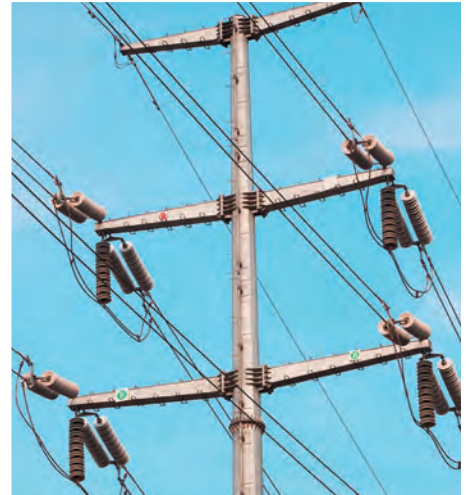


2020 Load & Capacity Data



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

Gold Book



2020 Load & Capacity Data Report

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Special Statement Regarding the Impacts of COVID-19

Throughout the month of March and into April 2020 when this report was published, changing patterns of behavior along with reductions in commercial and industrial activity resulting from the state's response to COVID-19 acted to reduce New York electricity consumption. Consequently, the NYISO revised baseline energy forecasts downward for 2020 and 2021. In order to provide a preliminary assessment of the resulting load impacts, the Gold Book provides a variety of load forecasts based on economic impacts that range from optimistic, with widespread resumption of life as normal during the summer of 2020, to pessimistic, with a recession lasting over a year.

Due to the rapidly evolving nature of the outbreak, these forecasts reflect our perspective as of April 10, 2020. The sudden departure from historical behavioral patterns caused by New York's response to COVID-19 is unprecedented and creates unique challenges to forecasting the state's energy needs. As the situation evolves and more data is available, the NYISO will monitor trends as they relate to these forecasts and provide periodic updates to stakeholders.

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2020 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 the years 2020-2030. Energy and peak forecasts are provided through 2050 by NYISO Load Zone (referenced in the rest of this document as “Zone”) and for the New York Control Area (“NYCA”).¹ The information reported in this document is current as of March 15, 2020 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 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 forecasts, which report the expected NYCA load, include the projected impacts of energy efficiency programs, building codes and standards, distributed energy resources, behind-the-meter energy storage, behind-the-meter solar photovoltaic power (“solar PV”), electric vehicle usage, and electrification of heating and other end uses. Zonal forecasts have been extended through 2050 for studies that use the longer period.

Over a 30-year horizon, the NYCA baseline energy forecast growth rate has increased compared to last year, while the NYCA baseline summer peak demand forecast growth rate has decreased compared to last year, as observed 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
2019 Gold Book (2019-49)	0.43%	-0.27%	0.64%	0.90%	0.31%	-0.39%	0.51%	0.81%
2020 Gold Book (2020-50)	0.78%	0.05%	1.29%	0.89%	0.24%	-0.09%	0.63%	0.17%

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”).

The energy growth rate over the thirty years in the 2020 baseline forecast is higher than the rate published in the 2019 *Gold Book*. The higher forecasted growth in energy usage can be attributed in part to the increasing impact of electric vehicle usage and other electrification especially in the later years. 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 Climate Leadership and Community Protection Act ("CLCPA"), 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 other 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"), 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 units due to charging and discharging are added to the energy forecasts, while the peak-reducing impacts of behind-the-meter energy storage units 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 targets, and slower adoption of electric vehicles and other

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

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 a moderate recession due to COVID-19 impacts, and assumes typical economic growth over the long-term horizon. The high load scenario energy forecast reflects a slight recession and assumes somewhat higher than typical economic growth over the remainder of the forecast horizon. The low load scenario energy forecast reflects a severe recession due to COVID-19 impacts, and assumes somewhat lower than typical economic growth in the long run.

With respect to peak forecasts, the low load scenario summer and winter peak forecasts account for potential impacts due to the COVID-19 outbreak and resulting economic impacts. The baseline and high load scenario peak forecasts do not account for any potential economic impacts associated with COVID-19.

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.

Generation and Other Capacity Resources

Since the publication of the 2019 *Gold Book* in April 2019, there has been a reduction of 191 megawatts (MW) of summer capability that have been deactivated. Over the same period, there has been an increase of 1,020 MW of summer capability due to new additions and uprates, and an increase of 67 MW of summer capability due to ratings changes. As a result, net summer capability as of March 15, 2020 is 40,191 MW, an increase of 896 MW. These changes are summarized in Section II.

These changes are based on information received from certain generation owners that provided status changes since the 2019 *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 Total Resource Capability in the NYCA for the summer of 2020 is projected to be 41,341 MW, which is a decrease of 715 MW compared to the information provided for summer 2019 in the 2019 *Gold 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 total resource capability for 2020 includes:

- NYCA generating capability (38,497 MW);
- SCR (1,282 MW); and
- Net long-term purchases and sales with neighboring control areas (1,562 MW).

The NYCA generating capability for summer 2020 is projected to be 798 MW lower than the capability reported for summer 2019 in the 2019 *Gold Book*.

The existing NYCA generating capability includes renewable resources totaling 6,345 MW. This total includes wind generation (1,739 MW), hydro (4,247 MW), large-scale solar PV (32 MW), and other renewable resources (327 MW).

Table III-2 reports the summer and winter Dependable Maximum Net Capability (“DMNC”)³ for each generator, along with the nameplate rating, Capacity Resource Interconnection Service (“CRIS”) rating, and annual energy generated in the year 2019. Section III contains additional information on the generation resources by zone, fuel type and generation type.

Beyond 2020, 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. 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, affecting approximately 3,300 MW of NYCA 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:

- 4,975 MW of natural gas or dual-fuel projects;
- 5,997 MW of wind turbine projects;
- 2,301 MW of non-wind renewable energy projects; and
- 1,048 MW of energy storage.

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

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

Table IV-1 also identifies Class Year 2019 CRIS-only requests (not already reflected in Table III-2) totaling 356 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 2,807 MW of summer capability that have provided deactivation notices with proposed deactivation dates by 2021. Table IV-6 lists the generators' proposed status changes of their simple-cycle combustion turbines to comply with the DEC Peaker Rule. Table IV-6 does not include units listed elsewhere in Section IV.

Section V provides a summary of NYCA load and capacity from 2019 through 2030. 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 several new transmission facilities that came into service since the publication of the 2019 *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. Under the NYISO's public policy transmission planning process, interested entities propose, and the New York State Public Service Commission (PSC) identifies, transmission needs driven by public policy requirements. In response to a declared public policy need, the NYISO requests that interested entities submit proposed solutions, and evaluates the merits relative to one another. After discussion with stakeholders, the NYISO Board of Directors may select the more efficient or cost-effective transmission solution to each identified need.

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 Knickerbocker-PV by National Grid and New York Transco). The selected developers have each applied to the PSC for siting approval of its transmission facilities under Article VII of the Public Service Law, and all three applications have been deemed complete by the PSC. The NYISO has entered into separate agreements with each developer for the development of the transmission projects, including a schedule for siting, permitting, interconnection, and construction. The NYISO will continue to track the progress of these projects.

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Section I

Annual Energy & Peak Demand – Historical & Forecast

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Section I

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. 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); solar PV (Table I-9); and 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 units are added to the baseline energy forecast, while the peak-reducing impacts of behind-the-meter energy storage units 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 modelled end-use consumption forecast to the baseline forecast. 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 heat pumps 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 energy efficiency and codes & standards figures listed in Table I-8 are separated into estimated historical impacts, and forecasted impacts from programs and activities expected to occur from 2020 onwards. Tables I-9 and I-10 report the impacts of existing installations of solar PV and distributed energy

generation, together with the impacts of expected installations.

The actual impact of solar PV varies considerably by hour of day. The hour of the actual NYCA peak varies annually. The NYCA summer peak typically occurs in late afternoon, and may shift into the evening as additional behind-the-meter solar PV is added to the system. The forecast of solar PV-related reductions to the winter peak is zero because the system typically peaks after sunset.

Table I-11 lists the forecast of electric vehicle (“EV”) impacts, including EV annual energy usage (Table I-11a), EV summer coincident peak demand (Table I-11b), and EV winter coincident peak demand (Table I-11c). The baseline forecast assumes over 4.5 million total EVs by 2040, including passenger vehicles, trucks, and buses. The high load scenario assumes an unmanaged charging profile, while the baseline and low load scenario forecasts assume an increasing probability of managed charging over time via smart metering or time of use rates. Policies for managing EV charging would reduce EV coincident peak impacts on the grid.

Table I-12 shows the forecast of nameplate capacity of energy storage units (Table I-12a), net annual electricity consumption of energy storage units (Table I-12b), and the peak-reducing impacts of behind-the-meter energy storage (Tables I-12c and I-12d). This table does not include existing pumped storage units (see Table 3-2 for current resources). Energy storage units are split between transmission system, distribution system, and customer-sited storage. Customer-sited units and certain distribution system units are assumed to be behind-the-meter. Transmission system and most distribution system units are assumed to participate in the wholesale market. Both wholesale and behind-the-meter energy storage units have relatively small positive net annual electricity consumption due to charging and discharging cycles. Behind-the-meter energy storage units reduce peak loads when they are injecting energy into the grid or supplying electricity to the customer’s facility. Only a portion of installed units are expected to be injecting energy into the grid or supplying electricity to customers during the NYCA summer and winter peak hours. Wholesale market energy storage does not reduce peak load because it is treated as generation.

Table I-13 shows the energy and peak impacts of electrification, which largely consists of conversion of heating from fossil fuel sources to electric heat pumps, and electrification of other end-uses such as cooking and water heating. This table does not include EV charging, which is accounted for separately in Table I-11.

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 targets, 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 <i>Climate Change Impact Study</i> - average temperature gain of approximately 0.7 degrees Fahrenheit per decade	Same as baseline forecast	Same as baseline forecast	Same as baseline forecast
Economic Assumptions	Moderate recession due to COVID-19 impacts, followed by typical economic growth in the long run	Severe recession due to COVID-19 impacts, followed by below typical economic growth in the long run	Slight recession due to COVID-19 impacts, followed by above typical economic growth in the long run	Typical economic growth with no projected recession
Energy Efficiency (Table I-8)	Medium energy efficiency gains - substantial attainment of current policy measures	High energy efficiency gains - full attainment of current policy measures	Low energy efficiency gains - low attainment of current policy measures	Projected impacts from policy measures in effect as of early 2019
BTM Solar PV (Table I-9)	Medium BTM solar - approximately 6,000 MW installed nameplate capacity by 2027	High BTM solar - 6,000 MW installed nameplate capacity by 2025	Low BTM solar - approximately 6,000 MW installed nameplate capacity by 2031	High BTM solar - 6,000 MW installed nameplate capacity by 2025
BTM Non-Solar DG (Table I-10)	Over 200 MW installed non-solar BTM DG by 2050. Some existing BTM DG enters the wholesale DER market	Same as baseline forecast	Same as baseline forecast	Existing BTM DG resources - no projection of future capacity increases
Electric Vehicles (Table I-11)	Approximately 4.5 million EVs in 2040. Increasing probability of managed charging over time	Over 2 million EVs in 2040. Increasing probability of managed charging over time	Approximately 4.5 million EVs in 2040. Unmanaged charging profile	Over 4.5 million EVs in 2040. Unmanaged charging profile
Energy Storage (Table I-12)	Approximately 3,000 MW installed nameplate capacity by 2030, with over 6,000 MW installed by 2050 (total BTM plus wholesale)	Over 7,500 MW installed nameplate capacity by 2050, with a larger proportion of storage behind-the-meter	Same as baseline forecast	Nameplate capacity projections similar to baseline forecast
Non-EV Electrification (Table I-13)	Medium electrification - partial electrification of heating and other end uses	Low electrification - modest electrification based on anticipated short term trend	High electrification - significant electrification of 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

2020 Long Term Forecast ¹ - 2020 to 2050												
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	
2019		155,848		2019		32,357		2019-20		24,123		
2020	143,145	149,020	152,393	2020	30,910	32,296	32,452	2020-21	23,574	24,130	24,214	
2021	142,930	150,627	152,913	2021	30,790	32,129	32,502	2021-22	23,549	24,203	24,582	
2022	142,179	152,114	155,360	2022	30,611	32,128	32,743	2022-23	23,490	24,474	25,250	
2023	140,911	150,544	154,380	2023	30,388	31,918	32,611	2023-24	23,443	24,650	25,661	
2024	139,547	149,904	154,424	2024	30,060	31,838	32,623	2024-25	23,313	24,944	26,230	
2025	136,806	149,167	154,785	2025	29,648	31,711	32,641	2025-26	23,152	25,251	26,881	
2026	134,365	148,727	156,208	2026	29,278	31,670	32,863	2026-27	23,013	25,635	27,758	
2027	132,343	148,548	158,091	2027	28,968	31,673	33,163	2027-28	22,909	25,988	28,638	
2028	130,816	148,783	160,411	2028	28,736	31,756	33,562	2028-29	22,860	26,404	29,602	
2029	129,178	149,183	162,808	2029	28,581	31,865	33,976	2029-30	22,862	26,888	30,683	
2030	129,762	149,774	165,269	2030	28,499	31,992	34,380	2030-31	22,912	27,388	31,788	
2031	128,895	150,736	168,085	2031	28,460	32,165	34,815	2031-32	23,000	27,948	33,015	
2032	128,849	152,079	171,286	2032	28,443	32,369	35,281	2032-33	23,121	28,567	34,348	
2033	128,935	153,565	174,720	2033	28,435	32,537	35,707	2033-34	23,253	29,258	35,905	
2034	129,113	155,394	178,600	2034	28,427	32,730	36,176	2034-35	23,405	30,001	37,662	
2035	129,338	157,464	182,874	2035	28,414	32,956	36,691	2035-36	23,565	30,799	39,592	
2036	129,613	159,775	187,436	2036	28,390	33,204	37,228	2036-37	23,732	31,611	41,630	
2037	129,917	162,083	192,007	2037	28,364	33,431	37,765	2037-38	23,898	32,423	43,706	
2038	130,251	164,444	196,634	2038	28,325	33,655	38,303	2038-39	24,068	33,250	45,799	
2039	130,613	166,948	201,427	2039	28,276	33,871	38,865	2039-40	24,233	34,008	47,912	
2040	130,998	169,040	205,705	2040	28,214	34,002	39,337	2040-41	24,393	34,744	49,888	
2041	131,422	171,022	209,474	2041	28,135	34,123	39,781	2041-42	24,559	35,480	51,707	
2042	131,900	172,934	212,961	2042	28,049	34,220	40,207	2042-43	24,732	36,151	53,359	
2043	132,450	174,765	216,133	2043	27,950	34,308	40,607	2043-44	24,922	36,757	54,827	
2044	133,101	176,508	218,974	2044	27,857	34,381	40,983	2044-45	25,129	37,292	56,106	
2045	133,841	178,027	221,337	2045	27,758	34,434	41,328	2045-46	25,355	37,775	57,202	
2046	134,681	179,485	223,449	2046	27,662	34,487	41,655	2046-47	25,602	38,183	58,129	
2047	135,588	180,801	225,323	2047	27,570	34,518	41,965	2047-48	25,871	38,539	58,948	
2048	136,564	182,039	226,998	2048	27,476	34,551	42,269	2048-49	26,151	38,835	59,643	
2049	137,563	183,111	228,535	2049	27,382	34,582	42,579	2049-50	26,437	39,102	60,326	
2050	138,621	184,031	229,679	2050	27,279	34,593	42,849	2050-51	26,741	39,309	60,790	

Average Annual Growth - Percent												
Period	Low	Baseline	High	Period	Low	Baseline	High	Period	Low	Baseline	High	
2020-25	-0.89%	0.02%	0.31%	2020-25	-0.82%	-0.36%	0.12%	2020-25	-0.36%	0.93%	2.20%	
2025-30	-1.12%	0.08%	1.35%	2025-30	-0.78%	0.18%	1.07%	2025-30	-0.21%	1.69%	3.65%	
2030-35	0.03%	1.03%	2.13%	2030-35	-0.06%	0.60%	1.34%	2030-35	0.57%	2.49%	4.91%	
2035-40	0.26%	1.47%	2.50%	2035-40	-0.14%	0.63%	1.44%	2035-40	0.70%	2.56%	5.20%	
2020-30	-0.98%	0.05%	0.84%	2020-30	-0.78%	-0.09%	0.59%	2020-30	-0.28%	1.35%	3.13%	
2030-40	0.14%	1.29%	2.45%	2030-40	-0.10%	0.63%	1.44%	2030-40	0.65%	2.69%	5.69%	
2040-50	0.58%	0.89%	1.17%	2040-50	-0.33%	0.17%	0.89%	2040-50	0.96%	1.31%	2.19%	
2020-40	-0.42%	0.67%	1.75%	2020-40	-0.44%	0.26%	1.06%	2020-40	0.17%	2.20%	5.30%	
2020-50	-0.11%	0.78%	1.69%	2020-50	-0.39%	0.24%	1.07%	2020-50	0.45%	2.10%	5.04%	

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.
These do not reflect the 90th and 10th percentile forecasts due to weather.
- Energy and Peak figures for 2019 are weather-normalized. The values for the actual annual energy, summer peak, and winter peak are reported in Table I-4a.
- The 2020 NYCA summer peak forecast is the same as the 2020 ICAP forecast.

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

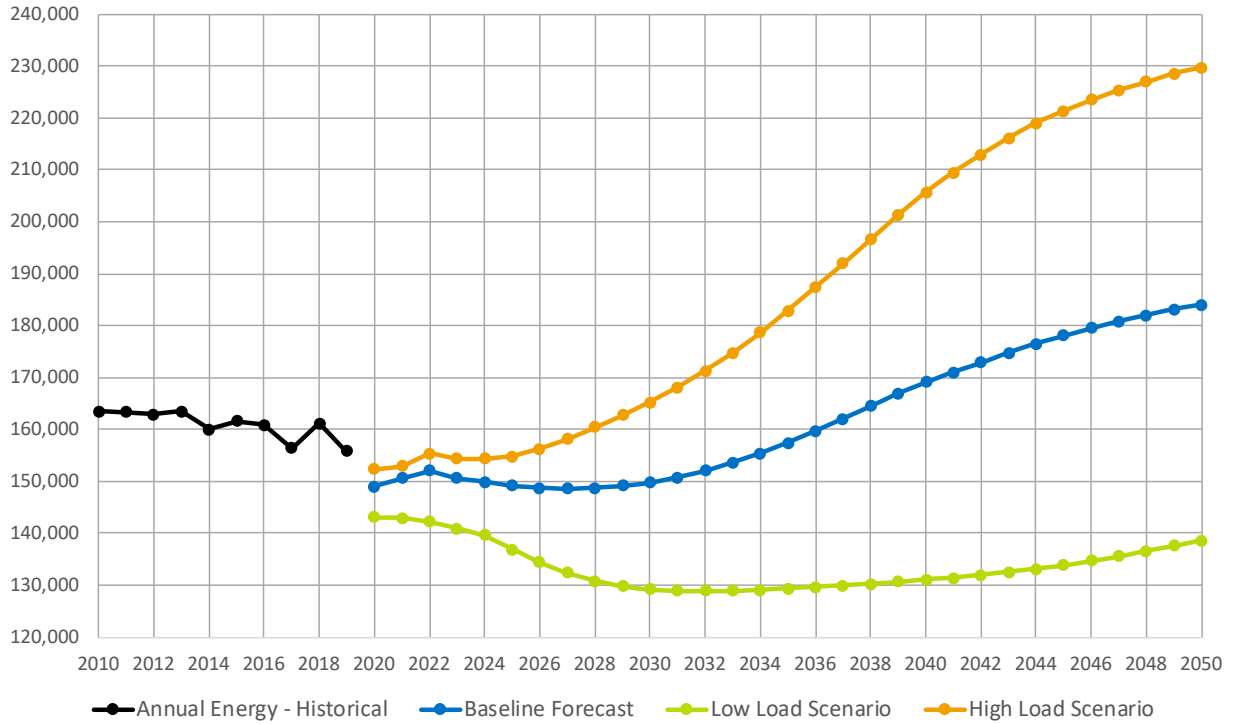


Figure I-2: NYCA Summer Peak Forecasts – Coincident Peak, MW

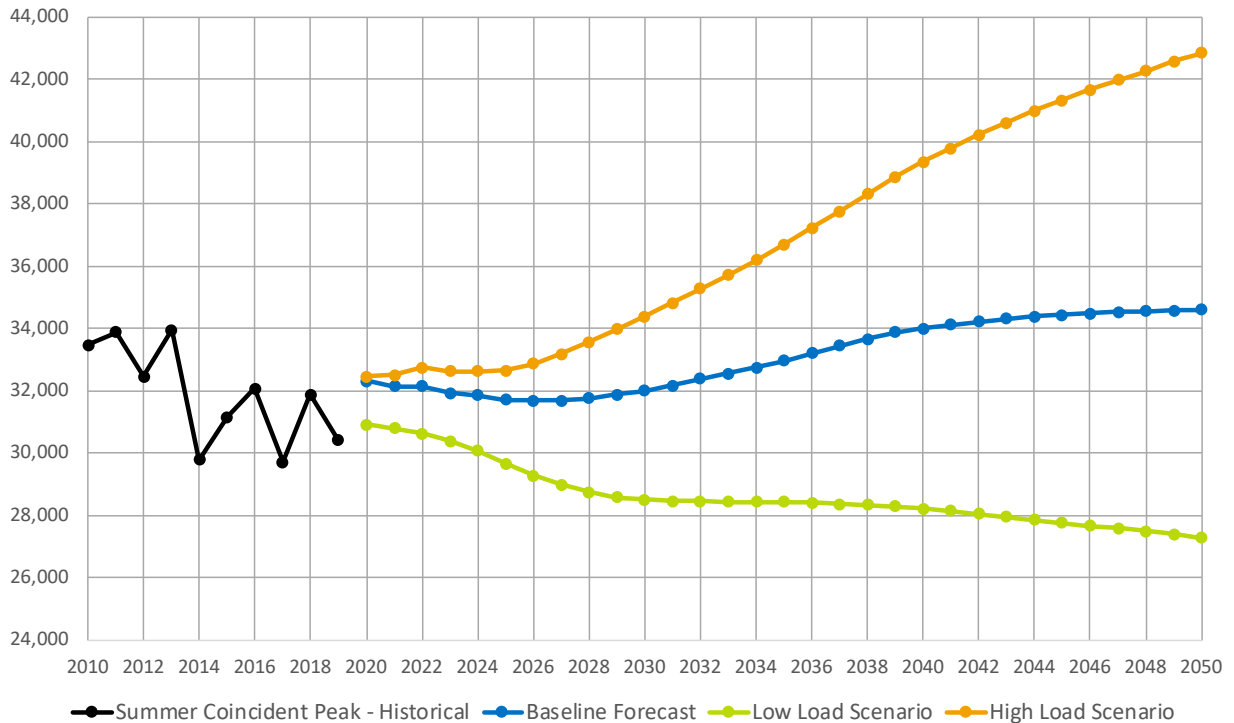


Figure I-3: NYCA Winter Peak Forecasts – Coincident Peak, MW

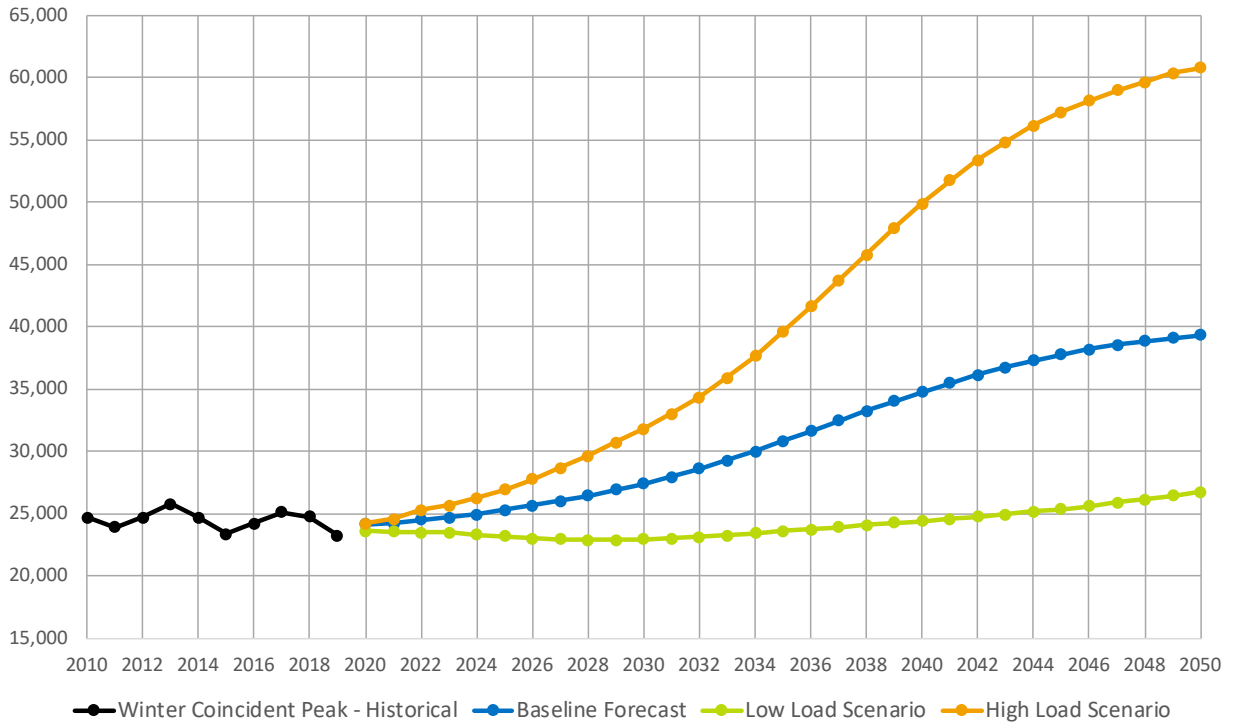


Figure I-4: NYCA Baseline Peak Forecast Comparison – Coincident Peak, MW

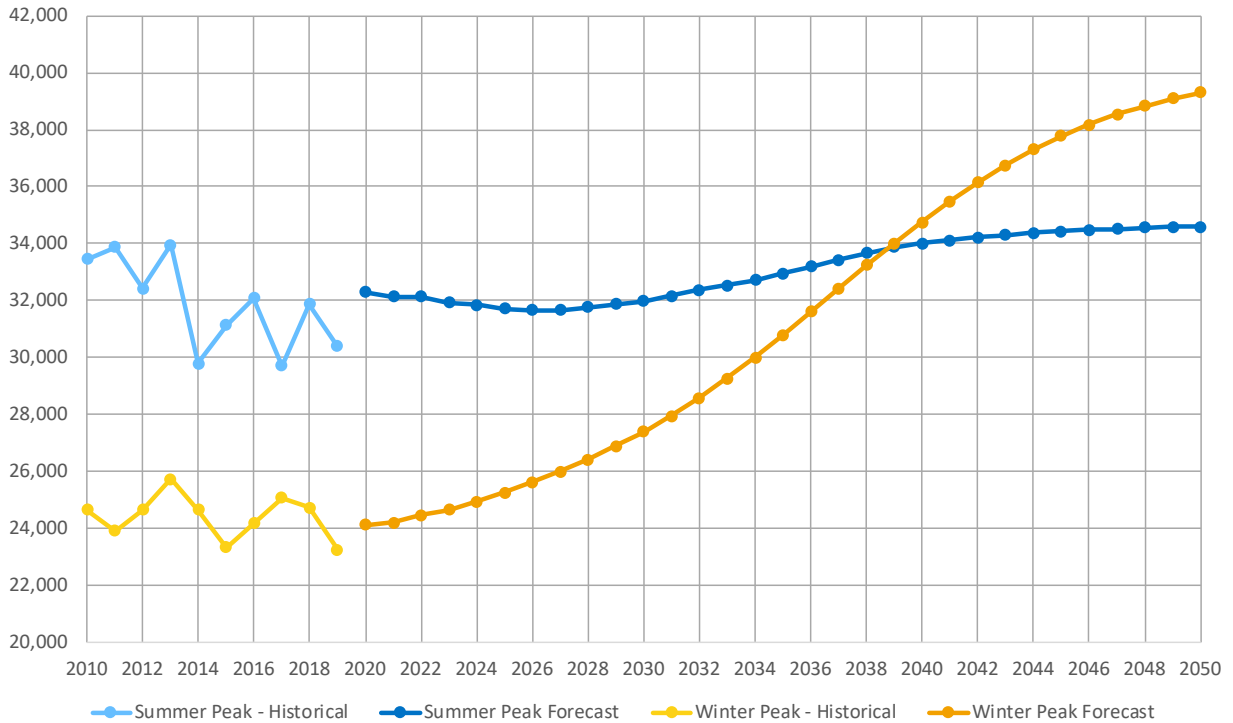


Table I-1b: Summary of NYCA Baseline Annual Energy Forecasts – GWh

Year	(a) End-Use Energy	(b) (-) EE and C&S	(c) (-) Solar PV, BTM	(d) (-) Non-Solar DG, BTM	(e) (+) Storage Net Energy Consumption	(f) (+) EV Energy	(g) (+) Non-EV Electrification	(h) =a-b-c-d+e+f+g Baseline Annual Energy Forecast
2020	154,380	1,885	2,631	1,252	19	199	190	149,020
2021	158,431	3,959	3,274	1,416	43	345	457	150,627
2022	161,852	6,200	3,899	1,059	67	538	815	152,114
2023	162,477	8,599	4,563	940	99	781	1,289	150,544
2024	163,897	11,081	5,193	818	130	1,085	1,884	149,904
2025	165,132	13,582	5,738	852	160	1,456	2,591	149,167
2026	166,331	15,937	6,205	877	189	1,889	3,337	148,727
2027	167,305	18,057	6,591	900	221	2,407	4,163	148,548
2028	168,188	19,921	6,893	931	254	3,031	5,055	148,783
2029	168,789	21,563	7,130	956	281	3,765	5,997	149,183
2030	169,249	23,016	7,289	973	309	4,506	6,988	149,774
2031	169,706	24,224	7,410	999	339	5,310	8,014	150,736
2032	170,096	25,225	7,515	1,016	367	6,184	9,188	152,079
2033	170,204	26,052	7,599	1,033	395	7,143	10,507	153,565
2034	170,314	26,754	7,675	1,058	423	8,180	11,964	155,394
2035	170,441	27,360	7,746	1,073	450	9,312	13,440	157,464
2036	170,603	27,871	7,820	1,088	474	10,548	14,929	159,775
2037	170,605	28,325	7,895	1,110	491	11,893	16,424	162,083
2038	170,684	28,759	7,967	1,123	508	13,184	17,917	164,444
2039	170,725	29,180	8,039	1,134	523	14,650	19,403	166,948
2040	170,698	29,597	8,113	1,146	539	15,785	20,874	169,040
2041	170,372	30,001	8,180	1,158	553	16,908	22,528	171,022
2042	170,135	30,401	8,254	1,169	565	18,001	24,057	172,934
2043	170,009	30,790	8,323	1,181	574	19,048	25,428	174,765
2044	170,017	31,170	8,399	1,193	584	20,051	26,618	176,508
2045	169,906	31,538	8,472	1,204	594	21,012	27,729	178,027
2046	169,869	31,902	8,543	1,215	601	21,932	28,743	179,485
2047	169,818	32,253	8,620	1,226	609	22,817	29,656	180,801
2048	169,831	32,602	8,693	1,236	613	23,671	30,455	182,039
2049	169,745	32,937	8,768	1,247	619	24,530	31,169	183,111
2050	169,698	33,270	8,842	1,258	622	25,324	31,757	184,031

(a) - End-Use Energy Consumption - Reflects impacts of projected weather trends and economic growth

(b) - Table I-8a: Energy Efficiency and Codes & Standards Energy Impacts, Relative to 2019

(c) - Table I-9b: Solar PV Impacts, Behind-the-Meter - Total Reductions in Annual Energy

(d) - Table I-10b: Non-Solar Distributed Generation Impacts, Behind-the-Meter - Total Reductions in Annual Energy

(e) - 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)

(f) - Table I-11a: Electric Vehicle Energy Usage

(g) - Table I-13a: Non-EV Electrification Energy Usage - end-use electrification including heat pumps, water heating, cooking, and other end-uses

(h) - Table I-2: Baseline Annual Energy Forecast

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

Year	(a) End-Use Peak Demand	(b) (-) EE and C&S	(c) (-) Solar PV, BTM	(d) (-) Non-Solar DG, BTM	(e) (-) BTM Storage Peak Reductions	(f) (+) EV Peak Demand	(g) (+) Non-EV Electrification	(h) =a-b-c-d-e+f+g Baseline Summer Peak Forecast
2020	33,319	296	555	218	5	40	11	32,296
2021	33,599	591	707	251	14	68	25	32,129
2022	33,978	943	841	189	26	103	46	32,128
2023	34,220	1,322	986	169	44	147	72	31,918
2024	34,555	1,709	1,102	148	63	201	104	31,838
2025	34,861	2,108	1,204	154	91	261	146	31,711
2026	35,208	2,488	1,287	158	125	333	187	31,670
2027	35,524	2,825	1,351	164	159	418	230	31,673
2028	35,848	3,116	1,392	170	206	513	279	31,756
2029	36,108	3,360	1,411	174	250	625	327	31,865
2030	36,324	3,579	1,411	177	292	748	379	31,992
2031	36,548	3,760	1,399	182	332	857	433	32,165
2032	36,767	3,915	1,387	185	370	966	493	32,369
2033	36,891	4,039	1,370	189	399	1,077	566	32,537
2034	37,022	4,152	1,351	193	427	1,191	640	32,730
2035	37,164	4,252	1,328	195	457	1,306	718	32,956
2036	37,295	4,328	1,305	198	481	1,426	795	33,204
2037	37,400	4,397	1,280	202	507	1,546	871	33,431
2038	37,497	4,466	1,253	206	528	1,662	949	33,655
2039	37,586	4,528	1,228	208	549	1,774	1,024	33,871
2040	37,639	4,610	1,205	210	567	1,857	1,098	34,002
2041	37,668	4,672	1,187	213	584	1,928	1,183	34,123
2042	37,705	4,735	1,174	215	600	1,980	1,259	34,220
2043	37,763	4,797	1,161	217	615	2,012	1,323	34,308
2044	37,827	4,857	1,151	219	630	2,032	1,379	34,381
2045	37,885	4,918	1,142	221	642	2,041	1,431	34,434
2046	37,960	4,974	1,134	223	659	2,041	1,476	34,487
2047	38,026	5,031	1,127	226	675	2,033	1,518	34,518
2048	38,107	5,085	1,120	228	688	2,015	1,550	34,551
2049	38,193	5,141	1,116	230	700	1,995	1,581	34,582
2050	38,268	5,194	1,115	232	707	1,973	1,600	34,593

- (a) - End-Use 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 2019
- (c) - Table I-9c: Solar PV Impacts, Behind-the-Meter, Total Reductions in Summer Coincident Peak Demand
- (d) - Table I-10c: Non-Solar Distributed Generation Impacts, Behind-the-Meter, Total Reductions in Coincident Peak Demand
- (e) - 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)
- (f) - Table I-11b: Electric Vehicle Summer Coincident Peak Demand
- (g) - Table I-13b: Non-EV Electrification Summer Coincident Peak Demand - end-use electrification including heat pumps, water heating, cooking, and other end-uses
- (h) - Table I-3a: Baseline Summer Coincident Peak Demand Forecast

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

Year	(a) End-Use Peak Demand	(b) (-) EE and C&S	(c) (-) Solar PV, BTM	(d) (-) Non-Solar DG, BTM	(e) (-) BTM Storage Peak Reductions	(f) (+) EV Peak Demand	(g) (+) Non-EV Electrification	(h) =a-b-c-d-e+f+g Baseline Winter Peak Forecast
2020-21	24,523	299	0	218	8	66	66	24,130
2021-22	24,733	600	0	251	13	113	221	24,203
2022-23	25,009	926	0	189	27	173	434	24,474
2023-24	25,187	1,270	0	169	45	246	701	24,650
2024-25	25,428	1,638	0	148	61	332	1,031	24,944
2025-26	25,641	2,001	0	154	90	432	1,423	25,251
2026-27	25,855	2,335	0	158	119	554	1,838	25,635
2027-28	25,952	2,633	0	164	152	691	2,294	25,988
2028-29	26,033	2,899	0	170	195	848	2,787	26,404
2029-30	26,104	3,137	0	174	239	1,026	3,308	26,888
2030-31	26,121	3,355	0	177	280	1,221	3,858	27,388
2031-32	26,160	3,528	0	182	320	1,391	4,427	27,948
2032-33	26,154	3,675	0	185	353	1,562	5,064	28,567
2033-34	26,122	3,795	0	189	381	1,733	5,768	29,258
2034-35	26,067	3,900	0	193	413	1,904	6,536	30,001
2035-36	26,027	3,989	0	195	442	2,080	7,318	30,799
2036-37	25,967	4,062	0	198	467	2,258	8,113	31,611
2037-38	25,908	4,129	0	202	491	2,425	8,912	32,423
2038-39	25,854	4,195	0	206	514	2,599	9,712	33,250
2039-40	25,766	4,254	0	208	536	2,736	10,504	34,008
2040-41	25,662	4,314	0	210	554	2,859	11,301	34,744
2041-42	25,500	4,376	0	213	571	2,961	12,179	35,480
2042-43	25,351	4,432	0	215	590	3,039	12,998	36,151
2043-44	25,243	4,487	0	217	608	3,084	13,742	36,757
2044-45	25,177	4,546	0	219	627	3,115	14,392	37,292
2045-46	25,107	4,600	0	221	641	3,130	15,000	37,775
2046-47	25,031	4,651	0	223	658	3,124	15,560	38,183
2047-48	24,959	4,702	0	226	676	3,109	16,075	38,539
2048-49	24,899	4,755	0	228	693	3,080	16,532	38,835
2049-50	24,848	4,804	0	230	707	3,050	16,945	39,102
2050-51	24,821	4,854	0	232	718	3,012	17,280	39,309

- (a) - End-Use 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 2019-20
- (c) - The forecast of solar PV-related reductions to the winter peak is zero because the system typically peaks after sunset
- (d) - Table I-10c: Non-Solar Distributed Generation Impacts, Behind-the-Meter, Total Reductions in Coincident Peak Demand
- (e) - 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)
- (f) - Table I-11c: Electric Vehicle Winter Coincident Peak Demand
- (g) - Table I-13c: Non-EV Electrification Winter Coincident Peak Demand - end-use electrification including heat pumps, water heating, cooking, and other end-uses
- (h) - 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
2010	15,903	10,128	16,209	4,312	7,906	11,394	10,384	2,969	6,264	55,114	22,922	163,505
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	14,282	9,468	15,182	4,818	7,525	11,449	9,186	2,669	5,608	48,964	19,869	149,020
2021	14,441	9,602	15,400	5,154	7,584	11,542	9,259	2,774	5,590	49,242	20,039	150,627
2022	14,540	9,697	15,578	5,431	7,610	11,612	9,275	2,847	5,603	49,715	20,206	152,114
2023	14,446	9,665	15,557	5,622	7,531	11,531	9,163	2,876	5,500	48,835	19,818	150,544
2024	14,367	9,643	15,558	5,777	7,463	11,475	9,057	2,899	5,473	48,628	19,564	149,904
2025	14,280	9,616	15,538	5,875	7,396	11,420	8,951	2,919	5,452	48,433	19,287	149,167
2026	14,196	9,585	15,514	5,930	7,336	11,375	8,855	2,935	5,453	48,444	19,104	148,727
2027	14,111	9,547	15,478	5,950	7,282	11,337	8,776	2,949	5,466	48,562	19,090	148,548
2028	14,038	9,510	15,438	5,948	7,236	11,312	8,724	2,963	5,490	48,777	19,347	148,783
2029	13,976	9,479	15,399	5,935	7,201	11,296	8,701	2,977	5,528	49,115	19,576	149,183
2030	13,931	9,461	15,371	5,925	7,176	11,293	8,713	2,994	5,566	49,450	19,894	149,774
2031	13,906	9,464	15,360	5,919	7,165	11,300	8,757	3,013	5,625	49,965	20,262	150,736
2032	13,906	9,492	15,375	5,919	7,167	11,320	8,830	3,038	5,695	50,588	20,749	152,079
2033	13,926	9,540	15,411	5,924	7,181	11,352	8,924	3,067	5,775	51,291	21,174	153,565
2034	13,969	9,607	15,469	5,936	7,206	11,397	9,035	3,101	5,862	52,053	21,759	155,394
2035	14,033	9,687	15,547	5,954	7,242	11,456	9,158	3,137	5,956	52,891	22,403	157,464
2036	14,114	9,778	15,640	5,976	7,286	11,528	9,292	3,174	6,053	53,740	23,194	159,775
2037	14,204	9,872	15,737	5,999	7,334	11,607	9,430	3,211	6,152	54,611	23,926	162,083
2038	14,306	9,973	15,844	6,023	7,388	11,693	9,576	3,247	6,253	55,502	24,639	164,444
2039	14,416	10,078	15,957	6,047	7,446	11,786	9,729	3,282	6,353	56,382	25,472	166,948
2040	14,534	10,186	16,074	6,070	7,507	11,881	9,888	3,315	6,451	57,242	25,892	169,040
2041	14,653	10,294	16,191	6,093	7,569	11,977	10,048	3,344	6,545	58,073	26,235	171,022
2042	14,777	10,403	16,309	6,114	7,634	12,073	10,210	3,370	6,633	58,850	26,561	172,934
2043	14,901	10,510	16,425	6,135	7,698	12,167	10,372	3,393	6,715	59,569	26,880	174,765
2044	15,025	10,614	16,537	6,155	7,762	12,258	10,531	3,412	6,788	60,217	27,209	176,508
2045	15,144	10,713	16,641	6,174	7,823	12,343	10,685	3,428	6,855	60,793	27,428	178,027
2046	15,262	10,809	16,742	6,192	7,883	12,425	10,836	3,441	6,909	61,276	27,710	179,485
2047	15,380	10,903	16,838	6,210	7,942	12,503	10,984	3,453	6,954	61,670	27,964	180,801
2048	15,491	10,990	16,926	6,226	7,997	12,575	11,127	3,462	6,989	61,979	28,277	182,039
2049	15,602	11,077	17,013	6,243	8,052	12,645	11,269	3,471	7,019	62,241	28,479	183,111
2050	15,702	11,153	17,085	6,256	8,100	12,704	11,400	3,477	7,041	62,432	28,681	184,031

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
2010	2,663	1,985	2,846	552	1,437	2,339	2,399	700	1,487	11,213	5,832	33,453
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	2,662	1,948	2,728	583	1,348	2,352	2,167	647	1,430	11,316	5,115	32,296
2021	2,641	1,943	2,719	613	1,329	2,329	2,153	646	1,427	11,300	5,029	32,129
2022	2,626	1,941	2,715	640	1,313	2,313	2,144	646	1,435	11,397	4,958	32,128
2023	2,610	1,938	2,711	663	1,297	2,297	2,134	646	1,428	11,362	4,832	31,918
2024	2,597	1,936	2,708	682	1,283	2,285	2,127	647	1,429	11,395	4,749	31,838
2025	2,585	1,935	2,705	693	1,271	2,276	2,118	647	1,425	11,390	4,666	31,711
2026	2,575	1,933	2,702	699	1,263	2,271	2,111	648	1,431	11,446	4,591	31,670
2027	2,569	1,932	2,700	700	1,257	2,269	2,104	648	1,439	11,504	4,551	31,673
2028	2,567	1,930	2,698	699	1,255	2,271	2,100	649	1,446	11,583	4,558	31,756
2029	2,569	1,928	2,697	696	1,255	2,274	2,099	649	1,458	11,670	4,570	31,865
2030	2,572	1,927	2,696	694	1,258	2,279	2,102	649	1,469	11,757	4,589	31,992
2031	2,578	1,928	2,696	692	1,262	2,285	2,109	650	1,481	11,868	4,616	32,165
2032	2,586	1,930	2,696	691	1,267	2,290	2,120	651	1,495	11,986	4,657	32,369
2033	2,594	1,935	2,698	691	1,272	2,296	2,132	652	1,506	12,073	4,688	32,537
2034	2,605	1,942	2,701	690	1,277	2,302	2,147	653	1,517	12,164	4,732	32,730
2035	2,618	1,950	2,706	691	1,284	2,311	2,163	655	1,529	12,270	4,779	32,956
2036	2,632	1,959	2,713	691	1,291	2,321	2,180	657	1,541	12,366	4,853	33,204
2037	2,647	1,968	2,720	692	1,298	2,331	2,197	658	1,552	12,455	4,913	33,431
2038	2,662	1,978	2,727	693	1,306	2,343	2,215	660	1,561	12,532	4,978	33,655
2039	2,677	1,987	2,734	693	1,313	2,354	2,233	661	1,569	12,601	5,049	33,871
2040	2,691	1,995	2,740	694	1,320	2,365	2,250	661	1,573	12,636	5,077	34,002
2041	2,702	2,002	2,745	694	1,327	2,374	2,267	660	1,577	12,670	5,105	34,123
2042	2,713	2,009	2,749	694	1,333	2,382	2,282	659	1,582	12,702	5,115	34,220
2043	2,722	2,014	2,753	694	1,338	2,388	2,297	658	1,585	12,728	5,131	34,308
2044	2,729	2,019	2,755	694	1,342	2,393	2,310	656	1,588	12,752	5,143	34,381
2045	2,736	2,023	2,756	693	1,346	2,396	2,322	654	1,590	12,772	5,146	34,434
2046	2,742	2,026	2,756	693	1,349	2,399	2,334	653	1,592	12,782	5,161	34,487
2047	2,748	2,029	2,757	693	1,353	2,400	2,345	651	1,592	12,787	5,163	34,518
2048	2,752	2,031	2,756	693	1,355	2,401	2,357	650	1,592	12,784	5,180	34,551
2049	2,757	2,033	2,756	694	1,358	2,401	2,368	648	1,592	12,777	5,198	34,582
2050	2,761	2,035	2,755	694	1,360	2,401	2,379	647	1,590	12,763	5,208	34,593

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
2010-11	2,413	1,606	2,657	645	1,296	1,825	1,586	526	927	7,661	3,512	24,654
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	2,227	1,559	2,525	751	1,330	1,899	1,563	493	858	7,551	3,374	24,130
2021-22	2,229	1,556	2,531	782	1,331	1,899	1,558	494	866	7,630	3,327	24,203
2022-23	2,240	1,557	2,547	810	1,336	1,907	1,555	498	887	7,847	3,290	24,474
2023-24	2,251	1,559	2,561	836	1,342	1,914	1,551	501	900	7,984	3,251	24,650
2024-25	2,266	1,564	2,576	858	1,349	1,925	1,548	505	922	8,202	3,229	24,944
2025-26	2,281	1,569	2,588	873	1,356	1,936	1,545	509	947	8,432	3,215	25,251
2026-27	2,296	1,575	2,598	883	1,363	1,948	1,543	513	979	8,720	3,217	25,635
2027-28	2,310	1,581	2,605	890	1,368	1,959	1,543	517	1,008	8,971	3,236	25,988
2028-29	2,325	1,587	2,610	893	1,374	1,971	1,547	522	1,038	9,259	3,278	26,404
2029-30	2,342	1,594	2,616	897	1,381	1,984	1,555	527	1,076	9,591	3,325	26,888
2030-31	2,360	1,602	2,624	901	1,388	1,999	1,570	532	1,115	9,934	3,363	27,388
2031-32	2,384	1,614	2,637	907	1,399	2,017	1,591	538	1,153	10,285	3,423	27,948
2032-33	2,413	1,630	2,656	914	1,412	2,039	1,618	546	1,195	10,649	3,495	28,567
2033-34	2,448	1,651	2,682	924	1,428	2,065	1,651	555	1,237	11,027	3,590	29,258
2034-35	2,490	1,676	2,713	935	1,448	2,096	1,689	565	1,278	11,405	3,706	30,001
2035-36	2,538	1,705	2,752	947	1,471	2,131	1,731	576	1,321	11,786	3,841	30,799
2036-37	2,591	1,737	2,794	961	1,496	2,169	1,776	587	1,351	12,155	3,994	31,611
2037-38	2,646	1,771	2,840	975	1,523	2,210	1,825	599	1,377	12,514	4,143	32,423
2038-39	2,705	1,807	2,889	991	1,552	2,253	1,875	612	1,400	12,853	4,313	33,250
2039-40	2,767	1,844	2,941	1,007	1,582	2,297	1,926	624	1,419	13,167	4,434	34,008
2040-41	2,829	1,883	2,993	1,023	1,612	2,342	1,978	635	1,436	13,454	4,559	34,744
2041-42	2,891	1,921	3,047	1,040	1,642	2,386	2,030	646	1,450	13,725	4,702	35,480
2042-43	2,951	1,959	3,099	1,056	1,671	2,427	2,081	656	1,461	13,967	4,823	36,151
2043-44	3,007	1,995	3,149	1,072	1,698	2,465	2,128	664	1,469	14,182	4,928	36,757
2044-45	3,060	2,029	3,195	1,087	1,722	2,500	2,173	671	1,475	14,364	5,016	37,292
2045-46	3,108	2,061	3,238	1,102	1,745	2,530	2,215	677	1,479	14,515	5,105	37,775
2046-47	3,152	2,090	3,278	1,115	1,766	2,556	2,253	682	1,483	14,622	5,186	38,183
2047-48	3,192	2,118	3,314	1,129	1,784	2,580	2,288	687	1,484	14,690	5,273	38,539
2048-49	3,229	2,144	3,348	1,142	1,801	2,600	2,321	690	1,484	14,724	5,352	38,835
2049-50	3,265	2,170	3,381	1,154	1,818	2,620	2,353	693	1,484	14,739	5,425	39,102
2050-51	3,296	2,193	3,410	1,166	1,831	2,636	2,382	695	1,484	14,739	5,477	39,309

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
2010	2,768	2,075	2,932	566	1,469	2,379	2,407	700	1,492	11,213	5,832
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	2,844	2,026	2,846	617	1,413	2,428	2,205	658	1,454	11,477	5,227
2021	2,821	2,021	2,837	649	1,393	2,405	2,191	656	1,451	11,460	5,139
2022	2,805	2,019	2,833	677	1,376	2,388	2,182	656	1,459	11,559	5,067
2023	2,788	2,016	2,829	702	1,359	2,372	2,171	656	1,452	11,523	4,938
2024	2,774	2,014	2,825	722	1,345	2,359	2,164	658	1,453	11,557	4,853
2025	2,762	2,013	2,822	733	1,332	2,350	2,155	658	1,449	11,552	4,768
2026	2,751	2,011	2,819	740	1,324	2,345	2,148	659	1,455	11,609	4,692
2027	2,744	2,010	2,817	741	1,317	2,343	2,141	659	1,463	11,667	4,651
2028	2,742	2,008	2,815	740	1,315	2,345	2,137	660	1,470	11,747	4,658
2029	2,744	2,006	2,814	736	1,315	2,348	2,136	660	1,483	11,836	4,670
2030	2,748	2,004	2,813	734	1,318	2,353	2,139	660	1,494	11,924	4,690
2031	2,754	2,006	2,813	732	1,323	2,359	2,146	661	1,506	12,037	4,717
2032	2,763	2,008	2,813	731	1,328	2,364	2,157	662	1,520	12,156	4,759
2033	2,771	2,013	2,815	731	1,333	2,371	2,169	663	1,531	12,244	4,791
2034	2,783	2,020	2,818	730	1,338	2,377	2,185	664	1,543	12,337	4,836
2035	2,797	2,028	2,823	731	1,346	2,386	2,201	666	1,555	12,444	4,884
2036	2,812	2,038	2,831	731	1,353	2,396	2,218	668	1,567	12,542	4,960
2037	2,828	2,047	2,838	732	1,360	2,407	2,235	669	1,578	12,632	5,021
2038	2,844	2,058	2,845	733	1,369	2,419	2,254	671	1,587	12,710	5,087
2039	2,860	2,067	2,853	733	1,376	2,430	2,272	672	1,596	12,780	5,160
2040	2,875	2,075	2,859	734	1,383	2,442	2,289	672	1,600	12,815	5,188
2041	2,887	2,082	2,864	734	1,391	2,451	2,307	671	1,604	12,850	5,217
2042	2,898	2,090	2,868	734	1,397	2,459	2,322	670	1,609	12,882	5,227
2043	2,908	2,095	2,872	734	1,402	2,466	2,337	669	1,612	12,909	5,244
2044	2,915	2,100	2,874	734	1,407	2,471	2,350	667	1,615	12,933	5,256
2045	2,923	2,104	2,876	733	1,411	2,474	2,363	665	1,617	12,953	5,259
2046	2,929	2,107	2,876	733	1,414	2,477	2,375	664	1,619	12,964	5,274
2047	2,936	2,111	2,877	733	1,418	2,478	2,386	662	1,619	12,969	5,276
2048	2,940	2,113	2,876	733	1,420	2,479	2,398	661	1,619	12,966	5,294
2049	2,945	2,115	2,876	734	1,423	2,479	2,409	659	1,619	12,958	5,312
2050	2,950	2,117	2,874	734	1,425	2,479	2,421	658	1,617	12,944	5,322

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
2010-11	2,425	1,608	2,657	701	1,359	1,899	1,586	580	975	7,661	3,555
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	2,254	1,580	2,530	770	1,362	1,915	1,574	517	871	7,621	3,393
2021-22	2,256	1,577	2,536	802	1,363	1,915	1,569	518	879	7,701	3,346
2022-23	2,268	1,578	2,552	831	1,368	1,923	1,566	522	900	7,920	3,309
2023-24	2,279	1,580	2,566	858	1,374	1,930	1,562	526	914	8,058	3,270
2024-25	2,294	1,585	2,581	880	1,382	1,941	1,559	530	936	8,278	3,247
2025-26	2,309	1,590	2,593	896	1,389	1,952	1,556	534	961	8,510	3,233
2026-27	2,324	1,596	2,603	906	1,396	1,964	1,554	538	994	8,801	3,235
2027-28	2,338	1,602	2,610	913	1,401	1,975	1,554	542	1,023	9,054	3,254
2028-29	2,354	1,608	2,615	916	1,407	1,987	1,558	548	1,054	9,345	3,297
2029-30	2,371	1,615	2,621	920	1,414	2,000	1,566	553	1,092	9,680	3,344
2030-31	2,389	1,623	2,630	924	1,422	2,015	1,581	558	1,132	10,026	3,382
2031-32	2,413	1,636	2,643	930	1,433	2,034	1,602	564	1,170	10,381	3,443
2032-33	2,443	1,652	2,662	938	1,446	2,056	1,630	573	1,213	10,748	3,515
2033-34	2,478	1,673	2,688	948	1,463	2,082	1,663	582	1,256	11,130	3,610
2034-35	2,521	1,698	2,719	959	1,483	2,113	1,701	593	1,297	11,511	3,727
2035-36	2,569	1,728	2,758	972	1,507	2,148	1,743	604	1,341	11,896	3,863
2036-37	2,623	1,760	2,800	986	1,532	2,187	1,789	616	1,371	12,268	4,017
2037-38	2,679	1,795	2,846	1,000	1,560	2,228	1,838	628	1,398	12,630	4,167
2038-39	2,738	1,831	2,895	1,017	1,590	2,271	1,889	642	1,421	12,973	4,338
2039-40	2,801	1,869	2,947	1,033	1,620	2,316	1,940	655	1,440	13,289	4,459
2040-41	2,864	1,908	2,999	1,049	1,651	2,361	1,992	666	1,458	13,579	4,585
2041-42	2,927	1,947	3,053	1,067	1,682	2,406	2,045	678	1,472	13,853	4,729
2042-43	2,987	1,985	3,106	1,083	1,711	2,447	2,096	688	1,483	14,097	4,850
2043-44	3,044	2,022	3,156	1,100	1,739	2,485	2,143	697	1,491	14,314	4,956
2044-45	3,098	2,056	3,202	1,115	1,764	2,521	2,189	704	1,497	14,498	5,045
2045-46	3,146	2,089	3,245	1,131	1,787	2,551	2,231	710	1,501	14,650	5,134
2046-47	3,191	2,118	3,285	1,144	1,809	2,577	2,269	715	1,505	14,758	5,216
2047-48	3,231	2,146	3,321	1,158	1,827	2,601	2,304	721	1,506	14,827	5,303
2048-49	3,269	2,173	3,355	1,172	1,845	2,621	2,338	724	1,506	14,861	5,383
2049-50	3,305	2,199	3,388	1,184	1,862	2,641	2,370	727	1,506	14,876	5,456
2050-51	3,337	2,222	3,417	1,196	1,875	2,658	2,399	729	1,506	14,876	5,508

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
2010	2,399	700	1,487	11,213	15,799
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	2,186	653	1,442	11,414	15,695
2021	2,172	651	1,439	11,398	15,660
2022	2,163	651	1,447	11,496	15,757
2023	2,153	651	1,440	11,461	15,705
2024	2,145	653	1,441	11,494	15,733
2025	2,136	653	1,437	11,489	15,715
2026	2,129	654	1,443	11,546	15,772
2027	2,122	654	1,451	11,604	15,831
2028	2,118	655	1,459	11,684	15,916
2029	2,117	655	1,471	11,772	16,015
2030	2,120	655	1,482	11,859	16,116
2031	2,127	656	1,494	11,971	16,248
2032	2,138	657	1,508	12,090	16,393
2033	2,151	658	1,519	12,178	16,506
2034	2,166	659	1,530	12,270	16,625
2035	2,182	661	1,542	12,377	16,762
2036	2,199	663	1,554	12,474	16,890
2037	2,216	664	1,565	12,563	17,008
2038	2,234	666	1,575	12,641	17,116
2039	2,252	667	1,583	12,711	17,213
2040	2,270	667	1,587	12,746	17,270
2041	2,287	666	1,591	12,780	17,324
2042	2,302	665	1,596	12,813	17,376
2043	2,317	664	1,599	12,839	17,419
2044	2,330	662	1,602	12,863	17,457
2045	2,342	660	1,604	12,883	17,489
2046	2,354	659	1,606	12,893	17,512
2047	2,365	657	1,606	12,898	17,526
2048	2,377	656	1,606	12,895	17,534
2049	2,389	654	1,606	12,888	17,537
2050	2,400	653	1,604	12,874	17,531

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

Year	G	H	I	J	G-J
2010-11	1,586	526	927	7,661	10,700
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	1,561	482	858	7,602	10,503
2021-22	1,556	483	866	7,681	10,586
2022-23	1,553	487	887	7,900	10,827
2023-24	1,549	490	900	8,037	10,976
2024-25	1,546	494	922	8,257	11,219
2025-26	1,543	498	947	8,488	11,476
2026-27	1,541	501	979	8,778	11,799
2027-28	1,541	505	1,008	9,031	12,085
2028-29	1,545	510	1,038	9,321	12,414
2029-30	1,553	515	1,076	9,655	12,799
2030-31	1,568	520	1,115	10,001	13,204
2031-32	1,589	526	1,153	10,354	13,622
2032-33	1,616	534	1,195	10,720	14,065
2033-34	1,649	543	1,237	11,101	14,530
2034-35	1,687	552	1,278	11,481	14,998
2035-36	1,729	563	1,321	11,865	15,478
2036-37	1,774	574	1,351	12,236	15,935
2037-38	1,823	586	1,377	12,598	16,384
2038-39	1,873	598	1,400	12,939	16,810
2039-40	1,924	610	1,419	13,255	17,208
2040-41	1,976	621	1,436	13,544	17,577
2041-42	2,028	631	1,450	13,817	17,926
2042-43	2,079	641	1,461	14,061	18,242
2043-44	2,126	649	1,469	14,277	18,521
2044-45	2,171	656	1,475	14,460	18,762
2045-46	2,213	662	1,479	14,612	18,966
2046-47	2,251	667	1,483	14,720	19,121
2047-48	2,285	672	1,484	14,788	19,229
2048-49	2,318	674	1,484	14,823	19,299
2049-50	2,350	677	1,484	14,838	19,349
2050-51	2,379	679	1,484	14,838	19,380

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
2020	14,413	9,581	15,320	4,839	7,596	11,577	9,312	2,716	5,685	49,625	20,167	150,831
2021	14,574	9,716	15,540	5,176	7,656	11,671	9,386	2,823	5,667	49,907	20,340	152,456
2022	14,674	9,812	15,720	5,454	7,682	11,742	9,402	2,897	5,680	50,386	20,509	153,958
2023	14,579	9,780	15,699	5,646	7,603	11,660	9,289	2,927	5,576	49,494	20,115	152,368
2024	14,499	9,758	15,700	5,802	7,534	11,604	9,181	2,950	5,549	49,284	19,857	151,718
2025	14,411	9,730	15,679	5,900	7,466	11,548	9,074	2,971	5,527	49,087	19,576	150,969
2026	14,327	9,699	15,655	5,955	7,406	11,502	8,976	2,987	5,528	49,098	19,391	150,524
2027	14,241	9,661	15,619	5,976	7,351	11,464	8,896	3,001	5,541	49,218	19,376	150,344
2028	14,167	9,623	15,578	5,974	7,305	11,439	8,844	3,015	5,566	49,435	19,637	150,583
2029	14,105	9,592	15,539	5,961	7,269	11,423	8,820	3,030	5,604	49,778	19,870	150,991
2030	14,059	9,574	15,511	5,950	7,244	11,419	8,832	3,047	5,643	50,118	20,192	151,589
2031	14,034	9,577	15,500	5,944	7,233	11,427	8,877	3,066	5,703	50,640	20,566	152,567
2032	14,034	9,605	15,515	5,944	7,235	11,447	8,951	3,092	5,774	51,271	21,060	153,928
2033	14,054	9,654	15,551	5,949	7,249	11,479	9,046	3,121	5,855	51,983	21,492	155,433
2034	14,098	9,721	15,610	5,962	7,274	11,525	9,159	3,156	5,943	52,756	22,085	157,289
2035	14,162	9,802	15,688	5,980	7,311	11,584	9,283	3,193	6,038	53,605	22,739	159,385
2036	14,244	9,894	15,782	6,002	7,355	11,657	9,419	3,230	6,137	54,465	23,542	161,727
2037	14,335	9,989	15,880	6,025	7,404	11,737	9,559	3,268	6,237	55,348	24,285	164,067
2038	14,438	10,092	15,988	6,049	7,458	11,824	9,707	3,304	6,339	56,251	25,009	166,459
2039	14,549	10,198	16,102	6,073	7,517	11,918	9,862	3,340	6,441	57,143	25,854	168,997
2040	14,668	10,307	16,220	6,096	7,578	12,014	10,023	3,374	6,540	58,015	26,280	171,115
2041	14,788	10,416	16,338	6,119	7,641	12,111	10,186	3,403	6,635	58,857	26,629	173,123
2042	14,913	10,527	16,457	6,140	7,707	12,208	10,350	3,430	6,725	59,644	26,959	175,060
2043	15,038	10,635	16,574	6,161	7,771	12,303	10,514	3,453	6,808	60,373	27,283	176,913
2044	15,163	10,740	16,687	6,181	7,836	12,395	10,675	3,472	6,882	61,030	27,617	178,678
2045	15,283	10,840	16,792	6,201	7,897	12,481	10,831	3,489	6,950	61,614	27,839	180,217
2046	15,402	10,938	16,894	6,219	7,958	12,564	10,984	3,502	7,004	62,103	28,126	181,694
2047	15,521	11,033	16,991	6,237	8,017	12,643	11,134	3,514	7,050	62,503	28,383	183,026
2048	15,634	11,121	17,080	6,253	8,073	12,716	11,279	3,523	7,085	62,816	28,701	184,281
2049	15,746	11,209	17,168	6,270	8,128	12,787	11,423	3,532	7,116	63,081	28,906	185,366
2050	15,846	11,286	17,240	6,283	8,177	12,846	11,556	3,539	7,138	63,275	29,111	186,297

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
2020	14,151	9,355	15,044	4,797	7,454	11,321	9,060	2,622	5,531	48,303	19,571	147,209
2021	14,308	9,488	15,260	5,132	7,512	11,413	9,132	2,725	5,513	48,577	19,738	148,798
2022	14,406	9,582	15,436	5,408	7,538	11,482	9,148	2,797	5,526	49,044	19,903	150,270
2023	14,313	9,550	15,415	5,598	7,459	11,402	9,037	2,825	5,424	48,176	19,521	148,720
2024	14,235	9,528	15,416	5,752	7,392	11,346	8,933	2,848	5,397	47,972	19,271	148,090
2025	14,149	9,502	15,397	5,850	7,326	11,292	8,828	2,867	5,377	47,779	18,998	147,365
2026	14,065	9,471	15,373	5,905	7,266	11,248	8,734	2,883	5,378	47,790	18,817	146,930
2027	13,981	9,433	15,337	5,924	7,213	11,210	8,656	2,897	5,391	47,906	18,804	146,752
2028	13,909	9,397	15,298	5,922	7,167	11,185	8,604	2,911	5,414	48,119	19,057	146,983
2029	13,847	9,366	15,259	5,909	7,133	11,169	8,582	2,924	5,452	48,452	19,282	147,375
2030	13,803	9,348	15,231	5,900	7,108	11,167	8,594	2,941	5,489	48,782	19,596	147,959
2031	13,778	9,351	15,220	5,894	7,097	11,173	8,637	2,960	5,547	49,290	19,958	148,905
2032	13,778	9,379	15,235	5,894	7,099	11,193	8,709	2,984	5,616	49,905	20,438	150,230
2033	13,798	9,426	15,271	5,899	7,113	11,225	8,802	3,013	5,695	50,599	20,856	151,697
2034	13,840	9,493	15,328	5,910	7,138	11,269	8,911	3,046	5,781	51,350	21,433	153,499
2035	13,904	9,572	15,406	5,928	7,173	11,328	9,033	3,081	5,874	52,177	22,067	155,543
2036	13,984	9,662	15,498	5,950	7,217	11,399	9,165	3,118	5,969	53,015	22,846	157,823
2037	14,073	9,755	15,594	5,973	7,264	11,477	9,301	3,154	6,067	53,874	23,567	160,099
2038	14,174	9,854	15,700	5,997	7,318	11,562	9,445	3,190	6,167	54,753	24,269	162,429
2039	14,283	9,958	15,812	6,021	7,375	11,654	9,596	3,224	6,265	55,621	25,090	164,899
2040	14,400	10,065	15,928	6,044	7,436	11,748	9,753	3,256	6,362	56,469	25,504	166,965
2041	14,518	10,172	16,044	6,067	7,497	11,843	9,910	3,285	6,455	57,289	25,841	168,921
2042	14,641	10,279	16,161	6,088	7,561	11,938	10,070	3,310	6,541	58,056	26,163	170,808
2043	14,764	10,385	16,276	6,109	7,625	12,031	10,230	3,333	6,622	58,765	26,477	172,617
2044	14,887	10,488	16,387	6,129	7,688	12,121	10,387	3,352	6,694	59,404	26,801	174,338
2045	15,005	10,586	16,490	6,147	7,749	12,205	10,539	3,367	6,760	59,972	27,017	175,837
2046	15,122	10,680	16,590	6,165	7,808	12,286	10,688	3,380	6,814	60,449	27,294	177,276
2047	15,239	10,773	16,685	6,183	7,867	12,363	10,834	3,392	6,858	60,837	27,545	178,576
2048	15,348	10,859	16,772	6,199	7,921	12,434	10,975	3,401	6,893	61,142	27,853	179,797
2049	15,458	10,945	16,858	6,216	7,976	12,503	11,115	3,410	6,922	61,401	28,052	180,856
2050	15,558	11,020	16,930	6,229	8,023	12,562	11,244	3,415	6,944	61,589	28,251	181,765

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
2020	2,845	2,082	2,915	623	1,441	2,521	2,322	681	1,505	11,720	5,556	34,211
2021	2,822	2,076	2,906	655	1,420	2,496	2,307	680	1,502	11,704	5,463	34,031
2022	2,806	2,074	2,901	684	1,403	2,479	2,298	680	1,510	11,804	5,385	34,024
2023	2,789	2,071	2,897	709	1,386	2,462	2,287	680	1,503	11,768	5,249	33,801
2024	2,775	2,069	2,894	729	1,371	2,449	2,280	681	1,504	11,802	5,158	33,712
2025	2,763	2,068	2,891	741	1,358	2,439	2,270	681	1,500	11,797	5,068	33,576
2026	2,752	2,066	2,888	747	1,350	2,434	2,262	682	1,506	11,855	4,987	33,529
2027	2,745	2,065	2,885	748	1,343	2,432	2,255	682	1,514	11,915	4,943	33,527
2028	2,743	2,063	2,883	747	1,341	2,434	2,251	683	1,522	11,997	4,951	33,615
2029	2,745	2,060	2,882	744	1,341	2,437	2,250	683	1,534	12,087	4,964	33,727
2030	2,749	2,059	2,881	742	1,344	2,443	2,253	683	1,546	12,177	4,985	33,862
2031	2,755	2,060	2,881	740	1,349	2,449	2,260	684	1,559	12,292	5,014	34,043
2032	2,764	2,063	2,881	738	1,354	2,454	2,272	685	1,573	12,414	5,058	34,256
2033	2,772	2,068	2,883	738	1,359	2,461	2,285	686	1,585	12,504	5,092	34,433
2034	2,784	2,075	2,887	737	1,365	2,467	2,301	687	1,597	12,599	5,140	34,639
2035	2,798	2,084	2,892	738	1,372	2,477	2,318	689	1,609	12,708	5,191	34,876
2036	2,813	2,094	2,899	738	1,380	2,488	2,336	691	1,622	12,808	5,271	35,140
2037	2,829	2,103	2,907	740	1,387	2,498	2,355	692	1,633	12,900	5,337	35,381
2038	2,845	2,114	2,914	741	1,396	2,511	2,374	695	1,643	12,980	5,407	35,620
2039	2,861	2,123	2,922	741	1,403	2,523	2,393	696	1,651	13,051	5,484	35,848
2040	2,876	2,132	2,928	742	1,411	2,535	2,411	696	1,655	13,087	5,515	35,988
2041	2,888	2,140	2,934	742	1,418	2,544	2,430	695	1,660	13,123	5,545	36,119
2042	2,899	2,147	2,938	742	1,425	2,553	2,446	694	1,665	13,156	5,556	36,221
2043	2,909	2,152	2,942	742	1,430	2,559	2,462	692	1,668	13,183	5,573	36,312
2044	2,916	2,158	2,944	742	1,434	2,565	2,476	690	1,671	13,208	5,586	36,390
2045	2,924	2,162	2,945	741	1,438	2,568	2,489	688	1,673	13,228	5,590	36,446
2046	2,930	2,165	2,945	741	1,442	2,571	2,501	687	1,675	13,239	5,606	36,502
2047	2,937	2,168	2,946	741	1,446	2,572	2,513	685	1,675	13,244	5,608	36,535
2048	2,941	2,171	2,945	741	1,448	2,573	2,526	684	1,675	13,241	5,627	36,572
2049	2,946	2,173	2,945	742	1,451	2,573	2,538	682	1,675	13,234	5,646	36,605
2050	2,951	2,175	2,944	742	1,453	2,573	2,550	681	1,673	13,219	5,657	36,618

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
2020	2,478	1,813	2,539	543	1,255	2,141	1,973	579	1,281	10,391	4,614	29,607
2021	2,458	1,808	2,531	571	1,237	2,120	1,960	579	1,278	10,376	4,537	29,455
2022	2,444	1,807	2,527	596	1,222	2,106	1,952	579	1,285	10,465	4,473	29,456
2023	2,429	1,804	2,523	617	1,207	2,091	1,943	579	1,279	10,433	4,359	29,264
2024	2,417	1,802	2,520	635	1,194	2,080	1,936	579	1,280	10,464	4,284	29,191
2025	2,406	1,801	2,518	645	1,183	2,072	1,928	579	1,276	10,459	4,209	29,076
2026	2,397	1,799	2,515	651	1,175	2,067	1,922	580	1,282	10,510	4,142	29,040
2027	2,391	1,798	2,513	652	1,170	2,065	1,915	580	1,289	10,564	4,106	29,043
2028	2,389	1,796	2,511	651	1,168	2,067	1,912	581	1,295	10,636	4,112	29,118
2029	2,391	1,794	2,510	648	1,168	2,070	1,911	581	1,306	10,716	4,123	29,218
2030	2,394	1,793	2,509	646	1,171	2,075	1,913	581	1,316	10,796	4,140	29,334
2031	2,399	1,794	2,509	644	1,175	2,080	1,920	582	1,326	10,898	4,164	29,491
2032	2,407	1,796	2,509	643	1,179	2,085	1,930	583	1,339	11,006	4,201	29,678
2033	2,414	1,801	2,511	643	1,184	2,090	1,941	584	1,349	11,086	4,229	29,832
2034	2,425	1,807	2,514	642	1,189	2,096	1,954	585	1,359	11,170	4,269	30,010
2035	2,437	1,815	2,519	643	1,195	2,104	1,969	587	1,369	11,267	4,311	30,216
2036	2,450	1,823	2,525	643	1,202	2,113	1,984	588	1,380	11,355	4,378	30,441
2037	2,464	1,832	2,532	644	1,208	2,122	2,000	589	1,390	11,437	4,432	30,650
2038	2,478	1,841	2,538	645	1,216	2,133	2,016	591	1,398	11,508	4,491	30,855
2039	2,492	1,849	2,545	645	1,222	2,143	2,033	592	1,405	11,571	4,555	31,052
2040	2,505	1,857	2,550	646	1,229	2,153	2,048	592	1,409	11,603	4,580	31,172
2041	2,515	1,863	2,555	646	1,235	2,161	2,064	591	1,412	11,634	4,605	31,281
2042	2,525	1,870	2,559	646	1,241	2,168	2,077	590	1,417	11,664	4,614	31,371
2043	2,533	1,874	2,562	646	1,245	2,174	2,091	589	1,420	11,688	4,629	31,451
2044	2,540	1,879	2,564	646	1,249	2,178	2,103	588	1,422	11,710	4,640	31,519
2045	2,546	1,883	2,565	645	1,253	2,181	2,114	586	1,424	11,728	4,642	31,567
2046	2,552	1,886	2,565	645	1,256	2,184	2,125	585	1,426	11,737	4,656	31,617
2047	2,558	1,888	2,566	645	1,259	2,185	2,135	583	1,426	11,742	4,658	31,645
2048	2,561	1,890	2,565	645	1,261	2,186	2,146	582	1,426	11,739	4,673	31,674
2049	2,566	1,892	2,565	646	1,264	2,186	2,156	580	1,426	11,733	4,689	31,703
2050	2,570	1,894	2,564	646	1,266	2,186	2,166	579	1,424	11,720	4,698	31,713

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
2020-21	2,374	1,662	2,691	800	1,418	2,023	1,665	514	894	7,871	3,547	25,459
2021-22	2,376	1,658	2,698	833	1,419	2,023	1,660	515	903	7,954	3,498	25,537
2022-23	2,387	1,659	2,715	863	1,424	2,031	1,656	519	925	8,180	3,459	25,818
2023-24	2,399	1,662	2,730	891	1,430	2,039	1,652	522	938	8,323	3,418	26,004
2024-25	2,415	1,667	2,746	914	1,438	2,050	1,649	526	961	8,550	3,395	26,311
2025-26	2,431	1,672	2,758	930	1,445	2,062	1,646	531	987	8,790	3,380	26,632
2026-27	2,447	1,679	2,769	941	1,453	2,075	1,644	535	1,021	9,090	3,382	27,036
2027-28	2,462	1,685	2,776	949	1,458	2,087	1,644	539	1,051	9,351	3,402	27,404
2028-29	2,478	1,691	2,782	952	1,464	2,099	1,648	544	1,082	9,652	3,446	27,838
2029-30	2,496	1,699	2,788	956	1,472	2,113	1,656	549	1,122	9,998	3,496	28,345
2030-31	2,515	1,707	2,797	960	1,479	2,129	1,672	555	1,162	10,355	3,536	28,867
2031-32	2,541	1,720	2,811	967	1,491	2,148	1,695	561	1,202	10,721	3,599	29,456
2032-33	2,572	1,737	2,831	974	1,505	2,172	1,723	569	1,246	11,101	3,675	30,105
2033-34	2,609	1,760	2,859	985	1,522	2,200	1,759	579	1,289	11,495	3,774	30,831
2034-35	2,654	1,786	2,892	997	1,543	2,233	1,799	589	1,332	11,889	3,896	31,610
2035-36	2,705	1,817	2,933	1,009	1,568	2,270	1,844	600	1,377	12,286	4,038	32,447
2036-37	2,762	1,851	2,978	1,024	1,594	2,310	1,892	612	1,408	12,670	4,199	33,300
2037-38	2,820	1,888	3,027	1,039	1,623	2,354	1,944	624	1,435	13,045	4,356	34,155
2038-39	2,883	1,926	3,079	1,056	1,654	2,400	1,997	638	1,459	13,398	4,535	35,025
2039-40	2,949	1,965	3,135	1,073	1,686	2,447	2,052	650	1,479	13,725	4,662	35,823
2040-41	3,015	2,007	3,190	1,090	1,718	2,495	2,107	662	1,497	14,025	4,793	36,599
2041-42	3,081	2,047	3,248	1,108	1,750	2,541	2,162	673	1,511	14,307	4,943	37,371
2042-43	3,145	2,088	3,303	1,126	1,781	2,585	2,217	684	1,523	14,559	5,071	38,082
2043-44	3,205	2,126	3,356	1,143	1,810	2,626	2,267	692	1,531	14,783	5,181	38,720
2044-45	3,261	2,163	3,405	1,159	1,835	2,663	2,315	699	1,538	14,973	5,274	39,285
2045-46	3,313	2,197	3,451	1,175	1,860	2,695	2,359	706	1,542	15,131	5,367	39,796
2046-47	3,359	2,228	3,494	1,188	1,882	2,723	2,400	711	1,546	15,242	5,452	40,225
2047-48	3,402	2,257	3,532	1,203	1,901	2,748	2,437	716	1,547	15,313	5,544	40,600
2048-49	3,442	2,285	3,568	1,217	1,920	2,769	2,472	719	1,547	15,348	5,627	40,914
2049-50	3,480	2,313	3,604	1,230	1,938	2,791	2,506	722	1,547	15,364	5,704	41,199
2050-51	3,513	2,337	3,634	1,243	1,952	2,808	2,537	724	1,547	15,364	5,758	41,417

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
2020-21	2,097	1,468	2,378	707	1,253	1,791	1,474	474	826	7,267	3,229	22,964
2021-22	2,099	1,466	2,384	737	1,254	1,791	1,469	475	833	7,343	3,184	23,035
2022-23	2,110	1,466	2,399	763	1,258	1,798	1,466	479	854	7,552	3,149	23,294
2023-24	2,120	1,468	2,412	787	1,264	1,805	1,463	482	866	7,683	3,111	23,461
2024-25	2,134	1,473	2,426	808	1,271	1,815	1,460	486	887	7,893	3,090	23,743
2025-26	2,148	1,478	2,437	822	1,277	1,826	1,457	490	911	8,114	3,077	24,037
2026-27	2,162	1,483	2,447	832	1,284	1,837	1,455	494	942	8,392	3,079	24,407
2027-28	2,176	1,489	2,453	838	1,288	1,847	1,455	498	970	8,633	3,097	24,744
2028-29	2,190	1,495	2,458	841	1,294	1,859	1,459	502	999	8,910	3,137	25,144
2029-30	2,206	1,501	2,464	845	1,301	1,871	1,466	507	1,035	9,230	3,182	25,608
2030-31	2,223	1,509	2,471	849	1,307	1,885	1,481	512	1,073	9,560	3,219	26,089
2031-32	2,245	1,520	2,484	854	1,318	1,902	1,500	518	1,110	9,898	3,276	26,625
2032-33	2,273	1,535	2,502	861	1,330	1,923	1,526	525	1,150	10,248	3,345	27,218
2033-34	2,306	1,555	2,526	870	1,345	1,947	1,557	534	1,190	10,612	3,436	27,878
2034-35	2,345	1,579	2,555	881	1,364	1,977	1,593	544	1,230	10,976	3,547	28,591
2035-36	2,390	1,606	2,592	892	1,385	2,010	1,632	554	1,271	11,342	3,676	29,350
2036-37	2,440	1,636	2,632	905	1,409	2,045	1,675	565	1,300	11,697	3,822	30,126
2037-38	2,492	1,668	2,675	918	1,434	2,084	1,721	576	1,325	12,043	3,965	30,901
2038-39	2,548	1,702	2,721	933	1,462	2,125	1,768	589	1,347	12,369	4,128	31,692
2039-40	2,606	1,737	2,770	948	1,490	2,166	1,816	601	1,366	12,671	4,244	32,415
2040-41	2,664	1,773	2,819	964	1,518	2,209	1,865	611	1,382	12,947	4,363	33,115
2041-42	2,723	1,809	2,870	980	1,547	2,250	1,914	622	1,395	13,208	4,500	33,818
2042-43	2,779	1,845	2,919	995	1,574	2,289	1,962	631	1,406	13,441	4,616	34,457
2043-44	2,832	1,879	2,966	1,010	1,599	2,325	2,007	639	1,414	13,648	4,716	35,035
2044-45	2,882	1,911	3,009	1,024	1,622	2,358	2,049	646	1,419	13,823	4,801	35,544
2045-46	2,927	1,941	3,050	1,038	1,644	2,386	2,089	652	1,423	13,968	4,886	36,004
2046-47	2,969	1,968	3,087	1,050	1,663	2,410	2,125	656	1,427	14,071	4,963	36,389
2047-48	3,006	1,995	3,121	1,063	1,680	2,433	2,158	661	1,428	14,137	5,047	36,729
2048-49	3,041	2,019	3,153	1,076	1,696	2,452	2,189	664	1,428	14,170	5,122	37,010
2049-50	3,075	2,044	3,184	1,087	1,712	2,471	2,219	667	1,428	14,184	5,192	37,263
2050-51	3,104	2,065	3,212	1,098	1,725	2,486	2,246	669	1,428	14,184	5,242	37,459

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	2,054	1,298	1,914	169	986	1,626	1,022	281	541	4,818	2,411	17,120
2017	2,268	1,433	2,109	186	1,089	1,806	1,168	303	600	5,335	2,733	19,030
2018	2,452	1,565	2,284	202	1,181	1,961	1,275	322	641	5,722	2,952	20,557
2019	2,598	1,686	2,428	215	1,256	2,083	1,377	346	711	6,384	3,053	22,137

Forecast of Cumulative Reductions in Annual Energy by Zone Relative to 2019 - GWh

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2020	123	88	121	10	64	102	130	34	112	1,010	91	1,885
2021	298	205	286	25	153	249	308	68	205	1,855	307	3,959
2022	509	350	492	43	262	425	516	104	292	2,648	559	6,200
2023	741	517	729	63	385	615	731	145	378	3,421	874	8,599
2024	1,003	714	1,008	87	525	824	957	192	461	4,181	1,129	11,081
2025	1,261	916	1,292	112	663	1,025	1,169	239	542	4,909	1,454	13,582
2026	1,515	1,119	1,574	136	801	1,223	1,377	285	609	5,519	1,779	15,937
2027	1,741	1,302	1,828	158	924	1,399	1,566	326	673	6,104	2,036	18,057
2028	1,947	1,472	2,062	178	1,036	1,559	1,742	365	736	6,668	2,156	19,921
2029	2,131	1,627	2,271	195	1,136	1,699	1,895	402	794	7,195	2,218	21,563
2030	2,268	1,748	2,433	209	1,213	1,803	2,020	433	854	7,738	2,297	23,016
2031	2,398	1,860	2,582	222	1,283	1,902	2,107	460	897	8,135	2,378	24,224
2032	2,507	1,927	2,706	233	1,343	1,986	2,178	482	935	8,469	2,459	25,225
2033	2,594	1,983	2,793	240	1,388	2,058	2,237	497	966	8,755	2,541	26,052
2034	2,669	2,031	2,867	246	1,428	2,120	2,288	509	993	9,004	2,599	26,754
2035	2,738	2,070	2,931	252	1,463	2,178	2,324	519	1,016	9,202	2,667	27,360
2036	2,784	2,104	2,981	257	1,487	2,215	2,362	528	1,038	9,402	2,713	27,871
2037	2,825	2,134	3,024	260	1,509	2,248	2,395	538	1,056	9,577	2,759	28,325
2038	2,863	2,163	3,066	264	1,530	2,279	2,425	545	1,075	9,743	2,806	28,759
2039	2,902	2,190	3,106	267	1,549	2,308	2,455	553	1,093	9,904	2,853	29,180
2040	2,938	2,218	3,145	271	1,569	2,337	2,485	561	1,110	10,063	2,900	29,597
2041	2,974	2,245	3,184	273	1,588	2,366	2,514	568	1,127	10,215	2,947	30,001
2042	3,009	2,271	3,222	277	1,607	2,394	2,543	576	1,144	10,364	2,994	30,401
2043	3,044	2,297	3,259	280	1,626	2,422	2,569	583	1,160	10,509	3,041	30,790
2044	3,077	2,321	3,294	284	1,643	2,448	2,596	591	1,176	10,652	3,088	31,170
2045	3,110	2,345	3,329	286	1,661	2,474	2,622	597	1,190	10,789	3,135	31,538
2046	3,142	2,369	3,364	289	1,678	2,499	2,646	604	1,205	10,924	3,182	31,902
2047	3,172	2,391	3,396	292	1,694	2,523	2,671	610	1,220	11,055	3,229	32,253
2048	3,202	2,413	3,429	295	1,710	2,547	2,695	617	1,234	11,184	3,276	32,602
2049	3,231	2,435	3,460	298	1,726	2,571	2,717	622	1,248	11,306	3,323	32,937
2050	3,260	2,456	3,490	300	1,741	2,593	2,742	629	1,261	11,428	3,370	33,270

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

Reductions in Summer Coincident Peak Demand by Zone Relative to 2019 - MW

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2020	18	14	19	2	9	14	18	5	15	136	46	296
2021	42	31	44	4	22	33	41	10	27	248	89	591
2022	72	53	75	7	38	58	70	16	39	354	161	943
2023	105	79	112	9	56	84	98	22	50	458	249	1,322
2024	142	109	155	13	77	113	128	30	61	560	321	1,709
2025	179	140	201	17	98	140	156	37	73	658	409	2,108
2026	217	170	246	21	118	167	185	45	82	739	498	2,488
2027	249	199	286	24	137	192	208	51	90	817	572	2,825
2028	279	225	323	28	153	213	233	58	99	894	611	3,116
2029	306	249	355	31	168	233	252	64	106	964	632	3,360
2030	326	268	381	33	180	247	268	69	114	1,037	656	3,579
2031	345	285	405	34	191	260	279	73	120	1,090	678	3,760
2032	361	295	424	36	200	272	290	76	126	1,135	700	3,915
2033	373	303	438	37	206	282	298	79	129	1,173	721	4,039
2034	383	311	449	38	212	290	305	81	133	1,206	744	4,152
2035	393	316	458	39	217	299	310	83	136	1,233	768	4,252
2036	400	321	467	40	220	303	315	84	139	1,260	779	4,328
2037	405	326	473	40	224	308	319	86	141	1,283	792	4,397
2038	411	330	480	41	227	312	324	86	144	1,306	805	4,466
2039	417	335	486	41	230	316	328	87	146	1,327	815	4,528
2040	422	339	493	42	233	320	332	89	149	1,349	842	4,610
2041	427	343	498	43	236	324	336	90	151	1,369	855	4,672
2042	432	348	505	43	239	328	340	91	153	1,388	868	4,735
2043	437	351	511	44	241	331	344	92	155	1,409	882	4,797
2044	442	354	516	44	244	335	348	94	157	1,428	895	4,857
2045	446	359	522	45	246	339	352	95	160	1,446	908	4,918
2046	451	363	526	45	249	342	354	96	162	1,464	922	4,974
2047	456	365	532	46	251	346	358	97	164	1,481	935	5,031
2048	459	369	537	46	254	349	361	98	166	1,498	948	5,085
2049	464	372	542	47	256	352	365	99	167	1,515	962	5,141
2050	468	375	547	47	259	355	368	100	169	1,531	975	5,194

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

Reductions in Winter Coincident Peak Demand by Zone Relative to 2019-20 - MW

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2020-21	18	11	18	2	9	15	19	5	17	152	33	299
2021-22	43	26	42	4	22	35	44	10	31	279	64	600
2022-23	73	45	73	7	38	60	73	16	44	397	100	926
2023-24	107	66	107	9	56	87	104	22	57	513	142	1,270
2024-25	144	90	148	13	76	117	136	29	69	628	188	1,638
2025-26	181	116	190	17	97	146	166	36	81	737	234	2,001
2026-27	219	141	232	20	116	175	195	43	91	828	275	2,335
2027-28	251	166	269	23	134	200	223	49	101	915	302	2,633
2028-29	281	186	304	26	151	222	247	55	111	1,001	315	2,899
2029-30	308	206	335	29	166	243	270	60	119	1,080	321	3,137
2030-31	327	221	359	31	177	258	286	66	128	1,161	341	3,355
2031-32	346	236	380	33	187	272	299	70	135	1,220	350	3,528
2032-33	362	244	399	34	195	284	310	73	140	1,271	363	3,675
2033-34	374	251	412	35	202	294	318	75	145	1,314	375	3,795
2034-35	385	257	423	36	207	302	326	77	149	1,351	387	3,900
2035-36	395	262	432	37	213	311	330	78	153	1,381	397	3,989
2036-37	402	266	439	38	216	316	336	80	155	1,411	403	4,062
2037-38	407	271	445	38	219	321	341	81	159	1,437	410	4,129
2038-39	413	274	452	39	222	326	345	83	162	1,463	416	4,195
2039-40	419	277	458	39	225	329	350	84	164	1,486	423	4,254
2040-41	424	281	463	40	228	334	353	85	166	1,510	430	4,314
2041-42	429	285	470	40	231	338	358	86	169	1,533	437	4,376
2042-43	434	288	475	41	233	341	361	87	172	1,556	444	4,432
2043-44	439	290	481	41	236	345	365	88	174	1,577	451	4,487
2044-45	444	294	485	42	239	350	369	89	177	1,599	458	4,546
2045-46	449	297	491	42	242	353	373	90	179	1,619	465	4,600
2046-47	453	300	496	43	244	356	377	91	180	1,639	472	4,651
2047-48	458	303	500	43	246	360	380	92	183	1,658	479	4,702
2048-49	462	306	505	44	248	364	383	93	185	1,679	486	4,755
2049-50	466	309	510	44	251	366	387	94	187	1,697	493	4,804
2050-51	471	312	514	44	253	370	390	95	190	1,715	500	4,854

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
2010	3	1	3	0	1	6	7	1	2	5	23	52
2011	5	2	5	0	2	11	11	2	3	8	34	83
2012	8	3	9	1	4	18	18	3	5	14	49	132
2013	12	5	14	1	7	30	28	5	7	23	71	203
2014	18	8	23	1	12	50	44	7	11	38	101	313
2015	28	13	37	2	21	80	68	11	16	60	173	509
2016	41	21	57	2	34	123	102	17	23	91	268	779
2017	61	32	86	3	55	177	146	23	31	129	356	1,099
2018	89	47	124	4	84	239	197	29	39	171	456	1,479
2019	126	79	174	16	125	317	241	33	45	213	527	1,896
2020	190	88	261	16	193	394	317	43	56	298	577	2,433
2021	268	115	344	18	272	482	379	49	62	352	680	3,021
2022	364	145	435	21	362	573	438	54	67	407	724	3,590
2023	477	177	529	25	462	663	489	59	74	463	774	4,192
2024	598	210	615	30	559	750	529	62	80	516	812	4,761
2025	719	240	690	35	646	825	560	65	85	564	818	5,247
2026	828	266	748	42	718	889	583	66	89	605	822	5,656
2027	921	287	793	50	771	940	599	66	93	645	826	5,991
2028	993	303	826	58	808	976	609	67	97	678	830	6,245
2029	1,049	315	846	64	835	1,004	616	67	100	706	835	6,437
2030	1,088	322	862	72	853	1,024	622	67	101	710	839	6,560
2031	1,116	327	872	77	864	1,038	626	67	101	716	842	6,646
2032	1,136	331	879	83	872	1,048	630	69	102	720	845	6,715
2033	1,151	333	884	87	878	1,057	634	69	102	725	848	6,768
2034	1,161	336	890	91	883	1,063	639	69	102	727	852	6,813
2035	1,168	338	894	92	888	1,069	642	69	103	732	855	6,850
2036	1,175	340	900	95	894	1,076	646	69	103	736	857	6,891
2037	1,182	342	907	96	900	1,083	651	69	104	739	861	6,934
2038	1,189	344	911	98	906	1,090	655	69	104	744	863	6,973
2039	1,197	346	917	98	911	1,096	659	69	105	747	867	7,012
2040	1,203	349	922	100	917	1,102	663	69	105	751	868	7,049
2041	1,211	351	927	100	923	1,109	666	69	105	755	869	7,085
2042	1,218	353	934	100	928	1,115	672	70	105	759	871	7,125
2043	1,225	354	938	100	933	1,122	675	70	106	763	871	7,157
2044	1,233	358	944	100	939	1,129	679	70	106	768	872	7,198
2045	1,240	360	949	101	945	1,135	683	70	106	772	874	7,235
2046	1,247	361	955	101	951	1,142	688	70	107	776	875	7,273
2047	1,254	364	961	101	956	1,149	693	70	107	779	876	7,310
2048	1,262	365	966	101	963	1,155	697	70	108	784	878	7,349
2049	1,269	368	972	101	968	1,162	701	70	108	787	878	7,384
2050	1,276	371	977	101	974	1,168	705	70	109	791	880	7,422

Note: Historical values reflect information from New York State's "Solar Electric Programs Reported by NYSERDA" database and from 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
2020	199	95	261	18	202	431	363	49	64	335	614	2,631
2021	282	125	345	20	285	529	436	57	71	397	727	3,274
2022	384	158	437	24	381	631	505	63	78	460	778	3,899
2023	505	194	533	28	488	733	566	68	86	526	836	4,563
2024	635	230	622	34	592	831	614	72	93	588	882	5,193
2025	766	264	700	40	687	918	652	76	99	644	892	5,738
2026	885	294	762	48	766	992	681	77	105	694	901	6,205
2027	988	318	810	57	825	1,052	702	77	110	742	910	6,591
2028	1,069	337	846	66	868	1,096	716	79	115	782	919	6,893
2029	1,132	351	870	74	900	1,132	727	79	119	817	929	7,130
2030	1,178	360	889	83	922	1,158	736	80	120	825	938	7,289
2031	1,213	367	902	89	937	1,178	743	80	121	834	946	7,410
2032	1,239	373	913	96	949	1,193	751	82	122	842	955	7,515
2033	1,259	376	921	102	958	1,207	758	82	123	850	963	7,599
2034	1,274	381	930	106	967	1,218	766	82	123	856	972	7,675
2035	1,286	385	938	108	976	1,229	773	83	124	864	980	7,746
2036	1,298	388	947	112	986	1,241	780	83	125	872	988	7,820
2037	1,310	392	957	114	995	1,253	788	84	126	879	997	7,895
2038	1,322	395	965	116	1,005	1,265	796	84	127	887	1,005	7,967
2039	1,335	399	974	117	1,014	1,277	803	84	128	894	1,014	8,039
2040	1,347	404	983	119	1,024	1,288	811	85	129	902	1,021	8,113
2041	1,360	407	992	119	1,034	1,300	818	85	129	909	1,027	8,180
2042	1,372	411	1,002	120	1,043	1,312	827	86	130	917	1,034	8,254
2043	1,385	414	1,010	121	1,053	1,324	834	86	131	925	1,040	8,323
2044	1,398	419	1,020	121	1,063	1,337	842	87	132	934	1,046	8,399
2045	1,411	423	1,029	122	1,073	1,348	850	87	133	942	1,054	8,472
2046	1,424	426	1,038	122	1,083	1,361	858	87	134	950	1,060	8,543
2047	1,437	431	1,048	123	1,093	1,374	867	88	135	957	1,067	8,620
2048	1,450	434	1,057	123	1,104	1,386	875	88	136	966	1,074	8,693
2049	1,463	439	1,067	124	1,114	1,399	883	89	137	973	1,080	8,768
2050	1,476	443	1,076	124	1,124	1,411	891	89	138	982	1,088	8,842

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
2020	34	18	49	4	35	89	78	11	12	74	151	555
2021	49	24	67	4	51	111	96	13	14	90	188	707
2022	67	30	85	5	70	132	111	15	16	106	204	841
2023	88	37	104	5	91	152	125	16	18	122	228	986
2024	112	43	123	6	112	171	135	17	19	136	228	1,102
2025	136	49	138	8	131	187	142	17	21	148	227	1,204
2026	158	55	150	9	147	199	146	17	22	158	226	1,287
2027	176	59	158	11	159	208	147	17	23	168	225	1,351
2028	190	62	162	12	165	214	147	17	24	175	224	1,392
2029	199	63	164	14	168	216	145	16	24	180	222	1,411
2030	203	63	163	15	169	215	143	16	24	180	220	1,411
2031	204	63	161	16	167	213	140	15	24	178	218	1,399
2032	204	62	159	17	165	211	137	15	24	177	216	1,387
2033	202	61	156	18	162	207	135	15	24	176	214	1,370
2034	199	60	153	19	159	204	132	15	24	175	211	1,351
2035	195	59	150	19	156	199	130	14	24	173	209	1,328
2036	191	58	146	19	152	195	127	14	24	172	207	1,305
2037	186	56	143	19	149	191	124	14	23	171	204	1,280
2038	181	55	140	19	145	186	122	13	23	168	201	1,253
2039	177	53	136	18	142	182	119	13	23	167	198	1,228
2040	172	52	133	18	138	178	116	13	23	166	196	1,205
2041	169	51	131	18	136	174	114	12	23	165	194	1,187
2042	166	50	129	18	134	172	113	12	23	163	194	1,174
2043	164	50	127	17	133	170	112	12	22	161	193	1,161
2044	162	49	126	17	131	169	111	12	22	160	192	1,151
2045	161	49	125	17	130	167	110	12	22	158	191	1,142
2046	160	48	124	17	129	166	109	12	22	156	191	1,134
2047	159	48	123	17	129	165	109	11	22	154	190	1,127
2048	158	48	123	17	128	164	108	11	21	152	190	1,120
2049	157	48	122	17	128	164	108	11	21	150	190	1,116
2050	157	48	122	17	128	164	108	11	21	149	190	1,115

Note: The actual impact of solar PV varies considerably by hour of day. The hour of the NYCA coincident peak varies annually.

The NYCA summer peak typically occurs in late afternoon, and may shift into the evening as additional behind-the-meter solar PV is added to the system.

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

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
2010	12	2	33	0	9	11	1	1	1	61	3	134
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	4	123	5	236
2021	18	3	50	1	11	23	1	1	4	130	5	247
2022	13	2	36	1	8	17	0	1	3	95	4	180
2023	11	2	31	1	7	15	0	1	3	85	3	159
2024	9	1	26	1	6	13	0	1	2	74	3	136
2025	9	1	27	1	6	13	0	1	2	77	3	140
2026	10	1	27	1	6	14	0	1	2	79	3	144
2027	10	1	27	1	6	14	0	1	2	82	3	147
2028	10	1	28	1	6	14	0	1	2	84	3	150
2029	10	1	28	1	6	15	0	1	3	87	3	155
2030	10	1	28	1	6	15	0	1	3	89	3	157
2031	10	1	28	1	6	15	0	1	3	92	3	160
2032	10	1	28	1	6	16	0	1	3	94	3	163
2033	10	1	29	1	6	16	0	1	3	96	3	166
2034	10	1	29	1	6	16	0	1	3	98	3	168
2035	10	1	29	1	6	16	0	1	3	100	3	170
2036	10	1	29	1	6	17	0	1	3	102	3	173
2037	10	1	29	1	6	17	0	1	3	104	3	175
2038	10	1	29	1	6	17	0	1	3	106	3	177
2039	10	1	29	1	6	17	0	1	3	108	3	179
2040	10	1	29	1	6	18	0	1	3	110	3	182
2041	10	1	29	1	6	18	0	1	3	112	3	184
2042	11	1	29	1	6	18	0	1	3	113	3	186
2043	11	1	30	1	6	18	0	1	3	115	3	189
2044	11	1	30	1	6	18	0	1	3	116	3	190
2045	11	1	30	1	6	19	0	1	3	118	3	193
2046	11	1	30	1	6	19	0	1	3	119	3	194
2047	11	1	30	1	6	19	0	1	3	121	3	196
2048	11	1	30	1	6	19	0	1	3	122	4	198
2049	11	1	30	1	6	19	0	1	3	124	4	200
2050	11	1	30	1	6	20	0	1	3	125	4	202

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

Note: A portion of existing behind-the-meter distributed generation units are assumed to enter the wholesale DER market.

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
2020	99	14	278	4	62	125	3	6	38	569	54	1,252
2021	101	14	284	4	63	130	3	7	53	700	57	1,416
2022	72	11	203	4	45	95	3	5	42	536	43	1,059
2023	63	9	177	3	39	84	2	4	38	482	39	940
2024	53	8	150	3	33	72	2	4	35	423	35	818
2025	54	8	153	4	33	75	2	4	37	446	36	852
2026	55	8	155	4	33	77	3	4	39	461	38	877
2027	55	8	156	4	34	79	3	4	41	476	40	900
2028	56	8	158	4	34	81	3	5	43	497	42	931
2029	57	8	160	5	34	83	3	5	45	512	44	956
2030	57	8	161	5	34	85	3	5	46	525	44	973
2031	58	8	162	5	34	86	3	5	49	545	44	999
2032	58	8	163	5	34	88	3	5	50	558	44	1,016
2033	58	8	164	6	34	90	3	5	51	570	44	1,033
2034	59	8	165	6	34	92	3	5	54	588	44	1,058
2035	59	8	166	6	35	93	3	5	55	599	44	1,073
2036	59	9	167	6	35	95	3	5	56	609	44	1,088
2037	60	9	168	6	35	96	3	5	58	626	44	1,110
2038	60	9	168	7	35	98	3	5	59	635	44	1,123
2039	60	9	169	7	35	99	3	5	60	643	44	1,134
2040	60	9	169	7	35	101	3	5	61	652	44	1,146
2041	61	9	170	7	35	102	3	5	62	660	44	1,158
2042	61	9	170	7	35	103	3	5	63	669	44	1,169
2043	61	9	171	7	35	105	3	5	64	677	44	1,181
2044	61	9	171	8	35	106	3	5	65	686	44	1,193
2045	61	9	172	8	35	107	3	5	66	694	44	1,204
2046	61	9	172	8	35	108	3	5	67	703	44	1,215
2047	62	9	172	8	35	109	3	5	68	711	44	1,226
2048	62	9	172	8	35	110	3	5	68	720	44	1,236
2049	62	9	173	8	35	111	3	5	69	728	44	1,247
2050	62	9	173	8	35	112	3	5	70	737	44	1,258

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
2020	15	2	42	1	9	19	0	1	4	119	6	218
2021	15	2	43	1	10	20	0	1	4	148	7	251
2022	11	1	31	1	7	14	1	1	3	114	5	189
2023	10	1	26	1	6	13	1	1	2	103	5	169
2024	8	1	23	1	5	11	1	1	2	91	4	148
2025	8	1	23	1	5	11	1	1	2	96	5	154
2026	8	1	23	1	5	12	1	1	2	99	5	158
2027	9	1	24	1	5	12	1	1	2	103	5	164
2028	9	1	24	1	5	12	1	1	3	108	5	170
2029	9	1	24	1	5	13	1	1	3	111	5	174
2030	9	1	24	1	5	13	1	1	3	114	5	177
2031	9	1	25	1	5	13	1	1	3	118	5	182
2032	9	1	25	1	5	13	1	1	3	121	5	185
2033	9	1	25	1	5	14	1	1	3	124	5	189
2034	9	1	25	1	5	14	1	1	3	128	5	193
2035	9	1	25	1	5	14	1	1	3	130	5	195
2036	9	1	25	1	5	14	1	1	3	133	5	198
2037	9	1	25	1	5	15	1	1	3	136	5	202
2038	9	2	26	1	5	15	1	1	3	138	5	206
2039	9	2	26	1	5	15	1	1	3	140	5	208
2040	9	2	26	1	5	15	1	1	3	142	5	210
2041	9	2	26	1	5	16	1	1	3	144	5	213
2042	9	2	26	1	5	16	1	1	3	146	5	215
2043	9	2	26	1	5	16	1	1	3	148	5	217
2044	9	2	26	1	5	16	1	1	3	150	5	219
2045	9	2	26	1	5	16	1	1	3	152	5	221
2046	9	2	26	1	5	16	1	1	3	154	5	223
2047	9	2	26	1	5	17	1	1	3	156	5	226
2048	9	2	26	1	5	17	1	1	3	158	5	228
2049	10	2	26	1	5	17	1	1	3	159	5	230
2050	10	2	26	1	5	17	1	1	3	161	5	232

Note: Peak reductions reflect estimated summer reductions for the year listed, along with reductions for the following winter. For example, the values listed for 2020 reflect reductions to the 2020 summer peak and the 2020-21 winter peak.

Table I-11a: 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
2020	15	13	15	2	7	19	18	9	5	40	56	199
2021	23	24	26	3	11	30	30	17	11	97	73	345
2022	33	38	40	4	17	43	45	27	20	177	94	538
2023	44	57	59	5	25	57	64	41	31	277	121	781
2024	57	83	84	8	34	74	89	59	45	394	158	1,085
2025	73	116	116	10	44	95	122	83	60	532	205	1,456
2026	97	149	151	14	60	122	157	103	78	686	272	1,889
2027	127	187	193	17	79	157	197	124	98	865	363	2,407
2028	162	232	242	20	101	196	245	149	122	1,075	487	3,031
2029	204	281	299	24	129	241	298	174	150	1,318	647	3,765
2030	251	335	359	29	159	291	356	200	171	1,506	849	4,506
2031	301	391	424	34	191	344	417	226	193	1,698	1,091	5,310
2032	358	452	493	38	226	401	483	252	216	1,897	1,368	6,184
2033	421	516	567	43	266	463	554	278	240	2,109	1,686	7,143
2034	490	585	647	48	308	530	629	304	264	2,327	2,048	8,180
2035	565	656	732	54	354	601	709	330	290	2,556	2,465	9,312
2036	647	733	822	59	404	678	795	357	318	2,795	2,940	10,548
2037	737	815	918	65	458	761	886	383	346	3,044	3,480	11,893
2038	834	900	1,020	71	515	848	983	408	375	3,304	3,926	13,184
2039	939	989	1,127	77	577	940	1,083	432	405	3,567	4,514	14,650
2040	1,050	1,080	1,237	83	642	1,035	1,187	454	435	3,831	4,751	15,785
2041	1,165	1,171	1,349	89	709	1,133	1,290	472	465	4,088	4,977	16,908
2042	1,284	1,261	1,460	95	777	1,229	1,394	487	493	4,334	5,187	18,001
2043	1,404	1,348	1,570	99	846	1,325	1,495	499	519	4,567	5,376	19,048
2044	1,527	1,433	1,678	105	914	1,419	1,594	507	544	4,784	5,546	20,051
2045	1,651	1,515	1,786	110	983	1,513	1,690	511	567	4,988	5,698	21,012
2046	1,776	1,596	1,890	114	1,053	1,605	1,784	513	589	5,179	5,833	21,932
2047	1,904	1,674	1,994	119	1,123	1,695	1,876	513	609	5,359	5,951	22,817
2048	2,033	1,750	2,097	123	1,193	1,785	1,967	513	628	5,527	6,055	23,671
2049	2,167	1,828	2,202	127	1,265	1,876	2,058	513	647	5,695	6,152	24,530
2050	2,300	1,900	2,302	131	1,335	1,963	2,144	513	664	5,844	6,228	25,324

Table I-11b: 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
2020	4	3	4	0	2	5	5	2	1	7	7	40
2021	6	5	6	1	3	8	7	4	2	17	9	68
2022	8	7	8	1	4	11	10	5	4	34	11	103
2023	11	10	11	1	6	15	13	6	6	55	13	147
2024	15	13	15	1	8	19	18	8	9	79	16	201
2025	19	17	19	2	10	24	23	9	12	107	19	261
2026	24	21	24	2	13	31	28	11	16	139	24	333
2027	31	26	30	3	16	38	35	14	20	174	31	418
2028	38	32	37	3	20	46	43	16	24	215	39	513
2029	47	38	45	4	25	55	51	18	30	263	49	625
2030	56	45	54	4	30	65	60	20	36	318	60	748
2031	66	52	63	5	36	75	69	23	40	356	72	857
2032	76	60	72	6	42	85	79	25	44	391	86	966
2033	88	68	82	6	48	96	89	27	48	423	102	1,077
2034	100	77	93	7	55	108	100	29	51	451	120	1,191
2035	113	86	105	8	63	121	112	31	54	474	139	1,306
2036	128	96	117	8	71	134	125	33	56	492	166	1,426
2037	143	106	130	9	79	148	138	35	57	504	197	1,546
2038	160	117	145	10	88	163	152	37	58	510	222	1,662
2039	176	128	158	11	98	177	166	38	58	509	255	1,774
2040	192	138	171	11	106	190	179	39	58	507	266	1,857
2041	207	147	183	12	114	201	190	39	57	505	273	1,928
2042	220	155	193	12	121	210	199	38	57	501	274	1,980
2043	230	160	200	13	126	217	206	37	56	497	270	2,012
2044	238	165	206	13	131	222	211	35	56	492	263	2,032
2045	246	168	212	13	135	225	215	33	55	485	254	2,041
2046	252	171	216	13	138	228	218	31	54	478	242	2,041
2047	258	173	219	13	141	229	220	29	53	470	228	2,033
2048	262	174	221	13	143	230	220	26	52	462	212	2,015
2049	266	175	223	13	145	230	221	24	51	452	195	1,995
2050	269	176	225	13	147	230	222	22	50	441	178	1,973

Table I-11c: 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
2020-21	6	6	6	1	3	8	8	4	1	11	12	66
2021-22	10	9	10	1	5	13	12	6	3	29	15	113
2022-23	14	12	14	1	7	18	16	8	7	58	18	173
2023-24	18	16	18	2	9	24	22	10	11	94	22	246
2024-25	24	21	24	2	12	31	29	12	15	135	27	332
2025-26	31	27	30	3	15	39	36	15	21	181	34	432
2026-27	39	34	39	3	20	50	46	18	27	236	42	554
2027-28	49	42	49	4	26	61	56	22	34	296	52	691
2028-29	61	51	60	5	32	74	68	25	42	366	64	848
2029-30	74	61	72	6	40	88	81	29	51	447	77	1,026
2030-31	88	71	85	7	48	103	95	32	61	541	90	1,221
2031-32	103	82	99	8	56	118	109	36	69	605	106	1,391
2032-33	120	94	113	9	66	134	124	39	76	665	122	1,562
2033-34	137	106	129	10	76	151	140	42	82	719	141	1,733
2034-35	156	120	145	11	86	169	157	45	87	767	161	1,904
2035-36	176	133	163	12	97	187	174	48	92	806	192	2,080
2036-37	197	148	181	13	109	207	193	51	95	836	228	2,258
2037-38	220	163	201	14	122	227	213	54	97	857	257	2,425
2038-39	245	180	222	15	136	249	234	56	99	867	296	2,599
2039-40	270	196	242	17	149	270	254	58	98	865	317	2,736
2040-41	293	211	261	18	162	289	273	59	98	862	333	2,859
2041-42	315	224	278	18	174	306	289	59	98	858	342	2,961
2042-43	334	235	293	19	184	320	303	58	97	852	344	3,039
2043-44	349	243	304	19	192	329	313	56	96	845	338	3,084
2044-45	362	250	314	20	199	337	321	54	95	836	327	3,115
2045-46	374	256	322	20	205	343	327	51	94	825	313	3,130
2046-47	383	260	328	20	210	346	331	47	92	813	294	3,124
2047-48	391	262	332	20	214	348	334	44	91	800	273	3,109
2048-49	397	264	335	20	217	349	335	40	89	785	249	3,080
2049-50	404	266	339	20	220	349	336	37	87	768	224	3,050
2050-51	409	267	342	20	223	349	337	33	85	750	197	3,012

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
2020	11	4	9	2	3	38	13	1	5	87	34	207
2021	22	8	18	3	6	56	26	3	10	170	59	381
2022	36	14	33	5	11	80	44	4	17	277	92	613
2023	54	20	51	7	18	108	68	7	26	404	136	899
2024	71	27	71	10	26	137	92	10	34	527	179	1,184
2025	89	35	93	11	35	165	118	13	43	642	224	1,468
2026	106	41	117	13	45	193	144	17	52	751	269	1,748
2027	123	50	141	14	57	220	171	21	60	854	316	2,027
2028	139	59	167	15	69	248	202	26	68	948	364	2,305
2029	155	67	194	17	82	273	230	30	75	1,036	412	2,571
2030	172	74	224	18	96	301	261	36	85	1,119	462	2,848
2031	189	81	246	19	106	329	287	40	94	1,231	508	3,130
2032	207	88	269	21	115	357	313	44	101	1,343	552	3,410
2033	224	95	292	22	125	385	339	48	111	1,456	598	3,695
2034	241	104	314	24	134	413	365	52	120	1,568	643	3,978
2035	256	110	334	26	143	438	389	55	126	1,668	684	4,229
2036	270	116	352	27	151	461	410	57	134	1,759	720	4,457
2037	283	122	369	28	158	481	428	60	139	1,841	753	4,662
2038	294	126	383	30	164	500	446	62	146	1,914	783	4,848
2039	305	131	397	30	169	516	462	65	151	1,980	809	5,015
2040	314	134	409	31	174	531	475	66	155	2,040	833	5,162
2041	322	138	419	32	179	545	488	69	159	2,093	855	5,299
2042	329	141	429	33	183	557	499	70	163	2,141	875	5,420
2043	336	144	438	34	187	567	509	72	166	2,185	892	5,530
2044	342	147	446	34	190	577	518	73	169	2,224	908	5,628
2045	347	149	453	34	193	586	527	74	172	2,259	922	5,716
2046	352	150	459	35	196	594	534	75	174	2,291	935	5,795
2047	356	152	465	36	198	601	540	77	176	2,319	946	5,866
2048	361	154	470	36	201	608	546	77	178	2,345	956	5,932
2049	364	156	474	36	202	614	552	78	179	2,367	966	5,988
2050	367	158	478	37	204	619	556	78	181	2,388	974	6,040

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
2020	1	0	1	0	0	1	1	0	0	11	4	19
2021	2	1	2	0	1	3	3	0	1	21	9	43
2022	4	1	3	1	1	5	4	0	1	37	10	67
2023	5	2	5	1	1	8	6	0	2	54	15	99
2024	6	3	6	1	2	11	8	1	2	71	19	130
2025	8	3	8	1	3	13	10	1	3	87	23	160
2026	9	4	10	1	4	15	13	1	3	101	28	189
2027	11	5	12	2	5	18	15	1	4	115	33	221
2028	12	5	14	2	6	20	18	3	4	133	37	254
2029	13	6	17	2	7	22	20	3	5	144	42	281
2030	15	6	20	2	8	25	23	3	5	155	47	309
2031	17	7	22	2	9	27	25	4	5	171	50	339
2032	18	8	23	2	10	29	27	4	6	187	53	367
2033	20	8	26	2	11	32	30	4	6	200	56	395
2034	21	9	27	2	12	34	32	4	7	217	58	423
2035	22	10	30	2	13	36	34	5	7	232	59	450
2036	24	10	31	2	13	39	36	5	8	245	61	474
2037	25	11	32	2	14	41	38	5	8	254	61	491
2038	26	11	34	2	14	42	39	5	8	265	62	508
2039	27	12	34	2	15	43	41	5	9	272	63	523
2040	27	12	36	2	15	45	41	7	9	282	63	539
2041	28	12	37	3	15	46	42	7	9	291	63	553
2042	29	13	38	3	16	47	44	7	9	296	63	565
2043	29	13	38	3	16	48	45	7	10	302	63	574
2044	30	13	39	3	17	49	45	7	10	308	63	584
2045	30	13	40	3	17	50	46	7	10	315	63	594
2046	31	14	40	3	18	50	47	7	10	318	63	601
2047	32	14	41	3	18	51	48	7	10	322	63	609
2048	32	14	41	3	18	52	48	7	10	325	63	613
2049	32	14	42	3	18	52	49	7	10	329	63	619
2050	32	14	42	3	18	53	49	7	10	331	63	622

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
2020	0	0	0	0	0	1	0	0	0	1	3	5
2021	0	0	1	0	0	3	0	0	0	3	7	14
2022	1	1	1	0	1	6	1	0	0	6	9	26
2023	1	2	2	0	1	10	2	0	0	11	15	44
2024	1	2	4	0	1	14	3	0	0	15	23	63
2025	2	2	5	0	2	18	5	1	1	24	31	91
2026	4	4	8	0	3	23	7	1	1	32	42	125
2027	4	4	10	0	4	28	9	2	1	43	54	159
2028	6	5	13	1	6	33	12	2	2	57	69	206
2029	8	6	16	1	8	37	15	3	2	71	83	250
2030	9	7	20	1	9	40	19	3	2	86	96	292
2031	11	8	22	1	10	46	21	4	3	99	107	332
2032	12	9	25	1	12	52	24	5	3	112	115	370
2033	13	10	28	1	13	56	27	5	4	121	121	399
2034	14	11	30	1	13	62	28	5	4	133	126	427
2035	15	12	33	1	15	67	31	5	5	143	130	457
2036	17	13	34	1	15	71	33	6	5	152	134	481
2037	17	14	37	1	17	75	35	6	5	163	137	507
2038	18	14	39	1	18	79	37	6	6	170	140	528
2039	19	15	41	1	18	83	38	6	6	179	143	549
2040	20	16	42	1	19	86	40	7	6	185	145	567
2041	21	17	44	1	20	90	41	7	6	191	146	584
2042	21	17	46	1	20	92	43	7	7	198	148	600
2043	22	17	46	1	21	95	44	7	7	205	150	615
2044	23	17	48	1	22	98	45	8	7	210	151	630
2045	24	17	49	2	22	100	46	8	7	214	153	642
2046	24	18	51	2	22	103	48	8	7	222	154	659
2047	25	19	51	2	23	106	49	9	7	228	156	675
2048	25	19	53	2	24	107	50	9	7	234	158	688
2049	25	20	54	2	25	110	51	10	7	237	159	700
2050	25	20	55	2	25	111	52	10	7	240	160	707

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	
2020-21	0	0	0	0	0	0	1	0	0	0	1	6	8
2021-22	0	0	0	0	0	0	2	0	0	0	3	8	13
2022-23	0	1	1	0	0	0	4	1	0	0	6	14	27
2023-24	1	1	2	0	1	0	7	2	0	0	11	20	45
2024-25	1	1	3	0	1	0	10	2	0	0	15	28	61
2025-26	2	2	4	0	2	0	13	4	0	1	24	38	90
2026-27	3	2	6	0	3	0	17	5	1	1	32	49	119
2027-28	3	3	8	0	3	0	21	7	1	1	43	62	152
2028-29	4	4	10	0	4	0	26	9	2	2	57	77	195
2029-30	6	5	13	1	6	0	29	12	2	2	71	92	239
2030-31	7	6	16	1	7	0	32	15	2	2	86	106	280
2031-32	8	7	19	1	8	0	38	17	3	3	99	117	320
2032-33	10	8	20	1	9	0	42	20	3	3	112	125	353
2033-34	11	9	23	1	10	0	47	21	3	4	121	131	381
2034-35	12	9	26	1	11	0	52	24	5	4	133	136	413
2035-36	14	10	28	1	12	0	56	27	5	5	143	141	442
2036-37	14	11	30	1	14	0	61	28	6	5	152	145	467
2037-38	15	12	32	1	14	0	65	30	6	5	163	148	491
2038-39	16	13	34	1	15	0	70	32	6	6	170	151	514
2039-40	17	14	36	1	16	0	74	34	6	6	179	153	536
2040-41	18	14	38	1	17	0	78	36	6	6	185	155	554
2041-42	19	15	39	1	18	0	81	37	7	6	191	157	571
2042-43	20	15	42	1	18	0	85	39	7	7	198	158	590
2043-44	20	16	43	1	19	0	89	41	7	7	205	160	608
2044-45	22	17	45	1	20	0	92	43	8	7	210	162	627
2045-46	22	17	47	1	21	0	96	45	8	7	214	163	641
2046-47	23	18	48	1	22	0	99	45	8	7	222	165	658
2047-48	24	18	50	2	23	0	102	47	8	7	228	167	676
2048-49	25	19	52	2	23	0	105	49	8	7	234	169	693
2049-50	25	19	53	2	24	0	109	51	10	7	237	170	707
2050-51	25	20	55	2	25	0	111	52	10	7	240	171	718

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 Total Cumulative Impacts

Total Annual Energy Usage by Zone - GWh

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2020	13	8	14	4	7	10	8	2	8	102	14	190
2021	30	18	32	10	15	24	19	6	20	254	29	457
2022	53	31	55	18	27	41	33	10	36	463	48	815
2023	82	47	85	28	41	64	51	16	57	745	73	1,289
2024	120	68	126	41	61	94	76	24	84	1,086	104	1,884
2025	170	94	178	58	86	132	107	35	113	1,474	144	2,591
2026	216	121	227	74	109	169	137	44	147	1,909	184	3,337
2027	267	151	281	92	135	209	169	55	184	2,391	229	4,163
2028	321	182	337	110	162	251	205	67	224	2,916	280	5,055
2029	376	215	395	129	190	293	241	78	268	3,479	333	5,997
2030	432	248	454	149	219	337	279	89	314	4,076	391	6,988
2031	489	283	514	169	247	381	316	101	362	4,700	452	8,014
2032	566	329	595	194	286	441	368	117	411	5,348	533	9,188
2033	663	388	696	228	335	516	433	136	463	6,013	636	10,507
2034	779	458	819	268	394	607	511	160	515	6,690	763	11,964
2035	896	530	942	307	453	698	591	184	567	7,373	899	13,440
2036	1,013	602	1,066	346	513	790	671	208	620	8,057	1,043	14,929
2037	1,132	676	1,190	387	573	882	753	232	672	8,735	1,192	16,424
2038	1,250	750	1,316	426	633	973	836	256	723	9,402	1,352	17,917
2039	1,373	827	1,444	466	695	1,069	921	282	773	10,050	1,503	19,403
2040	1,492	904	1,571	505	755	1,161	1,006	306	821	10,675	1,678	20,874
2041	1,646	1,002	1,733	556	833	1,282	1,116	338	867	11,269	1,886	22,528
2042	1,787	1,093	1,881	602	905	1,391	1,216	366	910	11,826	2,080	24,057
2043	1,909	1,173	2,010	643	966	1,485	1,305	392	949	12,338	2,258	25,428
2044	2,011	1,241	2,118	675	1,018	1,565	1,380	413	985	12,800	2,412	26,618
2045	2,108	1,306	2,221	707	1,068	1,640	1,451	433	1,016	13,203	2,576	27,729
2046	2,201	1,369	2,320	737	1,115	1,712	1,521	453	1,042	13,541	2,732	28,743
2047	2,290	1,430	2,414	765	1,160	1,780	1,588	471	1,062	13,806	2,890	29,656
2048	2,370	1,486	2,500	790	1,201	1,842	1,649	488	1,078	14,017	3,034	30,455
2049	2,443	1,538	2,578	813	1,238	1,899	1,705	503	1,091	14,189	3,172	31,169
2050	2,501	1,581	2,639	830	1,267	1,943	1,751	515	1,103	14,334	3,293	31,757

Note: Reflects end-use electrification including heat pumps and other space conditioning equipment, water heating, cooking, and other end-uses.

Table I-13b: Non-EV Electrification 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
2020	1	1	1	0	0	1	1	0	0	5	1	11
2021	2	1	2	1	1	1	1	0	1	12	3	25
2022	3	2	4	1	2	3	2	1	2	22	4	46
2023	5	3	6	2	3	4	3	1	3	35	7	72
2024	8	5	8	3	4	6	5	1	4	50	10	104
2025	11	7	12	4	6	9	7	2	5	68	15	146
2026	14	9	15	5	7	11	9	3	7	88	19	187
2027	17	11	18	6	9	14	11	3	8	110	23	230
2028	21	14	22	7	10	16	13	4	10	134	28	279
2029	24	16	25	8	12	19	15	4	12	159	33	327
2030	27	18	29	9	14	21	18	5	14	186	38	379
2031	31	20	32	11	16	24	20	6	16	214	43	433
2032	35	23	37	12	18	27	23	6	19	243	50	493
2033	41	27	43	14	21	32	27	8	21	273	59	566
2034	47	31	50	16	24	37	31	9	23	303	69	640
2035	54	36	57	18	27	42	35	10	26	333	80	718
2036	60	40	63	21	30	47	40	11	28	363	92	795
2037	66	44	70	23	34	52	44	12	30	393	103	871
2038	73	48	76	25	37	57	49	14	32	422	116	949
2039	79	53	83	27	40	62	53	15	35	450	127	1,024
2040	85	57	90	29	43	66	58	16	37	477	140	1,098
2041	93	62	98	31	47	73	63	18	39	503	156	1,183
2042	100	67	105	34	51	78	68	19	41	527	169	1,259
2043	106	71	111	36	54	82	72	20	42	548	181	1,323
2044	110	74	116	37	56	86	76	21	44	568	191	1,379
2045	115	77	121	38	58	89	79	22	45	585	202	1,431
2046	119	79	125	40	60	92	82	23	46	599	211	1,476
2047	123	82	129	41	62	95	85	24	47	609	221	1,518
2048	126	84	132	42	64	98	87	24	47	617	229	1,550
2049	128	86	135	43	65	100	90	25	48	624	237	1,581
2050	130	87	137	43	66	101	91	25	48	629	243	1,600

Note: Reflects end-use electrification including heat pumps and other space conditioning equipment, water heating, cooking, and other end-uses.

Table I-13c: Non-EV Electrification 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
2020-21	4	2	4	1	2	3	3	1	3	36	7	66
2021-22	10	4	9	3	5	8	6	3	11	146	16	221
2022-23	19	7	15	5	9	14	12	5	23	296	29	434
2023-24	30	12	25	8	15	23	18	8	37	478	47	701
2024-25	45	17	37	12	23	35	28	13	54	696	71	1,031
2025-26	64	25	54	18	33	50	41	18	73	946	101	1,423
2026-27	83	33	70	23	42	64	52	23	94	1,224	130	1,838
2027-28	103	43	89	29	53	81	66	29	117	1,523	161	2,294
2028-29	126	53	109	35	64	98	81	35	142	1,846	198	2,787
2029-30	149	64	130	43	76	116	96	42	168	2,188	236	3,308
2030-31	174	77	153	50	88	135	112	48	196	2,547	278	3,858
2031-32	199	89	176	58	101	155	129	54	225	2,919	322	4,427
2032-33	233	107	208	68	118	181	152	62	254	3,301	380	5,064
2033-34	276	129	248	81	139	215	180	73	284	3,689	454	5,768
2034-35	327	156	296	97	165	255	215	86	314	4,079	546	6,536
2035-36	380	184	346	113	193	296	251	99	344	4,468	644	7,318
2036-37	436	214	399	130	220	339	288	112	373	4,853	749	8,113
2037-38	491	246	453	147	249	383	327	126	402	5,230	858	8,912
2038-39	548	278	509	165	277	427	367	139	430	5,596	976	9,712
2039-40	608	313	567	183	308	473	408	153	457	5,947	1,087	10,504
2040-41	668	348	627	202	338	520	450	167	483	6,280	1,218	11,301
2041-42	744	394	703	226	377	579	504	184	507	6,590	1,371	12,179
2042-43	816	436	774	248	413	635	555	201	529	6,876	1,515	12,998
2043-44	880	476	840	269	445	685	602	215	549	7,132	1,649	13,742
2044-45	936	513	897	286	474	729	642	227	566	7,356	1,766	14,392
2045-46	990	548	954	303	501	770	682	238	580	7,545	1,889	15,000
2046-47	1,043	584	1,009	321	528	811	721	249	592	7,694	2,008	15,560
2047-48	1,095	620	1,065	338	555	852	760	260	600	7,800	2,130	16,075
2048-49	1,145	654	1,118	354	580	890	796	270	606	7,875	2,244	16,532
2049-50	1,191	687	1,168	368	604	926	832	280	610	7,927	2,352	16,945
2050-51	1,229	715	1,210	380	623	955	860	287	613	7,963	2,445	17,280

Note: Reflects end-use electrification including heat pumps and other electric space heating, water heating, cooking, and other end-uses.

Table I-14: Projection of SCR and EDRP Enrollment

Special Case Resources - MW

Zone	Summer	Winter
A	260	124
B	51	33
C	116	83
D	68	78
E	35	27
F	99	51
G	74	43
H	12	11
I	40	25
J	479	344
K	48	20
NYCA	1,282	839

Emergency Demand Response Program - MW

Zone	Summer	Winter
A	1	1
B	0	0
C	1	2
D	1	0
E	1	0
F	0	0
G	0	0
H	0	0
I	0	0
J	2	0
K	0	10
NYCA	6	13

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

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

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) End-Use Energy	(b) (-) EE and C&S	(c) (-) Solar PV, BTM	(d) (-) Non-Solar DG, BTM	(e) (+) Storage Net Energy Consumption	(f) (+) EV Energy	(g) (+) Non-EV Electrification	(h) =a-b-c-d+e+f+g Low Load Scenario Annual Energy Forecast
2020	149,719	2,717	2,938	1,252	19	199	115	143,145
2021	153,017	5,558	3,772	1,416	43	319	297	142,930
2022	155,545	8,758	4,587	1,059	67	428	543	142,179
2023	158,160	12,376	5,424	940	99	567	825	140,911
2024	161,287	16,690	6,260	818	130	744	1,154	139,547
2025	163,039	20,998	7,034	852	161	962	1,528	136,806
2026	164,526	24,913	7,734	877	192	1,247	1,924	134,365
2027	165,486	28,077	8,315	900	225	1,592	2,332	132,343
2028	165,988	30,432	8,781	931	262	1,945	2,765	130,816
2029	166,159	32,104	9,141	956	293	2,306	3,211	129,768
2030	166,162	33,307	9,395	973	322	2,687	3,676	129,172
2031	166,144	34,244	9,608	999	353	3,085	4,164	128,895
2032	166,139	35,047	9,801	1,016	383	3,525	4,666	128,849
2033	166,115	35,792	9,973	1,033	414	4,014	5,190	128,935
2034	166,072	36,513	10,123	1,058	444	4,556	5,735	129,113
2035	166,015	37,227	10,281	1,073	475	5,126	6,303	129,338
2036	165,935	37,925	10,429	1,088	506	5,722	6,892	129,613
2037	165,827	38,616	10,568	1,110	528	6,351	7,505	129,917
2038	165,672	39,293	10,702	1,123	551	7,005	8,141	130,251
2039	165,472	39,958	10,826	1,134	573	7,680	8,806	130,613
2040	165,230	40,608	10,947	1,146	600	8,375	9,494	130,998
2041	164,949	41,245	11,052	1,158	624	9,092	10,212	131,422
2042	164,665	41,870	11,155	1,169	644	9,827	10,958	131,900
2043	164,383	42,474	11,257	1,181	666	10,578	11,735	132,450
2044	164,121	43,060	11,349	1,193	687	11,353	12,542	133,101
2045	163,872	43,633	11,439	1,204	708	12,157	13,380	133,841
2046	163,638	44,188	11,516	1,215	726	12,982	14,254	134,681
2047	163,399	44,724	11,598	1,226	747	13,829	15,161	135,588
2048	163,165	45,242	11,673	1,236	763	14,683	16,104	136,564
2049	162,922	45,746	11,752	1,247	784	15,543	17,059	137,563
2050	162,643	46,244	11,807	1,258	799	16,419	18,069	138,621

- (a) - End-Use Energy Consumption - Reflects impacts of projected weather trends and economic growth
- (b) - Table I-8a-L: Energy Efficiency and Codes & Standards Energy Impacts, Relative to 2019
- (c) - Table I-9b-L: Solar PV Impacts, Behind-the-Meter - Total Reductions in Annual Energy
- (d) - Table I-10b-L: Non-Solar Distributed Generation Impacts, Behind-the-Meter - Total Reductions in Annual Energy
- (e) - 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)
- (f) - Table I-11a-L: Electric Vehicle Energy Usage
- (g) - Table I-13a-L: Non-EV Electrification Energy Usage - end-use electrification including heat pumps, water heating, cooking, and other end-uses
- (h) - 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) End-Use Peak Demand	(b) (-) EE and C&S	(c) (-) Solar PV, BTM	(d) (-) Non-Solar DG, BTM	(e) (-) BTM Storage Peak Reductions	(f) (+) EV Peak Demand	(g) (+) Non-EV Electrification	(h) =a-b-c-d-e+f+g Low Load Scenario Summer Peak Forecast
2020	32,164	448	619	218	5	30	6	30,910
2021	32,619	810	812	251	14	41	17	30,790
2022	33,011	1,286	985	189	26	54	32	30,611
2023	33,469	1,822	1,165	169	44	70	49	30,388
2024	33,897	2,458	1,322	148	63	87	67	30,060
2025	34,251	3,089	1,467	154	93	109	91	29,648
2026	34,575	3,667	1,594	158	129	137	114	29,278
2027	34,819	4,136	1,692	164	168	170	139	28,968
2028	35,005	4,488	1,759	170	219	203	164	28,736
2029	35,128	4,743	1,792	174	270	241	191	28,581
2030	35,218	4,919	1,800	177	320	278	219	28,499
2031	35,288	5,053	1,795	182	362	318	246	28,460
2032	35,356	5,173	1,789	185	404	362	276	28,443
2033	35,407	5,278	1,776	189	437	406	302	28,435
2034	35,459	5,393	1,757	193	470	452	329	28,427
2035	35,506	5,502	1,737	195	512	498	356	28,414
2036	35,519	5,605	1,714	198	546	548	386	28,390
2037	35,532	5,704	1,686	202	586	596	414	28,364
2038	35,519	5,804	1,656	206	622	650	444	28,325
2039	35,494	5,897	1,626	208	662	699	476	28,276
2040	35,483	6,011	1,596	210	702	741	509	28,214
2041	35,443	6,103	1,573	213	742	778	545	28,135
2042	35,401	6,192	1,556	215	781	809	583	28,049
2043	35,365	6,284	1,541	217	824	830	621	27,950
2044	35,333	6,371	1,526	219	868	847	661	27,857
2045	35,293	6,454	1,513	221	911	861	703	27,758
2046	35,264	6,535	1,499	223	964	872	747	27,662
2047	35,253	6,614	1,488	226	1,020	875	790	27,570
2048	35,223	6,689	1,475	228	1,067	874	838	27,476
2049	35,219	6,763	1,469	230	1,120	859	886	27,382
2050	35,198	6,836	1,464	232	1,166	842	937	27,279

- (a) - End-Use 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 2019
- (c) - Table I-9c-L: Solar PV Impacts, Behind-the-Meter, Total Reductions in Summer Coincident Peak Demand
- (d) - Table I-10c-L: Non-Solar Distributed Generation Impacts, Behind-the-Meter, Total Reductions in Coincident Peak Demand
- (e) - 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)
- (f) - Table I-11b-L: Electric Vehicle Summer Coincident Peak Demand
- (g) - Table I-13b-L: Non-EV Electrification Summer Coincident Peak Demand - end-use electrification including heat pumps, water heating, cooking, and other end-uses
- (h) - 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) End-Use Peak Demand	(b) (-) EE and C&S	(c) (-) Solar PV, BTM	(d) (-) Non-Solar DG, BTM	(e) (-) BTM Storage Peak Reductions	(f) (+) EV Peak Demand	(g) (+) Non-EV Electrification	(h) =a-b-c-d-e+f+g Low Load Scenario Winter Peak Forecast
2020-21	24,184	481	0	218	8	52	45	23,574
2021-22	24,480	862	0	251	13	71	124	23,549
2022-23	24,705	1,323	0	189	27	87	237	23,490
2023-24	25,006	1,830	0	169	45	112	369	23,443
2024-25	25,330	2,484	0	148	61	142	534	23,313
2025-26	25,586	3,105	0	154	92	180	737	23,152
2026-27	25,793	3,661	0	158	123	225	937	23,013
2027-28	25,895	4,098	0	164	158	278	1,156	22,909
2028-29	25,960	4,428	0	170	208	330	1,376	22,860
2029-30	25,963	4,667	0	174	257	386	1,611	22,862
2030-31	25,959	4,859	0	177	306	440	1,855	22,912
2031-32	25,921	4,993	0	182	351	499	2,106	23,000
2032-33	25,857	5,110	0	185	387	565	2,381	23,121
2033-34	25,788	5,220	0	189	418	633	2,659	23,253
2034-35	25,720	5,333	0	193	455	709	2,957	23,405
2035-36	25,648	5,434	0	195	494	787	3,253	23,565
2036-37	25,572	5,538	0	198	529	860	3,565	23,732
2037-38	25,478	5,635	0	202	567	936	3,888	23,898
2038-39	25,371	5,733	0	206	606	1,016	4,226	24,068
2039-40	25,250	5,829	0	208	646	1,088	4,578	24,233
2040-41	25,121	5,925	0	210	685	1,151	4,941	24,393
2041-42	24,985	6,018	0	213	726	1,207	5,324	24,559
2042-43	24,852	6,110	0	215	769	1,254	5,720	24,732
2043-44	24,729	6,199	0	217	814	1,287	6,136	24,922
2044-45	24,617	6,284	0	219	865	1,315	6,565	25,129
2045-46	24,501	6,365	0	221	910	1,336	7,014	25,355
2046-47	24,402	6,447	0	223	962	1,349	7,483	25,602
2047-48	24,321	6,528	0	226	1,020	1,357	7,967	25,871
2048-49	24,226	6,602	0	228	1,075	1,357	8,473	26,151
2049-50	24,150	6,674	0	230	1,130	1,335	8,986	26,437
2050-51	24,077	6,749	0	232	1,184	1,305	9,524	26,741

(a) - End-Use 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 2019-20

(c) - The forecast of solar PV-related reductions to the winter peak is zero because the system typically peaks after sunset

(d) - Table I-10c-L: Non-Solar Distributed Generation Impacts, Behind-the-Meter, Total Reductions in Coincident Peak Demand

(e) - 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)

(f) - Table I-11c-L: Electric Vehicle Winter Coincident Peak Demand

(g) - Table I-13c-L: Non-EV Electrification Winter Coincident Peak Demand - end-use electrification including heat pumps, water heating, cooking, and other end-uses

(h) - 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) End-Use Energy	(b) (-) EE and C&S	(c) (-) Solar PV, BTM	(d) (-) Non-Solar DG, BTM	(e) (+) Storage Net Energy Consumption	(f) (+) EV Energy	(g) (+) Non-EV Electrification	(h) =a-b-c-d+e+f+g High Load Scenario Annual Energy Forecast
2020	157,619	2,021	2,560	1,252	19	199	389	152,393
2021	160,258	4,234	3,079	1,416	43	345	996	152,913
2022	164,181	6,612	3,645	1,059	67	538	1,890	155,360
2023	164,969	9,111	4,233	940	99	781	2,815	154,380
2024	166,559	11,635	4,794	818	130	1,085	3,897	154,424
2025	167,968	13,768	5,301	852	160	1,456	5,122	154,785
2026	169,339	15,078	5,716	877	189	1,889	6,462	156,208
2027	170,492	15,950	6,052	900	221	2,407	7,873	158,091
2028	171,550	16,557	6,298	931	254	3,031	9,362	160,411
2029	172,327	17,037	6,479	956	281	3,765	10,907	162,808
2030	172,962	17,511	6,612	973	309	4,506	12,588	165,269
2031	173,595	17,953	6,711	999	339	5,310	14,504	168,085
2032	174,161	18,376	6,786	1,016	367	6,184	16,752	171,286
2033	174,443	18,727	6,838	1,033	395	7,143	19,337	174,720
2034	174,726	19,035	6,888	1,058	423	8,180	22,252	178,600
2035	175,027	19,303	6,937	1,073	450	9,312	25,398	182,874
2036	175,364	19,536	6,982	1,088	474	10,548	28,656	187,436
2037	175,539	19,707	7,026	1,110	491	11,893	31,927	192,007
2038	175,791	19,857	7,072	1,123	508	13,184	35,203	196,634
2039	176,008	19,988	7,115	1,134	523	14,650	38,483	201,427
2040	176,151	20,124	7,159	1,146	539	15,785	41,659	205,705
2041	175,992	20,226	7,205	1,158	553	16,908	44,610	209,474
2042	175,923	20,324	7,249	1,169	565	18,001	47,214	212,961
2043	175,966	20,416	7,291	1,181	574	19,048	49,433	216,133
2044	176,146	20,513	7,340	1,193	584	20,051	51,239	218,974
2045	176,204	20,585	7,387	1,204	594	21,012	52,703	221,337
2046	176,337	20,669	7,427	1,215	601	21,932	53,890	223,449
2047	176,456	20,749	7,475	1,226	609	22,817	54,891	225,323
2048	176,643	20,843	7,516	1,236	613	23,671	55,666	226,998
2049	176,725	20,907	7,565	1,247	619	24,530	56,380	228,535
2050	176,848	20,971	7,611	1,258	622	25,324	56,725	229,679

- (a) - End-Use Energy Consumption - Reflects impacts of projected weather trends and economic growth
- (b) - Table I-8a-H: Energy Efficiency and Codes & Standards Energy Impacts, Relative to 2019
- (c) - Table I-9b-H: Solar PV Impacts, Behind-the-Meter - Total Reductions in Annual Energy
- (d) - Table I-10b-H: Non-Solar Distributed Generation Impacts, Behind-the-Meter - Total Reductions in Annual Energy
- (e) - 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)
- (f) - Table I-11a-H: Electric Vehicle Energy Usage
- (g) - Table I-13a-H: Non-EV Electrification Energy Usage - end-use electrification including heat pumps, water heating, cooking, and other end-uses
- (h) - 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) End-Use Peak Demand	(b) (-) EE and C&S	(c) (-) Solar PV, BTM	(d) (-) Non-Solar DG, BTM	(e) (-) BTM Storage Peak Reductions	(f) (+) EV Peak Demand	(g) (+) Non-EV Electrification	(h) =a-b-c-d-e+f+g High Load Scenario Summer Peak Forecast
2020	33,452	313	539	218	5	52	23	32,452
2021	33,912	629	658	251	14	85	57	32,502
2022	34,500	1,000	779	189	26	126	111	32,743
2023	34,778	1,396	904	169	44	183	163	32,611
2024	35,156	1,791	1,006	148	63	248	227	32,623
2025	35,501	2,142	1,101	154	91	328	300	32,641
2026	35,887	2,372	1,176	158	125	426	381	32,863
2027	36,244	2,534	1,229	164	159	537	468	33,163
2028	36,613	2,641	1,260	170	206	671	555	33,562
2029	36,915	2,720	1,271	174	250	828	648	33,976
2030	37,174	2,800	1,268	177	292	994	749	34,380
2031	37,436	2,873	1,256	182	332	1,164	858	34,815
2032	37,695	2,942	1,241	185	370	1,343	981	35,281
2033	37,861	3,000	1,221	189	399	1,540	1,115	35,707
2034	38,030	3,049	1,201	193	427	1,751	1,265	36,176
2035	38,215	3,094	1,179	195	457	1,978	1,423	36,691
2036	38,386	3,131	1,153	198	481	2,223	1,582	37,228
2037	38,530	3,159	1,127	202	507	2,487	1,743	37,765
2038	38,669	3,184	1,102	206	528	2,753	1,901	38,303
2039	38,800	3,203	1,075	208	549	3,040	2,060	38,865
2040	38,892	3,229	1,053	210	567	3,291	2,213	39,337
2041	38,960	3,248	1,033	213	584	3,546	2,353	39,781
2042	39,038	3,259	1,021	215	600	3,787	2,477	40,207
2043	39,135	3,279	1,006	217	615	4,011	2,578	40,607
2044	39,238	3,294	997	219	630	4,222	2,663	40,983
2045	39,336	3,306	987	221	642	4,422	2,726	41,328
2046	39,451	3,322	978	223	659	4,613	2,773	41,655
2047	39,560	3,334	970	226	675	4,798	2,812	41,965
2048	39,683	3,353	961	228	688	4,974	2,842	42,269
2049	39,812	3,364	956	230	700	5,151	2,866	42,579
2050	39,926	3,375	952	232	707	5,311	2,878	42,849

- (a) - End-Use 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 2019
- (c) - Table I-9c-H: Solar PV Impacts, Behind-the-Meter, Total Reductions in Summer Coincident Peak Demand
- (d) - Table I-10c-H: Non-Solar Distributed Generation Impacts, Behind-the-Meter, Total Reductions in Coincident Peak Demand
- (e) - 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)
- (f) - Table I-11b-H: Electric Vehicle Summer Coincident Peak Demand
- (g) - Table I-13b-H: Non-EV Electrification Summer Coincident Peak Demand - end-use electrification including heat pumps, water heating, cooking, and other end-uses
- (h) - 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) End-Use Peak Demand	(b) (-) EE and C&S	(c) (-) Solar PV, BTM	(d) (-) Non-Solar DG, BTM	(e) (-) BTM Storage Peak Reductions	(f) (+) EV Peak Demand	(g) (+) Non-EV Electrification	(h) =a-b-c-d-e+f+g High Load Scenario Winter Peak Forecast
2020-21	24,523	317	0	218	8	85	149	24,214
2021-22	24,881	640	0	251	13	140	465	24,582
2022-23	25,311	987	0	189	27	213	929	25,250
2023-24	25,515	1,346	0	169	45	302	1,404	25,661
2024-25	25,787	1,719	0	148	61	408	1,963	26,230
2025-26	26,026	2,032	0	154	90	540	2,591	26,881
2026-27	26,271	2,215	0	158	119	699	3,280	27,758
2027-28	26,397	2,332	0	164	152	883	4,006	28,638
2028-29	26,505	2,417	0	170	195	1,101	4,778	29,602
2029-30	26,605	2,485	0	174	239	1,355	5,621	30,683
2030-31	26,655	2,565	0	177	280	1,625	6,530	31,788
2031-32	26,714	2,626	0	182	320	1,899	7,530	33,015
2032-33	26,732	2,690	0	185	353	2,191	8,653	34,348
2033-34	26,726	2,746	0	189	381	2,508	9,987	35,905
2034-35	26,697	2,796	0	193	413	2,845	11,522	37,662
2035-36	26,681	2,841	0	195	442	3,207	13,182	39,592
2036-37	26,650	2,872	0	198	467	3,603	14,914	41,630
2037-38	26,613	2,899	0	202	491	4,025	16,660	43,706
2038-39	26,584	2,925	0	206	514	4,441	18,419	45,799
2039-40	26,518	2,944	0	208	536	4,894	20,188	47,912
2040-41	26,437	2,966	0	210	554	5,268	21,913	49,888
2041-42	26,296	2,979	0	213	571	5,647	23,527	51,707
2042-43	26,167	2,994	0	215	590	6,029	24,962	53,359
2043-44	26,081	3,011	0	217	608	6,383	26,199	54,827
2044-45	26,037	3,023	0	219	627	6,718	27,220	56,106
2045-46	25,991	3,033	0	221	641	7,040	28,066	57,202
2046-47	25,939	3,046	0	223	658	7,342	28,775	58,129
2047-48	25,890	3,060	0	226	676	7,635	29,385	58,948
2048-49	25,853	3,074	0	228	693	7,918	29,867	59,643
2049-50	25,824	3,084	0	230	707	8,196	30,327	60,326
2050-51	25,821	3,092	0	232	718	8,453	30,558	60,790

(a) - End-Use 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 2019-20

(c) - The forecast of solar PV-related reductions to the winter peak is zero because the system typically peaks after sunset

(d) - Table I-10c-H: Non-Solar Distributed Generation Impacts, Behind-the-Meter, Total Reductions in Coincident Peak Demand

(e) - 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)

(f) - Table I-11c-H: Electric Vehicle Winter Coincident Peak Demand

(g) - Table I-13c-H: Non-EV Electrification Winter Coincident Peak Demand - end-use electrification including heat pumps, water heating, cooking, and other end-uses

(h) - 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*: <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*: <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*: <https://www.nyiso.com/documents/20142/10773574/NYISO-Climate-Impact-Study-Phase1-Report.pdf>

Section II

**Changes in Generating Facilities &
Generation Since the 2019 *Gold Book***

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Section II

This section provides an overview of significant changes in generating facilities since the 2019 *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 2019 Gold Book through March 15, 2020, which is an addition of 896 MW for the summer. Second, any additional generation changes from March 15, 2020 until the summer of 2020 are reported, which is a decrease of 1,744 MW, excluding changes in Special Case Resources and Net Purchases. This results in a total capacity decrease of 848 MW from the summer of 2019 to the summer of 2020. Generator capacity values listed are Dependable Maximum Net Generating Capability (“DMNC”).

Changes in Existing Generation Since the 2019 Gold Book

The existing summer 2020 NYCA installed generating capacity as of March 15, 2020 of 40,191 MW increased by 896 MW above the summer 2019 generating capacity of 39,295 MW, as shown in Table II-1a. The winter 2020-2021 NYCA installed generating capacity as of March 15, 2020 of 42,601 MW increased by 811 MW above the winter 2019-2020 generating capacity of 41,790 MW, as shown in Table II-1b.

Table II-1a: Summary of Changes in Summer Capacity Since 2019 – MW

Generator Fuel Types	2019 Capacity	Deactivations	Additions & Uprates	Reclassifications	Ratings Changes	2020 Capacity
Gas	3,777	-4	1,020		-67	4,725
Oil	2,407	-31			40	2,416
Gas & Oil	19,112				118	19,230
Coal	837	-151			-10	676
Nuclear	5,400				-9	5,391
Pumped Storage	1,411				-4	1,407
Hydro	4,253				-6	4,247
Wind	1,739				0	1,739
Other	358	-6			6	359
Total	39,295	-191	1,020	0	67	40,191

Since the publication of the 2019 *Gold Book*, three new units with 1,020 MW of summer capability and 1,127 MW of winter capability have been added. Six units totaling 191 MW of summer capacity and 201 MW of winter capacity have been deactivated. Capability changes in existing generators resulted in a net increase of 67 MW in summer and a net decrease of 116 MW in winter. There were no reclassifications from one fuel type to another.

Table II-1b: Summary of Changes in Winter Capacity Since 2019 – MW

Generator Fuel Types	2019/20 Capacity	Deactivations	Additions & Uprates	Reclassifications	Ratings Changes	2020/21 Capacity
Gas	4,031	-7	1,127		-39	5,111
Oil	2,839	-36			-45	2,758
Gas & Oil	20,913				8	20,921
Coal	844	-152			-7	684
Nuclear	5,430				-7	5,424
Pumped Storage	1,409				-4	1,405
Hydro	4,224				-23	4,201
Wind	1,739				0	1,739
Other	362	-6			0	357
Total	41,790	-201	1,127	0	-116	42,601

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.

Proposed Changes to Generation for Summer 2020

Proposed generator deactivations result in a decrease of 1,694 MW for the Summer 2020 Capability Period, as shown in Table V-2a. There is no returning or new generation projected during this period.

Demand Response Resources for Summer 2020 and Winter 2020-21

The projected 2020 Summer Capability for SCR is 1,282 MW. The projected summer 2020 enrollment for the EDRP is 6 MW. For winter 2020-21, the SCR total is 839 MW and the EDRP enrollment is 13 MW.

Total Resource Capability for Summer 2020 and Winter 2020-21

The Total Resource Capability forecasted for the 2020 Summer Capability Period is 41,341 MW. This value is the sum of existing facilities (40,191 MW), Special Case Resources (1,282 MW), net generation additions and deactivations (-1,694 MW) and net purchases from external areas (1,562 MW). This is a decrease of 714 MW from the 2019 value of 42,056 MW.

For the Winter Capability Period, the forecasted Total Resource Capability is 43,117 MW. This value is

the sum of existing facilities (42,601 MW), Special Case Resources (839 MW), net generation additions and deactivations (-818 MW), and net purchases from external areas (496 MW). This is a decrease of 204 MW from the 2019-2020 value of 43,321 MW.

Summary of 2019 Energy Generation

In 2019, a total of 134,536 GWh was generated in the NYCA, a decrease of 0.8% from the 135,585 GWh generated in 2018. Renewable energy generation was 37,294 GWh in 2019 (28% of total NYCA generation), compared to 35,808 GWh in 2018 (26%). Fossil-fueled energy generation in 2019 was 52,454 GWh (39%), compared to 56,774 GWh in 2018 (42%). Nuclear energy generation was 44,788 GWh in 2019 (33%), compared to 43,003 GWh in 2018 (32%).

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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, 2020. 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 values⁶ 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 2019 *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 2020 Summer Installed Capacity market will generally use DMNC values taken from the 2019 Summer Capability Period. The Winter Capability Period values represent the most recent DMNC values demonstrated during a Winter Capability Period. The 2020-21 Winter Installed Capacity Market will generally use DMNC values taken from the 2019-20 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.

⁶ 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)
FO2 - No. 2 Fuel Oil	ES - Energy Storage
FO4 - No. 4 Fuel Oil	FC - Fuel Cell
FO6 - 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 - Oneida
005 - Bronx	067 - Onondaga
007 - Broome	069 - Ontario
009 - Cattaraugus	071 - Orange
011 - Cayuga	073 - Orleans
013 - Chautauqua	075 - Oswego
015 - Chemung	077 - Otsego
017 - Chenango	079 - Putnam
019 - Clinton	081 - Queens
021 - Columbia	083 - Rensselaer
023 - Cortland	085 - Richmond
025 - Delaware	087 - Rockland
027 - Dutchess	089 - St Lawrence
029 - Erie	091 - Saratoga
031 - Essex	093 - Schenectady
033 - Franklin	095 - Schoharie
035 - Fulton	097 - Schuyler
037 - Genesee	099 - Seneca
039 - Greene	101 - Steuben
041 - Hamilton	103 - Suffolk
043 - Herkimer	105 - Sullivan
045 - Jefferson	107 - Tioga
047 - Kings	109 - Tompkins
049 - Lewis	111 - Ulster
051 - Livingston	113 - Warren
053 - Madison	115 - Washington
055 - Monroe	117 - Wayne
057 - Montgomery	119 - Westchester
059 - Nassau	121 - Wyoming
061 - New York	123 - Yates

<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	2020 CRIS ^(A) MW		2020 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(J)		2019 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
Astoria Energy II, LLC	Astoria Energy 2 - CC3		J	323677	Queens	081	36	2011-07-01	330.0	288.0	376.3	285.0	329.5	YES	CC	NG	F02	2,723.9	(G)
Astoria Energy II, LLC	Astoria Energy 2 - CC4		J	323678	Queens	081	36	2011-07-01	330.0	288.0	376.3	285.0	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	290.6	334.1	YES	CC	NG	F02	3,193.0	(G)
Astoria Energy, LLC	Astoria East Energy - CC2		J	323582	Queens	081	36	2006-04-01	320.0	292.6	355.3	290.6	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	173.5	170.6		ST	NG		5.1	
Astoria Generating Company L.P.	Astoria 3		J	23516	Queens	081	36	1958-09-01	376.0	369.9	369.9	369.5	369.4	YES	ST	F06	NG	402.3	
Astoria Generating Company L.P.	Astoria 5		J	23518	Queens	081	36	1962-05-01	387.0	376.3	376.3	379.4	376.2	YES	ST	F06	NG	251.6	
Astoria Generating Company L.P.	Astoria GT 01		J	23523	Queens	081	36	1967-07-01	16.0	15.7	20.5	14.1	19.1		GT	NG		0.6	
Astoria Generating Company L.P.	Gowanus 1-1		J	24077	Brooklyn	047	36	1971-06-01	20.0	19.1	24.9	18.6	24.0		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	19.1	24.1		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	23.3		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	16.3	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	17.3	22.8		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		0.0	
Astoria Generating Company L.P.	Gowanus 1-7		J	24112	Brooklyn	047	36	1971-06-01	20.0	17.6	23.0	17.2	22.1		GT	F02		0.0	
Astoria Generating Company L.P.	Gowanus 1-8		J	24113	Brooklyn	047	36	1971-06-01	20.0	16.1	21.0	15.3	21.7		GT	F02		0.1	
Astoria Generating Company L.P.	Gowanus 2-1		J	24114	Brooklyn	047	36	1971-06-01	20.0	17.9	23.4	17.7	22.4	YES	GT	F02	NG	0.6	
Astoria Generating Company L.P.	Gowanus 2-2		J	24115	Brooklyn	047	36	1971-06-01	20.0	18.8	24.6	15.2	24.6	YES	GT	F02	NG	0.5	
Astoria Generating Company L.P.	Gowanus 2-3		J	24116	Brooklyn	047	36	1971-06-01	20.0	20.6	26.9	19.1	24.9	YES	GT	F02	NG	0.2	
Astoria Generating Company L.P.	Gowanus 2-4		J	24117	Brooklyn	047	36	1971-06-01	20.0	19.3	25.2	17.1	22.8	YES	GT	F02	NG	0.5	
Astoria Generating Company L.P.	Gowanus 2-5		J	24118	Brooklyn	047	36	1971-06-01	20.0	18.6	24.3	17.7	23.3	YES	GT	F02	NG	0.5	
Astoria Generating Company L.P.	Gowanus 2-6		J	24119	Brooklyn	047	36	1971-06-01	20.0	20.3	26.5	19.5	24.3	YES	GT	F02	NG	0.5	
Astoria Generating Company L.P.	Gowanus 2-7		J	24120	Brooklyn	047	36	1971-06-01	20.0	19.6	25.6	19.0	24.6	YES	GT	F02	NG	0.4	
Astoria Generating Company L.P.	Gowanus 2-8		J	24121	Brooklyn	047	36	1971-06-01	20.0	17.7	23.1	17.0	23.1	YES	GT	F02	NG	0.2	
Astoria Generating Company L.P.	Gowanus 3-1		J	24122	Brooklyn	047	36	1971-07-01	20.0	17.7	23.1	16.4	22.2	YES	GT	F02	NG	0.5	
Astoria Generating Company L.P.	Gowanus 3-2		J	24123	Brooklyn	047	36	1971-07-01	20.0	17.7	23.1	16.8	22.8	YES	GT	F02	NG	0.4	
Astoria Generating Company L.P.	Gowanus 3-3		J	24124	Brooklyn	047	36	1971-07-01	20.0	19.8	25.9	18.0	24.4	YES	GT	F02	NG	0.3	
Astoria Generating Company L.P.	Gowanus 3-4		J	24125	Brooklyn	047	36	1971-07-01	20.0	17.9	23.4	15.9	22.0	YES	GT	F02	NG	0.2	
Astoria Generating Company L.P.	Gowanus 3-5		J	24126	Brooklyn	047	36	1971-07-01	20.0	19.0	24.8	17.3	22.1	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	21.0	YES	GT	F02	NG	0.2	
Astoria Generating Company L.P.	Gowanus 3-7		J	24128	Brooklyn	047	36	1971-07-01	20.0	18.1	23.6	17.9	24.3	YES	GT	F02	NG	0.4	
Astoria Generating Company L.P.	Gowanus 3-8		J	24129	Brooklyn	047	36	1971-07-01	20.0	19.0	24.8	17.8	24.0	YES	GT	F02	NG	0.4	
Astoria Generating Company L.P.	Gowanus 4-1		J	24130	Brooklyn	047	36	1971-07-01	20.0	16.8	21.9	18.9	24.7		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	17.3	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	18.0	23.4		GT	F02		0.0	
Astoria Generating Company L.P.	Gowanus 4-4		J	24133	Brooklyn	047	36	1971-07-01	20.0	17.1	22.3	15.8	22.3		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	16.8	22.2		GT	F02		0.1	
Astoria Generating Company L.P.	Gowanus 4-6		J	24135	Brooklyn	047	36	1971-07-01	20.0	18.6	24.3	18.0	24.8		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	2020 CRIS ^(A) MW		2020 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(J)		2019 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
Astoria Generating Company L.P.	Gowanus 4-7		J	24136	Brooklyn	047	36	1971-07-01	20.0	16.6	21.7	14.0	21.1	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	16.5	23.2	GT	F02			0.1	
Astoria Generating Company L.P.	Narrows 1-1		J	24228	Brooklyn	047	36	1972-05-01	22.0	21.0	27.4	19.7	24.2	YES	GT	F02	NG	2.3	
Astoria Generating Company L.P.	Narrows 1-2		J	24229	Brooklyn	047	36	1972-05-01	22.0	19.5	25.5	17.4	23.7	YES	GT	F02	NG	1.5	
Astoria Generating Company L.P.	Narrows 1-3		J	24230	Brooklyn	047	36	1972-05-01	22.0	20.4	26.6	18.1	24.0	YES	GT	F02	NG	3.4	
Astoria Generating Company L.P.	Narrows 1-4		J	24231	Brooklyn	047	36	1972-05-01	22.0	20.1	26.3	18.5	24.7	YES	GT	F02	NG	2.0	
Astoria Generating Company L.P.	Narrows 1-5		J	24232	Brooklyn	047	36	1972-05-01	22.0	19.8	25.9	19.8	24.9	YES	GT	F02	NG	3.1	
Astoria Generating Company L.P.	Narrows 1-6		J	24233	Brooklyn	047	36	1972-05-01	22.0	18.9	24.7	16.5	21.7	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	19.7	24.6	YES	GT	F02	NG	2.3	
Astoria Generating Company L.P.	Narrows 1-8		J	24235	Brooklyn	047	36	1972-05-01	22.0	19.9	26.0	17.1	23.6	YES	GT	F02	NG	1.6	
Astoria Generating Company L.P.	Narrows 2-1		J	24236	Brooklyn	047	36	1972-06-01	22.0	19.4	25.3	18.8	24.8	YES	GT	F02	NG	2.6	
Astoria Generating Company L.P.	Narrows 2-2		J	24237	Brooklyn	047	36	1972-06-01	22.0	18.7	24.4	16.3	22.4	YES	GT	F02	NG	1.5	
Astoria Generating Company L.P.	Narrows 2-3		J	24238	Brooklyn	047	36	1972-06-01	22.0	18.4	24.0	17.9	23.3	YES	GT	F02	NG	3.1	
Astoria Generating Company L.P.	Narrows 2-4		J	24239	Brooklyn	047	36	1972-06-01	22.0	18.4	24.0	18.1	24.9	YES	GT	F02	NG	3.0	
Astoria Generating Company L.P.	Narrows 2-5		J	24240	Brooklyn	047	36	1972-06-01	22.0	19.9	26.0	18.2	24.2	YES	GT	F02	NG	1.6	
Astoria Generating Company L.P.	Narrows 2-6		J	24241	Brooklyn	047	36	1972-06-01	22.0	18.1	23.6	15.8	22.0	YES	GT	F02	NG	1.3	
Astoria Generating Company L.P.	Narrows 2-7		J	24242	Brooklyn	047	36	1972-06-01	22.0	20.7	27.0	18.9	24.6	YES	GT	F02	NG	3.6	
Astoria Generating Company L.P.	Narrows 2-8		J	24243	Brooklyn	047	36	1972-06-01	22.0	17.5	22.9	15.7	22.3	YES	GT	F02	NG	2.1	
Bayonne Energy Center, LLC	Bayonne EC CTG1		J	323682	Bayonne NJ	017	34	2012-06-01	64.0	63.2	66.1	58.9	62.1	YES	JE	NG	KER	50.0	
Bayonne Energy Center, LLC	Bayonne EC CTG2		J	323683	Bayonne NJ	017	34	2012-06-01	64.0	63.2	66.1	58.5	61.5	YES	JE	NG	KER	53.5	
Bayonne Energy Center, LLC	Bayonne EC CTG3		J	323684	Bayonne NJ	017	34	2012-06-01	64.0	63.2	66.1	59.4	61.8	YES	JE	NG	KER	55.7	
Bayonne Energy Center, LLC	Bayonne EC CTG4		J	323685	Bayonne NJ	017	34	2012-06-01	64.0	63.2	66.1	61.7	61.7	YES	JE	NG	KER	57.3	
Bayonne Energy Center, LLC	Bayonne EC CTG5		J	323686	Bayonne NJ	017	34	2012-06-01	64.0	63.2	66.1	58.9	62.1	YES	JE	NG	KER	58.6	
Bayonne Energy Center, LLC	Bayonne EC CTG6		J	323687	Bayonne NJ	017	34	2012-06-01	64.0	63.2	66.1	59.2	62.1	YES	JE	NG	KER	67.3	
Bayonne Energy Center, LLC	Bayonne EC CTG7		J	323688	Bayonne NJ	017	34	2012-06-01	64.0	63.2	66.1	60.0	62.9	YES	JE	NG	KER	77.2	
Bayonne Energy Center, LLC	Bayonne EC CTG8		J	323689	Bayonne NJ	017	34	2012-06-01	64.0	63.2	66.1	60.6	63.1	YES	JE	NG	KER	76.3	
Bayonne Energy Center, LLC	Bayonne EC CTG9		J	323749	Bayonne NJ	017	34	2018-06-01	64.0	63.4	66.3	61.9	65.4	YES	JE	NG	KER	93.2	
Bayonne Energy Center, LLC	Bayonne EC CTG10		J	323750	Bayonne NJ	017	34	2018-06-01	64.0	63.4	66.3	61.0	64.5	YES	JE	NG	KER	65.1	
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			168.0	
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			15.6	
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			53.3	
Boralex Hydro Operations Inc	Sissonville		E	23735	Potsdam	089	36	1990-08-01	3.1	3.0	3.0	3.1	3.1	HY	WAT			17.2	
Boralex Hydro Operations Inc	Warrensburg		F	23737	Warrensburg	113	36	1988-12-01	2.9	3.0	3.0	2.9	2.9	HY	WAT			14.7	
Calpine Energy Services LP	Bethpage		K	23823	Hicksville	059	36	1989-09-01	83.6	54.9	55.1	51.1	59.9	YES	CC	NG	F02	195.5	
Calpine Energy Services LP	Bethpage GT4		K	323586	Hicksville	059	36	2002-07-01	60.0	48.2	51.2	45.3	47.5	GT	NG			45.3	
Calpine Energy Services LP	KIAC_JFK_GT1		J	23816	Jamaica	081	36	1995-02-01	60.6	58.7	58.7	57.5	60.7	YES	CC	NG	F02	481.9	(G)
Calpine Energy Services LP	KIAC_JFK_GT2		J	23817	Jamaica	081	36	1995-02-01	60.6	58.3	58.3	56.4	59.3	YES	CC	NG	F02		
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	83.4	(9) (E)

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	2020 CRIS ^(A) MW		2020 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(J)		2019 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
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			208.4	
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			72.5	
Carr Street Generating Station LP	Carr St.-E. Syr		C	24060	Dewitt	067	36	1993-08-01	122.6	89.0	116.8	89.0	101.9	YES	CC	NG	FO2	50.2	
Castleton Power, LLC	Castleton Energy Center		F	23900	Castleton	083	36	1992-01-01	72.0	69.0	86.6	67.7	76.5	YES	CC	NG	FO2	129.4	
Cayuga Operating Company, LLC	Cayuga 1 (MOTHBALL)		C	23584	Lansing	109	36	1955-09-01	155.3	154.1	154.1	0.0	0.0	ST	BIT			80.4	(1) (C)
Central Hudson Gas & Elec. Corp.	Coxsackie GT		G	23611	Coxsackie	039	36	1969-12-01	21.6	19.9	26.0	20.2	23.9	YES	GT	KER	NG	0.8	
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	8.2	8.7	ST	REF			42.6	
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	18.1	22.5	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.	Walkill		G	5007	Shawangunk	111	36	1986-12-01	0.5	0.0	0.0	0.0	0.0	HY	WAT			0.0	
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			6.7	
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			5.0	
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	20.3	YES	GT	KER	NG	0.1	
Consolidated Edison Co. of NY, Inc.	74 St. GT 1		J	24260	Manhattan	061	36	1968-10-01	18.5	19.0	23.5	15.9	19.5	GT	KER			0.1	
Consolidated Edison Co. of NY, Inc.	74 St. GT 2		J	24261	Manhattan	061	36	1968-10-01	18.5	20.1	25.7	19.3	21.4	GT	KER			0.2	
Consolidated Edison Co. of NY, Inc.	Brooklyn Navy Yard		J	23515	Brooklyn	047	36	1996-11-01	322.0	266.9	348.6	266.8	290.4	YES	CC	NG	FO2	1,814.6	
Consolidated Edison Co. of NY, Inc.	East River 1		J	323558	Manhattan	061	36	2005-04-01	185.0	160.5	199.0	153.3	199.1	YES	CC	NG	KER	1,212.6	
Consolidated Edison Co. of NY, Inc.	East River 2		J	323559	Manhattan	061	36	2005-04-05	185.0	162.4	201.4	154.8	195.0	YES	CC	NG	KER	989.4	
Consolidated Edison Co. of NY, Inc.	East River 6		J	23660	Manhattan	061	36	1951-11-01	156.2	144.3	144.3	144.5	148.7	YES	ST	NG	FO6	472.6	
Consolidated Edison Co. of NY, Inc.	East River 7		J	23524	Manhattan	061	36	1955-06-01	200.0	186.7	186.7	186.9	180.3	YES	ST	NG	FO6	144.3	
Consolidated Edison Co. of NY, Inc.	Hudson Ave 3 (IIFO)		J	23810	Brooklyn	047	36	1970-07-01	16.3	16.0	20.9	0.0	0.0	GT	KER			0.1	(2) (I)
Consolidated Edison Co. of NY, Inc.	Hudson Ave 4 (RETIRED)		J	23540	Brooklyn	047	36	1970-07-01	16.3	13.9	18.2	0.0	0.0	GT	KER			0.0	(3) (R)
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	20.2	GT	KER			0.6	
Consolidated Edison Energy, Inc.	Albany LFGE		F	323615	Albany	001	36	1998-05-01	5.6	4.5	4.5	5.6	5.6	IC	MTE			11.7	
Consolidated Edison Energy, Inc.	Beaver Falls		E	23983	Beaver Falls	049	36	1995-03-01	107.8	80.2	94.9	80.5	90.5	YES	CC	NG	FO2	1.9	
Consolidated Edison Energy, Inc.	Broome 2 LFGE		C	323671	Binghamton	007	36	2013-01-31	2.1	2.0	2.0	2.0	2.0	IC	MTE			17.5	
Consolidated Edison Energy, Inc.	Danskammer 1		G	23586	Newburgh	071	36	1951-12-01	72.0	69.0	69.0	69.2	69.9	YES	ST	NG	FO6	1.2	
Consolidated Edison Energy, Inc.	Danskammer 2		G	23589	Newburgh	071	36	1954-09-01	73.5	64.7	64.7	65.7	66.4	YES	ST	NG	FO6	1.3	
Consolidated Edison Energy, Inc.	Danskammer 3		G	23590	Newburgh	071	36	1959-10-01	147.1	139.2	139.2	137.2	139.2	ST	NG			2.8	
Consolidated Edison Energy, Inc.	Danskammer 4		G	23591	Newburgh	071	36	1967-09-01	239.4	238.2	238.2	223.0	227.0	ST	NG			3.9	

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	2020 CRIS ^(A) MW		2020 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(J)		2019 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
Consolidated Edison Energy, Inc.	Massena		D	23902	Massena	089	36	1992-07-01	102.1	82.2	107.9	80.5	92.3	YES	CC	NG	FO2	1.5	
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		33.8	
Consolidated Edison Energy, Inc.	Rensselaer		F	23796	Rensselaer	083	36	1993-12-01	96.9	79.0	79.0	76.3	82.7	YES	CC	NG	FO2	3.5	
Consolidated Edison Energy, Inc.	Roseton 1		G	23587	Newburgh	071	36	1974-12-01	621.0	614.8	614.8	592.0	595.0	YES	ST	FO6	NG	59.1	
Consolidated Edison Energy, Inc.	Roseton 2		G	23588	Newburgh	071	36	1974-09-01	621.0	605.7	605.7	590.8	607.5	YES	ST	FO6	NG	84.5	
Consolidated Edison Energy, Inc.	Selkirk-I		F	23801	Selkirk	001	36	1992-03-01	107.2	82.1	107.2	76.8	104.3	YES	CC	NG	FO2	15.4	
Consolidated Edison Energy, Inc.	Selkirk-II		F	23799	Selkirk	001	36	1994-09-01	338.8	291.3	380.5	272.1	330.1	YES	CC	NG	FO2	115.8	
Consolidated Edison Energy, Inc.	Syracuse		C	23985	Syracuse	067	36	1993-09-01	102.7	86.8	107.3	85.1	97.2	YES	CC	NG	FO2	13.6	
Consolidated Hydro New York, Inc.	Grovesville 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		2.2	
Covanta Niagara, LP	American Ref-Fuel 1		A	24010	Niagara	063	36	1993-05-01	25.0	19.6	19.6	16.5	15.2		ST	REF		209.0	(G)
Covanta Niagara, LP	American Ref-Fuel 2		A	24010	Niagara	063	36	1993-05-01	25.0	19.6	19.6	16.5	15.2		ST	REF			
CPV Valley, LLC	CPV_VALLEY___CC1		G	323721	Wawayanda	071	36	2018-03-01	385.0	340.0	380.5	333.9	377.9	YES	CC	NG	FO2	2,038.4	
CPV Valley, LLC	CPV_VALLEY___CC2		G	323722	Wawayanda	071	36	2018-03-01	385.0	340.0	380.5	337.0	377.5	YES	CC	NG	FO2	2,056.3	
Cricket Valley Energy Center, LLC	CRICKET___VALLEY_CC1		G	323756	Dover	027	36	2019-10-29	392.3	340.0	375.7	340.0	375.7		CC	NG		0.0	(4) (N)
Cricket Valley Energy Center, LLC	CRICKET___VALLEY_CC2		G	323757	Dover	028	36	2020-01-03	392.3	340.0	375.7	340.0	375.7		CC	NG		0.0	(4) (N)
Cricket Valley Energy Center, LLC	CRICKET___VALLEY_CC3		G	323758	Dover	029	36	2020-01-17	392.3	340.0	375.7	340.0	375.7		CC	NG		0.0	(4) (N)
Cubit Power One Inc.	Arthur Kill Cogen		J	323718	Staten Island	085	36	2018-05-22	11.1	11.1	11.1	11.1	11.1		IC	NG		28.2	
Dynergy Marketing and Trade, LLC	Independence		C	23970	Scriba	075	36	1994-11-01	1,254.0	956.4	1,130.9	971.2	1,130.9		CC	NG		5,162.1	
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		12.8	(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		34.2	
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		12.0	
East Coast Power, LLC	Linden Cogen		J	23786	Linden NJ	039	34	1992-05-01	800.0	790.8	924.9	790.8	827.2	YES	CC	NG	BUT	4,195.8	
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		264.6	
EDP Renewables NA	Arkwright Summit Wind Farm		A	323751	Arkwright	013	36	2018-09-01	78.4	78.4	78.4	0.0	0.0		WT	WND		256.8	
Emera Energy Services, Inc	Lockport		A	23791	Lockport	063	36	1992-07-01	221.3	225.2	261.7	207.6	232.9	YES	CC	NG	FO2	207.6	
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	79.1	89.7		ST	NG	WD	55.7	(10) (E)
Emera Energy Services Sub. No. 3 LLC	Fortistar - N.Tonawanda		A	24026	N.Tonawanda	029	36	1993-06-01	68.5	59.0	75.0	59.3	68.5	YES	CC	NG	FO2	17.8	
Empire Generating Co, LLC	EMPIRE_CC_1		F	323656	Rensselaer	083	36	2010-09-02	335.0	294.2	360.2	297.9	337.3	YES	CC	NG	FO2	1,183.2	
Empire Generating Co, LLC	EMPIRE_CC_2		F	323658	Rensselaer	083	36	2010-09-02	335.0	298.2	365.1	297.9	337.3	YES	CC	NG	FO2	1,205.6	
ENGIE Energy Marketing NA, Inc.	Nassau Energy Corporation		K	323695	Garden City	059	36	1991-03-01	55.0	51.6	60.1	44.2	55.9	YES	CC	NG	FO2	346.4	
Entergy Nuclear Power Marketing LLC	Indian Point 2		H	23530	Buchanan	119	36	1973-08-01	1,299.0	1,026.5	1,026.5	1,011.5	1,029.4		NP	UR		8,352.0	
Entergy 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	1,038.3		NP	UR		8,342.6	
Erie Blvd. Hydro - Beaver River	Belfort 1		E	24048	Belfort	049	36	1903-01-01	0.4	0.4	0.4	0.4	0.4		HY	WAT		2.4	
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		3.7	

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	2020 CRIS ^(A) MW		2020 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(J)		2019 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
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		8.3		
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		4.4		
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		10.0		
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		8.8		
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		15.5		
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		2.5		
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		2.0		
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		4.5		
Erie Blvd. Hydro - Beaver River	Effley 4		E	24048	Belfort	049	36	1923-01-01	1.6	1.5	1.5	1.6	1.6	HY	WAT		10.6		
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		6.7		
Erie Blvd. Hydro - Beaver River	Elmer 2		E	24048	Belfort	049	36	1916-01-01	0.8	0.9	0.9	0.8	0.8	HY	WAT		6.8		
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		12.1		
Erie Blvd. Hydro - Beaver River	High Falls 2		E	24048	Indian River	049	36	1925-01-01	1.6	1.9	1.9	1.6	1.6	HY	WAT		10.4		
Erie Blvd. Hydro - Beaver River	High Falls 3		E	24048	Indian River	049	36	1925-01-01	1.6	1.9	1.9	1.6	1.6	HY	WAT		15.2		
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		23.0		
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		23.0		
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		32.4		
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		19.6		
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		8.3		
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		6.9		
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		6.9		
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		8.5		
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		20.8		
Erie Blvd. Hydro - Black River	Beebee Island 2		E	24047	Watertown	045	36	1968-01-01	4.0	4.4	4.4	4.0	4.0	HY	WAT		29.9		
Erie Blvd. Hydro - Black River	Black River 1		E	24047	Black River	045	36	1920-01-01	2.0	2.3	2.3	2.0	2.0	HY	WAT		12.6		
Erie Blvd. Hydro - Black River	Black River 2		E	24047	Black River	045	36	1920-01-01	2.0	2.3	2.3	2.0	2.0	HY	WAT		16.2		
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		10.0		
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		21.9		
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		28.2		
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		20.3		
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		8.3		
Erie Blvd. Hydro - Black River	Herrings 2		E	24047	Herrings	045	36	1924-01-01	1.8	1.8	1.8	1.8	1.8	HY	WAT		11.9		
Erie Blvd. Hydro - Black River	Herrings 3		E	24047	Herrings	045	36	1924-01-01	1.8	1.8	1.8	1.8	1.8	HY	WAT		8.6		
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		8.2		
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		5.3		
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		6.4		
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		8.6		

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	2020 CRIS ^(A) MW		2020 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(J)		2019 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
Erie Blvd. Hydro - East Canada Capital	Beardslee 1		F	24051	Little Falls	043	36	1924-01-01	10.0	9.5	9.5	10.0	10.0	HY	WAT		34.6		
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		29.5		
Erie Blvd. Hydro - East Canada Capital	Ephratah 1		F	24051	Caroga Lake	035	36	1920-01-01	1.4	0.7	0.7	1.4	1.4	HY	WAT		0.5		
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		7.3		
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		5.7		
Erie Blvd. Hydro - East Canada Capital	Ephratah 4		F	24051	Caroga Lake	035	36	1911-01-01	1.3	0.7	0.7	1.3	1.3	HY	WAT		3.0		
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		11.7		
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		19.6		
Erie Blvd. Hydro - Lower Hudson	Johnsonville 1		F	24059	Johnsonville	083	36	1909-01-01	1.2	1.3	1.3	1.2	1.2	HY	WAT		2.9		
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		3.2		
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		16.9		
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		14.5		
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		15.5		
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		20.4		
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		43.8		
Erie Blvd. Hydro - Lower Hudson	School Street 2		F	24059	Cohoes	001	36	1915-01-01	7.2	6.9	6.9	7.2	7.2	HY	WAT		34.4		
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		33.6		
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		30.0		
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		26.9		
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		5.6		
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		70.9		
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		65.8		
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		59.0		
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		22.5		
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		26.7		
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		26.2		
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		9.5		
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		9.2		
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		11.1		
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		9.5		
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		26.9		
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		10.4		
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		8.9		
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		13.1		
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		15.2		
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		1.8		
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		1.2		
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		27.3		

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	2020 CRIS ^(A) MW		2020 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(J)		2019 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
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		7.3		
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		6.4		
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		10.1		
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		5.5		
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		6.8		
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		6.4		
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		20.3		
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		10.8		
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		4.0		
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		0.4		
Erie Blvd. Hydro - NYS Barge	Hydraulic Race		A	23848	Lockport	063	36	1942-01-01	4.7	3.1	3.1	4.7	4.7	HY	WAT		7.7		
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		2.3		
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		2.0		
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		3.0		
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		0.9		
Erie Blvd. Hydro - Oak Orchard	Waterport 1		B	24046	Waterport	073	36	1941-01-01	2.3	1.6	1.6	2.3	2.3	HY	WAT		9.1		
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		5.3		
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		30.9		
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		34.4		
Erie Blvd. Hydro - Oswegatchie	Eel Weir 1		E	24044	Heuvelton	089	36	1928-01-01	0.5	0.3	0.3	0.5	0.5	HY	WAT		2.1		
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		2.8		
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		3.9		
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		12.1		
Erie Blvd. Hydro - Oswegatchie	Flat Rock 2		E	24044	Flat Rock	089	36	1924-01-01	3.0	2.6	2.6	3.0	3.0	HY	WAT		10.1		
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		2.4		
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		1.7		
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		3.5		
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		5.1		
Erie Blvd. Hydro - Oswegatchie	Oswegatchie 2		E	24044	Oswegatchie	089	36	1937-01-01	0.2	0.5	0.5	0.2	0.2	HY	WAT		2.9		
Erie Blvd. Hydro - Oswegatchie	South Edwards 1		E	24044	South Edwards	089	36	1937-01-01	1.0	1.2	1.2	1.0	1.0	HY	WAT		8.5		
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		7.2		
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		5.4		
Erie Blvd. Hydro - Oswegatchie	South Edwards 4		E	24044	South Edwards	089	36	1937-01-01	0.2	0.2	0.2	0.2	0.2	HY	WAT		1.9		
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		4.4		
Erie Blvd. Hydro - Oswegatchie	Talcville 2		E	24044	Edwards	089	36	1986-12-01	0.5	0.4	0.4	0.5	0.5	HY	WAT		0.5		
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		3.4		
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		3.2		
Erie Blvd. Hydro - Oswegatchie	Upper Newton Falls 4		E	24044	Newton Falls	089	36	2002-07-01	0.5	0.4	0.4	0.5	0.5	HY	WAT		1.5		

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	2020 CRIS ^(A) MW		2020 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(J)		2019 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
Erie Blvd. Hydro - Seneca Oswego	Baldwinsville 1		C	24041	Baldwinsville	067	36	1927-01-01	0.3	0.2	0.2	0.3	0.3	HY	WAT		1.5		
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		1.1		
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		5.0		
Erie Blvd. Hydro - Seneca Oswego	Fulton 2		C	24041	Fulton	075	36	1928-01-01	0.5	0.4	0.4	0.5	0.5	HY	WAT		3.1		
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		27.8		
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		21.9		
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		9.3		
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		8.6		
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		7.6		
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		7.2		
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		5.5		
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		10.2		
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		11.3		
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		11.6		
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		3.6		
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		3.6		
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		1.9		
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		1.0		
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		10.6		
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		7.5		
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		0.0		
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		10.0		
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		8.7		
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		14.4		
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		36.7		
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		44.8		
Erie Blvd. Hydro - South Salmon	Lighthouse Hill 1		C	24043	Altmar	075	36	1930-01-01	3.8	4.1	4.1	3.8	3.8	HY	WAT		10.3		
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		15.0		
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		49.6		
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		51.7		
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		5.8		
Erie Blvd. Hydro - Upper Hudson	Feeder Dam 2		F	24058	S Glens Falls	091	36	1924-01-01	1.2	0.9	0.9	1.2	1.2	HY	WAT		3.9		
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		4.6		
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		4.5		
Erie Blvd. Hydro - Upper Hudson	Feeder Dam 5		F	24058	S Glens Falls	091	36	1924-01-01	1.2	0.9	0.9	1.2	1.2	HY	WAT		6.0		
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		40.7		
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		46.7		
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		51.2		

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	2020 CRIS ^(A) MW		2020 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(J)		2019 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
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		47.0		
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		34.0		
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		9.5		
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		64.0		
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		243.6		
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		164.7		
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		21.4		
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		75.0		
Erie Blvd. Hydro - Upper Raquette	Five Falls		E	24056	Colton	089	36	1955-01-01	22.5	24.4	24.4	22.5	22.5	HY	WAT		123.3		
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		126.1		
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		104.5		
Erie Blvd. Hydro - Upper Raquette	Stark		E	24056	Stark	089	36	1957-01-01	22.5	24.6	24.6	22.5	22.5	HY	WAT		123.5		
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		95.0		
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		62.7		
Erie Blvd. Hydro - West Canada	Trenton Falls 6		E	24049	Trenton	065	36	1919-01-01	6.4	9.1	9.1	6.4	6.4	HY	WAT		60.9		
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		49.1		
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		21.1		
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		18.5		
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		41.2		
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		65.5		
Exelon Generation Company, LLC	James A. FitzPatrick		C	23598	Scriba	075	36	1975-07-01	882.0	858.9	858.9	848.8	853.9	NB	UR		7,361.3		
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		5.0		
Exelon Generation Company, LLC	Mill Seat		B	323607	Riga	055	36	2007-07-20	6.4	6.4	6.4	6.4	6.4	IC	MTE		52.0		
Exelon Generation Company, LLC	Monroe Livingston (RETIRED)		B	24207	Scottsville	055	36	1988-11-01	2.4	2.4	2.4	0.0	0.0	IC	MTE		3.8	(5) (R)	
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		26.2		
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		0.4		
Fiat 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		200.8		
Fiat 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		536.2		
Freeport Electric	Freeport 1-2		K	1660	Freeport	059	36	1949-08-01	2.9	2.0	2.0	0.0	0.0	IC	FO2		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	FO2		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	FO2		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		0.2		
Freeport Electric	Freeport CT 2		K	23818	Freeport	059	36	2004-03-01	60.5	50.3	50.3	46.1	50.8	YES	GT	NG	KER	13.2	
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		0.0	(6) (N)	
GenOn Energy Management, LLC	Bowline 1		G	23526	West Haverstraw	087	36	1972-09-01	621.0	577.7	577.7	579.8	593.4	YES	ST	NG	FO6	139.8	
GenOn Energy Management, LLC	Bowline 2		G	23595	West Haverstraw	087	36	1974-05-01	621.0	567.4	567.4	569.1	570.1	YES	ST	NG	FO6	147.0	
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		184.4		
Helix Ravenswood, LLC	Ravenswood 01		J	23729	Queens	081	36	1967-07-01	18.6	8.8	11.5	8.1	10.1	GT	NG		0.2		

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	2020 CRIS ^(A) MW		2020 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(J)		2019 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	16.5	24.4	YES	JE	KER	NG	1.2	
Helix Ravenswood, LLC	Ravenswood 11		J	24259	Queens	081	36	1970-08-01	25.0	20.2	25.7	16.4	22.4	YES	JE	KER	NG	1.3	
Helix Ravenswood, LLC	Ravenswood CC 04		J	23820	Queens	081	36	2004-05-01	250.0	231.2	276.7	232.3	268.6	YES	CC	NG	F02	1,534.5	
Helix Ravenswood, LLC	Ravenswood ST 01		J	23533	Queens	081	36	1963-02-01	400.0	365.1	365.1	370.8	372.8	YES	ST	F06	NG	245.5	
Helix Ravenswood, LLC	Ravenswood ST 02		J	23534	Queens	081	36	1963-05-01	400.0	391.6	391.6	377.5	375.3	YES	ST	F06	NG	399.0	
Helix Ravenswood, LLC	Ravenswood ST 03		J	23535	Queens	081	36	1965-06-01	1,027.0	986.8	986.8	988.5	977.8	YES	ST	F06	NG	105.7	
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			129.1	
Indeck Energy Services of Silver Springs	Indeck-Silver Springs		C	23768	Silver Springs	121	36	1991-04-01	56.6	51.5	66.1	49.8	63.1	YES	CC	NG	F02	43.1	
Indeck-Corinth LP	Indeck-Corinth		F	23802	Corinth	091	36	1995-07-01	147.0	131.2	134.0	131.6	135.4	YES	CC	NG	F02	582.9	
Indeck-Olean LP	Indeck-Olean		A	23982	Olean	009	36	1993-12-01	90.6	79.4	88.5	77.7	87.1	YES	CC	NG	F02	117.5	
Indeck-Oswego LP	Indeck-Oswego		C	23783	Oswego	075	36	1990-05-01	57.4	51.6	66.7	49.8	59.3	YES	CC	NG	F02	24.8	
Indeck-Yerkes LP	Indeck-Yerkes		A	23781	Tonawanda	029	36	1990-02-01	59.9	49.7	60.5	48.7	57.8	YES	CC	NG	F02	25.3	
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			38.5	
Innovative Energy Systems, Inc.	Clinton LFGE		D	323618	Morrisville	019	36	2008-10-01	6.4	6.4	6.4	6.4	6.4	IC	MTE			31.2	
Innovative Energy Systems, Inc.	Colonie LFGE		F	323577	Colonie	001	36	2006-03-01	6.4	6.4	6.4	6.4	6.4	IC	MTE			25.3	
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			35.6	
Innovative Energy Systems, Inc.	Fulton LFGE		F	323630	Johnstown	035	36	2010-06-04	3.2	0.0	0.0	0.0	0.0	IC	MTE			12.9	
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			37.0	
Innovative Energy Systems, Inc.	Steuben County LF (RETIRED)		C	323667	Bath	101	36	2012-08-01	3.2	3.2	3.2	0.0	0.0	IC	MTE			0.0	(7) (R)
Jamestown Board of Public Utilities	Jamestown 5		A	1658	Jamestown	013	36	1951-08-01	28.7	23.0	23.0	0.0	0.0	ST	NG			7.5	
Jamestown Board of Public Utilities	Jamestown 6		A	1658	Jamestown	013	36	1968-08-01	25.0	22.4	22.4	0.0	0.0	ST	NG			25.4	
Jamestown Board of Public Utilities	Jamestown 7		A	1659	Jamestown	013	36	2002-01-01	47.3	40.0	40.0	39.3	45.9	GT	NG			129.7	
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			227.5	
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	14.5	14.3	ST	REF			115.3	
Long Island Power Authority	Barrett 03		K	23706	Island Park	059	36	1970-06-01	18.0	17.9	23.4	17.7	20.2	YES	GT	NG	F02	2.8	
Long Island Power Authority	Barrett 04		K	23707	Island Park	059	36	1970-07-01	18.0	17.7	23.1	16.8	20.5	YES	GT	NG	F02	4.7	
Long Island Power Authority	Barrett 05		K	23708	Island Park	059	36	1970-07-01	18.0	17.8	23.3	17.6	20.1	YES	GT	NG	F02	2.6	
Long Island Power Authority	Barrett 06		K	23709	Island Park	059	36	1970-07-01	18.0	17.8	23.3	16.4	19.9	YES	GT	NG	F02	2.5	
Long Island Power Authority	Barrett 08		K	23711	Island Park	059	36	1970-07-01	18.0	17.3	22.6	15.1	15.2	YES	GT	NG	F02	1.9	
Long Island Power Authority	Barrett 09		K	23700	Island Park	059	36	1971-06-01	41.8	43.4	55.2	41.2	49.2	YES	JE	NG	F02	13.0	
Long Island Power Authority	Barrett 10		K	23701	Island Park	059	36	1971-06-01	41.8	42.7	54.3	40.6	50.0	YES	JE	NG	F02	11.3	
Long Island Power Authority	Barrett 11		K	23702	Island Park	059	36	1971-06-01	41.8	43.3	55.1	40.1	50.5	YES	JE	NG	F02	23.9	
Long Island Power Authority	Barrett 12		K	23703	Island Park	059	36	1971-06-01	41.8	44.0	56.0	40.9	48.7	YES	JE	NG	F02	17.5	
Long Island Power Authority	Barrett GT 01		K	23704	Island Park	059	36	1970-06-01	18.0	18.1	23.6	17.4	20.5	YES	GT	NG	F02	3.9	
Long Island Power Authority	Barrett GT 02		K	23705	Island Park	059	36	1970-06-01	18.0	17.4	22.7	17.6	20.4	YES	GT	NG	F02	2.5	
Long Island Power Authority	Barrett ST 01		K	23545	Island Park	059	36	1956-11-01	188.0	200.2	200.2	194.2	199.5	YES	ST	NG	F06	861.8	

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	2020 CRIS ^(A) MW		2020 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(J)		2019 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
Long Island Power Authority	Barrett ST 02		K	23546	Island Park	059	36	1963-10-01	188.0	197.5	197.5	178.0	190.5	YES	ST	NG	F06	475.4	
Long Island Power Authority	Bethpage 3		K	323564	Hicksville	059	36	2005-05-01	96.0	79.9	91.4	76.7	79.1		CC	NG		111.1	
Long Island Power Authority	Caitness_CC_1		K	323624	Brookhaven	103	36	2009-08-01	375.0	315.6	389.8	324.3	365.7	YES	CC	NG	F02	2,186.1	
Long Island Power Authority	East Hampton 2		K	23722	E Hampton	103	36	1962-12-01	2.0	2.0	2.0	2.0	2.0		IC	F02		0.7	
Long Island Power Authority	East Hampton 3		K	23722	E Hampton	103	36	1962-12-01	2.0	2.0	2.0	2.0	2.0		IC	F02		0.9	
Long Island Power Authority	East Hampton 4		K	23722	E Hampton	103	36	1962-12-01	2.0	2.0	2.0	2.0	2.0		IC	F02		0.9	
Long Island Power Authority	East Hampton GT 01		K	23717	E Hampton	103	36	1970-12-01	21.3	19.2	24.4	18.5	23.7		JE	F02		12.0	
Long Island Power Authority	Far Rockaway GT1		K	24212	Far Rockaway	081	36	2002-07-01	60.5	53.5	73.1	52.8	57.9		JE	NG		118.9	
Long Island Power Authority	Far Rockaway GT2		K	23815	Jamaica Bay	081	36	2003-07-02	60.5	55.4	75.7	53.9	55.7	YES	JE	NG	F02	8.5	
Long Island Power Authority	Glenwood GT 01		K	23712	Glenwood	059	36	1967-04-01	16.0	14.6	19.1	11.4	14.5		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	51.1	66.3		GT	F02		0.3	
Long Island Power Authority	Glenwood GT 03		K	23689	Glenwood	059	36	1972-06-01	55.0	54.7	71.5	54.5	67.6		GT	F02		0.2	
Long Island Power Authority	Glenwood GT 04		K	24219	Glenwood	059	36	2002-06-01	53.0	42.3	50.0	42.6	47.0	YES	GT	NG	F02	39.1	
Long Island Power Authority	Glenwood GT 05		K	24220	Glenwood	059	36	2002-06-01	53.0	42.0	49.6	42.5	47.0	YES	GT	NG	F02	40.9	
Long Island Power Authority	Greenport GT1		K	23814	Greenport	103	36	2003-07-02	54.0	51.9	52.4	53.5	57.2		JE	F02		30.5	
Long Island Power Authority	Hempstead (RR)		K	23647	Hempstead	059	36	1989-10-01	78.6	73.7	73.7	74.4	74.3		ST	REF		542.4	
Long Island Power Authority	Holtsville 01		K	23690	Holtsville	103	36	1974-07-01	56.7	56.7	72.1	55.5	65.3		JE	F02		1.3	
Long Island Power Authority	Holtsville 02		K	23691	Holtsville	103	36	1974-07-01	56.7	55.3	70.3	54.0	62.7		JE	F02		0.6	
Long Island Power Authority	Holtsville 03		K	23692	Holtsville	103	36	1974-07-01	56.7	52.1	66.3	51.4	64.3		JE	F02		1.7	
Long Island Power Authority	Holtsville 04		K	23693	Holtsville	103	36	1974-07-01	56.7	52.7	67.0	54.3	65.1		JE	F02		2.0	
Long Island Power Authority	Holtsville 05		K	23694	Holtsville	103	36	1974-07-01	56.7	55.3	70.3	53.5	60.0		JE	F02		1.3	
Long Island Power Authority	Holtsville 06		K	23695	Holtsville	103	36	1975-07-01	56.7	53.0	67.4	54.0	65.5		JE	F02		2.2	
Long Island Power Authority	Holtsville 07		K	23696	Holtsville	103	36	1975-07-01	56.7	55.1	70.1	50.2	61.9		JE	F02		2.9	
Long Island Power Authority	Holtsville 08		K	23697	Holtsville	103	36	1975-07-01	56.7	57.4	73.0	53.8	66.3		JE	F02		3.5	
Long Island Power Authority	Holtsville 09		K	23698	Holtsville	103	36	1975-07-01	56.7	57.5	73.1	53.9	65.5		JE	F02		2.1	
Long Island Power Authority	Holtsville 10		K	23699	Holtsville	103	36	1975-07-01	56.7	55.1	70.1	49.2	62.8		JE	F02		2.0	
Long Island Power Authority	Huntington (RR)		K	323705	Huntington	103	36	1991-12-01	28.0	24.7	24.7	24.2	24.1		ST	REF		184.5	
Long Island Power Authority	Islip (RR)		K	323679	Ronkonkoma	103	36	1990-03-01	12.5	11.2	11.2	8.3	8.0		ST	REF		50.4	
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		52.1	
Long Island Power Authority	Northport 1		K	23551	Northport	103	36	1967-07-01	387.0	395.0	395.0	397.7	396.2	YES	ST	NG	F06	334.2	
Long Island Power Authority	Northport 2		K	23552	Northport	103	36	1968-06-01	387.0	396.0	396.0	398.0	399.0	YES	ST	NG	F06	521.1	
Long Island Power Authority	Northport 3		K	23553	Northport	103	36	1972-07-01	387.0	399.2	399.2	398.5	394.2	YES	ST	NG	F06	542.3	
Long Island Power Authority	Northport 4		K	23650	Northport	103	36	1977-12-01	387.0	399.2	399.2	398.0	396.5	YES	ST	NG	F06	631.6	
Long Island Power Authority	Northport GT		K	23718	Northport	103	36	1967-03-01	16.0	13.8	18.0	11.7	15.1		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		0.0	
Long Island Power Authority	Pilgrim GT1		K	24216	Brentwood	103	36	2002-08-01	50.0	45.6	45.6	41.9	44.8		GT	NG		32.2	
Long Island Power Authority	Pilgrim GT2		K	24217	Brentwood	103	36	2002-08-01	50.0	46.2	46.2	42.2	45.5		GT	NG		28.4	

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	2020 CRIS ^(A) MW		2020 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(J)		2019 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
Long Island Power Authority	Pinelawn Power 1		K	323563	Babylon	103	36	2005-06-01	82.0	78.0	78.0	75.5	77.2	YES	CC	NG	KER	68.8	
Long Island Power Authority	Port Jefferson 3		K	23555	Port Jefferson	103	36	1958-11-01	188.0	194.5	194.5	192.0	189.2	YES	ST	F06	NG	109.1	
Long Island Power Authority	Port Jefferson 4		K	23616	Port Jefferson	103	36	1960-11-01	188.0	198.7	198.7	193.0	194.7	YES	ST	F06	NG	164.8	
Long Island Power Authority	Port Jefferson GT 01		K	23713	Port Jefferson	103	36	1966-12-01	16.0	14.1	18.4	12.9	16.6		GT	F02		0.1	
Long Island Power Authority	Port Jefferson GT 02		K	24210	Port Jefferson	103	36	2002-07-01	53.0	44.0	52.0	42.5	46.7	YES	GT	NG	F02	22.5	
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	47.1	YES	GT	NG	F02	21.5	
Long Island Power Authority	S Hampton 1		K	23720	South Hampton	103	36	1963-03-01	11.5	10.3	13.5	8.8	11.7		GT	F02		2.1	
Long Island Power Authority	Shoreham 1		K	23715	Shoreham	103	36	1971-07-01	52.9	48.9	63.9	49.1	67.3		GT	F02		0.7	
Long Island Power Authority	Shoreham 2		K	23716	Shoreham	103	36	1984-04-01	18.6	18.5	23.5	15.7	21.8		JE	F02		0.3	
Long Island Power Authority	Shoreham GT3		K	24213	Shoreham	103	36	2002-08-01	50.0	45.4	45.4	42.9	47.2		GT	F02		2.4	
Long Island Power Authority	Shoreham GT4		K	24214	Shoreham	103	36	2002-08-01	50.0	43.9	43.9	42.0	47.4		GT	F02		2.3	
Long Island Power Authority	Smithtown (LF)		K	5010	Smithtown	103	36	1985-12-01	1.1	0.0	0.0	0.0	0.0		IC	MTE		0.0	
Long Island Power Authority	South Oaks Hosp		K	5011	Amityville	103	36	1990-06-01	1.0	0.0	0.0	0.0	0.0		IC	NG		0.0	
Long Island Power Authority	Southold 1		K	23719	Southold	103	36	1964-08-01	14.0	12.3	16.1	9.8	13.4		GT	F02		1.7	
Long Island Power Authority	Wading River 1		K	23522	Shoreham	103	36	1989-08-01	79.5	81.2	106.1	78.2	99.0		GT	F02		3.8	
Long Island Power Authority	Wading River 2		K	23547	Shoreham	103	36	1989-08-01	79.5	81.3	106.2	78.2	98.6		GT	F02		3.0	
Long Island Power Authority	Wading River 3		K	23601	Shoreham	103	36	1989-08-01	79.5	81.3	106.2	78.1	99.3		GT	F02		4.0	
Long Island Power Authority	West Babylon 4		K	23714	West Babylon	103	36	1971-08-01	52.4	49.0	64.0	50.2	65.4		GT	F02		3.0	
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		0.0	
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		18.8	
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		519.8	
Marsh Hill Energy LLC	Marsh Hill Wind Farm		C	323713	Jasper	101	36	2014-12-01	16.2	0.0	0.0	0.0	0.0		WT	WND		50.4	
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		39.1	
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		29.9	
New Athens Generating Company, LLC	Athens 1		F	23668	Athens	039	36	2004-05-01	407.2	316.6	399.9	319.6	392.2	YES	CC	NG	F02	1,149.8	
New Athens Generating Company, LLC	Athens 2		F	23670	Athens	039	36	2004-05-01	407.2	315.6	398.6	330.2	395.3	YES	CC	NG	F02	574.9	
New Athens Generating Company, LLC	Athens 3		F	23677	Athens	039	36	2004-05-01	407.2	312.8	395.1	327.6	392.7	YES	CC	NG	F02	1,192.4	
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		6.5	
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		3.8	
New York Power Authority	Astoria CC 1		J	323568	Queens	081	36	2006-01-01	288.0	246.2	270.2	235.4	270.2	YES	CC	NG	F02	2,458.9	(G)
New York Power Authority	Astoria CC 2		J	323569	Queens	081	36	2006-01-01	288.0	246.2	270.2	235.4	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	292.2	291.0		PS	WAT		13.4	
New York Power Authority	Gilboa 2		F	23757	Gilboa NY	095	36	1973-07-01	290.0	291.2	291.2	291.6	292.3		PS	WAT		80.4	
New York Power Authority	Gilboa 3		F	23758	Gilboa NY	095	36	1973-07-01	290.0	291.7	291.7	291.4	290.8		PS	WAT		81.3	
New York Power Authority	Gilboa 4		F	23759	Gilboa NY	095	36	1973-07-01	290.0	291.5	291.5	291.9	291.0		PS	WAT		59.0	
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		53.7	
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		17.8	
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		18.0	

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	2020 CRIS ^(A) MW		2020 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(U)		2019 Net ^(C) Energy GWh	Notes	
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2			
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			18.5		
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			18.5		
New York Power Authority	Flynn		K	23794	Holtsville	103	36	1994-05-01	170.0	135.5	168.4	137.3	162.7	YES	CC	NG	F02		389.5	
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			42.9		
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			33.8		
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			80.9		
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	F02			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	F02			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	F02			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			17.4		
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			11.4		
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			17.2		
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			11.4		
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			19.7		
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			21.2		
New York Power Authority	Kent		J	24152	Brooklyn	047	36	2001-08-01	47.0	46.9	46.9	45.7	46.0	GT	NG			31.8		
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			348.9		
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			16,400.8		
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			17.6		
New York Power Authority	Pouch		J	24155	Staten Island	085	36	2001-08-01	47.0	47.1	47.1	45.3	46.0	GT	NG			49.9		
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			7,709.3		
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			21.8		
New York Power Authority	Vernon Blvd 3		J	24163	Queens	081	36	2001-08-01	47.0	43.8	43.8	39.6	39.9	GT	NG			13.8		
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			15.3		
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			16.4		
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			17.8		
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			16.1		
New York State Elec. & Gas Corp.	AA Dairy		C	5013	Ithaca	109	36	1998-06-01	0.1	0.0	0.0	0.0	0.0	IC	MTE			0.0		
New York State Elec. & Gas Corp.	Alice Falls 1		D	23915	Ausable	019	36	1991-11-01	1.5	1.6	1.6	0.0	0.0	HY	WAT			0.0		
New York State Elec. & Gas Corp.	Alice Falls 2		D	23915	Ausable	019	36	1991-11-01	0.6	0.6	0.6	0.0	0.0	HY	WAT			0.0		
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			101.3		
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			123.0		
New York State Elec. & Gas Corp.	Auburn - Mill St.		C	5014	Auburn	011	36	1981-10-01	0.4	0.0	0.0	0.0	0.0	HY	WAT			0.0		
New York State Elec. & Gas Corp.	Auburn - No. Div.St		C	5015	Auburn	011	36	1992-12-01	0.8	0.0	0.0	0.0	0.0	HY	WAT			0.0		
New York State Elec. & Gas Corp.	Auburn - State St. (RETIRED)		C	24147	Auburn	011	36	1995-01-01	7.4	5.8	8.2	0.0	0.0	GT	NG			0.0	(8) (R)	
New York State Elec. & Gas Corp.	Broome LFG		C	323600	Binghamton	007	36	2007-09-01	2.4	2.1	2.1	2.1	2.1	IC	MTE			2.5		
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			0.0		
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			5.8		

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	2020 CRIS ^(A) MW		2020 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(J)		2019 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
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		16.5		
New York State Elec. & Gas Corp.	Chasm Falls Hydro		D	5016	Chateaugay	033	36	1982-03-01	1.6	0.0	0.0	0.0	0.0	HY	WAT		0.0		
New York State Elec. & Gas Corp.	Croton Falls Hydro		I	5017	North Salem	119	36	1987-01-01	0.2	0.0	0.0	0.0	0.0	HY	WAT		0.0		
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		0.0		
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		42.9		
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		0.0		
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		0.0		
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		4.4		
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		0.0		
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		13.5		
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		
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		0.0		
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		0.0		
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		37.5		
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		2.7		
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		0.0		
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		4.4		
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		22.4		
New York State Elec. & Gas Corp.	Montville Falls		C	5019	Moravia	011	36	1992-08-01	0.2	0.0	0.0	0.0	0.0	HY	WAT		0.0		
New York State Elec. & Gas Corp.	Rainbow Falls 1		D	23628	Ausable	019	36	1926-08-01	1.3	1.5	1.5	1.3	1.3	HY	WAT		0.7		
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		0.1		
New York State Elec. & Gas Corp.	Waterloo 2		C	5020	Waterloo	099	36	1998-06-01	0.5	0.0	0.0	0.0	0.0	HY	WAT		0.0		
New York State Elec. & Gas Corp.	Waterloo 3		C	5021	Waterloo	099	36	1998-06-01	0.5	0.0	0.0	0.0	0.0	HY	WAT		0.0		
New York State Elec. & Gas Corp.	Waterloo 4		C	5022	Waterloo	099	36	1998-06-01	0.5	0.0	0.0	0.0	0.0	HY	WAT		0.0		
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		257.3		
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		97.7		
Niagara Mohawk Power Corp.	CHI-LaChute		F	1654	Ticonderoga	031	36	1987-12-01	9.0	8.9	8.9	0.0	0.0	HY	WAT		43.3		
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		0.0		
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		14.8		
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		60.4		
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		409.1	(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		68.1		
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		223.0		
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		30.0		
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		

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	2020 CRIS ^(A) MW		2020 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(J)		2019 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
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		2.7		
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		5.8		
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		10.1		
Niagara Mohawk Power Corp.	Bellows Towers		D	24055	Malone	033	36	1987-06-01	0.2	0.0	0.0	0.0	0.0	HY	WAT		0.0		
Niagara Mohawk Power Corp.	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		3.6		
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		1.3		
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		15.0		
Niagara Mohawk Power Corp.	Boralax - Middle Falls		F	23643	Easton	115	36	1989-12-01	2.2	0.0	0.0	0.0	0.0	HY	WAT		13.2		
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		0.2		
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		14.8		
Niagara Mohawk Power Corp.	C.H.I. (Diamond Is)		E	23633	Watertown	045	36	1986-01-01	1.2	0.0	0.0	0.0	0.0	HY	WAT		4.5		
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		4.3		
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		4.4		
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		11.8		
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		4.3		
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		6.2		
Niagara Mohawk Power Corp.	Cal Ban Power		A	23774	Allegheny	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		0.6		
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		43.6		
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		0.7		
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		13.5		
Niagara Mohawk Power Corp.	City of Watervliet Hydro		F	23643	Guilderland	001	36	1986-01-01	1.5	0.0	0.0	0.0	0.0	HY	WAT		2.5		
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		0.5		
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		4.0		
Niagara Mohawk Power Corp.	Cottrell Paper		F	23643	Rock City Falls	091	36	1987-01-01	0.3	0.0	0.0	0.0	0.0	HY	WAT		0.0		
Niagara Mohawk Power Corp.	Cranberry Lake		E	23633	Cranberry Lake	049	36	1987-12-01	0.5	0.0	0.0	0.0	0.0	HY	WAT		1.7		
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		5.4		
Niagara Mohawk Power Corp.	Finch Paper LLC - Glens Falls		F	23643	Glens Falls	113	36	2009-11-01	11.8	0.0	0.0	0.0	0.0	HY	WAT		0.3		
Niagara Mohawk Power Corp.	Finch Pruyon		F	23643	Glens Falls	113	36	1989-12-01	29.0	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	2020 CRIS ^(A) MW		2020 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(J)		2019 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
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		4.8		
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		16.9		
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		7.9		
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		39.9		
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		15.4		
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		0.7		
Niagara Mohawk Power Corp.	Hollings&Vose-Lower		F	23643	Easton	115	36	1986-01-01	0.4	0.0	0.0	0.0	0.0	HY	WAT		0.0		
Niagara Mohawk Power Corp.	Hollings&Vose-Upper		F	23643	Easton	115	36	1986-01-01	0.4	0.0	0.0	0.0	0.0	HY	WAT		0.0		
Niagara Mohawk Power Corp.	Hollow Dam Power		E	23633	Saint Lawrence	089	36	1987-12-01	1.0	0.0	0.0	0.0	0.0	HY	WAT		1.6		
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		1.3		
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		1.1		
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		10.6		
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		24.2		
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		9.3		
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		6.7		
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		24.5		
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		2.2		
Niagara Mohawk Power Corp.	Ogdensburg Hydro		E	23633	Ogdensburg	089	36	1987-12-01	3.5	0.0	0.0	0.0	0.0	HY	WAT		9.1		
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		4.1		
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		11.8		
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		0.8		
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.	Stevens&Thompson Paper Co.		F	23643	Middle Falls	115	36	1987-12-01	10.5	0.0	0.0	0.0	0.0	HY	WAT		28.9		
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		5.8		
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		13.9		

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	2020 CRIS ^(A) MW		2020 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(J)		2019 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
Niagara Mohawk Power Corp.	Stuyvesant Falls Hydro		F	23643	Stuyvesant	021	36	2013-02-01	7.0	0.0	0.0	0.0	0.0	HY	WAT		13.1		
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		1.9		
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		9.8		
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		6.2		
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		1.3		
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		14.5		
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		1.2		
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		5.4		
Niagara Mohawk Power Corp.	Village of Gouverneur		E	23633	Gouverneur	089	36	1986-01-01	0.1	0.0	0.0	0.0	0.0	HY	WAT		0.0		
Niagara Mohawk Power Corp.	Village of Potsdam		E	23633	Potsdam	089	36	1986-01-01	0.8	0.0	0.0	0.0	0.0	HY	WAT		0.0		
Niagara Mohawk Power Corp.	Village of Potsdam 2		E	23633	Potsdam	089	36	2014-04-01	0.5	0.0	0.0	0.0	0.0	HY	WAT		0.0		
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		0.4		
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		27.1		
Nine Mile Point Nuclear Station, LLC	Nine Mile Point 1		C	23575	Scriba	075	36	1969-11-01	641.8	630.5	630.5	621.4	619.3	NB	UR		4,573.2		
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	1,292.2	1,301.6	NB	UR		11,165.1		
Noble Altona Windpark, LLC	Altona Wind Power		D	323606	Altona	019	36	2008-09-23	97.5	97.5	97.5	97.5	97.5	WT	WND		171.5		
Noble Bliss Windpark, LLC	Bliss Wind Power		A	323608	Bliss	121	36	2008-03-20	100.5	100.5	100.5	100.5	100.5	WT	WND		206.4		
Noble Chateaugay Windpark, LLC	Chateaugay Wind Power		D	323614	Chateaugay	033	36	2008-10-07	106.5	106.5	106.5	106.5	106.5	WT	WND		197.1		
Noble Clinton Windpark 1, LLC	Clinton Wind Power		D	323605	Clinton	019	36	2008-04-09	100.5	100.5	100.5	100.5	100.5	WT	WND		170.3		
Noble Ellenburg Windpark, LLC	Ellenburg Wind Power		D	323604	Ellenburg	019	36	2008-03-31	81.0	81.0	81.0	81.0	81.0	WT	WND		158.1		
Noble Wethersfield Windpark, LLC	Wethersfield Wind Power		C	323626	Wethersfield	121	36	2008-12-11	126.0	126.0	126.0	126.0	126.0	WT	WND		266.6		
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		17.7		
Northbrook Lyons Falls, LLC	Lyons Falls Hydro (BTM:NG)		E	23570	Lyons Falls	049	36	1986-01-01	8.0	7.3	7.3	4.8	4.9	HY	WAT		31.2	(11) (E)	
NRG Power Marketing LLC	Arthur Kill GT 1		J	23520	Staten Island	085	36	1970-06-01	20.0	16.5	21.6	12.0	15.0	GT	NG		0.4		
NRG Power Marketing LLC	Arthur Kill ST 2		J	23512	Staten Island	085	36	1959-08-01	376.2	357.7	357.7	338.2	343.5	ST	NG		705.2		
NRG Power Marketing LLC	Arthur Kill ST 3		J	23513	Staten Island	085	36	1969-06-01	535.5	518.0	518.0	522.1	526.8	ST	NG		197.7		
NRG Power Marketing LLC	Astoria GT 2-1		J	24094	Queens	081	36	1970-06-01	46.5	41.2	50.7	35.6	46.0	YES	JE	KER	NG	1.1	
NRG Power Marketing LLC	Astoria GT 2-2		J	24095	Queens	081	36	1970-06-01	46.5	42.4	52.2	34.2	45.8	YES	JE	KER	NG	1.4	
NRG Power Marketing LLC	Astoria GT 2-3		J	24096	Queens	081	36	1970-06-01	46.5	41.2	50.7	36.9	47.0	YES	JE	KER	NG	2.3	
NRG Power Marketing LLC	Astoria GT 2-4		J	24097	Queens	081	36	1970-06-01	46.5	41.0	50.5	35.1	46.6	YES	JE	KER	NG	1.6	
NRG Power Marketing LLC	Astoria GT 3-1		J	24098	Queens	081	36	1970-06-01	46.5	41.2	50.7	34.6	44.5	YES	JE	KER	NG	0.5	
NRG Power Marketing LLC	Astoria GT 3-2		J	24099	Queens	081	36	1970-06-01	46.5	43.5	53.5	35.2	45.5	YES	JE	KER	NG	1.2	
NRG Power Marketing LLC	Astoria GT 3-3		J	24100	Queens	081	36	1970-06-01	46.5	43.0	52.9	34.9	45.2	YES	JE	KER	NG	0.6	

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	2020 CRIS ^(A) MW		2020 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(J)		2019 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
NRG Power Marketing LLC	Astoria GT 3-4		J	24101	Queens	081	36	1970-06-01	46.5	43.0	52.9	36.1	46.6	YES	JE	KER	NG	2.5	
NRG Power Marketing LLC	Astoria GT 4-1		J	24102	Queens	081	36	1970-07-01	46.5	42.6	52.4	31.9	44.8	YES	JE	KER	NG	1.8	
NRG Power Marketing LLC	Astoria GT 4-2		J	24103	Queens	081	36	1970-07-01	46.5	41.4	51.0	33.5	42.8	YES	JE	KER	NG	1.6	
NRG Power Marketing LLC	Astoria GT 4-3		J	24104	Queens	081	36	1970-07-01	46.5	41.1	50.6	34.1	44.6	YES	JE	KER	NG	1.4	
NRG Power Marketing LLC	Astoria GT 4-4		J	24105	Queens	081	36	1970-07-01	46.5	42.8	52.7	33.3	44.0	YES	JE	KER	NG	1.1	
NRG Power Marketing LLC	Oswego 5		C	23606	Oswego	075	36	1976-02-01	901.8	850.3	850.3	818.7	776.0		ST	FO6		4.2	
NRG Power Marketing LLC	Oswego 6		C	23613	Oswego	075	36	1980-07-01	901.8	835.2	835.2	823.2	830.5	YES	ST	FO6	NG	12.6	
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	FO2		0.0	
NRG Power Marketing LLC	Oswego IC 2		C	5053	Oswego	075	36	1976-02-01	0.8	0.0	0.0	0.0	0.0		IC	FO2		0.0	
NRG Power Marketing LLC	Oswego IC 3		C	5054	Oswego	075	36	1980-07-01	0.8	0.0	0.0	0.0	0.0		IC	FO2		0.0	
Orange and Rockland Utilities	Buttermilk Falls		G	5055	Highland Falls	071	36	1986-12-01	0.1	0.0	0.0	0.0	0.0		HY	WAT		0.0	
Orange and Rockland Utilities	Intl. Crossroads		G	5056	Mahwah NJ	003	34	1987-12-01	3.0	0.0	0.0	0.0	0.0	YES	IC	NG	FO2	0.0	
Orange and Rockland Utilities	Landfill G.Part19		G	5057	Goshen	071	36	1988-12-01	2.5	0.0	0.0	0.0	0.0		IC	MTE		0.0	
Orange and Rockland Utilities	Middletown LFG		G	5058	Goshen	071	36	1988-12-01	3.0	0.0	0.0	0.0	0.0		IC	MTE		0.0	
PSEG Energy Resource & Trade, LLC	Bethlehem Energy Center		F	323570	Bethlehem	001	36	2005-07-01	893.1	835.0	924.8	816.9	890.1	YES	CC	NG	FO2	4,544.5	
R. E. Ginna Nuclear Power Plant, LLC	R. E. Ginna		B	23603	Ontario	117	36	1970-07-01	614.0	582.0	582.0	580.6	581.0		NP	UR		4,993.7	
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		154.6	
Rochester Gas and Electric Corp.	Mills Mills		B	5059	Fillmore	003	36	1906-07-01	0.2	0.0	0.0	0.0	0.0		HY	WAT		0.0	
Rochester Gas and Electric Corp.	Mt Morris		B	5060	Mt Morris	051	36	1916-07-01	0.3	0.0	0.0	0.0	0.0		HY	WAT		0.0	
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		18.1	
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		8.0	
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		0.4	
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		0.0	
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		0.0	
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	FO2		0.0	
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	FO2	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	FO2	NG	0.0	
Rockville Centre, Village of	Charles P Keller 11		K	1661	Rockville Centre	059	36	1962-09-01	5.2	5.2	5.2	5.2	5.2	YES	IC	FO2	NG	0.0	
Rockville Centre, Village of	Charles P Keller 12		K	1661	Rockville Centre	059	36	1967-09-01	5.5	5.5	5.5	5.5	5.5	YES	IC	FO2	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	FO2	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	FO2	NG	0.8	
Seneca Energy II, LLC	Ontario LFGE		C	23819	Canandaigua	069	36	2003-12-01	11.2	7.6	7.6	11.2	11.2		IC	MTE		79.1	
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		103.4	(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.	Allegheny		B	23514	Hume	003	36	1995-03-01	67.0	62.9	82.2	61.4	62.7		CC	NG		16.4	

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	2020 CRIS ^(A) MW		2020 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(U)		2019 Net ^(C) Energy GWh	Notes	
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2			
Seneca Power Partners, L.P.	Batavia		B	24024	Batavia	037	36	1992-06-01	67.3	57.1	71.7	48.2	59.4	CC	NG			9.2		
Seneca Power Partners, L.P.	Carthage Energy		E	23857	Carthage	045	36	1991-08-01	62.9	59.0	70.6	56.6	64.1	YES	CC	NG	F02		3.2	
Seneca Power Partners, L.P.	Hillburn GT		G	23639	Hillburn	087	36	1971-04-01	46.5	37.9	51.8	35.6	46.6	YES	JE	NG	KER		0.3	
Seneca Power Partners, L.P.	Shoemaker GT		G	23640	Middletown	071	36	1971-05-01	41.9	33.1	45.2	32.9	41.5	YES	JE	NG	KER		1.1	
Seneca Power Partners, L.P.	Sterling		E	23777	Sherrill	065	36	1991-06-01	65.3	57.4	72.1	50.0	62.3	CC	NG				7.7	
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				256.3	
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				0.0	
Somerset Operating Company, LLC	Somerset		A	23543	Somerset	063	36	1984-08-01	655.1	686.5	686.5	676.4	684.4	ST	BIT				345.3	
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				275.6	
Tenaska Power Services Co.	Freeport CT 1		K	23764	Freeport	059	36	2004-06-01	60.0	48.3	51.3	47.1	48.8	YES	GT	NG	F02		39.9	
TransAlta Energy Marketing (U.S.) Inc.	Saranac Energy		D	23793	Plattsburgh	019	36	1994-06-01	285.6	253.7	298.4	250.4	278.6	CC	NG				77.3	
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				4.8	
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				3.0	
Wheelabrator Hudson Falls, LLC	Wheelabrator Hudson Falls		F	23798	Hudson Falls	115	36	1991-10-01	14.4	12.7	12.7	10.7	10.8	ST	REF				79.0	
Wheelabrator Westchester, LP	Wheelabrator Westchester		H	23653	Peekskill	119	36	1984-04-01	59.7	53.5	53.5	52.0	53.4	ST	REF				382.0	
									45,645.3	41,735.7	44,806.0	40,190.6	42,601.2					134,536.3		

Notes for Table III-2

Note	Owner / Operator	Station Unit	Zone	PTID	Description
1	Cayuga Operating Company LLC	Cayuga 1	C	23584	Unit entered a Mothball Outage on 11/1/2019
2	Consolidated Edison Co. of NY, Inc.	Hudson Ave 3 (IIFO)	J	23810	Unit became ICAP Ineligible on 11/01/2019
3	Consolidated Edison Co. of NY, Inc.	Hudson Ave 4 (RETIRED)	J	23540	Unit Retired on 09/10/2019
4	Cricket Valley Energy Center, LLC	CRICKET___VALLEY	G	Various	New generators
5	Exelon Generation Company, LLC	Monroe Livingston	B	24207	Unit Retired on 09/01/2019
6	Galt Power Inc.	KCE NY 1	F	323755	Units produced power
7	Innovative Energy Systems, Inc.	Steuben County LF	C	323667	Unit Retired on 09/01/2019
8	New York State Elec. & Gas Corp.	Auburn - State St.	C	24147	Unit Retired on 10/01/2019
9	Calpine Energy Services LP	Stony Brook	K	24151	Behind-the-Meter
10	Emera Energy U.S. Sub. No. 1, Inc.	Greenidge 4	C	23583	Behind-the-Meter
11	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 2019 ICAP Market. Winter Capability reflects DMNC values that were applicable to the Winter 2018-2019 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 2019 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	818.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	818.7
	Steam Turbine (Oil & Gas)	0.0	0.0	823.2	0.0	0.0	0.0	2,466.6	0.0	0.0	2,817.1	2,349.4	8,456.3
	Steam Turbine (Gas)	0.0	0.0	79.1	0.0	0.0	0.0	360.2	0.0	0.0	1,033.8	0.0	1,473.1
	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	676.4
	Combined Cycle (Oil & Gas)	393.3	0.0	273.7	80.5	137.1	3,014.6	670.9	0.0	0.0	3,333.9	581.3	8,485.3
	Combined Cycle (Gas)	0.0	109.6	971.2	250.4	50.0	0.0	1,020.0	0.0	0.0	0.0	127.8	2,529.0
	Jet Engine (Oil)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	671.4	671.4
	Jet Engine (Oil & Gas)	0.0	0.0	0.0	0.0	0.0	0.0	68.5	0.0	0.0	1,048.4	162.8	1,279.7
	Jet Engine (Gas)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.8	52.8
	Combustion Turbine (Oil)	0.0	0.0	0.0	0.0	0.0	0.0	18.1	0.0	0.0	322.9	578.9	919.9
	Combustion Turbine (Oil & Gas)	0.0	0.0	0.0	0.0	0.0	0.0	20.2	0.0	0.0	579.9	379.5	979.6
	Combustion Turbine (Gas)	39.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	444.5	175.4	659.2
	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	11.1	0.0	11.1
Pumped Storage	Pumped Storage Hydro	240.0	0.0	0.0	0.0	0.0	1,167.1	0.0	0.0	0.0	0.0	0.0	1,407.1
Nuclear	Steam (PWR Nuclear)	0.0	580.6	0.0	0.0	0.0	0.0	0.0	2,047.8	0.0	0.0	0.0	2,628.4
	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	63.7	108.3	916.0	372.6	268.2	78.6	0.0	0.0	0.0	0.0	4,247.1
	Internal Combustion (Methane)	18.4	11.2	42.5	6.4	11.2	12.0	0.0	0.0	0.0	0.0	0.0	101.7
	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)	33.0	0.0	0.0	0.0	0.0	10.7	8.2	52.0	0.0	0.0	121.4	225.3
	Wind	100.5	0.0	518.4	678.4	441.9	0.0	0.0	0.0	0.0	0.0	0.0	1,739.2
	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		3,940.6	765.1	6,397.5	1,931.7	1,012.8	4,472.6	4,711.3	2,099.8	0.0	9,591.6	5,267.6	40,190.6

(1) - The renewable category does not necessarily match New York State policy definitions.

(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	776.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	776.0
	Steam Turbine (Oil & Gas)	0.0	0.0	830.5	0.0	0.0	0.0	2,502.3	0.0	0.0	2,800.5	2,359.8	8,493.1
	Steam Turbine (Gas)	0.0	0.0	89.7	0.0	0.0	0.0	366.2	0.0	0.0	1,040.9	0.0	1,496.8
	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	684.4
	Combined Cycle (Oil & Gas)	446.3	0.0	321.5	92.3	154.6	3,473.9	755.4	0.0	0.0	3,767.9	661.5	9,673.4
	Combined Cycle (Gas)	0.0	122.1	1,130.9	278.6	62.3	0.0	1,127.1	0.0	0.0	0.0	139.0	2,860.0
	Jet Engine (Oil)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	797.8	797.8
	Jet Engine (Oil & Gas)	0.0	0.0	0.0	0.0	0.0	0.0	88.1	0.0	0.0	1,217.4	198.4	1,503.9
	Jet Engine (Gas)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.9	57.9
	Combustion Turbine (Oil)	0.0	0.0	0.0	0.0	0.0	0.0	22.5	0.0	0.0	426.5	729.4	1,178.4
	Combustion Turbine (Oil & Gas)	0.0	0.0	0.0	0.0	0.0	0.0	23.9	0.0	0.0	773.0	424.2	1,221.1
	Combustion Turbine (Gas)	45.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	455.8	183.8	685.5
	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	11.1	0.0	11.1
Pumped Storage	Pumped Storage Hydro	240.0	0.0	0.0	0.0	0.0	1,165.1	0.0	0.0	0.0	0.0	0.0	1,405.1
Nuclear	Steam (PWR Nuclear)	0.0	581.0	0.0	0.0	0.0	0.0	0.0	2,067.7	0.0	0.0	0.0	2,648.7
	Steam (BWR Nuclear)	0.0	0.0	2,774.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,774.8
Renewable ⁽¹⁾	Conventional Hydro	2,439.7	63.7	108.3	870.0	372.7	268.2	78.8	0.0	0.0	0.0	0.0	4,201.4
	Internal Combustion (Methane)	18.4	11.2	42.5	6.4	11.2	12.0	0.0	0.0	0.0	0.0	0.0	101.7
	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)	30.4	0.0	0.0	0.0	0.0	10.8	8.7	53.4	0.0	0.0	120.7	224.0
	Wind	100.5	0.0	518.4	678.4	441.9	0.0	0.0	0.0	0.0	0.0	0.0	1,739.2
	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		4,005.6	778.0	6,592.6	1,925.7	1,042.7	4,930.0	4,973.0	2,121.1	0.0	10,493.1	5,739.4	42,601.2

(1) - The renewable category does not necessarily match New York State policy definitions.

(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 - 2019

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	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	Steam Turbine (Oil & Gas)	0.0	0.0	12.6	0.0	0.0	0.0	433.0	0.0	0.0	2,020.9	3,640.3	6,106.7
	Steam Turbine (Gas)	32.9	0.0	55.7	0.0	0.0	0.0	6.7	0.0	0.0	907.9	0.0	1,003.2
	Steam Turbine (Coal)	345.3	0.0	80.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	425.6
	Combined Cycle (Oil & Gas)	368.1	0.0	131.7	1.5	5.1	10,697.5	4,094.7	0.0	0.0	18,604.7	2,990.8	36,894.0
	Combined Cycle (Gas)	0.0	26.8	5,162.1	77.3	7.7	0.0	0.0	0.0	0.0	0.0	306.6	5,580.4
	Jet Engine (Oil)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.1	71.1
	Jet Engine (Oil & Gas)	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	673.8	65.7	741.0
	Jet Engine (Gas)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	118.9	118.9
	Combustion Turbine (Oil)	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	2.1	23.9	26.2
	Combustion Turbine (Oil & Gas)	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	43.5	281.5	325.9
	Combustion Turbine (Gas)	129.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	252.6	159.6	541.9
	Internal Combustion (Oil)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5
	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	0.3	0.0	0.0	0.0	0.0	28.2	0.0	28.5
Pumped Storage	Pumped Storage Hydro	348.9	0.0	0.0	0.0	0.0	234.2	0.0	0.0	0.0	0.0	0.0	583.1
Nuclear	Steam (PWR Nuclear)	0.0	4,993.7	0.0	0.0	0.0	0.0	0.0	16,694.6	0.0	0.0	0.0	21,688.3
	Steam (BWR Nuclear)	0.0	0.0	23,099.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23,099.6
Renewable ⁽¹⁾	Conventional Hydro	16,408.5	49.0	579.5	7,945.3	2,543.0	2,417.7	197.9	0.0	0.0	0.0	0.0	30,140.9
	Internal Combustion (Methane)	150.6	93.2	267.9	31.2	66.8	51.2	0.0	0.0	0.0	0.0	0.0	660.9
	Steam Turbine (Wood)	0.0	0.0	0.0	0.0	154.6	0.0	0.0	0.0	0.0	0.0	0.0	154.6
	Steam Turbine (Refuse)	209.0	0.0	227.1	0.0	0.0	79.0	42.6	382.0	0.0	0.0	892.6	1,832.3
	Wind	508.8	3.0	1,259.0	1,444.3	1,238.6	0.0	0.0	0.0	0.0	0.0	0.0	4,453.6
	Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.1	52.1
Totals		18,501.7	5,165.7	30,879.7	9,499.5	4,016.0	13,479.5	4,777.3	17,076.6	0.0	22,533.7	8,606.5	134,536.3

(1) - The renewable category does not necessarily match New York State policy definitions.

(2) - Values are from the 2019 Net Energy column in Table III-2: Existing Generators.

Table III-3d: Scheduled Real-Time Transactions by Control Area and Proxy Bus - 2019

Control Area	Proxy Bus Name	Imports	Wheels-In	Exports	Wheels-Out	Net Imports
HQ	Cedars	1,005	0	2	0	1,003
HQ	Chateaugay	8,637	1,349	62	0	9,924
IESO	Bruce	6,313	6	15	6	6,298
ISO-NE	1385 Line	461	0	223	0	238
ISO-NE	Cross Sound Cable	1,163	0	1	0	1,162
ISO-NE	Sandy Pond	4,596	1	10,399	1,349	-7,151
PJM	HTP	1,314	0	0	0	1,314
PJM	Keystone	5,012	6	1,746	7	3,265
PJM	Linden VFT	1,987	0	26	0	1,961
PJM	Neptune	5,114	0	0	0	5,114
	NYCA Total	35,602	1,362	12,474	1,362	23,128

Figure III-1: 2019 NYCA Energy Production by Zone

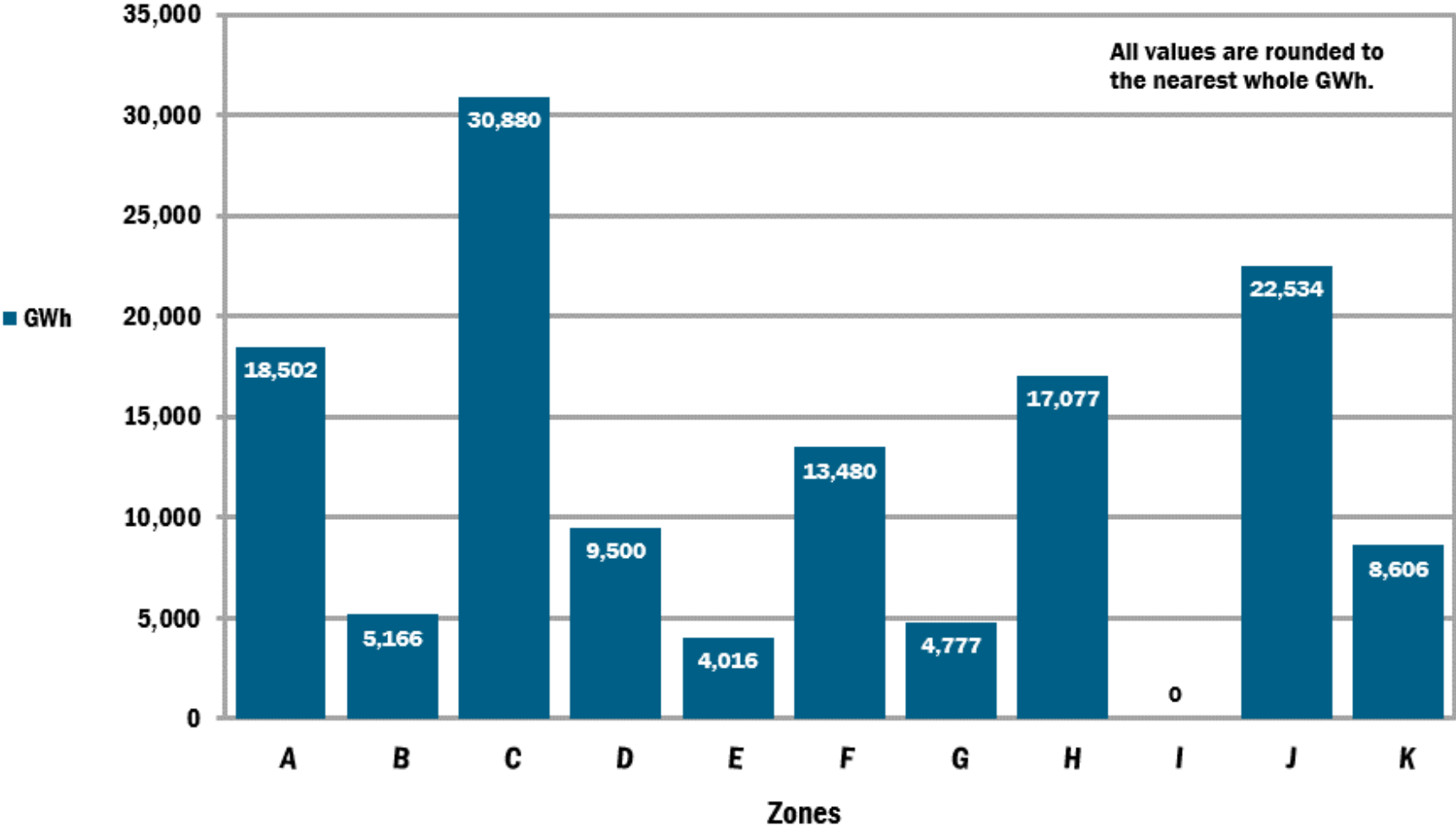
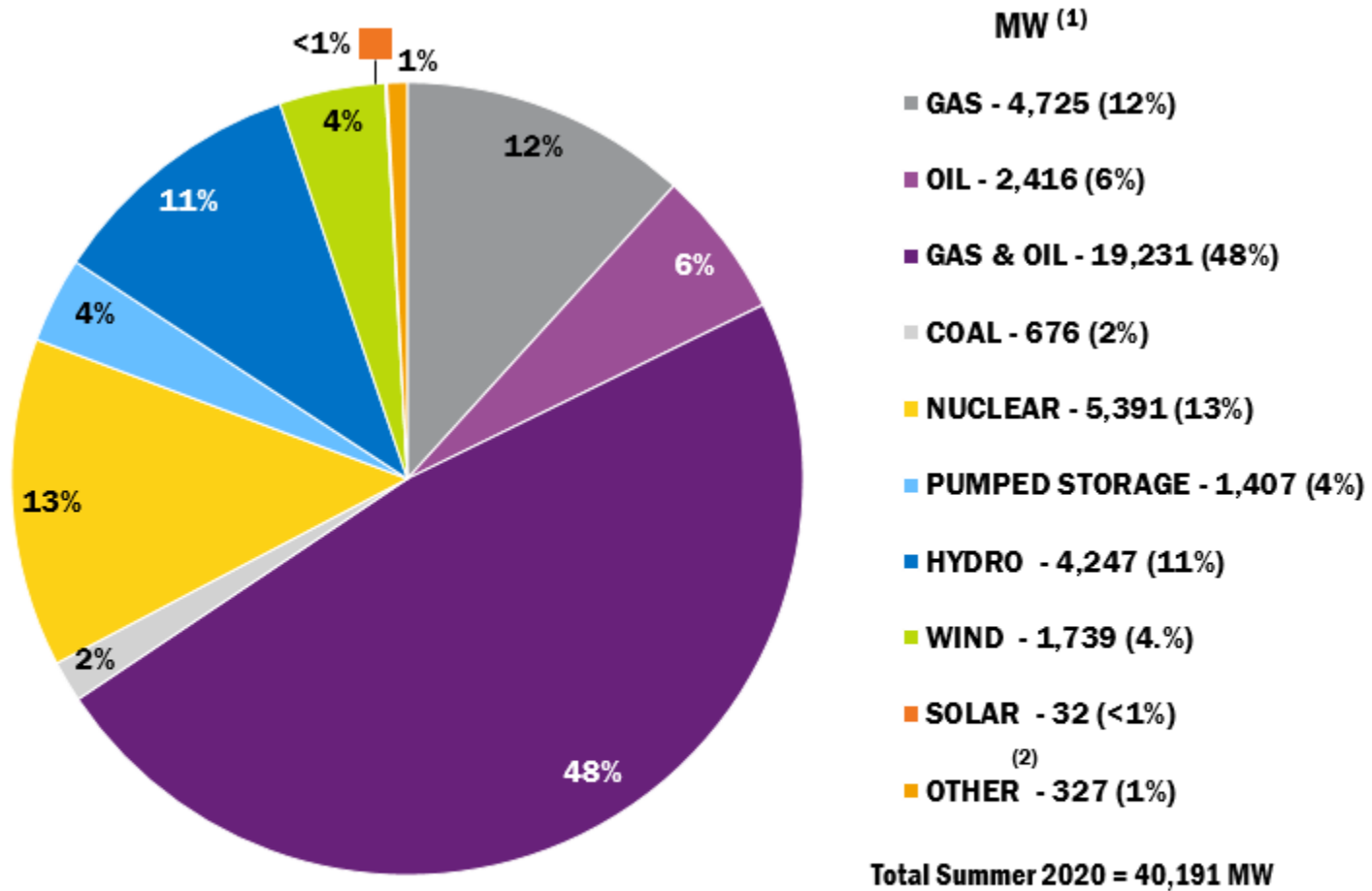


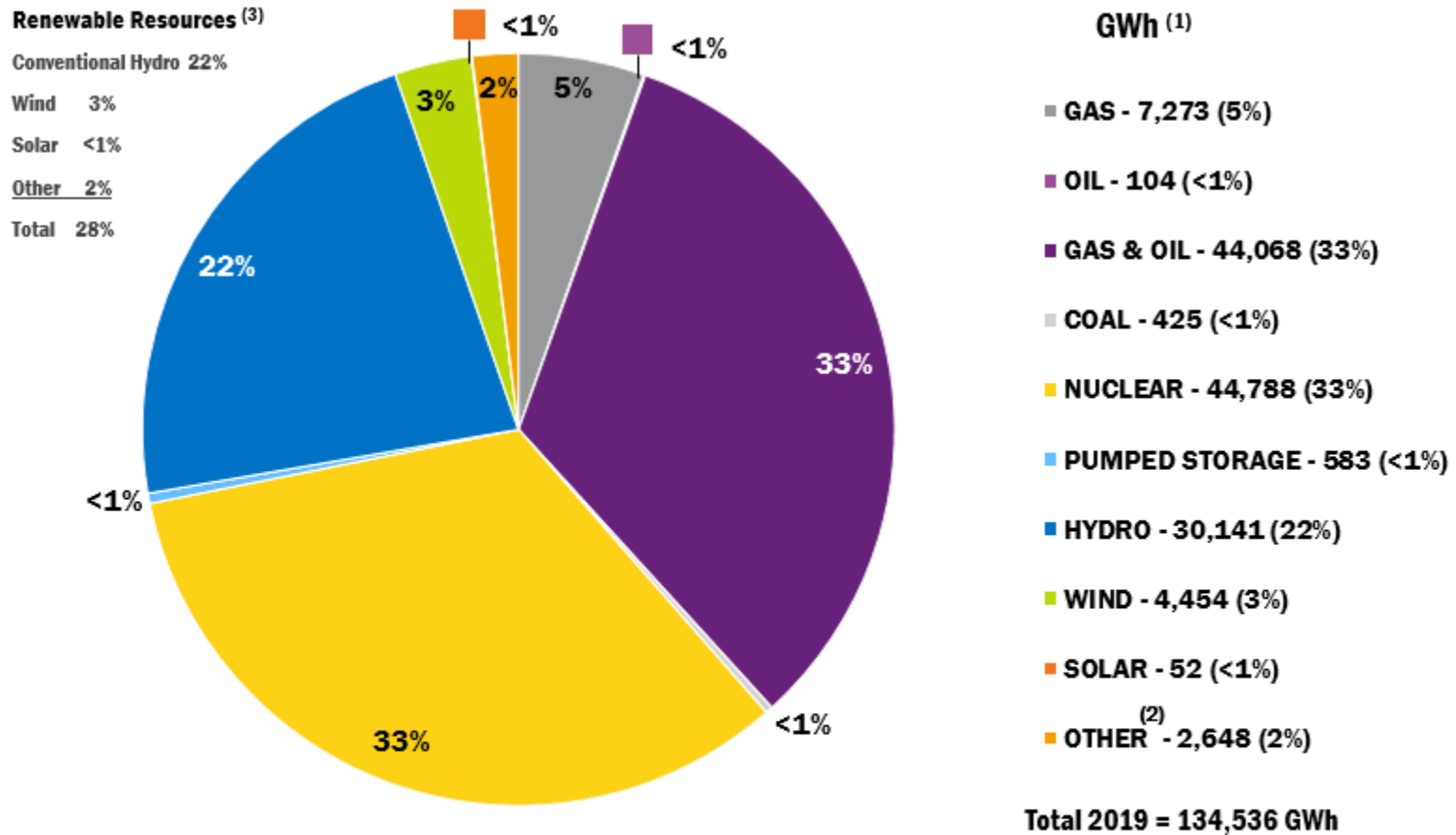
Figure III-2: Existing NYCA Summer Capability by Fuel Type



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

(2) Includes Methane, Refuse & Wood.

Figure III-3: 2019 NYCA Energy Production by Fuel Type



(1) All values are rounded to the nearest whole GWh.

(2) Includes Methane, Refuse & Wood.

(3) Renewable Resources do not necessarily match New York State policy definitions .

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

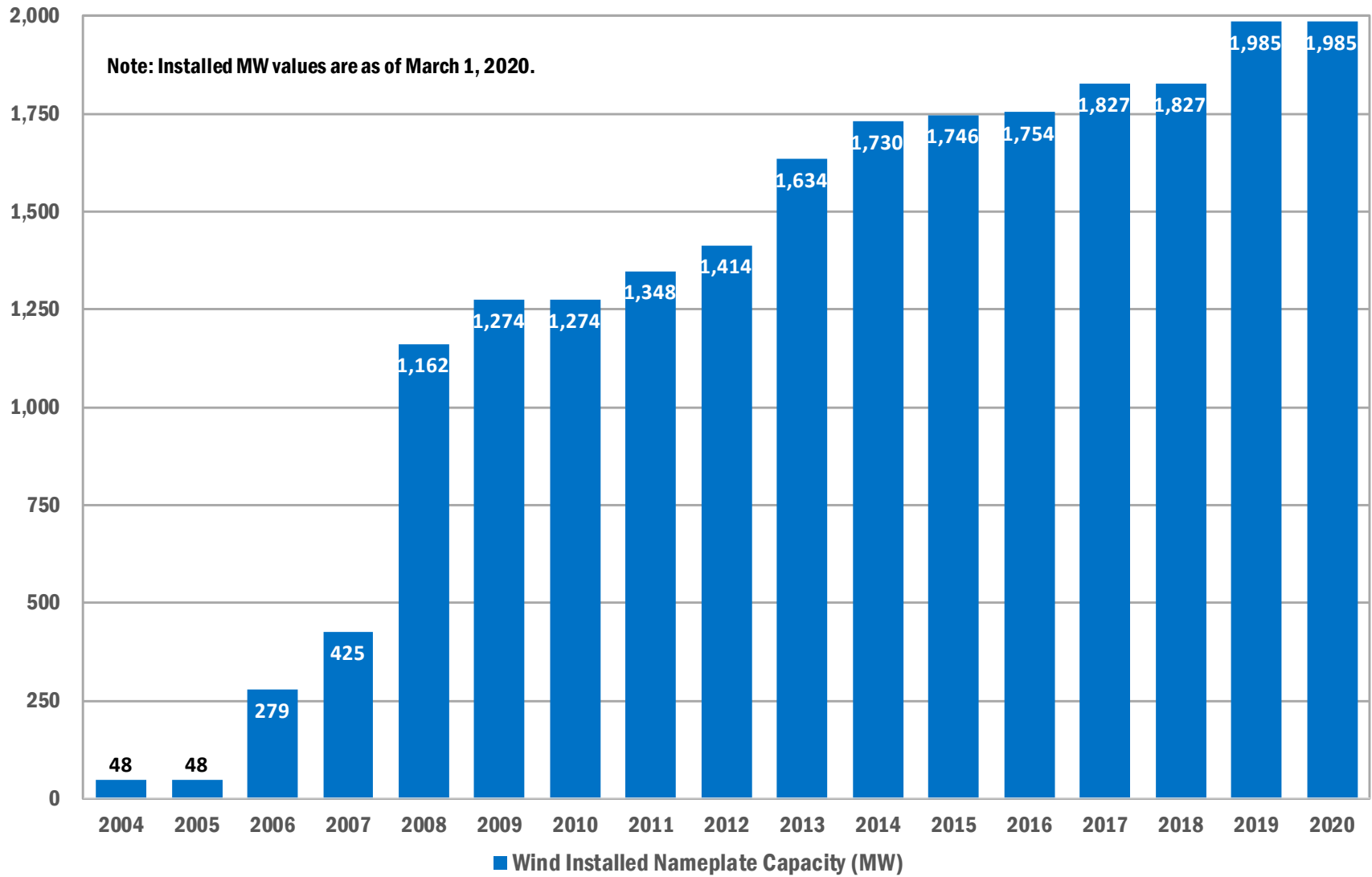
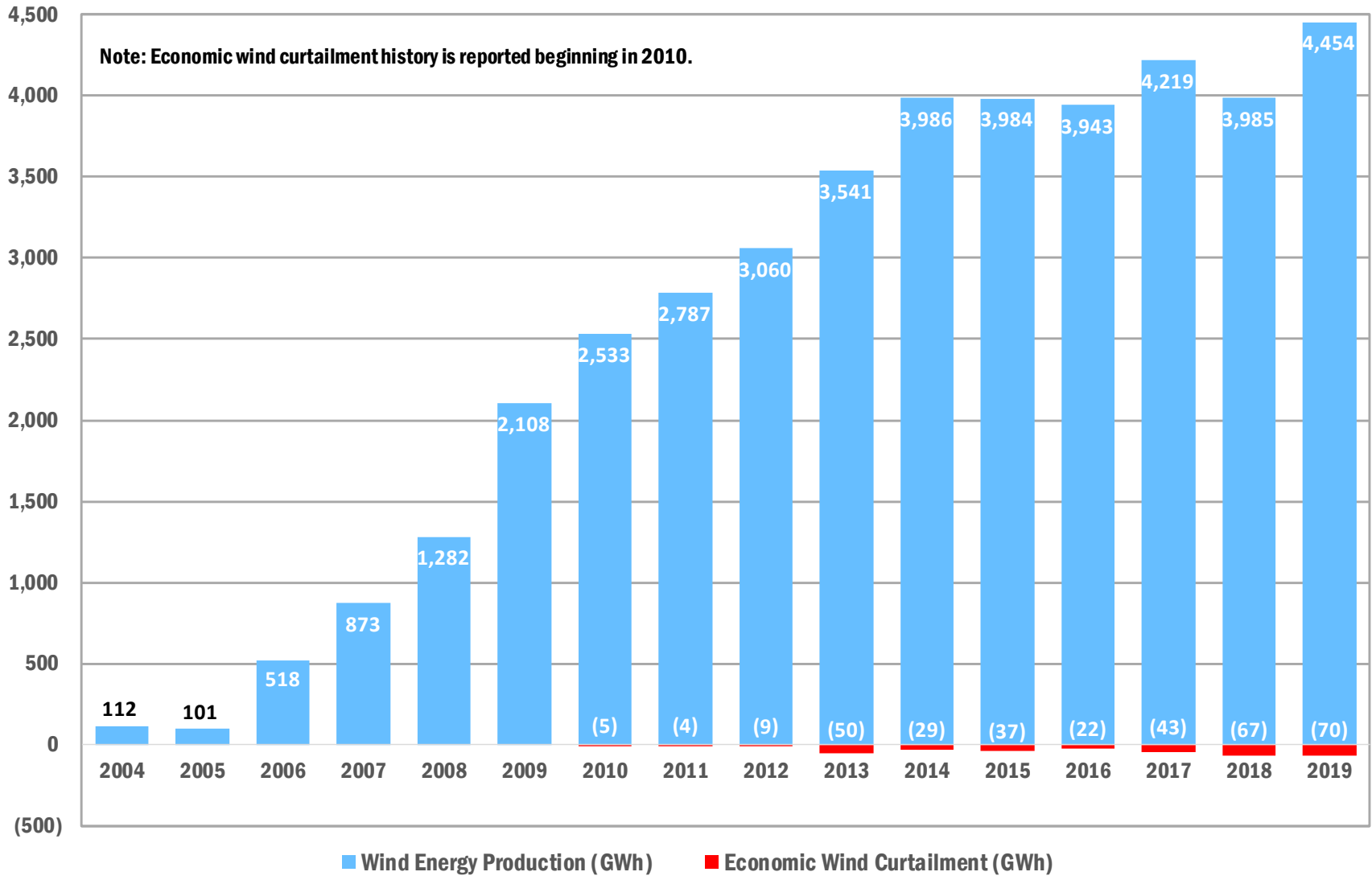


Figure III-4b: NYCA Wind Resources – Historical Energy Production and Economic Wind Curtailment



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 2019 *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, 2020. 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, 2020

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>												
387	Cassadaga Wind, LLC	Cassadaga Wind	A	Dec-20	126.5	126.0	126.0	126.5	126.5	Wind Turbines	2017	(2)
396	Baron Winds, LLC	Baron Winds	C	Dec-20	238.4	300.0	300.0	238.4	238.4	Wind Turbines	2017	(2)
422	NextEra Energy Resources, LLC	Eight Point Wind Energy Center	B	Dec-20	101.8	101.2	101.2	101.8	101.8	Wind Turbines	2017	(2)
363	Anbaric Development Partners, LLC	Poseidon Offshore	K	Jan-21	500.0	500.0	500.0	500.0	500.0	Wind Turbines	2015	(2)
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)
505	RES America Development Inc.	Ball Hill Wind	A	Dec-22	100.0	100.0	100.0	100.0	100.0	Wind Turbines	2017	(2)
393	NRG Berrians East Development, LLC	Berrians East Replacement	J	Feb-23	465.0	508.0	508.0	431.0	438.0	Combustion Turbines	2017	(2) (7)
<u>Completed CRIS Requests</u>												
430	HQUS	Cedar Rapids Transmission Upgrade	D	Oct-21	N/A	80.0	80.0	N/A	N/A			
<u>Class Year 2019³</u>												
618	North Park Energy, LLC	High River Solar	F	Nov-20	90.0	90.0	TBD	90.0	90.0	Solar		
519	Canisteo Wind Energy LLC	Canisteo Wind	C	Dec-20	290.7	290.7	TBD	290.7	290.7	Wind Turbines		
531	Invenery Wind Development LLC	Number 3 Wind Energy	E	Dec-20	105.8	105.8	TBD	105.8	105.8	Wind Turbines		
546	Atlantic Wind, LLC	Roaring Brook Wind	E	Dec-20	79.7	79.7	TBD	79.7	79.7	Wind Turbines		
579	Bluestone Wind, LLC	Bluestone Wind	E	Dec-20	124.2	124.2	TBD	124.2	124.2	Wind Turbines		
617	North Park Energy, LLC	Watkins Glen Solar	C	Dec-20	50.0	50.0	TBD	50.0	50.0	Solar		
678	LI Solar Generation, LLC	Calverton Solar Energy Center	K	Dec-20	22.9	22.9	TBD	22.9	22.9	Solar		
683	KCE NY 2, LLC	KCE NY 2	G	Jun-21	200.0	200.0	TBD	200.0	200.0	Energy Storage		
535	sPower Development Company, LLC	Riverhead Expansion	K	Oct-21	36.0	36.0	TBD	36.0	36.0	Solar		
644	Hecate Energy Columbia County 1, LLC	Columbia County 1	F	Oct-21	60.0	60.0	TBD	60.0	60.0	Solar		
495	Mohawk Solar LLC	Mohawk Solar	F	Nov-21	90.5	90.5	TBD	90.5	90.5	Solar		
571	Heritage Renewables, LLC	Heritage Wind	A	Nov-21	200.1	200.1	TBD	200.1	200.1	Wind Turbines		
591	Geronimo Energy, LLC	High Top Solar	C	Nov-21	20.0	20.0	TBD	20.0	20.0	Solar		
629	Silver Lake Solar, LLC	Silver Lake Solar	C	Nov-21	24.9	24.9	TBD	24.9	24.9	Solar		
637	Flint Mine Solar LLC	Flint Mine Solar	G	Nov-21	100.0	100.0	TBD	100.0	100.0	Solar		
706	High Brigde Wind, LLC	High Brigde Wind	E	Nov-21	100.8	100.8	TBD	100.8	100.8	Wind Turbines		
560	Atlantic Wind, LLC	Deer River Wind	E	Dec-21	100.0	100.0	TBD	100.0	100.0	Wind Turbines		
594	North Park Energy, LLC	NW Energy	C	Dec-21	60.0	60.0	TBD	60.0	60.0	Energy Storage		
595	North Park Energy, LLC	SW Energy	A	Dec-21	100.0	100.0	TBD	100.0	100.0	Energy Storage		
596	Invenery Wind Development LLC	Alle Catt II Wind	A	Dec-21	339.8	339.8	TBD	339.8	339.8	Wind Turbines		
619	North Park Energy, LLC	East Point Solar	F	Dec-21	50.0	50.0	TBD	50.0	50.0	Solar		
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		
620	North Park Energy, LLC	North Side Solar	D	Nov-22	180.0	180.0	TBD	180.0	180.0	Solar		
718	Cortland Energy Center, LLC	Cortland Energy Center	C	Nov-22	50.0	50.0	TBD	50.0	50.0	Solar		

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

QUEUE POS.	OWNER / OPERATOR	STATION UNIT	ZONE	Proposed Date ⁶ (M-YY)	NAMEPLATE RATING (MW)	REQUESTED CRIS (MW) ¹	CRIS ¹ (MW)	SUMMER (MW)	WINTER (MW)	UNIT TYPE	CLASS YEAR	NOTES
720	North Light Energy Center, LLC	North Light Energy Center	C	Nov-22	80.0	80.0	TBD	80.0	80.0	Solar		
721	Excelsior Energy Center, LLC	Excelsior Energy Center	A	Nov-22	280.0	280.0	TBD	280.0	280.0	Solar		
612	Deepwater Wind South Fork, LLC	South Fork Wind Farm	K	Dec-22	96.0	96.0	TBD	96.0	96.0	Wind Turbines		
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		
704	Bear Ridge Solar, LLC	Bear Ridge Solar	A	Dec-22	100.0	100.0	TBD	100.0	100.0	Solar		
791	Danskammer Energy LLC	Danskammer Energy Center	G	Oct-23	615.0	88.9	TBD	595.5	600.0	Combined Cycle		(9)
276	EDF Renewables Development, Inc.	Homer Solar Energy Center	C	Dec-23	90.0	90.0	TBD	90.0	90.0	Solar		
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	Empire Wind	J	Dec-24	816.0	816.0	TBD	816.0	816.0	Wind Turbines		
738	Equinor Wind US LLC	Empire Wind II	K	Dec-24	816.0	816.0	TBD	816.0	816.0	Wind Turbines		
778	Astoria Generating Company LP	Gowanus Gas Turbine Facility Repowering	J	May-24	710.0	0.0	TBD	549.0	588.0	Combustion Turbines		(8)
		<u>CRIS Requests³</u>										
	Innovative Energy Systems, LLC	Fulton County Landfill	F	N/A	N/A	3.2	TBD	N/A	N/A	Methane		
	Seneca Energy II, LLC	Ontario Landfill	B	N/A	N/A	3.6	TBD	N/A	N/A	Methane		
	BSC Owner LLC	Spring Creek Tower	J	N/A	N/A	8.0	TBD	N/A	N/A	Diesel		
	Energy Storage Resources, LLC	Eagle Energy Storage	J	N/A	N/A	20.0	TBD	N/A	N/A	Energy Storage		
	Geronimo Energy, LLC	Blue Stone Solar	G	N/A	N/A	20.0	TBD	N/A	N/A	Solar		
	Energy Storage Resources, LLC	Queen City Energy Storage	K	N/A	N/A	19.2	TBD	N/A	N/A	Energy Storage		
	Strata Storage, LLC	Groundvault Energy Storage	J	N/A	N/A	12.5	TBD	N/A	N/A	Energy Storage		
	Strata Storage, LLC	Stillwell Energy Storage	J	N/A	N/A	10.0	TBD	N/A	N/A	Energy Storage		
	Strata Storage, LLC	Cleancar Energy Storage	J	N/A	N/A	15.0	TBD	N/A	N/A	Energy Storage		
	KCE NY 14, LLC	KCE NY 14	G	N/A	N/A	20.0	TBD	N/A	N/A	Energy Storage		
	Hannacroix Solar Facility, LLC	Hannacroix Solar	G	N/A	N/A	3.2	TBD	N/A	N/A	Solar		
	RWE Solar Development, LLC	Monsey 44-6	G	N/A	N/A	5.0	TBD	N/A	N/A	Energy Storage		
	RWE Solar Development, LLC	Monsey 44-2	G	N/A	N/A	5.0	TBD	N/A	N/A	Energy Storage		
	RWE Solar Development, LLC	Monsey 44-3	G	N/A	N/A	5.0	TBD	N/A	N/A	Energy Storage		
	RWE Solar Development, LLC	Cuddebackville Battery	G	N/A	N/A	10.0	TBD	N/A	N/A	Energy Storage		
	RWE Solar Development, LLC	Jewett Avenue	J	N/A	N/A	20.0	TBD	N/A	N/A	Energy Storage		
	KCE NY 18, LLC	KCE NY 18	G	N/A	N/A	20.0	TBD	N/A	N/A	Energy Storage		
	Yonkers Grid, LLC	Yonkers Grid	J	N/A	N/A	20.0	TBD	N/A	N/A	Energy Storage		
	King's Plaza Energy LLC	King's Plaza	J	N/A	N/A	6.0	TBD	N/A	N/A	Natural Gas		
	Gravity Renewables, Inc	Dahowa Hydroelectric	F	N/A	N/A	10.5	TBD	N/A	N/A	Hydro		
	Enel Green Power North America, Inc.	Cuddebackville	G	N/A	N/A	10.0	TBD	N/A	N/A	Energy Storage		
	ELP Ticonderoga Solar, LLC	ELP Ticonderoga Solar	F	N/A	N/A	20.0	TBD	N/A	N/A	Solar		
	Bluestone Wind, LLC	Bluestone Battery Storage	E	N/A	N/A	10.0	TBD	N/A	N/A	Energy Storage		
	Granada Solar LLC	Magruder Solar	G	N/A	N/A	20.0	TBD	N/A	N/A	Solar		
	Rising Solar, LLC	Rising Solar II	G	N/A	N/A	20.0	TBD	N/A	N/A	Solar		
	KCE NY 8a LLC	KCE NY 8a	G	N/A	N/A	20.0	TBD	N/A	N/A	Solar		
	KCE NY 10, LLC	KCE NY 10	A	N/A	N/A	20.0	TBD	N/A	N/A	Solar		

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

QUEUE POS.	OWNER / OPERATOR	STATION UNIT	ZONE	Proposed Date ⁶ (M-YY)	NAMEPLATE RATING (MW)	REQUESTED CRIS (MW) ¹	CRIS ¹ (MW)	SUMMER (MW)	WINTER (MW)	UNIT TYPE	CLASS YEAR	NOTES
<u>Future Class Year Candidates⁴</u>												
520	EDP Renewables North America	Rolling Upland Wind	E	Oct-19	72.6	TBD	TBD	72.6	72.6	Wind Turbines		
468	Apex Clean Energy LLC	Galloo Island Wind	C	Dec-19	110.4	TBD	TBD	110.4	110.4	Wind Turbines		
523	Dunkirk Power, LLC	Dunkirk Unit 2	A	Apr-20	75.0	TBD	TBD	75.0	75.0	Steam Turbine		
524	Dunkirk Power, LLC	Dunkirk Unit 3 & 4	A	Apr-20	370.0	TBD	TBD	370.0	370.0	Steam Turbine		
496	Renovo Energy Center, LLC	Renovo Energy Center	C	Jun-20	531.0	TBD	TBD	480.0	504.0	Combined Cycle		
372	Dry Lots Wind, LLC	Dry Lots Wind	E	Dec-20	33.0	TBD	TBD	33.0	33.0	Wind Turbines		
445	Lighthouse Wind, LLC	Lighthouse Wind	A	Dec-20	201.3	TBD	TBD	201.3	201.3	Wind Turbines		
526	Atlantic Wind, LLC	North Ridge Wind	D	Dec-20	100.0	TBD	TBD	100.0	100.0	Wind Turbines		
624	Franklin Solar, LLC	Franklin Solar	D	Dec-20	150.0	TBD	TBD	150.0	150.0	Solar		
686	Invenergy Solar Development North America LLC	Bull Run Solar Energy Center	D	Dec-20	170.0	TBD	TBD	170.0	170.0	Solar		
693	Renovo Energy Center, LLC	Renovo Energy Center Uprate	C	Apr-21	531.0	TBD	TBD	515.0	548.0	Combined Cycle		
498	ESC Tioga County Power, LLC	Tioga County Power	C	May-21	644.3	TBD	TBD	550.0	550.0	Combined Cycle		
740	Oakdale Battery Storage LLC	Oakdale battery Storage	C	Aug-21	120.0	TBD	TBD	120.0	120.0	Energy Storage		
474	EDP Renewables North America	North Slope Wind	D	Oct-21	200.0	TBD	TBD	200.0	200.0	Wind Turbines		
466	Atlantic Wind, LLC	Bone Run Wind	A	Dec-21	132.0	TBD	TBD	132.0	132.0	Wind Turbines		
574	Atlantic Wind, LLC	Mad River Wind	E	Dec-21	450.0	TBD	TBD	450.0	450.0	Wind Turbines		
745	Energy Storage Resources, LLC	Huckleberry Ridge Energy	G	Apr-22	100.0	TBD	TBD	100.0	100.0	Energy Storage		
699	Helix Ravenswood, LLC	Ravenswood Gas	J	Jun-22	272.0	TBD	TBD	238.5	243.8	Combustion Turbines		
719	East Ling Energy Center	East Light Energy Center	F	Nov-22	40.0	TBD	TBD	40.0	40.0	Solar		
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		
449	Stockbridge Wind, LLC	Stockbridge Wind	C	Oct-23	72.6	TBD	TBD	72.6	72.6	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>												
775	Puckett Solar, LLC (Conti)	Puckett Solar	E	Apr-20	20.0	20.0	N/A	20.0	20.0	Solar		(3) (5)
570	Hecate Energy, LLC	Albany County	F	Jun-20	20.0	20.0	N/A	20.0	20.0	Solar		(3) (5)
598	Hecate Energy, LLC	Albany County II	F	Jun-20	20.0	20.0	N/A	20.0	20.0	Solar		(3) (5)
581	SED NY Holdings LLC	Hills Solar	E	Jul-20	20.0	N/A	N/A	20.0	20.0	Solar		(5)
584	SED NY Holdings LLC	Dog Corners Solar	C	Aug-20	20.0	N/A	N/A	20.0	20.0	Solar		(5)
586	SED NY Holdings LLC	Watkins Rd Solar	E	Aug-20	20.0	N/A	N/A	20.0	20.0	Solar		(5)
735	ELP Stillwater Solar LLC	ELP Stillwater Solar	F	Aug-20	20.0	20.0	N/A	20.0	20.0	Solar		(3) (5)
638	Pattersonville Solar Facility, LLC	Pattersonville	F	Oct-20	20.0	20.0	N/A	20.0	20.0	Solar		(3) (5)
759	KCE NY 6, LLC	KCE NY 6	A	Oct-20	20.0	20.0	N/A	20.0	20.0	Energy Storage		(3) (5)
590	Duke Energy Renewables Solar, LLC	Scipio Solar	C	Nov-20	20.0	N/A	N/A	20.0	20.0	Solar		(5)
592	Duke Energy Renewables Solar, LLC	Niagara Solar	B	Nov-20	20.0	N/A	N/A	20.0	20.0	Solar		(5)
513	Stoney Creek Energy, LLC	Orangeville	C	Dec-20	20.0	N/A	N/A	20.0	20.0	Energy Storage		(5)
572	Hecate Energy Greene 1 LLC	Greene County 1	G	Dec-20	20.0	20.0	N/A	20.0	20.0	Solar		(3) (5)
573	Hecate Energy Greene 2 LLC	Greene County 2	G	Dec-20	10.0	10.0	N/A	10.0	10.0	Solar		(3) (5)
575	Little Pond Solar, LLC	Little Pond Solar	G	Dec-20	20.0	20.0	N/A	20.0	20.0	Solar		(3) (5)
589	Duke Energy Renewables Solar, LLC	North Country Solar	E	Dec-20	15.0	N/A	N/A	15.0	15.0	Solar		(5)
621	Blue Stone Solar Energy, LLC	Saugerties Solar	G	Dec-20	20.0	20.0	N/A	20.0	20.0	Solar		(3) (5)
649	CR Fuel Cell, LLC	Clare Rose	K	Dec-20	13.9	N/A	N/A	13.9	13.9	Fuel Cell		(5)
669	SED NY Holdings LLC	Clay Solar	C	Dec-20	20.0	N/A	N/A	20.0	20.0	Solar		(5)
670	SED NY Holdings LLC	Skyline Solar	E	Dec-20	20.0	N/A	N/A	20.0	20.0	Solar		(5)
682	Grissom Solar, LLC	Grissom Solar	F	Dec-20	20.0	20.0	N/A	20.0	20.0	Solar		(3) (5)
748	Regan Solar, LLC (Conti)	Grissom Solar II	F	Dec-20	20.0	20.0	N/A	20.0	20.0	Solar		(3) (5)
564	Rock District Solar, LLC	Rock District Solar	F	Apr-21	20.0	20.0	N/A	20.0	20.0	Solar		(3) (5)
565	Tayandenega Solar, LLC	Tayandenega Solar	F	Apr-21	20.0	20.0	N/A	20.0	20.0	Solar		(3) (5)
730	Darby Solar, LLC	CS Easton Solar 1	F	Mar-21	20.0	20.0	N/A	20.0	20.0	Solar		(3) (5)
731	Branscomb Solar, LLC	CS Easton Solar 2	F	Mar-21	20.0	20.0	N/A	20.0	20.0	Solar		(3) (5)
768	Janis Solar, LLC	Janis Solar	C	Mar-21	20.0	20.0	N/A	20.0	20.0	Solar		(3) (5)
545	Sky High Solar, LLC	Sky High Solar	C	May-21	20.0	N/A	N/A	20.0	20.0	Solar		(5)
666	Martin Rd Solar LLC	Martin Solar	A	Oct-21	20.0	N/A	N/A	20.0	20.0	Solar		(5)
715	EDF Renewables Development, Inc.	Suffragette Solar	C	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	N/A	20.0	20.0	Energy Storage		(3) (5)
597	Hecate Energy Greene County 3 LLC	Greene County 3	G	Dec-21	20.0	20.0	N/A	20.0	20.0	Solar		(3) (5)
650	BRT Fuel Cell, LLC	Brookhaven Rail Terminal	K	May-22	18.5	N/A	N/A	18.5	18.5	Fuel Cell		(5)
667	Bakerstand Solar LLC	Bakerstand Solar	A	Oct-22	20.0	N/A	N/A	20.0	20.0	Solar		(5)
					Total			14,320.4	14,437.7			

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 new additions in this year's Load and Capacity Schedule, Table V-2a & V-2b.
3	Projects that are members of Class Year 2019.
4	Projects that are potential candidates for a Class Year Study after Class Year 2019, 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 Facilities 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).

Table IV-2: Proposed Generator Re-ratings¹, as of March 15, 2020

QUEUE POS.	OWNER / OPERATOR	STATION	UNIT	ZONE	DATE (4)	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	(3)	0.0	TBD	10.9	27.1	1,254.0	TBD	1,012.0	1,212.0	
671	East Coast Power LLC	Linden Cogen Uprate		J	2023/05	23786	(2)	0.0	TBD	31.9	22.7	826.2	TBD	822.7	822.7	
Total								0.0	0.0	42.8	49.8	2,080.2	0.0	1,834.7	2,034.7	

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 members of Class Year 2019.

3. Projects that are potential candidates for a Class Year Study after Class Year 2019, 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.

4. 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.

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, 2020

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 09	J	11/01/2017	24257	21.7	27.6	16.3	22.8	I
Binghamton BOP, LLC	Binghamton	C	01/09/2018	23790	43.8	57.2	43.7	47.1	R
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
Cayuga Operating Company, LLC	Cayuga 2 ⁽⁵⁾	C	07/01/2018	23585	154.7	154.7	139.6	158.0	I
Lyonsdale Biomass, LLC	Lyonsdale	E	07/18/2019	23803	20.2	20.2	19.3	19.7	R
Total					519.4	604.9	441.8	541.8	

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).

5. On March 2, 2020 the NYISO posted the completed Generator Deactivation Notice for the Retirement of Cayuga 1 and Cayuga 2 submitted to the NYISO by the Cayuga Operating Company.

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, 2020

OWNER / OPERATOR	STATION UNIT	ZONE	DATE	PTID	CRIS (MW)		CAPABILITY (MW)		Status ⁽¹⁾
					SUMMER ⁽²⁾	WINTER ⁽²⁾	SUMMER ⁽²⁾	WINTER ⁽²⁾	
Exelon Generation Company LLC	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 ⁽³⁾	C	11/01/2019	23584	154.1	154.1	151.0	152.0	M
Consolidated Edison Co. of NY, Inc	Hudson Ave 3	J	11/01/2019	23810	16.0	20.9	16.6	19.5	I
Total					195.4	205.0	191.3	200.7	

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. On March 2, 2020 the NYISO posted the completed Generator Deactivation Notice for the Retirement of Cayuga 1 and Cayuga 2 submitted to the NYISO by the Cayuga Operating Company.

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

Table IV-5: Notices of Proposed Deactivations¹ as of March 15, 2020

OWNER / OPERATOR	STATION	UNIT	ZONE	DATE	PTID	CRIS (MW)		CAPABILITY (MW)		Notes
						SUMMER	WINTER	SUMMER	WINTER	
Albany Energy, LLC	Albany	LFGE	F	09/18/2019	323615	4.5	4.5	5.6	5.6	3
Somerset Operating Company, LLC	Somerset		A	02/15/2020	23543	686.5	686.5	676.4	684.4	2
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	1
National Grid	West Babylon 4		K	12/11/2020	23714	49.0	64.0	50.2	65.4	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						2,806.9	2,821.9	2,780.0	2,823.1	

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. Per the NYISO's Generator Deactivation Process, the earliest date on which the Generator could retire is 3/12/2020. The Generator Deactivation Assessment for this unit was completed on March 4, 2020. As of March 15, 2020, Somerset Operating Company, LLC had not completed all required NYISO administrative processes and procedures.

3. Per the NYISO's Generator Deactivation Process, the earliest date on which the Generator could retire is 10/11/2019. The Generator Deactivation Assessment for this unit was completed on September 20, 2019. As of March 15, 2020, Albany Energy had not completed all required NYISO administrative processes and procedures.

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	19.9	26.0	20.2	23.9	2
Central Hudson Gas & Elec. Corp.	South Cairo		G	05/01/2023	23612	19.8	25.9	18.1	22.5	2
Consolidated Edison Co. of NY, Inc.	74 St. GT 1 & 2		J	05/01/2023	24260-24261	39.1	49.2	35.2	40.9	2
Consolidated Edison Co. of NY, Inc.	Hudson Ave 5		J	05/01/2023	23657	15.1	19.7	14.2	20.2	2
Helix Ravenswood, LLC	Ravenswood 01		J	05/01/2023	23729	8.8	11.5	8.1	10.1	2
Helix Ravenswood, LLC	Ravenswood 10		J	05/01/2023	24258	21.2	27.0	16.5	24.4	2
Helix Ravenswood, LLC	Ravenswood 11		J	05/01/2023	24259	20.2	25.7	16.4	22.4	2
National Grid	Glenwood GT 1		K	05/01/2023	23712	14.6	19.1	11.4	14.5	2
National Grid	Northport GT		K	05/01/2023	23718	13.8	18.0	11.7	15.1	2
National Grid	Port Jefferson GT 01		K	05/01/2023	23713	14.1	18.4	12.9	16.6	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	141.8	185.4	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	140.8	181.8	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	132.8	176.2	2
Consolidated Edison Co. of NY, Inc.	59 St. GT 1		J	05/01/2025	24138	15.4	20.1	15.6	20.3	2
NRG Power Marketing, LLC	Arthur Kill GT1		J	05/01/2025	23520	16.5	21.6	12.0	15.0	2
Astoria Generating Company, L.P.	Gowanus 1-1 through 1-8		J	05/01/2023	24077-24080, 24084, 24111-24113	138.7	181.1	138.2	180.6	3
Astoria Generating Company, L.P.	Gowanus 4-1 through 4-8		J	05/01/2023	24130-24137	140.1	182.9	135.3	184.8	3
Astoria Generating Company, L.P.	Astoria GT 01		J	05/01/2025	23523	15.7	20.5	14.1	19.1	3
Astoria Generating Company, L.P.	Gowanus 2-1 through 2-8		J	05/01/2025	24114-24121	152.8	199.6	142.3	190.0	3
Astoria Generating Company, L.P.	Gowanus 3-1 through 3-8		J	05/01/2025	24122-24129	146.8	191.7	135.5	182.8	3
Astoria Generating Company, L.P.	Narrows 1-1 through 2-8		J	05/01/2025	24228-24243	309.1	403.6	286.5	379.9	3
Total						1,626.1	2,082.4	1,459.6	1,926.5	

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 in the summer ozone season 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 2019 through 2030 (as of March 15, 2020). Table V-1 summarizes Net Capacity Purchases (MW) from External Control Areas from 2020 through 2030. Table V-2a summarizes the NYCA Load and Capacity Schedule for the Summer Capability Period from 2019 through 2030. Table V-2b summarizes the NYCA Load and Capacity Schedule for the Winter Capability Period from 2019-20 through 2030-31. For reference, the values for the summer of 2019 and winter of 2019-20 are repeated from the *2019 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 1,282 MW of summer capacity and 839 MW of winter capacity. Tables V-2a and V-2b also report the summer and winter capacity projections for SCR.

The NYCA resource capability for the 2020 Summer Capability Period is 39,779 MW. This value is the sum of existing facilities (40,191 MW), SCR (1,282 MW), and net generation changes (-1,694 MW). With the inclusion of net Capacity purchases of 1,562 MW, the total resource capability is 41,341 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 seasonal peak demand
Additions	Generating additions expected prior to the seasonal peak demand
Re-rates	Generator 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 Capacity 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
Capacity 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

2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
1,562.2	1,812.4	1,816.2	1,794.2	1,954.3	1,954.3	1,954.3	1,954.3	1,954.3	1,954.3	1,954.3

WINTER NET CAPACITY PURCHASES (1, 2, 3)

MW

2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31
495.8	1,199.8	1,202.2	1,180.2	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 2023, excluding wheel transactions from HQ to ISO-NE.

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

SUMMER CAPABILITY	2019	MW											Totals	
		2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030		
Steam Turbine (Oil)	801.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	
Steam Turbine (Oil & Gas)	8,368.1	8,456.3	8,456.3	8,456.3	8,456.3	8,456.3	8,456.3	8,456.3	8,456.3	8,456.3	8,456.3	8,456.3	8,456.3	
Steam Turbine (Gas)	1,532.9	1,473.1	1,473.1	1,473.1	1,473.1	1,473.1	1,473.1	1,473.1	1,473.1	1,473.1	1,473.1	1,473.1	1,473.1	
Steam Turbine (Coal)	836.9	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)	8,457.8	8,485.3	8,485.3	8,485.3	8,485.3	8,485.3	8,485.3	8,485.3	8,485.3	8,485.3	8,485.3	8,485.3	8,485.3	
Combined Cycle (Gas)	1,526.9	2,529.0	2,529.0	2,529.0	2,529.0	2,529.0	2,529.0	2,529.0	2,529.0	2,529.0	2,529.0	2,529.0	2,529.0	
Jet Engine (Oil)	674.0	671.4	671.4	671.4	671.4	671.4	671.4	671.4	671.4	671.4	671.4	671.4	671.4	
Jet Engine (Oil & Gas)	1,272.3	1,279.7	1,279.7	1,279.7	1,279.7	831.4	831.4	831.4	831.4	831.4	831.4	831.4	831.4	
Jet Engine (Gas)	55.1	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	
Combustion Turbine (Oil)	911.1	919.9	919.9	869.7	869.7	492.7	492.7	492.7	492.7	492.7	492.7	492.7	492.7	
Combustion Turbine (Oil & Gas)	985.2	979.6	979.6	979.6	979.6	1,390.4	1,390.4	810.5	810.5	810.5	810.5	810.5	810.5	
Combustion Turbine (Gas)	661.8	659.2	659.2	659.2	659.2	651.1	651.1	625.0	625.0	625.0	625.0	625.0	625.0	
Internal Combustion (Oil)	20.1	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)	28.9	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)	0.0	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	
Pumped Storage Hydro	1,411.3	1,407.1	1,407.1	1,407.1	1,407.1	1,407.1	1,407.1	1,407.1	1,407.1	1,407.1	1,407.1	1,407.1	1,407.1	
Steam (PWR Nuclear)	2,635.0	2,628.4	1,616.9	580.6	580.6	580.6	580.6	580.6	580.6	580.6	580.6	580.6	580.6	
Steam (BWR Nuclear)	2,765.1	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	
Conventional Hydro (5)	4,252.7	4,247.1	4,247.1	4,247.1	4,247.1	4,247.1	4,247.1	4,247.1	4,247.1	4,247.1	4,247.1	4,247.1	4,247.1	
Internal Combustion (Methane) (5)	107.3	101.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	
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	0.0	
Steam Turbine (Refuse) (5)	219.6	225.3	225.3	244.3	244.3	244.3	244.3	244.3	244.3	244.3	244.3	244.3	244.3	
Wind (5) (6)	1,739.2	1,739.2	1,739.2	2,705.9	2,705.9	2,805.9	2,805.9	2,805.9	2,805.9	2,805.9	2,805.9	2,805.9	2,805.9	
Solar (5) (8)	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	
EXISTING GENERATING FACILITIES	39,294.5	40,190.6	38,497.1	38,396.3	38,396.3	38,073.7	38,073.7	37,467.7	37,467.7	37,467.7	37,467.7	37,467.7	37,467.7	
Special Case Resources - SCR (3)	1,309.0	1,281.9	1,281.9	1,281.9	1,281.9	1,281.9	1,281.9	1,281.9	1,281.9	1,281.9	1,281.9	1,281.9	1,281.9	
Wholesale Market DER (11)	0.0	0.0	0.0	68.0	91.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	
Additions and Re-rates (2)	0.0	0.0	985.7	0.0	531.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,516.7
Noticed Deactivations (9)	0.0	-1,693.5	-1,086.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2,780.0
DEC Peaker Rule Compliance (12)	0.0	0.0	0.0	0.0	-853.6	0.0	-606.0	0.0	0.0	0.0	0.0	0.0	0.0	
NYCA RESOURCE CAPABILITY	40,603.5	39,779.0	39,678.2	39,746.2	39,446.6	39,469.6	38,863.6	38,863.6	38,863.6	38,863.6	38,863.6	38,863.6	38,863.6	
Net Capacity Purchases (1) (7)	1,452.4	1,562.2	1,812.4	1,816.2	1,794.2	1,954.3	1,954.3	1,954.3	1,954.3	1,954.3	1,954.3	1,954.3	1,954.3	
TOTAL RESOURCE CAPABILITY	42,055.9	41,341.2	41,490.6	41,562.4	41,240.8	41,423.9	40,817.9	40,817.9	40,817.9	40,817.9	40,817.9	40,817.9	40,817.9	
BASE FORECAST														
Peak Demand Forecast		32,296.0	32,129.0	32,128.0	31,918.0	31,838.0	31,711.0	31,670.0	31,673.0	31,756.0	31,869.0	31,997.0		
Installed Reserve		9,045.2	9,361.6	9,434.4	9,322.8	9,585.9	9,106.9	9,147.9	9,144.9	9,061.9	8,948.9	8,820.9		
Installed Reserve Percent (4)		28.0	29.1	29.4	29.2	30.1	28.7	28.9	28.9	28.5	28.1	27.6		
Proposed Resource Changes (10)		0.0	1,124.8	2,814.9	3,640.9	8,277.4	8,277.4	8,277.4	8,277.4	8,277.4	8,277.4	8,277.4		
Adjusted Resource Capability		41,341.2	42,615.4	44,377.3	44,881.7	49,701.3	49,095.3	49,095.3	49,095.3	49,095.3	49,095.3	49,095.3		
Adjusted Installed Reserve		9,045.2	10,486.4	12,249.3	12,963.7	17,863.3	17,384.3	17,425.3	17,422.3	17,339.3	17,226.3	17,098.3		
Adjusted Installed Reserve Percent		28.0	32.6	38.1	40.6	56.1	54.8	55.0	55.0	54.6	54.1	53.4		

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

WINTER CAPABILITY	2019/20	MW											Totals	
		2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31		
Steam Turbine (Oil)	827.0	776.0	776.0	776.0	776.0	776.0	776.0	776.0	776.0	776.0	776.0	776.0	776.0	
Steam Turbine (Oil & Gas)	8,445.5	8,493.1	8,493.1	8,493.1	8,493.1	8,493.1	8,493.1	8,493.1	8,493.1	8,493.1	8,493.1	8,493.1	8,493.1	
Steam Turbine (Gas)	1,548.9	1,496.8	1,496.8	1,496.8	1,496.8	1,496.8	1,496.8	1,496.8	1,496.8	1,496.8	1,496.8	1,496.8	1,496.8	
Steam Turbine (Coal)	843.5	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)	9,707.6	9,673.4	9,673.4	9,673.4	9,673.4	9,673.4	9,673.4	9,673.4	9,673.4	9,673.4	9,673.4	9,673.4	9,673.4	
Combined Cycle (Gas)	1,730.7	2,860.0	2,860.0	2,860.0	2,860.0	2,860.0	2,860.0	2,860.0	2,860.0	2,860.0	2,860.0	2,860.0	2,860.0	
Jet Engine (Oil)	795.4	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	
Jet Engine (Oil & Gas)	1,511.2	1,503.9	1,503.9	1,503.9	1,503.9	913.7	913.7	913.7	913.7	913.7	913.7	913.7	913.7	
Jet Engine (Gas)	58.6	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	
Combustion Turbine (Oil)	1,194.3	1,178.4	1,113.0	1,113.0	1,113.0	983.2	983.2	983.2	983.2	983.2	983.2	983.2	983.2	
Combustion Turbine (Oil & Gas)	1,219.5	1,221.1	1,221.1	1,221.1	1,659.1	1,635.2	1,635.2	1,614.9	1,614.9	1,614.9	1,614.9	1,614.9	1,614.9	
Combustion Turbine (Gas)	692.7	685.5	685.5	685.5	685.5	675.4	675.4	660.4	660.4	660.4	660.4	660.4	660.4	
Internal Combustion (Oil)	22.3	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)	28.9	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)	0.0	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	
Pumped Storage Hydro	1,408.7	1,405.1	1,405.1	1,405.1	1,405.1	1,405.1	1,405.1	1,405.1	1,405.1	1,405.1	1,405.1	1,405.1	1,405.1	
Steam (PWR Nuclear)	2,647.5	2,648.7	1,619.3	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	
Steam (BWR Nuclear)	2,782.5	2,774.8	2,774.8	2,774.8	2,774.8	2,774.8	2,774.8	2,774.8	2,774.8	2,774.8	2,774.8	2,774.8	2,774.8	
Conventional Hydro (5)	4,224.0	4,201.4	4,201.4	4,201.4	4,201.4	4,201.4	4,201.4	4,201.4	4,201.4	4,201.4	4,201.4	4,201.4	4,201.4	
Internal Combustion (Methane) (5)	107.3	101.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	
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	0.0	
Steam Turbine (Refuse) (5)	223.6	224.0	224.0	246.5	246.5	246.5	246.5	246.5	246.5	246.5	246.5	246.5	246.5	
Wind (5) (6)	1,739.2	1,739.2	2,705.9	2,705.9	2,805.9	2,805.9	2,805.9	2,805.9	2,805.9	2,805.9	2,805.9	2,805.9	2,805.9	
Solar (5) (8)	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	
EXISTING GENERATING FACILITIES	41,790.4	42,601.2	41,783.1	40,767.3	41,305.3	40,551.3	40,551.3	40,516.0	40,516.0	40,516.0	40,516.0	40,516.0	40,516.0	
Special Case Resources - SCR (3)	853.0	838.5	838.5	838.5	838.5	838.5	838.5	838.5	838.5	838.5	838.5	838.5	838.5	
Wholesale Market DER (11)	0.0	0.0	0.0	68.0	91.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	
Additions and Re-rates (2)	0.0	966.7	22.5	538.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,527.2
Noticed Deactivations (9)	0.0	-1,784.8	-1,038.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2,823.1
DEC Peaker Rule Compliance (12)	0.0	0.0	0.0	0.0	-754.0	0.0	-35.3	0.0	0.0	0.0	0.0	0.0	0.0	
NYCA RESOURCE CAPABILITY	42,643.4	42,621.6	41,605.8	42,211.8	41,480.8	41,503.8	41,468.5	41,468.5	41,468.5	41,468.5	41,468.5	41,468.5	41,468.5	
Net Capacity Purchases (1) (7)	678.0	495.8	1,199.8	1,202.2	1,180.2	1,340.3	1,340.3	1,340.3	1,340.3	1,340.3	1,340.3	1,340.3	1,340.3	
TOTAL RESOURCE CAPABILITY	43,321.4	43,117.4	42,805.6	43,414.0	42,661.0	42,844.1	42,808.8	42,808.8	42,808.8	42,808.8	42,808.8	42,808.8	42,808.8	
BASE FORECAST														
Peak Demand Forecast	24,123.0	24,130.0	24,203.0	24,474.0	24,650.0	24,944.0	25,251.0	25,635.0	25,988.0	26,404.0	26,891.0	27,396.0		
Installed Reserve	19,198.4	18,987.4	18,602.6	18,940.0	18,011.0	17,900.1	17,557.8	17,173.8	16,820.8	16,404.8	15,917.8	15,412.8		
Installed Reserve Percent (4)	79.6	78.7	76.9	77.4	73.1	71.8	69.5	67.0	64.7	62.1	59.2	56.3		

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 Interconnection Facilities Study, as shown in Tables IV-1 & IV-2.
(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 2020 - 2021 Capability Year is 18.9%. The Installed Reserve Percent calculated in Table V-2a should be compared to the Installed Reserve Margin requirement in the 2020 - 2021 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-3 are accounted for in the list of 2020 Existing Generating Facilities.
(10) — Proposed Resource Changes: Projects that have not completed a Class Year Interconnection Facilities Study, as shown in Tables IV-1 & IV-2.
(11) — Existing behind-the-meter distributed generation projected to enter the wholesale DER market (resulting decreases in existing BTM DG are accounted for in Table I-12a).
(12) — 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, 2020). The information in Table VI-1 is redacted as it may contain Critical Energy Infrastructure Information.

A version of the 2020 *Gold Book* that includes this table is available to individuals with a *myNYISO* account. To access a version of the 2020 *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) (l)	185.2	(h)	5.3	0.0	849.4	(b)
LONG ISLAND POWER AUTHORITY	0.0	0.0	245.2	161.5	(e)	0.0	0.0	0.0	9.3	(g)	0.0	0.0	24.0	66.0	(g)
NEW YORK POWER AUTHORITY	52.2	(f)	1.8	0.0	0.0	337.2	0.0	884.3	42.8	0.0	155.2			1,473.4	
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	0.0			2,288.6	
NATIONAL GRID WESTERN, CENTRAL & EASTERN	4,137.6	24.0	0.0	0.0	498.4	20.2	687.8	0.4	0.0	0.0				5,368.4	
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	248.0	27.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				275.6	
NEW YORK TRANSCO, LLC							11.8							11.8	
TOTALS BY kV CLASS (c)	6,157.4	65.0	352.9	382.9		1,077.1	20.2	2,649.4	241.1	5.3	155.2	24.0	66.0	11,196.5	(c)

TOTAL OVERHEAD = 10,397.3 (c)
 TOTAL UNDERGROUND = 799.2 (c)
 TOTAL = 11,196.5 (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, 2020). Projects that were placed in-service since the publication of the 2019 *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	Year	Nominal Voltage In kV		# of ckt	Thermal Ratings (4)		Project Description / Conductor Size	Class Year / Type of Construction	
						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)	New Scotland, Astoria Annex 345kV	333	W	2021	320	320	1	1000 MW	1000 MW	-/+ 320kV Bipolar HVDC cable	TBD
[458],15	Transmission Developers Inc.	Hertel 735kV (Quebec)	Astoria Annex 345kV	333	W	2022	320	320	1	1000 MW	1000 MW	-/+ 320kV Bipolar HVDC cable	2019
TIP Projects (49) (Included in FERC 745 Base Case)													
[430]	Empire State Connector Corp.	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	W	2023	230	230	1	1105	1284	AC Transmission Project Segment A	
556	NGRID	Porter	Rotterdam	-72.0	W	2023	230	230	1	1105	1284	AC Transmission Project Segment A	
556	NGRID	Edic	New Scotland	-83.5	W	2023	345	345	1	2228	2718	AC Transmission Project Segment A	
556	NAT/NYPA/NGRID	Edic	Rotterdam	69.0	W	2023	345	345	1	2227	2718	AC Transmission Project Segment A	
556	NAT/NYPA	Rotterdam	Princetown	5.0	W	2023	345	345	1	3379	3680	AC Transmission Project Segment A	
556	NAT/NYPA	Edic	Princetown	66.8	W	2023	345	345	2	3379	3680	AC Transmission Project Segment A	
556	NAT/NYPA	Princetown	New Scotland	19.5	W	2023	345	345	2	3379	3680	AC Transmission Project Segment A	
556	NGRID	Princetown	New Scotland	19.5	W	2023	345	345	1	2227	2718	AC Transmission Project Segment A	
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	Pleasant Valley	54.2	W	2023	345	345	1	3862	4103	AC Transmission Project Segment B	
543	New York Transco	Knickerbocker	Knickerbocker	series capacitor	W	2023	345	345	1	3862	4103	AC Transmission Project Segment B	
543	NGRID	Knickerbocker	New Scotland	12.4	W	2023	345	345	1	2381	3099	AC Transmission Project Segment B	
543	NGRID	Knickerbocker	Alps	18.1	W	2023	345	345	1	2552	3134	AC Transmission Project Segment B	
543	New York Transco	Shoemaker	Sugarloaf	12.0	W	2023	138	138	1	1975	unkn	AC Transmission Project Segment B	
543	New York Transco	Shoemaker, Middle	Sugarloaf, Chester	12.0	W	2023	138	138	1	1975	unkn	AC Transmission Project Segment B	
Firm Plans (5) (Included in FERC 745 Base Case)													
	CHGE	North Chelsea	North Chelsea	xfrm	S	2020	115/69	115/69	1	564	728	Replace Transformer 1	-
	CHGE	Fishkill Plains	East Fishkill	2.05	S	2020	115	115	1	995	1218	1-1033.5 ACSR	OH
	CHGE	North Catskill	North Catskill	xfrm	W	2020	115/69	115/69	2	560	726	Replace Transformer 4 & 5	-
14	CHGE	Hurley Avenue	Leeds	Static synchronous series compensator	S	2021	345	345	1	2336	2866	21% Compensation	-
11	CHGE	St. Pool	High Falls	5.61	W	2022	115	115	1	1010	1245	1-795 ACSR	OH
11	CHGE	High Falls	Kerhonkson	10.03	W	2022	115	115	1	1010	1245	1-795 ACSR	OH
11	CHGE	Modena	Galeville	4.62	W	2022	115	115	1	1010	1245	1-795 ACSR	OH
11	CHGE	Galeville	Kerhonkson	8.96	W	2022	115	115	1	1010	1245	1-795 ACSR	OH
	CHGE	Hurley Ave	Saugerties	11.40	W	2022	69	115	1	1114	1359	1-795 ACSR	OH
	CHGE	Kerhonkson	Kerhonkson	xfrm	W	2022	115/69	115/69	1	564	728	Add Transformer 3	-
	CHGE	Kerhonkson	Kerhonkson	xfrm	W	2022	115/69	115/69	1	564	728	Add Transformer 4	-
	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
	CHGE	Saugerties	North Catskill	12.46	W	2023	69	115	1	1114	1359	1-795 ACSR	OH
3	ConEd	Jamaica	Jamaica	Reconfiguration	In-Service	2019	138	138		N/A	N/A	Reconfiguration	-
	ConEd	East 13th Street	East 13th Street	xfrm	In-Service	2019	345	345		N/A	N/A	Replacing xfrm 10 and xfrm 11	-
	ConEd	Gowanus	Gowanus	xfrm	In-Service	2019	345	345		N/A	N/A	Replacing xfrm T2	-
	ConEd	East 13th Street	East 13th Street	Reconfiguration	In-Service	2019	345	345		N/A	N/A	Reconfiguration (xfrm 10 -xfrm 11)	-
	ConEd	Rainey	Corona	xfrm/Phase shifter	In-Service	2019	345/138	345/138	1	268 MVA	320 MVA	xfrm/Phase shifter	UG
	ConEd	Buchanan North	Buchanan North	Reconfiguration	S	2020	345	345		N/A	N/A	Reconfiguration (bus work related to decommissioning of Indain Point 2)	-
	ConEd	Hudson Ave East	New Vinegar Hill Distribution Switching Station	xmrs/PARs/Feeders	S	2024	138/27	138/27		N/A	N/A	New Hudson Ave Distribution Switching Station	UG
	ConEd	Farragut	Farragut	Reconfiguration	S	2024	138	138		N/A	N/A	Install PASS Breaker	-

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/s	Thermal Ratings (4)		Project Description / Conductor Size	Class Year / Type of Construction
					Prior to (2)	Year	Operating	Design		Summer	Winter		
6/7	LIPA	West Hempstead	East Garden City	-2.92	In-Service	2019	69	69	1	1158	1245	477 ACSS	OH
6/7	LIPA	West Hempstead	Hempstead	0.97	In-Service	2019	69	69	1	1158	1245	477 ACSS	OH
6/7	LIPA	Hempstead	East Garden City	1.95	In-Service	2019	69	69	1	1158	1245	477 ACSS	OH
6/7	LIPA	Pilgrim	West Bus	-11.86	In-Service	2019	138	138	1	2087	2565	2493 ACAR	OH
6/7	LIPA	West Bus	Kings	8.25	In-Service	2019	138	138	1	2087	2565	2493 ACAR	OH
6/7	LIPA	Pilgrim	Kings	4.81	In-Service	2019	138	138	1	2087	2565	2493 ACAR	OH
	LIPA	Far Rockaway	Far Rockaway	Reconfiguration	In-Service	2019	34.5	34.5		N/A	N/A	Reconfigure 34.5 kV switchgear	-
	LIPA	Elwood	Elwood	Breaker	In-Service	2019	138	138		N/A	N/A	Install double bus tie - Operate Normally Open	-
7	LIPA	Canal	Southampton	5.20	In-Service	2019	69	69	1	1107	1169	2500 kcmil XLPE CU	UG
	LIPA	Deer Park	Deer Park	-	W	2019	69	69	1	N/A	N/A	Install 27 MVAR Cap Bank	-
	LIPA	MacArthur	MacArthur	-	W	2019	69	69	1	N/A	N/A	Install 27 MVAR Cap Bank	-
6/7	LIPA	Meadowbrook	East Garden City	-3.11	S	2020	69	69	1	458	601	4/0 CU	OH+UG
6/7	LIPA	East Garden City	Lindbergh	2.50	S	2020	69	69	1	575	601	750 kcmil CU	OH+UG
6/7	LIPA	Lindbergh	Meadowbrook	2.11	S	2020	69	69	1	458	601	4/0 CU	OH+UG
6/7	LIPA	Elmont	Floral Park	-1.59	S	2020	34.5	34.5	1	644	816	477 AL	OH+UG
6/7	LIPA	Elmont	Belmont	1.82	S	2020	34.5	34.5	1	342	457	2/0 CU	OH+UG
6/7	LIPA	Belmont	Floral Park	2.04	S	2020	34.5	34.5	1	644	816	477 AL	OH+UG
	LIPA	Valley Stream	East Garden City	7.36	S	2021	138	138	1	1171	1171	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
	NGRID	Golah	Golah	Cap Bank	In-Service	2019	115	115	1	18MVAR	18MVAR	Capacitor Bank	-
7	NGRID	Falls Park	Schodack(NG)	17.33	In-Service	2019	115	115	1	186 MVA	227 MVA	Loop for NYSEG Sub Will Reconfigure NG Line #14 Into Two New Lines	OH
7	NGRID	Falls Park	Churchtown	9.41	In-Service	2019	115	115	1	175 MVA	206 MVA	Loop for NYSEG Sub Will Reconfigure NG Line #14 Into Two New Lines	OH
	NGRID	Batavia	Batavia	Cap Bank	In-Service	2019	115	115	1	30MVAR	30MVAR	Second Capacitor Bank	-
7	NGRID	Battenkill	Eastover Road	-22.72	In-Service	2019	115	115	1	937	1141	New Schaghticoke Switching Station	OH
7	NGRID	Battenkill	Schaghticoke (New Station)	14.31	In-Service	2019	115	115	1	937	1141	New Schaghticoke Switching Station	OH
7	NGRID	Schaghticoke (New Station)	Eastover Road	8.41	In-Service	2019	115	115	1	937	1141	New Schaghticoke Switching Station	OH
7	NGRID	Mohican	Luther Forest	-34.47	In-Service	2019	115	115	1	937	1141	New Schaghticoke Switching Station	OH
7	NGRID	Mohican	Schaghticoke (New Station)	28.13	In-Service	2019	115	115	1	937	1141	New Schaghticoke Switching Station	OH
	NGRID	Ohio St	Ohio St	-	In-Service	2019	115	115		N/A	N/A	New Distribution Station at Ohio Street	-
6	NGRID	Albany Steam	Greenbush	6.14	In-Service	2019	115	115	2	1190	1527	Reconductor Albany - Greenbush 115kV lines 1 & 2	-
7	NGRID	Schodack	Churchtown	-26.74	In-Service	2019	115	115	1	937	1141	Line removal tapped by Falls Park Project	OH
	NGRID	Sodeman Rd	Sodeman Rd	-	In-Service	2019	115	115		N/A	N/A	New Distribution Station at Sodeman Road	-
	NGRID	Dewitt	Dewitt	-	In-Service	2019	115	115		N/A	N/A	New Distribution Station at Dewitt	-
7	NGRID	Luther Forest	Schaghticoke (New Station)	6.34	In-Service	2019	115	115	1	1280	1563	New Schaghticoke Switching Station	OH
	NGRID	Seneca	Seneca	-	In-Service	2019	115/22	115/22	-	50MVA	50MVA	Damage/Failure on TR2	-
	NGRID	Mortimer	Mortimer	Reconfiguration	In-Service	2019	115	115	1	N/A	N/A	Reconfiguration of Station	-
	NGRID	Rosa Rd	Rosa Rd	-	S	2020	115	115		N/A	N/A	Install 35.2MVAR Cap Bank at Rosa Rd	-
6	NGRID	Rotterdam	Curry Rd	7	S	2020	115	115	1	808	856	Replace 7.0 miles of mainly 4/0 Cu conductor with 795kcmil ACSR 26/7	OH
	NGRID	Elm St	Elm St	xfmr	S	2020	230/23	230/23	1	118MVA	133MVA	Add a fourth 230/23kV transformer	-
	NGRID	West Ashville	West Ashville	-	S	2020	115	115		N/A	N/A	New Distribution Station at West Ashville	-
7	NGRID	Spier	Rotterdam (#2)	-32.74	S	2020	115	115	1	1168	1416	New Lasher Rd Switching Station	OH
7	NGRID	Spier	Lasher Rd (New Station) (#2)	21.69	S	2020	115	115	1	1168	1416	New Lasher Rd Switching Station	OH
7	NGRID	Lasher Rd (New Station)	Rotterdam	11.05	S	2020	115	115	1	2080	2392	New Lasher Rd Switching Station	OH
7	NGRID	Spier	Luther Forest (#302)	-34.21	S	2020	115	115	1	916	1070	New Lasher Rd Switching Station	OH
7	NGRID	Spier	Lasher Rd (New Station) (#302)	21.72	S	2020	115	115	1	916	1118	New Lasher Rd Switching Station	OH
	NGRID	Lasher Rd (New Station)	Luther Forest	12.49	S	2020	115	115	1	990	1070	New Lasher Rd Switching Station	OH
	NGRID	Rotterdam	Rotterdam	-	S	2020	115	115	2	N/A	N/A	Install Series Reactors at Rotterdam Station on lines 17 & 19	-
	NGRID	Huntley	Lockport	6.9	S	2020	115	115	2	1303	1380	Replace 6.9 miles of 36 and 37 lines	OH
	NGRID	Two Mile Creek	Two Mile Creek	-	S	2020	115	115		N/A	N/A	New Distribution Station at Two Mile Creek	-
	NGRID	Maple Ave	Maple Ave	-	S	2020	115	115		N/A	N/A	New Distribution Station at Maple Ave	-
	NGRID	Randall Rd	Randall Rd	-	S	2020	115	115		N/A	N/A	New Distribution Station at Randall Road	-
6	NGRID	GE	Geres Lock	7.14	S	2020	115	115	1	785	955	Reconductoring 4/0CU & 336 ACSR to 477 ACCR (Line #8)	-
	NGRID	Gardenville 115kV	Gardenville 115kV	-	S	2020	-	-	-	-	-	Rebuild of Gardenville 115kV Station to full breaker and a half	-
	NGRID	Rotterdam	Woodlawn	7	S	2020	115	115	1	-	-	Replace 7.0 miles of mainly 4/0 Cu conductor with 795kcmil ACSR 26/7	OH
	NGRID	Gardenville 230kV	Gardenville 115kV	xfmr	S	2020	230/115	230/115	-	347 MVA	422 MVA	Replacement of 230/115kV TB#4 stepdown with larger unit	-
	NGRID	Oswego	Oswego	-	W	2020	115	115		N/A	N/A	Rebuild of Oswego 115kV Station	-
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	230	230	-	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	New Bethlehem	New Bethlehem	-	S	2021	115	115		N/A	N/A	New Bethlehem 115/13.2kV station	-
	NGRID	New Cicero	New Cicero	-	S	2021	115	115		N/A	N/A	New Distribution Station at New Cicero	-
	NGRID	Mountain	Lockport	0.08	S	2021	115	115	2	174MVA	199MVA	Mountain-Lockport 103/104 Bypass	OH
	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)	-

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		
	NGRID	Niagara	Packard	3.4	W	2021	115	115	1	344MVA	449MVA	Replace 3.4 miles of 192 line	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	xmfr	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	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	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	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	
6	NGRID	Dunkirk	Dunkirk	-	S	2024	115	115	2	N/A	N/A	Rebuild of Dunkirk 115kV Station	
	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	Oswego	Oswego	-	S	2025	345	345	-	N/A	N/A	Rebuild of Oswego 345kV Station	
	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		
781	NYPA	Fraser Annex	Fraser Annex	SSR Detection	S	2020	345	345	1	1793 MVA	1793 MVA	MSSC SSR Detection Project	
7	NYPA	Niagara	Rochester	-70.20	W	2020	345	345	1	2177	2662	2-795 ACSR	
339/7	NYPA	Somerset	Rochester	-44.00	W	2020	345	345	1	2177	2662	2-795 ACSR	
339/7	NYPA	Niagara	Station 255 (New Station)	66.40	W	2020	345	345	1	2177	2662	2-795 ACSR	
339/7	NYPA	Somerset	Station 255 (New Station)	40.20	W	2020	345	345	1	2177	2662	2-795 ACSR	
339/7	NYPA	Station 255 (New Station)	Rochester	3.80	W	2020	345	345	2	2177	2662	2-795 ACSR	
NA	NYPA	Niagara 230 kV	Niagara 230 kV	Breaker	W	2020	230	230	1	N/A	N/A	Add a new breaker	
NA	NYPA	Niagara 230 kV	Niagara 115 kV	Autotransformer	S	2020	230	115	1	240 MVA	240 MVA	Replace Niagara AT #1	
NA	NYPA	Astoria 138 kV	Astoria 13.8 kV	Astoria CC GSU Refurbishment	W	2020	138	18	1	234	234	Astoria CC GSU Refurbishment	
566/6	NYPA	Moses	Adirondack	78	S	2023	230	345	2	1088	1329	Replace 78 miles of both Moses-Adirondack 1&2	
7/8	NYSEG	Wood Street	Carmel	1.34	In-Service	2019	115	115	1	261 MVA	261 MVA	477 ACSR	OH
	NYSEG	Flat Street	Flat Street	xmfr	In-Service	2019	115/34.5	115/34.5	2	40MVA	45.2MVA	Transformer #2	-
7	NYSEG	Falls Park 115/34.5kV Substation	Falls Park	xmfr	In-Service	2019	115/34.5	115/34.5	1	62 MVA	70 MVA	Tap to interconnect NG Line #14	
	NYSEG	Falls Park	Falls Park	xmfr	In-Service	2019	115/34.5	115/34.5	1	62 MVA	70 MVA	Transformer #1	-
	NYSEG	Watercure Road	Watercure Road	xmfr	W	2020	345/230	345/230	1	426 MVA	494 MVA	Transformer #2 and Station Reconfiguration	-
	NYSEG	Willet	Willet	xmfr	W	2020	115/34.5	115/34.5	1	39 MVA	44 MVA	Transformer #2	-
	NYSEG	Coddington	E. Ithaca (to Coddington)	8.07	W	2020	115	115	1	307 MVA	307 MVA	665 ACCR	OH
	NYSEG	South Perry	South Perry	xmfr	W	2022	115/34.5	115/34.5	1	59 MVA	67 MVA	Transformer #3	-
	NYSEG	South Perry	South Perry	xmfr	W	2022	230/115	230/115	1	246 MVA	291 MVA	Transformer	-
	NYSEG	Fraser	Fraser	xmfr	W	2022	345/115	345/115	1	305 MVA	364 MVA	Transformer #2 and Station Reconfiguration	-
	NYSEG	Fraser 115	Fraser 115	Rebuild	W	2022	115	115		N/A	N/A	Station Rebuild to 4 bay BAAH	-
	NYSEG	Delhi	Delhi	Removal	W	2022	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	W	2022	115	115		N/A	N/A	Station Rebuild	-
	NYSEG	Big Tree Road	Big Tree Road	Rebuild	W	2022	115	115		N/A	N/A	Station Rebuild	-
	NYSEG	Meyer	Meyer	xmfr	W	2022	115/34.5	115/34.5	2	59.2MVA	66.9MVA	Transformer #2	-
	NYSEG	Gardenville	Gardenville	xmfr	W	2023	230/115	230/115	1	316 MVA	370 MVA	NYSEG Transformer #3 and Station Reconfiguration	-
	NYSEG	Wood Street	Wood Street	xmfr	W	2023	345/115	345/115	1	327 MVA	378 MVA	Transformer #3	-
	NYSEG	Oakdale 115	Oakdale 115	Rebuild	W	2024	115	115		N/A	N/A	Complete rebuild of 115 kV to 6 bay BAAH	-
	NYSEG	Westover 115	Westover	Removal	W	2024	115	115		N/A	N/A	Remove 115 substation and terminate existing lines to Oakdale 115 (short distance)	-
	NYSEG	Oakdale 345	Oakdale 115	xmfr	W	2024	345/115	45/115/34.5	1	494MVA	527 MVA	Transformer #3 and Station Reconfiguration	-
	NYSEG	Coopers Corners	Coopers Corners	Rebuild	W	2025	115	115		N/A	N/A	Complete rebuild of 115 kV to 5 bay BAAH	-
	NYSEG	Coopers Corners	Coopers Corners	xmfr	W	2025	115/34.5	115/34.5	1	58 MVA	66 MVA	Transformer #2 and Station Reconfiguration	-
	NYSEG	Coopers Corners	Coopers Corners	xmfr	W	2025	345/115	345/115	1	232 MVA	270 MVA	Transformer #3 and Station Reconfiguration	-

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		
	O & R	West Nyack	West Nyack	Cap Bank	S	2020	138	138	1	-	-	Capacitor Bank	
	O & R	Harings Corner (RECO)	Closter (RECO)	3.20	S	2020	69	69	1	1098	1312	UG Cable	
	O & R	Ramapo	Ramapo	xmfr	S	2020	345/138	345/138	1	731	731	-	
7	O & R/ConEd	Ladentown	Buchanan	-9.5	S	2021	345	345	1	3000	3211	2-2493 ACAR	
7	O & R/ConEd	Ladentown	Lovett 345 kV Station (New Station)	5.5	S	2021	345	345	1	3000	3211	2-2493 ACAR	
7	O & R/ConEd	Lovett 345 kV Station (New Station)	Buchanan	4	S	2021	345	345	1	3000	3211	2-2493 ACAR	
	O & R	Lovett 345 kV Station (New Station)	Lovett	xmfr	S	2021	345/138	345/138	1	562 MVA	562 MVA	Transformer	
	RGE	Station 42	Station 23	Phase Shifter	In-Service	2019	115	115	1	253 MVA	253 MVA	Phase Shifter	
	RGE	Station 23	Station 23	xmfr	In-Service	2019	15/11.5/1115/11.5/11.2	2	75 MVA	84 MVA	84 MVA	Transformer	-
	RGE	Station 23	Station 23	xmfr	W	2019	115/34.5	115/34.5	2	75 MVA	84 MVA	Transformer	-
	RGE	Station 122-Pannell-PC1	Station 122-Pannell-PC1 and PC2		S	2020	345	345	1	1314 MVA-LTE	1314 MVA-LTE	Relay Replacement	
	RGE	Station 262	Station 23	1.46	W	2020	115	115	1	2008	2008	Underground Cable	
	RGE	Station 33	Station 262	2.97	W	2020	115	115	1	2008	2008	Underground Cable	
	RGE	Station 262	Station 262	xmfr	W	2020	115/34.5	115/34.5	1	58.8MVA	58.8MVA	Transformer	-
	RGE	Station 255 (New Station)	Rochester	3.80	W	2020	345	345	1	2177	2662	2-795 ACSR	OH
	RGE	Station 255 (New Station)	Station 255 (New Station)	xmfr	W	2020	345/115	345/115	1	400 MVA	450 MVA	Transformer	-
	RGE	Station 255 (New Station)	Station 255 (New Station)	xmfr	W	2020	345/115	345/115	2	400 MVA	450 MVA	Transformer	-
	RGE	Station 255 (New Station)	Station 418	9.60	W	2020	115	115	1	1506	1807	New 115kV Line	OH
	RGE	Station 255 (New Station)	Station 23	11.10	W	2020	115	115	1	1506	1807	New 115kV Line	OH+UG
7	RGE	Station 168	Mortimer (NG Trunk # 2)	26.4	W	2022	115	115	1	145 MVA	176 MVA	Station 168 Reinforcement Project	OH
7	RGE	Station 168	Eldridge (NG Trunk # 6)	45.5	W	2022	115	115	1	145 MVA	176 MVA	Station 168 Reinforcement Project	OH
	RGE	Station 127	Station 127	xmfr	W	2022	115/34.5	115/34.5	1	75MVA	75MVA	Transformer #2	-
	RGE	Station 418	Station 48	7.6	W	2024	115	115	1	175 MVA	225 MVA	New 115kV Line	OH
	RGE	Station 82	Station 251 (Upgrade Line #902)		W	2024	115	115	1	400MVA	400MVA	Line Upgrade	
	RGE	Mortimer	Station 251 (Upgrade Line #901)	1.00	W	2024	115	115	1	400MVA	400MVA	Line Upgrade	
Non-Firm Plans (not included in Base Cases)													
9	LIPA	MacArthur	-	Cap Bank	S	2020	69	69	1	27MVAR	27 MVAR	Capacitor bank	
13	LIPA	Riverhead	Wildwood	10.63	S	2021	138	138	1	1399	1709	1192ACSR	
	LIPA	Riverhead	Canal	16.49	S	2021	138	138	1	1000	1110	2368 KCMIL (1200 mm ²) Copper XLPE	
	LIPA	Deer Park	-	Cap Bank	S	2021	69	69	1	27MVAR	27 MVAR	Capacitor bank	
	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	
6	LIPA	Syosset	Shore Rd	Phase Shifter	S	2026	138	138	1	TBD	TBD	Phase Shifter	
	NGRID	Mohican	Butler	3.50	S	2019	115	115	1	TBD	TBD	Replace 3.5 miles of conductor w/min 336.4 ACSR	
	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 9.96mi of 4/0 Cu + 336.4 ACSR (of 30.79mi total) to 1192.5 ACSR	
760	NYP&A	Moses 230 kV	Adirondack 230 kV	Series Compensation	S	2021	230	230	-	113.2kV	113.2kV	Voltage Source Series Compensation	
	NYP&A	St. Lawrence 230kV	St. Lawrence 115kV	xmfr	S	2021	230/115	230/115	1	TBD	TBD	Replacement of St. Lawrence AutoTransformer #2	
	NYP&A	Plattsburg 230 kV	Plattsburg 115 kV	xmfr	W	2021	230/115	230/115	1	249	288	Refurbishment of Plattsburgh Auto Transformer #1	
	NYP&A	Astoria Annex	Astoria Annex	Shunt Reactor	W	2021	345	345	2	TBD	TBD		
	NYP&A	Niagara 345 kV	Niagara 230 kV	xmfr	W	2022	345/230	345/230	1	TBD	TBD	Replacement of Niagara AutoTransformer #3	
	NYP&A	Niagara 345 kV	Niagara 230 kV	xmfr	W	2023	345/230	345/230	1	TBD	TBD	Replacement of Niagara AutoTransformer #5	
	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	Pocatiello	2.00	W	2023	69	69	1	1604	1723	795 ACSS	
6	O & R	Sugarloaf	Shoemaker	12.00	W	2023	69	138	2	1062	1141	397 ACSS	
	O & R	Montvale (RECO)	-	Cap Bank	S	2024	69	69	1	32 MVAR	32 MVAR	Capacitor bank	
	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	

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	115 kV operation as opposed to previous 46 kV operation
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. The Operating Committee (OC) approved the Q#631 NS Power Express System Reliability Impact Study (SRIS) report as presented and discussed at the January 17, 2019 OC meeting, provided however, Q#458 CH Interconnection (the SRIS for which was approved by the OC on February 9, 2017) and Q#631 NS Power Express may not enter the same Class Year Interconnection Facilities Study unless Q#631 has a non-material modification specifying that it is not an alternative to Q#458 CH Interconnection.
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.



NEW YORK INDEPENDENT SYSTEM OPERATOR

10 Krey Boulevard, Rensselaer, New York 12144
518.356.6000 ■ www.nyiso.com



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