 MVA	TRANSFORMER			

Table VII: Proposed Transmission Facilities (Cont.)

Number	Note
1	Line Length Miles: Negative values indicate removal of Existing Circuit being tapped
2	S = Summer Peak Period W = Winter Peak Period
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	Upgrade of existing 69 kV to 138 kV operation
10	Deleted
11	Upgrade of existing 69 kV to 115 kV operation
12	Deleted
13	Contingent on future generation resources
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, Queue #458 or 631 includes, as an elective System Upgrade Facility, an Astoria-Rainey 345kV cable. Modifying Q631 from a three-terminal HVdc project to a two-terminal HVdc project has determined to be non-material; however, Q458 and Q631 may not enter the same Class Year Study. Q887 CH Uprate is a 250 MW uprate of Q458 or Q631 project.
16	Deleted
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

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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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