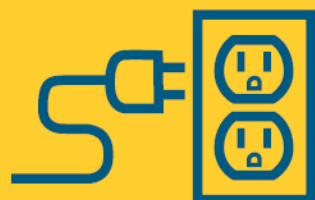
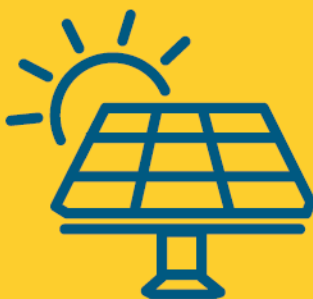


2018 Load & Capacity Data

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

“Gold Book”



2018 Load & Capacity Data Report

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Released April 2018

NEW YORK INDEPENDENT SYSTEM OPERATOR

**2018
LOAD & CAPACITY DATA**

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OVERVIEW

This report presents the New York Independent System Operator, Inc. (NYISO) load and capacity data for the years 2018-2028. Energy and peak forecasts are provided through 2038. The information reported in this document is current as of March 1st, 2018 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, energy usage, and energy efficiency 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, topline forecast (formerly referred to as econometric), and historical data on annual energy and seasonal peak demand in the New York Control Area (NYCA).¹ The baseline forecasts, which report the expected NYCA load, include the impacts of energy efficiency programs, building codes and standards, distributed energy resources, and behind-the-meter solar photovoltaic power (solar PV). The topline forecast shows what the expected NYCA load would be if not for these impacts, with the impacts listed added back onto the baseline forecast. Both the baseline and the topline forecasts include the expected impacts of electric vehicle usage. All forecasts have been extended through 2038 for studies that use the longer period.

The NYCA baseline summer peak demand forecast has declined compared to last year, while the NYCA baseline energy forecast has increased compared to last year, as can be seen in the following table:

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

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	Average Annual Growth Rates			
	2017 Gold Book Forecast	2018 Gold Book Forecast		
	2017-27	2018-28	2028-38	Cumulative 2018-38
Baseline Peak Demand	0.07%	-0.13%	0.19%	0.03%
Baseline Energy Usage	-0.23%	-0.14%	0.13%	-0.01%

The energy growth rate over the first ten years in the 2018 forecast is slightly lower than the rate published in the 2017 *Gold Book*. The lower forecasted growth in energy usage can largely be attributed to the increasing impact of energy efficiency initiatives and the growth of distributed behind-the-meter energy resources. Much of these impacts are due to New York State’s energy policy programs such as the Clean Energy Fund (CEF), the NY-SUN Initiative, and other programs developed as part of the Reforming the Energy Vision (REV) proceeding.

The NYISO employs a multi-stage process in developing 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 GDP, households, population, and commercial and industrial employment. In the second stage, the incremental impacts of behind-the-meter solar PV and distributed generation are deducted from the forecast, and the incremental impacts of

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electric vehicle usage are added to the forecast. In the final stage, the NYISO aggregates load forecasts by Load Zone (referenced in the rest of this document as “Zone”).

These 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 topline 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 2017 *Gold Book* in April 2017, there has been a reduction of 62 megawatts (MW) of summer capacity that has been deactivated. Over the same time period, there has been an increase of 350 MW of summer capacity due to new additions and ratings changes. As a result, net summer capacity as of March 1st, 2018 is 39,066 MW, an increase of 288 MW. These changes are summarized in Section II.

These changes are based on information received from certain generation owners who provided status changes since the 2017 *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 2018 is 42,257 MW, which is an increase of 450 MW from Summer 2017. This is due to changes in existing NYCA generating capacity, changes in Special Case Resources (SCR), and changes in net purchases of capacity from other control areas. The total resource capability for 2018 includes:

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- Existing NYCA generating capacity (39,066 MW);
- SCR (1,219 MW);
- Increases in net generating capacity (347 MW);
- Net long-term purchases and sales with neighboring control areas (1,625 MW).

The existing NYCA generating capability includes renewable resources totaling 6,373 MW. This total includes wind generation (1,739 MW)², hydro (4,252 MW), large-scale solar PV (32 MW), and other renewable resources (350 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 2017. Section III contains additional information on the generation resources by zone, fuel type and generation type.

Beyond 2018, the resource capability in the NYCA will be affected by additions of new generation, re-rates of currently operating units, and the deactivation of existing generators.

Table IV-1 shows the proposed facilities that have completed, are enrolled in, or are candidates to enter a Class Year Interconnection Facilities Study, or have met other comparable milestones. Of the total reported, these generators consist of:

- 5,038 MW of natural gas or dual-fuel projects;
- 2,488 MW of wind turbine projects;
- 64 MW of non-wind renewable energy projects; and
- 20 MW of energy storage.

² This value represents the amount of wind resources that participate in the NYISO's capacity markets.

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

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Table IV-1 also identifies facilities that are only requesting CRIS in the current Class Year Study (*i.e.*, existing facilities with CRIS that are requesting additional CRIS or facilities not subject to the NYISO's interconnection procedures that are requesting CRIS). The requested CRIS for these facilities totals 219 MW.

Tables IV-2 through IV-4 report on units that have planned uprates in capacity and units that are no longer in operation. Table IV-5 lists existing generators with 2,470 MW of summer capacity that have provided deactivation notices with proposed deactivation dates by 2021.

Section V provides a summary of NYCA load and capacity from 2017 through 2028. Information for Tables V-2a and V-2b is obtained from Tables I-1, III-2, IV-1 through IV-5, 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 2017 *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.

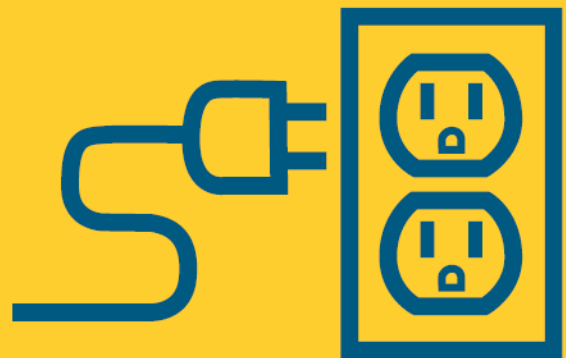
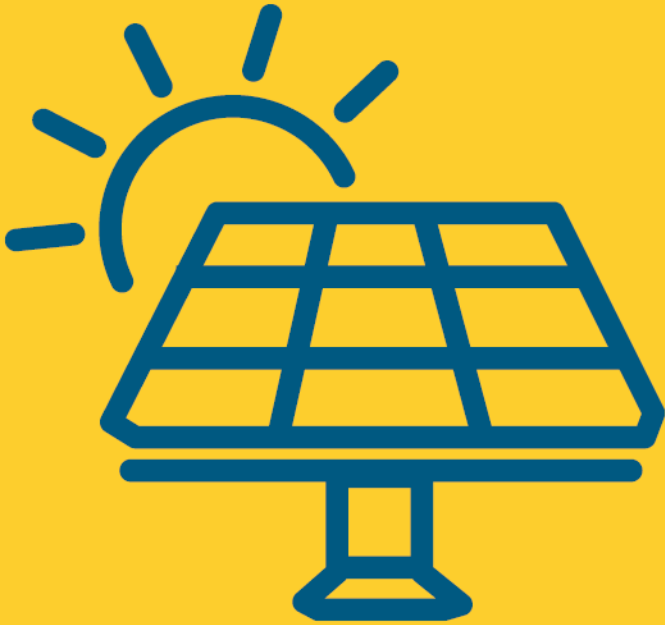
In 2017, the NYISO Board of Directors selected the *NextEra Energy Transmission New York - Empire State Line Proposal 1* as the more efficient or cost effective transmission solution to satisfy the Western New York Public Policy Transmission Need with an expected in-service date of June 2022.

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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. Forecasts are now reported over a 20-year horizon. Historical load values reflect the actual weather conditions experienced, while forecasted load values assume normal weather conditions. The baseline forecasts show the expected NYCA and zonal load, 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). Both the baseline and the topline forecasts include the expected impacts of electric vehicle usage (Table I-11).

The figures listed in Table I-8 are separated into estimated historical impacts, and forecasted impacts from programs and activities expected to occur from 2018 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 topline forecasts (Table I-12) add to the baseline forecasts the impacts listed in Tables I-8 (energy efficiency and codes & standards), I-9 (solar PV), and I-10 (non-solar distributed generation) to show what the load would be if not for these impacts.

The actual impact of solar PV varies considerably by hour of day. The hour of the actual NYCA peak varies yearly. The forecast of solar PV-related reductions in summer peak reported in Table I-9 assumes that the NYCA peak occurs from 4 p.m. to 5 p.m. EDT in late July. The forecast of solar PV-related reductions in winter peak is zero because the sun sets before the assumed peak hour of 6 p.m. EST.

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. Table I-13 shows the projected Emergency Demand Response Program (EDRP) enrollment. Table I-14 reports the date and hour of the NYCA system peak for the Summer and Winter Capability Periods from 1997 forward.

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Table I-1: NYCA Baseline Energy and Demand Forecasts

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

2018 Long Term Forecast¹ - 2018 to 2038

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
2017		156,795		2017		32,914		2017-18		24,265	
2018	154,325	156,120	157,915	2018	30,256	32,904	34,744	2018-19	22,853	24,269	25,884
2019	154,858	156,649	158,440	2019	30,215	32,857	34,696	2019-20	22,726	24,135	25,742
2020	153,789	155,567	157,345	2020	30,002	32,629	34,454	2020-21	22,549	23,948	25,542
2021	152,802	154,567	156,332	2021	29,841	32,451	34,266	2021-22	22,425	23,817	25,401
2022	152,139	153,898	155,657	2022	29,737	32,339	34,148	2022-23	22,364	23,751	25,334
2023	151,839	153,593	155,347	2023	29,686	32,284	34,089	2023-24	22,344	23,730	25,310
2024	151,722	153,476	155,230	2024	29,679	32,276	34,080	2024-25	22,345	23,728	25,308
2025	151,701	153,454	155,207	2025	29,701	32,299	34,104	2025-26	22,356	23,742	25,323
2026	151,750	153,504	155,258	2026	29,740	32,343	34,151	2026-27	22,375	23,762	25,343
2027	151,932	153,691	155,450	2027	29,794	32,403	34,214	2027-28	22,398	23,786	25,368
2028	152,165	153,926	155,687	2028	29,856	32,469	34,283	2028-29	22,422	23,812	25,395
2029	152,371	154,134	155,897	2029	29,920	32,538	34,356	2029-30	22,445	23,837	25,422
2030	152,489	154,253	156,017	2030	29,972	32,598	34,417	2030-31	22,473	23,864	25,451
2031	152,578	154,344	156,110	2031	30,021	32,651	34,475	2031-32	22,498	23,891	25,480
2032	152,653	154,421	156,189	2032	30,069	32,703	34,530	2032-33	22,526	23,923	25,514
2033	152,772	154,541	156,310	2033	30,114	32,751	34,580	2033-34	22,552	23,949	25,542
2034	152,940	154,711	156,482	2034	30,168	32,810	34,643	2034-35	22,580	23,979	25,572
2035	153,198	154,972	156,746	2035	30,227	32,873	34,709	2035-36	22,602	24,002	25,595
2036	153,485	155,264	157,043	2036	30,287	32,940	34,781	2036-37	22,629	24,029	25,624
2037	153,806	155,589	157,372	2037	30,351	33,009	34,853	2037-38	22,660	24,060	25,658
2038	154,137	155,924	157,711	2038	30,419	33,083	34,930	2038-39	22,684	24,087	25,685

Average Annual Growth - Percent

Period	Low	Baseline	High	Period	Low	Baseline	High	Period	Low	Baseline	High
2018-23	-0.32%	-0.32%	-0.33%	2018-23	-0.38%	-0.38%	-0.38%	2018-23	-0.45%	-0.44%	-0.44%
2023-28	0.04%	0.04%	0.04%	2023-28	0.11%	0.11%	0.11%	2023-28	0.07%	0.07%	0.07%
2028-33	0.08%	0.08%	0.08%	2028-33	0.17%	0.17%	0.17%	2028-33	0.12%	0.12%	0.12%
2033-38	0.18%	0.18%	0.18%	2033-38	0.20%	0.20%	0.20%	2033-38	0.12%	0.12%	0.11%
2018-28	-0.14%	-0.14%	-0.14%	2018-28	-0.13%	-0.13%	-0.13%	2018-28	-0.19%	-0.19%	-0.19%
2028-38	0.13%	0.13%	0.13%	2028-38	0.19%	0.19%	0.19%	2028-38	0.12%	0.12%	0.11%
2018-38	-0.01%	-0.01%	-0.01%	2018-38	0.03%	0.03%	0.03%	2018-38	-0.04%	-0.04%	-0.04%

Notes

1. All results in the Section I tables include transmission & distribution losses.
2. 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.
3. The low and high forecasts are at the 10th and 90th percentiles for extreme weather conditions, respectively.
4. Energy and Peak figures for 2017 are weather-normalized. The values for the actual annual energy, summer peak, and winter peak are reported in Table I-4a.
5. The 2018 NYCA summer peak forecast is the same as the 2018 ICAP forecast.

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Table I-2: Baseline Annual Energy, Historical and 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
2008	15,835	10,089	16,721	6,734	7,856	11,595	10,607	2,935	5,944	54,835	22,461	165,612
2009	15,149	9,860	15,949	5,140	7,893	10,991	10,189	2,917	5,700	53,100	21,892	158,780
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	15,211	9,841	15,894	4,320	7,681	11,883	9,653	2,928	5,916	52,242	20,551	156,120
2019	15,135	9,776	15,773	5,990	7,605	11,777	9,561	2,913	5,881	51,860	20,378	156,649
2020	15,052	9,709	15,648	6,049	7,529	11,667	9,469	2,899	5,847	51,484	20,214	155,567
2021	14,972	9,648	15,533	6,039	7,460	11,569	9,382	2,887	5,820	51,173	20,084	154,567
2022	14,908	9,605	15,444	6,031	7,408	11,496	9,310	2,882	5,808	50,992	20,014	153,898
2023	14,869	9,582	15,386	6,026	7,374	11,451	9,259	2,884	5,811	50,942	20,009	153,593
2024	14,842	9,570	15,346	6,022	7,349	11,418	9,222	2,889	5,823	50,954	20,041	153,476
2025	14,821	9,565	15,315	6,019	7,330	11,393	9,194	2,896	5,838	50,989	20,094	153,454
2026	14,806	9,566	15,292	6,017	7,315	11,373	9,174	2,904	5,855	51,043	20,159	153,504
2027	14,803	9,575	15,284	6,016	7,307	11,364	9,165	2,915	5,878	51,143	20,241	153,691
2028	14,805	9,588	15,281	6,016	7,303	11,360	9,162	2,926	5,901	51,259	20,325	153,926
2029	14,807	9,601	15,279	6,015	7,299	11,356	9,161	2,936	5,923	51,361	20,396	154,134
2030	14,803	9,610	15,271	6,014	7,292	11,347	9,158	2,945	5,939	51,426	20,448	154,253
2031	14,799	9,618	15,263	6,012	7,286	11,338	9,157	2,952	5,953	51,476	20,490	154,344
2032	14,794	9,625	15,255	6,011	7,280	11,328	9,156	2,958	5,965	51,522	20,527	154,421
2033	14,793	9,633	15,252	6,010	7,277	11,322	9,158	2,963	5,978	51,587	20,568	154,541
2034	14,795	9,644	15,253	6,010	7,275	11,318	9,165	2,970	5,993	51,674	20,614	154,711
2035	14,806	9,659	15,264	6,011	7,279	11,321	9,177	2,977	6,011	51,797	20,670	154,972
2036	14,819	9,675	15,277	6,011	7,284	11,326	9,193	2,985	6,030	51,936	20,728	155,264
2037	14,834	9,692	15,294	6,012	7,291	11,332	9,211	2,993	6,050	52,091	20,789	155,589
2038	14,849	9,710	15,311	6,013	7,299	11,339	9,232	3,000	6,070	52,251	20,850	155,924

Note: Historical values reflect actual experienced weather conditions. Forecasted values assume normal weather conditions.

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Table I-3a: Baseline Summer Coincident Peak Demand, Historical and 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
2008	2,611	2,001	2,939	801	1,268	2,270	2,277	657	1,399	10,979	5,231	32,433
2009	2,595	1,939	2,780	536	1,351	2,181	2,159	596	1,279	10,366	5,063	30,845
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	2,801	2,014	2,841	521	1,308	2,332	2,233	674	1,455	11,403	5,322	32,904
2019	2,784	2,001	2,816	719	1,293	2,311	2,205	671	1,448	11,339	5,270	32,857
2020	2,769	1,990	2,792	717	1,279	2,292	2,179	668	1,442	11,276	5,225	32,629
2021	2,757	1,981	2,772	715	1,267	2,277	2,157	666	1,437	11,229	5,193	32,451
2022	2,748	1,974	2,757	714	1,259	2,265	2,141	666	1,435	11,202	5,178	32,339
2023	2,742	1,971	2,747	713	1,253	2,258	2,129	666	1,435	11,194	5,176	32,284
2024	2,739	1,970	2,741	713	1,249	2,254	2,121	667	1,437	11,201	5,184	32,276
2025	2,739	1,972	2,738	712	1,247	2,252	2,117	668	1,440	11,216	5,198	32,299
2026	2,740	1,974	2,738	712	1,246	2,252	2,115	670	1,443	11,238	5,215	32,343
2027	2,743	1,978	2,739	712	1,246	2,253	2,114	672	1,447	11,265	5,234	32,403
2028	2,746	1,982	2,741	712	1,246	2,255	2,115	674	1,451	11,294	5,253	32,469
2029	2,750	1,987	2,744	712	1,247	2,257	2,117	676	1,455	11,322	5,271	32,538
2030	2,754	1,991	2,747	712	1,248	2,259	2,119	677	1,458	11,346	5,287	32,598
2031	2,758	1,995	2,750	712	1,249	2,260	2,121	679	1,460	11,367	5,300	32,651
2032	2,761	1,999	2,752	712	1,250	2,262	2,124	680	1,463	11,387	5,313	32,703
2033	2,764	2,003	2,755	712	1,251	2,263	2,126	680	1,465	11,408	5,324	32,751
2034	2,768	2,007	2,759	712	1,253	2,265	2,130	681	1,467	11,431	5,337	32,810
2035	2,772	2,011	2,763	712	1,255	2,267	2,134	682	1,470	11,458	5,349	32,873
2036	2,777	2,016	2,767	712	1,257	2,269	2,138	683	1,472	11,487	5,362	32,940
2037	2,781	2,020	2,772	712	1,259	2,272	2,143	684	1,475	11,517	5,374	33,009
2038	2,786	2,024	2,777	712	1,261	2,275	2,149	685	1,477	11,550	5,387	33,083

Note: Historical values reflect actual experienced weather conditions. Forecasted values assume normal weather conditions.

2018 Load & Capacity Data Report

Table I-3b: Baseline Winter Coincident Peak Demand, Historical and 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
2008-09	2,274	1,567	2,533	930	1,289	1,771	1,634	529	884	7,692	3,570	24,673
2009-10	2,330	1,555	2,558	648	1,289	1,788	1,527	561	813	7,562	3,443	24,074
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	2,295	1,520	2,618	834	1,332	1,944	1,554	493	903	7,440	3,336	24,269
2019-20	2,275	1,513	2,600	882	1,318	1,933	1,548	491	894	7,377	3,304	24,135
2020-21	2,250	1,507	2,582	879	1,302	1,924	1,544	489	885	7,315	3,271	23,948
2021-22	2,235	1,500	2,566	879	1,292	1,915	1,539	487	880	7,271	3,253	23,817
2022-23	2,226	1,495	2,559	878	1,286	1,908	1,536	488	878	7,247	3,250	23,751
2023-24	2,222	1,492	2,558	879	1,283	1,902	1,535	490	879	7,237	3,253	23,730
2024-25	2,219	1,490	2,556	880	1,283	1,898	1,536	493	880	7,237	3,256	23,728
2025-26	2,216	1,490	2,559	880	1,282	1,896	1,539	494	882	7,242	3,262	23,742
2026-27	2,215	1,489	2,562	880	1,283	1,894	1,542	495	883	7,251	3,268	23,762
2027-28	2,213	1,490	2,563	882	1,283	1,892	1,546	497	885	7,261	3,274	23,786
2028-29	2,212	1,490	2,566	882	1,284	1,891	1,548	499	888	7,273	3,279	23,812
2029-30	2,210	1,490	2,569	883	1,283	1,888	1,552	501	890	7,288	3,283	23,837
2030-31	2,208	1,491	2,573	883	1,284	1,886	1,555	502	892	7,303	3,287	23,864
2031-32	2,207	1,491	2,573	882	1,284	1,883	1,559	504	895	7,321	3,292	23,891
2032-33	2,206	1,492	2,576	882	1,285	1,882	1,561	506	898	7,339	3,296	23,923
2033-34	2,204	1,493	2,579	882	1,284	1,879	1,564	507	901	7,357	3,299	23,949
2034-35	2,203	1,492	2,581	882	1,284	1,877	1,568	510	903	7,377	3,302	23,979
2035-36	2,200	1,492	2,584	882	1,284	1,873	1,570	511	906	7,396	3,304	24,002
2036-37	2,200	1,494	2,584	882	1,283	1,870	1,572	511	910	7,417	3,306	24,029
2037-38	2,198	1,494	2,586	882	1,284	1,868	1,576	513	913	7,438	3,308	24,060
2038-39	2,197	1,494	2,587	882	1,283	1,864	1,577	515	917	7,461	3,310	24,087

Note: Historical values reflect actual experienced weather conditions. Forecasted values assume normal weather conditions.

2018 Load & Capacity Data Report

Table I-4a: Baseline Summer Non-Coincident Peak Demand, Historical and 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
2008	2,611	2,001	2,939	875	1,388	2,302	2,344	665	1,441	11,262	5,281
2009	2,608	1,939	2,780	721	1,420	2,188	2,178	600	1,323	10,661	5,194
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	2,948	2,064	2,919	542	1,374	2,396	2,285	687	1,478	11,539	5,376
2019	2,930	2,051	2,894	748	1,358	2,375	2,257	684	1,471	11,474	5,323
2020	2,914	2,039	2,869	746	1,344	2,355	2,230	681	1,465	11,410	5,278
2021	2,902	2,030	2,849	744	1,331	2,340	2,208	679	1,460	11,363	5,246
2022	2,892	2,023	2,833	743	1,323	2,327	2,191	679	1,458	11,336	5,231
2023	2,886	2,020	2,823	742	1,316	2,320	2,179	679	1,458	11,328	5,229
2024	2,883	2,019	2,817	742	1,312	2,316	2,171	680	1,460	11,335	5,237
2025	2,883	2,021	2,814	741	1,310	2,314	2,167	681	1,463	11,350	5,251
2026	2,884	2,023	2,814	741	1,309	2,314	2,165	683	1,466	11,372	5,268
2027	2,887	2,027	2,815	741	1,309	2,315	2,164	685	1,470	11,399	5,287
2028	2,890	2,031	2,817	741	1,309	2,317	2,165	687	1,474	11,429	5,306
2029	2,894	2,036	2,820	741	1,310	2,319	2,167	689	1,478	11,457	5,324
2030	2,899	2,040	2,823	741	1,311	2,321	2,169	690	1,481	11,481	5,341
2031	2,903	2,044	2,826	741	1,312	2,322	2,171	692	1,483	11,503	5,354
2032	2,906	2,049	2,828	741	1,313	2,324	2,174	693	1,486	11,523	5,367
2033	2,909	2,053	2,831	741	1,314	2,325	2,176	693	1,488	11,544	5,378
2034	2,913	2,057	2,835	741	1,316	2,327	2,180	694	1,490	11,567	5,391
2035	2,918	2,061	2,839	741	1,318	2,329	2,184	695	1,493	11,595	5,403
2036	2,923	2,066	2,843	741	1,320	2,331	2,188	696	1,495	11,624	5,416
2037	2,927	2,070	2,849	741	1,323	2,334	2,193	697	1,498	11,654	5,429
2038	2,932	2,074	2,854	741	1,325	2,338	2,200	698	1,500	11,688	5,442

Note: Historical values reflect actual experienced weather conditions. Forecasted values assume normal weather conditions.

2018 Load & Capacity Data Report

Table I-4b: Baseline Winter Non-Coincident Peak Demand, Historical and 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
2008-09	2,332	1,574	2,573	949	1,299	1,837	1,694	558	899	8,340	3,633
2009-10	2,363	1,584	2,558	657	1,377	1,804	1,599	578	954	7,612	3,528
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	2,322	1,537	2,623	854	1,365	1,969	1,572	520	918	7,526	3,362
2019-20	2,301	1,530	2,605	903	1,351	1,958	1,566	518	909	7,462	3,330
2020-21	2,276	1,524	2,587	900	1,334	1,949	1,562	516	900	7,399	3,297
2021-22	2,261	1,517	2,571	900	1,324	1,940	1,557	513	895	7,355	3,279
2022-23	2,252	1,511	2,564	899	1,318	1,933	1,554	514	893	7,330	3,276
2023-24	2,248	1,508	2,563	900	1,315	1,927	1,553	517	894	7,320	3,279
2024-25	2,245	1,506	2,561	901	1,315	1,922	1,554	520	895	7,320	3,282
2025-26	2,242	1,506	2,564	901	1,314	1,920	1,557	521	897	7,325	3,288
2026-27	2,241	1,505	2,567	901	1,315	1,918	1,560	522	898	7,334	3,294
2027-28	2,239	1,506	2,568	903	1,315	1,916	1,564	524	900	7,345	3,300
2028-29	2,238	1,506	2,571	903	1,316	1,915	1,566	526	903	7,357	3,305
2029-30	2,236	1,506	2,574	904	1,315	1,912	1,570	528	905	7,372	3,309
2030-31	2,234	1,507	2,578	904	1,316	1,910	1,573	529	907	7,387	3,313
2031-32	2,233	1,507	2,578	903	1,316	1,907	1,577	531	910	7,405	3,318
2032-33	2,232	1,508	2,581	903	1,317	1,906	1,579	533	913	7,423	3,322
2033-34	2,230	1,509	2,584	903	1,316	1,903	1,582	534	916	7,442	3,325
2034-35	2,229	1,508	2,586	903	1,316	1,901	1,587	538	918	7,462	3,328
2035-36	2,226	1,508	2,589	903	1,316	1,897	1,589	539	921	7,481	3,330
2036-37	2,226	1,510	2,589	903	1,315	1,894	1,591	539	926	7,502	3,332
2037-38	2,223	1,510	2,591	903	1,316	1,892	1,595	541	929	7,524	3,334
2038-39	2,222	1,510	2,592	903	1,315	1,888	1,596	543	933	7,547	3,336

Note: Historical values reflect actual experienced weather conditions. Forecasted values assume normal weather conditions.

2018 Load & Capacity Data Report

Table I-5: Baseline Peak Demand in G-to-J Locality, Historical and 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
2008	2,338	661	1,441	11,262	15,702
2009	2,117	566	1,313	10,661	14,657
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	2,254	680	1,470	11,514	15,918
2019	2,226	677	1,463	11,449	15,815
2020	2,199	674	1,457	11,385	15,715
2021	2,177	672	1,452	11,338	15,639
2022	2,161	672	1,450	11,311	15,594
2023	2,149	672	1,450	11,303	15,574
2024	2,141	673	1,452	11,310	15,576
2025	2,137	674	1,455	11,325	15,591
2026	2,135	676	1,458	11,347	15,616
2027	2,134	678	1,462	11,374	15,648
2028	2,135	680	1,466	11,404	15,685
2029	2,137	682	1,470	11,432	15,721
2030	2,139	683	1,473	11,456	15,751
2031	2,141	685	1,475	11,477	15,778
2032	2,144	686	1,478	11,497	15,805
2033	2,146	686	1,480	11,519	15,831
2034	2,150	687	1,482	11,542	15,861
2035	2,154	688	1,485	11,569	15,896
2036	2,158	689	1,487	11,598	15,932
2037	2,163	690	1,490	11,629	15,972
2038	2,169	691	1,492	11,662	16,014

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

Year	G	H	I	J	G-J
2008-09	1,694	465	899	8,340	11,398
2009-10	1,555	518	879	7,612	10,564
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	1,552	482	903	7,490	10,427
2019-20	1,546	480	894	7,426	10,346
2020-21	1,542	478	885	7,364	10,269
2021-22	1,537	476	880	7,320	10,213
2022-23	1,534	477	878	7,296	10,185
2023-24	1,533	479	879	7,285	10,176
2024-25	1,534	482	880	7,285	10,181
2025-26	1,537	483	882	7,291	10,193
2026-27	1,540	484	883	7,300	10,207
2027-28	1,544	486	885	7,310	10,225
2028-29	1,546	488	888	7,322	10,244
2029-30	1,550	490	890	7,337	10,267
2030-31	1,553	491	892	7,352	10,288
2031-32	1,557	493	895	7,370	10,315
2032-33	1,559	495	898	7,388	10,340
2033-34	1,562	496	901	7,406	10,365
2034-35	1,566	499	903	7,426	10,394
2035-36	1,568	500	906	7,446	10,420
2036-37	1,570	500	910	7,467	10,447
2037-38	1,574	501	913	7,488	10,476
2038-39	1,575	503	917	7,511	10,506

Note: Historical values reflect actual experienced weather conditions. Forecasted values assume normal weather conditions.

2018 Load & Capacity Data Report

Table I-6: 90th & 10th Percentile Forecasts of Baseline Energy

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
2018	15,337	9,943	16,024	4,339	7,748	12,009	9,780	2,976	5,997	52,911	20,851	157,915
2019	15,261	9,878	15,902	6,016	7,671	11,902	9,687	2,961	5,962	52,524	20,676	158,440
2020	15,177	9,810	15,776	6,076	7,595	11,791	9,594	2,947	5,927	52,143	20,509	157,345
2021	15,096	9,748	15,660	6,066	7,525	11,692	9,506	2,934	5,900	51,828	20,377	156,332
2022	15,032	9,705	15,571	6,058	7,472	11,618	9,433	2,929	5,888	51,645	20,306	155,657
2023	14,992	9,682	15,512	6,053	7,438	11,572	9,381	2,931	5,891	51,594	20,301	155,347
2024	14,965	9,670	15,472	6,048	7,413	11,539	9,344	2,936	5,903	51,606	20,334	155,230
2025	14,944	9,664	15,441	6,045	7,394	11,514	9,315	2,943	5,918	51,642	20,387	155,207
2026	14,929	9,665	15,417	6,043	7,379	11,494	9,295	2,952	5,935	51,696	20,453	155,258
2027	14,926	9,675	15,409	6,042	7,371	11,484	9,286	2,963	5,959	51,798	20,537	155,450
2028	14,928	9,688	15,406	6,042	7,367	11,480	9,283	2,974	5,982	51,915	20,622	155,687
2029	14,930	9,701	15,404	6,041	7,363	11,476	9,282	2,984	6,004	52,018	20,694	155,897
2030	14,926	9,710	15,396	6,040	7,355	11,467	9,279	2,993	6,020	52,084	20,747	156,017
2031	14,922	9,718	15,388	6,038	7,349	11,458	9,278	3,000	6,035	52,135	20,789	156,110
2032	14,917	9,725	15,380	6,037	7,343	11,448	9,277	3,007	6,047	52,181	20,827	156,189
2033	14,916	9,733	15,377	6,036	7,340	11,442	9,279	3,012	6,060	52,247	20,868	156,310
2034	14,918	9,744	15,378	6,036	7,338	11,438	9,286	3,019	6,075	52,335	20,915	156,482
2035	14,929	9,759	15,389	6,037	7,342	11,441	9,298	3,026	6,093	52,460	20,972	156,746
2036	14,942	9,776	15,402	6,037	7,347	11,446	9,314	3,034	6,113	52,601	21,031	157,043
2037	14,957	9,793	15,419	6,038	7,354	11,452	9,333	3,042	6,133	52,758	21,093	157,372
2038	14,972	9,811	15,437	6,039	7,363	11,459	9,354	3,049	6,153	52,920	21,154	157,711

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

10th Percentile of Annual Energy due to Weather - GWh

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2018	15,085	9,739	15,764	4,301	7,614	11,757	9,526	2,880	5,835	51,573	20,251	154,325
2019	15,009	9,674	15,644	5,964	7,539	11,652	9,435	2,865	5,800	51,196	20,080	154,858
2020	14,927	9,608	15,520	6,022	7,463	11,543	9,344	2,851	5,767	50,825	19,919	153,789
2021	14,848	9,548	15,406	6,012	7,395	11,446	9,258	2,840	5,740	50,518	19,791	152,802
2022	14,784	9,505	15,317	6,004	7,344	11,374	9,187	2,835	5,728	50,339	19,722	152,139
2023	14,746	9,482	15,260	5,999	7,310	11,330	9,137	2,837	5,731	50,290	19,717	151,839
2024	14,719	9,470	15,220	5,996	7,285	11,297	9,100	2,842	5,743	50,302	19,748	151,722
2025	14,698	9,466	15,189	5,993	7,266	11,272	9,073	2,849	5,758	50,336	19,801	151,701
2026	14,683	9,467	15,167	5,991	7,251	11,252	9,053	2,856	5,775	50,390	19,865	151,750
2027	14,680	9,475	15,159	5,990	7,243	11,244	9,044	2,867	5,797	50,488	19,945	151,932
2028	14,682	9,488	15,156	5,990	7,239	11,240	9,041	2,878	5,820	50,603	20,028	152,165
2029	14,684	9,501	15,154	5,989	7,235	11,236	9,040	2,888	5,842	50,704	20,098	152,371
2030	14,680	9,510	15,146	5,988	7,229	11,227	9,037	2,897	5,858	50,768	20,149	152,489
2031	14,676	9,518	15,138	5,986	7,223	11,218	9,036	2,904	5,871	50,817	20,191	152,578
2032	14,671	9,525	15,130	5,985	7,217	11,208	9,035	2,909	5,883	50,863	20,227	152,653
2033	14,670	9,533	15,127	5,984	7,214	11,202	9,037	2,914	5,896	50,927	20,268	152,772
2034	14,672	9,544	15,128	5,984	7,212	11,198	9,044	2,921	5,911	51,013	20,313	152,940
2035	14,683	9,559	15,139	5,985	7,216	11,201	9,056	2,928	5,929	51,134	20,368	153,198
2036	14,696	9,574	15,152	5,985	7,221	11,206	9,072	2,936	5,947	51,271	20,425	153,485
2037	14,711	9,591	15,169	5,986	7,228	11,212	9,089	2,944	5,967	51,424	20,485	153,806
2038	14,726	9,609	15,185	5,987	7,235	11,219	9,110	2,951	5,987	51,582	20,546	154,137

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

2018 Load & Capacity Data Report

Table I-7a: 90th & 10th Percentile Forecasts of Baseline Summer Coincident Peak Demand

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
2018	2,979	2,142	3,021	554	1,391	2,496	2,390	701	1,513	11,764	5,793	34,744
2019	2,961	2,128	2,995	765	1,375	2,474	2,360	698	1,506	11,698	5,736	34,696
2020	2,945	2,116	2,969	763	1,360	2,453	2,333	695	1,500	11,633	5,687	34,454
2021	2,932	2,107	2,948	760	1,347	2,437	2,309	693	1,495	11,585	5,653	34,266
2022	2,923	2,099	2,932	759	1,339	2,425	2,292	693	1,493	11,557	5,636	34,148
2023	2,916	2,096	2,921	758	1,333	2,417	2,279	693	1,493	11,549	5,634	34,089
2024	2,913	2,095	2,915	758	1,328	2,413	2,270	694	1,495	11,556	5,643	34,080
2025	2,913	2,097	2,912	757	1,326	2,411	2,266	695	1,498	11,571	5,658	34,104
2026	2,914	2,099	2,912	757	1,325	2,411	2,264	697	1,501	11,594	5,677	34,151
2027	2,917	2,104	2,913	757	1,325	2,412	2,263	699	1,505	11,622	5,697	34,214
2028	2,920	2,108	2,915	757	1,325	2,414	2,264	701	1,509	11,652	5,718	34,283
2029	2,925	2,113	2,918	757	1,326	2,416	2,266	703	1,513	11,681	5,738	34,356
2030	2,929	2,117	2,921	757	1,327	2,418	2,268	704	1,516	11,705	5,755	34,417
2031	2,933	2,122	2,925	757	1,328	2,419	2,270	706	1,519	11,727	5,769	34,475
2032	2,936	2,126	2,927	757	1,329	2,421	2,274	707	1,522	11,748	5,783	34,530
2033	2,940	2,130	2,930	757	1,330	2,422	2,276	707	1,524	11,769	5,795	34,580
2034	2,944	2,134	2,934	757	1,333	2,425	2,280	708	1,526	11,793	5,809	34,643
2035	2,948	2,139	2,938	757	1,335	2,427	2,284	709	1,529	11,821	5,822	34,709
2036	2,953	2,144	2,943	757	1,337	2,429	2,289	710	1,531	11,851	5,837	34,781
2037	2,958	2,148	2,948	757	1,339	2,432	2,294	711	1,534	11,882	5,850	34,853
2038	2,963	2,153	2,953	757	1,341	2,435	2,300	712	1,536	11,916	5,864	34,930

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

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

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2018	2,612	1,878	2,649	486	1,220	2,128	2,038	612	1,321	10,533	4,779	30,256
2019	2,596	1,866	2,626	670	1,206	2,109	2,012	609	1,314	10,474	4,733	30,215
2020	2,582	1,855	2,603	669	1,192	2,091	1,988	606	1,309	10,415	4,692	30,002
2021	2,571	1,847	2,585	667	1,181	2,078	1,968	604	1,304	10,372	4,664	29,841
2022	2,562	1,840	2,571	666	1,174	2,067	1,954	604	1,302	10,347	4,650	29,737
2023	2,557	1,838	2,561	665	1,168	2,060	1,943	604	1,302	10,340	4,648	29,686
2024	2,554	1,837	2,556	665	1,165	2,057	1,935	605	1,304	10,346	4,655	29,679
2025	2,554	1,839	2,553	664	1,163	2,055	1,932	606	1,307	10,360	4,668	29,701
2026	2,555	1,840	2,553	664	1,162	2,055	1,930	608	1,310	10,380	4,683	29,740
2027	2,557	1,844	2,554	664	1,162	2,056	1,929	610	1,313	10,405	4,700	29,794
2028	2,560	1,848	2,556	664	1,162	2,058	1,930	612	1,317	10,432	4,717	29,856
2029	2,564	1,853	2,558	664	1,163	2,059	1,932	614	1,321	10,458	4,734	29,920
2030	2,568	1,856	2,561	664	1,164	2,061	1,933	614	1,323	10,480	4,748	29,972
2031	2,571	1,860	2,564	664	1,165	2,062	1,935	616	1,325	10,499	4,760	30,021
2032	2,574	1,864	2,566	664	1,165	2,064	1,938	617	1,328	10,518	4,771	30,069
2033	2,577	1,868	2,569	664	1,166	2,065	1,940	617	1,330	10,537	4,781	30,114
2034	2,581	1,871	2,572	664	1,168	2,067	1,944	618	1,331	10,559	4,793	30,168
2035	2,585	1,875	2,576	664	1,170	2,069	1,947	619	1,334	10,584	4,804	30,227
2036	2,589	1,880	2,580	664	1,172	2,070	1,951	620	1,336	10,610	4,815	30,287
2037	2,593	1,883	2,585	664	1,174	2,073	1,955	621	1,339	10,638	4,826	30,351
2038	2,598	1,887	2,589	664	1,176	2,076	1,961	622	1,340	10,668	4,838	30,419

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

2018 Load & Capacity Data Report

Table I-7b: 90th & 10th Percentile Forecasts of Baseline Winter Coincident Peak Demand

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
2018-19	2,477	1,641	2,826	900	1,438	2,097	1,676	518	949	7,820	3,542	25,884
2019-20	2,455	1,633	2,806	952	1,423	2,085	1,670	516	940	7,754	3,508	25,742
2020-21	2,428	1,627	2,787	949	1,405	2,075	1,665	514	930	7,689	3,473	25,542
2021-22	2,412	1,619	2,769	949	1,394	2,065	1,660	512	925	7,642	3,454	25,401
2022-23	2,403	1,614	2,762	948	1,388	2,058	1,657	513	923	7,617	3,451	25,334
2023-24	2,398	1,610	2,761	949	1,385	2,051	1,656	515	924	7,607	3,454	25,310
2024-25	2,395	1,608	2,759	950	1,385	2,047	1,657	518	925	7,607	3,457	25,308
2025-26	2,392	1,608	2,762	950	1,384	2,045	1,660	519	927	7,612	3,464	25,323
2026-27	2,391	1,607	2,765	950	1,385	2,043	1,663	520	928	7,621	3,470	25,343
2027-28	2,388	1,608	2,766	952	1,385	2,041	1,667	522	930	7,632	3,477	25,368
2028-29	2,387	1,608	2,769	952	1,386	2,039	1,670	524	933	7,645	3,482	25,395
2029-30	2,385	1,608	2,773	953	1,385	2,036	1,674	527	935	7,660	3,486	25,422
2030-31	2,383	1,609	2,777	953	1,386	2,034	1,677	528	938	7,676	3,490	25,451
2031-32	2,382	1,609	2,777	952	1,386	2,031	1,681	530	941	7,695	3,496	25,480
2032-33	2,381	1,610	2,780	952	1,387	2,030	1,684	532	944	7,714	3,500	25,514
2033-34	2,379	1,611	2,784	952	1,386	2,027	1,687	533	947	7,733	3,503	25,542
2034-35	2,378	1,610	2,786	952	1,386	2,024	1,691	536	949	7,754	3,506	25,572
2035-36	2,374	1,610	2,789	952	1,386	2,020	1,693	537	952	7,774	3,508	25,595
2036-37	2,374	1,612	2,789	952	1,385	2,017	1,695	537	956	7,796	3,511	25,624
2037-38	2,372	1,612	2,791	952	1,386	2,015	1,700	539	960	7,818	3,513	25,658
2038-39	2,371	1,612	2,792	952	1,385	2,010	1,701	541	964	7,842	3,515	25,685

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

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

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2018-19	2,134	1,413	2,435	776	1,239	1,811	1,447	471	862	7,102	3,163	22,853
2019-20	2,116	1,407	2,418	820	1,226	1,800	1,442	469	853	7,042	3,133	22,726
2020-21	2,092	1,401	2,401	817	1,211	1,792	1,438	467	845	6,983	3,102	22,549
2021-22	2,078	1,395	2,386	817	1,201	1,784	1,433	465	840	6,941	3,085	22,425
2022-23	2,070	1,390	2,380	816	1,196	1,777	1,431	466	838	6,918	3,082	22,364
2023-24	2,066	1,387	2,379	817	1,193	1,771	1,430	468	839	6,909	3,085	22,344
2024-25	2,064	1,386	2,377	818	1,193	1,768	1,431	471	840	6,909	3,088	22,345
2025-26	2,061	1,386	2,380	818	1,192	1,766	1,433	472	842	6,913	3,093	22,356
2026-27	2,060	1,385	2,382	818	1,193	1,764	1,436	473	843	6,922	3,099	22,375
2027-28	2,058	1,386	2,383	820	1,193	1,762	1,440	474	845	6,932	3,105	22,398
2028-29	2,057	1,386	2,386	820	1,194	1,761	1,442	476	848	6,943	3,109	22,422
2029-30	2,055	1,386	2,389	821	1,193	1,758	1,445	478	850	6,957	3,113	22,445
2030-31	2,053	1,387	2,393	821	1,194	1,757	1,448	479	852	6,972	3,117	22,473
2031-32	2,052	1,387	2,393	820	1,194	1,754	1,452	481	854	6,989	3,122	22,498
2032-33	2,051	1,387	2,395	820	1,195	1,753	1,454	483	857	7,006	3,125	22,526
2033-34	2,050	1,388	2,398	820	1,194	1,750	1,457	484	860	7,023	3,128	22,552
2034-35	2,049	1,387	2,400	820	1,194	1,748	1,460	487	862	7,042	3,131	22,580
2035-36	2,046	1,387	2,403	820	1,194	1,744	1,462	488	865	7,060	3,133	22,602
2036-37	2,046	1,389	2,403	820	1,193	1,742	1,464	488	869	7,080	3,135	22,629
2037-38	2,044	1,389	2,405	820	1,194	1,740	1,468	490	872	7,101	3,137	22,660
2038-39	2,043	1,389	2,406	820	1,193	1,736	1,469	492	875	7,122	3,139	22,684

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

2018 Load & Capacity Data Report

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

Estimated Historical Cumulative Reductions in Annual Energy by Zone - GWh

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2003	118	57	116	11	54	87	24	15	21	187	10	700
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

Forecast of Cumulative Reductions in Annual Energy by Zone Relative to 2017 - GWh

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2018	170	106	164	14	86	143	101	22	37	331	225	1,399
2019	326	215	314	28	164	275	199	42	72	634	443	2,712
2020	511	334	493	43	258	432	309	69	128	1,137	720	4,434
2021	670	441	652	58	338	564	410	94	177	1,565	967	5,936
2022	801	534	781	70	406	675	496	112	208	1,841	1,156	7,080
2023	944	633	923	83	478	794	589	132	241	2,136	1,339	8,292
2024	1,045	706	1,021	92	530	879	655	145	259	2,293	1,475	9,100
2025	1,204	813	1,181	106	611	1,011	757	167	296	2,629	1,683	10,458
2026	1,349	910	1,329	119	685	1,130	849	189	334	2,967	1,886	11,747
2027	1,438	971	1,419	128	731	1,205	904	201	355	3,148	2,014	12,514
2028	1,492	1,006	1,469	132	758	1,250	933	208	365	3,236	2,081	12,930
2029	1,552	1,042	1,529	137	788	1,300	966	217	382	3,391	2,174	13,478
2030	1,595	1,068	1,569	140	809	1,336	989	224	398	3,530	2,250	13,908
2031	1,644	1,097	1,615	145	833	1,376	1,016	231	413	3,668	2,330	14,368
2032	1,689	1,125	1,659	148	856	1,414	1,041	238	428	3,797	2,404	14,799
2033	1,732	1,150	1,700	152	877	1,449	1,064	245	441	3,917	2,474	15,201
2034	1,771	1,174	1,737	155	897	1,482	1,085	251	454	4,028	2,538	15,572
2035	1,807	1,195	1,772	158	915	1,512	1,105	256	466	4,131	2,597	15,914
2036	1,840	1,215	1,804	161	931	1,540	1,123	261	476	4,225	2,652	16,228
2037	1,870	1,233	1,832	163	946	1,565	1,139	266	486	4,310	2,701	16,511
2038	1,897	1,249	1,858	166	959	1,587	1,154	270	494	4,386	2,745	16,765

2018 Load & Capacity Data Report

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

Reflects Cumulative Impacts

Reductions in Coincident Summer Peak Demand by Zone Relative to 2017 - MW

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2018	30	19	29	2	15	25	18	4	6	58	39	245
2019	57	38	55	5	29	48	35	7	13	111	78	476
2020	89	58	86	8	45	76	54	12	22	199	126	775
2021	117	77	114	10	59	99	72	16	31	274	169	1,038
2022	140	93	137	12	71	118	87	20	36	322	202	1,238
2023	165	111	162	15	84	139	103	23	42	374	234	1,452
2024	183	124	179	16	93	154	115	25	45	401	258	1,593
2025	211	142	207	19	107	177	132	29	52	460	295	1,831
2026	236	159	233	21	120	198	149	33	58	519	330	2,056
2027	252	170	248	22	128	211	158	35	62	551	352	2,189
2028	261	176	257	23	133	219	163	36	64	566	364	2,262
2029	272	182	268	24	138	228	169	38	67	593	380	2,359
2030	279	187	275	25	142	234	173	39	70	618	394	2,436
2031	288	192	283	25	146	241	178	40	72	642	408	2,515
2032	296	197	290	26	150	247	182	42	75	664	421	2,590
2033	303	201	298	27	153	254	186	43	77	685	433	2,660
2034	310	205	304	27	157	259	190	44	79	705	444	2,724
2035	316	209	310	28	160	265	193	45	82	723	454	2,785
2036	322	213	316	28	163	270	197	46	83	739	464	2,841
2037	327	216	321	29	166	274	199	47	85	754	473	2,891
2038	332	219	325	29	168	278	202	47	86	768	480	2,934

Reductions in Coincident Winter Peak Demand by Zone Relative to 2017-18 - MW

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2018-19	24	15	23	2	12	20	14	3	5	47	32	197
2019-20	46	31	45	4	23	39	28	6	10	90	63	385
2020-21	73	47	70	6	37	61	44	10	18	161	102	629
2021-22	95	63	93	8	48	80	58	13	25	222	137	842
2022-23	114	76	111	10	58	96	70	16	30	261	164	1,006
2023-24	134	90	131	12	68	113	84	19	34	303	190	1,178
2024-25	148	100	145	13	75	125	93	21	37	326	209	1,292
2025-26	171	115	168	15	87	144	107	24	42	373	239	1,485
2026-27	192	129	189	17	97	160	121	27	47	421	268	1,668
2027-28	204	138	201	18	104	171	128	29	50	447	286	1,776
2028-29	212	143	209	19	108	178	132	30	52	460	296	1,839
2029-30	220	148	217	19	112	185	137	31	54	482	309	1,914
2030-31	226	152	223	20	115	190	140	32	57	501	320	1,976
2031-32	233	156	229	21	118	195	144	33	59	521	331	2,040
2032-33	240	160	236	21	122	201	148	34	61	539	341	2,103
2033-34	246	163	241	22	125	206	151	35	63	556	351	2,159
2034-35	251	167	247	22	127	210	154	36	64	572	360	2,210
2035-36	257	170	252	22	130	215	157	36	66	587	369	2,261
2036-37	261	173	256	23	132	219	159	37	68	600	377	2,305
2037-38	266	175	260	23	134	222	162	38	69	612	384	2,345
2038-39	269	177	264	24	136	225	164	38	70	623	390	2,380

2018 Load & Capacity Data Report

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

Installed Capacity by Zone - MW DC

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2008	0	0	1	0	0	2	3	0	0	1	10	17
2009	1	0	1	0	1	3	4	1	1	2	15	29
2010	4	1	2	0	2	5	7	1	2	3	26	53
2011	6	1	4	0	2	9	9	1	2	7	38	79
2012	9	2	7	1	4	16	14	2	3	14	50	122
2013	14	3	14	1	7	34	25	3	7	23	68	199
2014	18	9	23	1	12	54	44	8	11	40	104	324
2015	27	17	40	2	25	80	80	13	17	61	176	538
2016	38	23	63	2	38	127	119	18	23	88	246	785
2017	55	32	92	3	59	168	152	22	31	128	285	1,027
2018	82	62	144	9	88	202	255	27	40	181	414	1,504
2019	110	90	201	14	121	242	339	32	49	229	521	1,948
2020	142	118	264	20	157	278	415	36	57	272	602	2,361
2021	168	136	311	24	184	303	477	39	62	306	655	2,665
2022	189	151	348	27	205	325	529	41	67	334	683	2,899
2023	204	162	374	29	220	341	571	43	70	357	687	3,058
2024	218	171	398	31	234	356	606	45	73	375	691	3,198
2025	229	179	416	33	244	368	636	46	76	391	695	3,313
2026	238	185	430	34	252	375	662	48	78	404	699	3,405
2027	248	191	445	36	261	386	685	49	80	416	703	3,500
2028	256	196	457	37	267	394	705	50	82	426	707	3,577
2029	265	201	470	38	275	403	722	51	84	434	711	3,654
2030	273	206	481	39	282	411	738	52	86	441	715	3,724
2031	281	210	491	40	287	419	751	53	87	447	719	3,785
2032	288	215	500	42	292	426	762	54	89	452	723	3,843
2033	295	218	507	42	296	432	771	55	90	456	727	3,889
2034	302	221	514	43	301	438	779	56	91	458	731	3,934
2035	308	224	520	44	304	444	786	57	92	460	735	3,974
2036	314	227	525	45	307	449	790	57	93	461	739	4,007
2037	319	230	530	45	310	455	794	58	94	462	743	4,040
2038	324	231	533	46	311	459	795	59	95	463	747	4,063

Note: Historical values reflect information from New York State's "Solar Electric Programs Reported by NYSERDA" database and from Transmission Owners.

2018 Load & Capacity Data Report

Table I-9b: Solar PV Impacts, 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
2018	97	73	170	11	104	238	301	32	47	207	488	1,768
2019	130	107	238	17	143	287	402	38	58	263	618	2,301
2020	169	141	315	24	187	331	494	43	68	314	717	2,803
2021	201	163	372	29	220	363	571	47	74	355	784	3,179
2022	227	182	419	32	247	391	637	49	81	390	822	3,477
2023	247	196	452	35	266	412	691	52	85	419	831	3,686
2024	265	208	484	38	284	433	737	55	89	442	840	3,875
2025	280	219	508	40	298	450	777	56	93	463	849	4,033
2026	292	227	528	42	309	460	813	59	96	481	858	4,165
2027	306	236	549	44	322	476	845	60	99	498	867	4,302
2028	317	243	567	46	331	489	874	62	102	512	877	4,420
2029	330	250	586	47	343	502	900	64	105	525	886	4,538
2030	342	258	602	49	353	515	924	65	108	536	896	4,648
2031	354	264	618	50	361	527	945	67	110	546	905	4,747
2032	364	272	633	53	369	539	964	68	113	555	915	4,845
2033	375	277	645	53	376	549	980	70	114	562	924	4,925
2034	386	282	657	55	385	560	995	72	116	568	934	5,010
2035	396	288	668	57	390	570	1,009	73	118	573	944	5,086
2036	405	293	678	58	396	579	1,020	74	120	577	954	5,154
2037	414	298	687	58	402	590	1,030	75	122	581	964	5,221
2038	422	301	695	60	405	598	1,036	77	124	585	974	5,277

Reductions in Coincident Summer Peak Demand by Zone - MW AC

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2018	23	17	41	3	25	58	75	8	12	54	124	440
2019	30	25	57	4	34	69	99	10	15	68	155	566
2020	39	33	75	6	45	80	122	11	17	81	180	689
2021	46	38	88	7	52	87	140	12	18	91	195	774
2022	52	42	99	8	58	93	155	12	20	100	204	843
2023	56	45	106	9	62	98	167	13	21	107	205	889
2024	60	47	113	9	66	102	178	13	22	112	206	928
2025	63	50	118	10	69	106	186	14	23	117	207	963
2026	65	51	122	10	72	108	194	14	23	121	209	989
2027	68	53	126	11	74	111	201	15	24	124	210	1,017
2028	70	54	130	11	76	113	207	15	24	127	211	1,038
2029	73	56	133	11	78	116	212	15	25	129	212	1,060
2030	75	57	137	12	80	118	216	16	26	132	213	1,082
2031	77	58	139	12	81	120	220	16	26	133	215	1,097
2032	79	59	142	13	83	122	223	16	27	135	216	1,115
2033	81	60	144	13	84	124	226	16	27	136	217	1,128
2034	83	61	146	13	85	126	228	17	27	137	218	1,141
2035	85	62	148	13	86	127	230	17	27	137	219	1,151
2036	86	63	149	13	87	129	232	17	28	138	220	1,162
2037	88	64	150	13	88	131	233	17	28	138	222	1,172
2038	89	64	151	14	88	132	233	18	28	138	223	1,178

Note: The actual impact of solar PV varies considerably by hour of day. The hour of the NYCA coincident peak varies yearly. The solar PV peak impact reported here assumes that the NYCA coincident peak occurs from 4 PM to 5 PM EDT in late July.

Note: The winter coincident peak behind-the-meter solar PV impact is zero because the sun has set before the assumed peak hour of 6 PM EST.

2018 Load & Capacity Data Report

**Table I-10a: Non-Solar Distributed Generation Installed Capacity,
Behind-the-Meter**

Reflects Total Cumulative Installed Capacity

Installed Capacity by Zone - MW

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2008	7	3	0	0	0	9	0	0	1	8	0	28
2009	11	3	2	0	8	10	0	0	1	18	3	56
2010	11	3	32	0	8	12	1	0	2	65	3	137
2011	11	3	33	0	8	12	1	0	2	67	3	140
2012	13	3	34	0	10	13	1	0	2	69	3	148
2013	13	3	35	0	11	18	1	0	2	75	3	161
2014	13	3	41	0	11	18	1	0	2	76	3	168
2015	14	4	41	0	11	18	1	0	4	79	3	175
2016	14	4	42	0	13	20	1	0	4	82	5	185
2017	17	4	46	0	14	21	1	0	5	85	6	199
2018	18	4	49	1	14	23	1	0	5	91	7	213
2019	19	4	52	1	16	25	2	0	5	118	7	249
2020	19	4	52	1	21	39	2	0	5	144	45	332
2021	20	4	53	1	22	43	2	0	5	159	45	354
2022	20	4	54	1	23	46	3	0	5	171	45	372
2023	21	4	55	1	24	49	3	0	5	182	45	389
2024	21	4	56	1	25	51	3	0	6	192	46	405
2025	22	4	56	1	26	54	4	0	6	202	47	422
2026	22	4	57	1	27	56	4	0	6	212	48	437
2027	23	4	58	1	28	59	5	0	6	221	49	454
2028	23	4	59	1	29	61	5	0	6	230	49	467
2029	23	4	59	1	30	63	5	0	7	238	50	480
2030	24	4	60	1	30	65	6	0	7	246	51	494
2031	24	4	60	1	31	67	6	0	7	253	52	505
2032	25	5	61	1	32	69	6	0	7	260	52	518
2033	25	5	61	1	32	71	7	0	7	267	53	529
2034	25	5	62	1	33	72	7	0	7	274	54	540
2035	26	5	62	1	33	74	7	0	7	281	55	551
2036	26	5	63	1	34	76	7	0	8	287	55	562
2037	26	5	63	1	35	77	8	0	8	293	56	572
2038	26	5	64	1	35	79	8	0	8	299	57	582

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

2018 Load & Capacity Data Report

Table I-10b: Non-Solar Distributed Generation Impacts, 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
2018	106	21	286	3	83	134	6	0	26	336	32	1,033
2019	110	21	299	4	93	146	9	0	27	433	32	1,174
2020	111	21	302	4	121	225	9	1	27	529	295	1,645
2021	114	22	308	4	128	246	12	2	29	585	346	1,796
2022	118	22	313	4	135	264	15	2	30	628	346	1,877
2023	121	23	318	4	141	280	18	2	32	669	351	1,959
2024	124	23	322	4	146	296	20	2	33	707	357	2,034
2025	126	24	327	5	152	311	22	2	34	744	362	2,109
2026	129	24	331	5	157	326	25	2	35	779	367	2,180
2027	131	24	335	5	162	339	27	2	36	813	372	2,246
2028	134	25	338	5	166	352	29	2	37	844	378	2,310
2029	136	25	342	5	171	365	31	2	38	875	384	2,374
2030	138	26	345	5	175	376	33	2	39	904	390	2,433
2031	140	26	349	6	179	388	34	2	40	932	396	2,492
2032	142	26	352	6	183	399	36	3	40	958	402	2,547
2033	144	27	355	6	186	409	38	3	41	984	408	2,601
2034	146	27	358	6	190	419	39	3	42	1,008	414	2,652
2035	147	27	360	6	193	429	41	3	43	1,032	420	2,701
2036	149	27	363	6	197	438	42	3	43	1,055	426	2,749
2037	151	28	366	6	200	447	44	3	44	1,078	432	2,799
2038	152	28	368	6	203	456	45	3	45	1,100	438	2,844

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

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2018	16	3	43	1	13	20	1	0	4	68	5	174
2019	17	3	45	1	14	22	1	0	4	88	5	200
2020	17	3	45	1	18	34	1	0	4	108	43	274
2021	17	3	46	1	19	37	2	0	4	119	43	291
2022	18	3	47	1	20	40	2	0	5	128	43	307
2023	18	3	48	1	21	42	3	0	5	136	44	321
2024	19	3	48	1	22	45	3	0	5	144	45	335
2025	19	4	49	1	23	47	3	0	5	152	46	349
2026	19	4	50	1	24	49	4	0	5	159	47	362
2027	20	4	50	1	24	51	4	0	5	166	48	373
2028	20	4	51	1	25	53	4	0	6	172	49	385
2029	20	4	51	1	26	55	5	0	6	178	50	396
2030	21	4	52	1	26	57	5	0	6	184	51	407
2031	21	4	52	1	27	58	5	0	6	190	52	416
2032	21	4	53	1	27	60	5	0	6	195	53	425
2033	22	4	53	1	28	62	6	0	6	201	54	437
2034	22	4	54	1	29	63	6	0	6	206	55	446
2035	22	4	54	1	29	65	6	0	6	210	56	453
2036	22	4	55	1	30	66	6	0	7	215	57	463
2037	23	4	55	1	30	67	7	0	7	220	58	472
2038	23	4	55	1	31	69	7	0	7	224	59	480

Note: Peak reductions reflect estimated summer reductions for the year listed, along with reductions for the following winter.
 For example, the values listed in 2018 reflect reductions to the 2018 Summer peak and the 2018-19 Winter peak.

2018 Load & Capacity Data Report

Table I-11a: Electric Vehicle Energy Usage Forecast
Reflects Total Cumulative Impacts

Total Annual Energy Consumption by Zone - GWh

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2018	3	5	4	0	2	5	6	3	5	13	23	69
2019	6	9	8	1	4	10	11	5	8	24	42	128
2020	11	16	14	1	8	17	19	9	14	43	71	223
2021	19	25	23	2	12	28	31	14	22	70	111	357
2022	28	37	35	2	19	41	45	21	31	103	162	524
2023	41	51	49	3	27	57	63	29	43	144	223	730
2024	55	68	66	4	36	76	85	38	57	192	295	972
2025	71	87	85	6	46	98	109	49	73	247	377	1,248
2026	88	106	104	7	57	120	134	59	89	302	459	1,525
2027	105	126	123	8	68	142	158	70	105	357	542	1,804
2028	121	145	142	10	78	164	182	80	120	412	624	2,078
2029	138	164	162	11	89	185	207	91	136	468	706	2,357
2030	154	183	180	12	99	206	230	100	150	520	781	2,615
2031	169	200	198	13	109	226	252	109	163	570	847	2,856
2032	184	216	214	14	119	245	273	116	174	617	907	3,079
2033	199	231	231	15	128	262	293	123	184	662	961	3,289
2034	213	245	246	16	138	279	312	129	193	704	1,010	3,485
2035	226	259	261	17	146	295	330	134	201	745	1,054	3,668
2036	239	271	275	18	155	310	347	139	208	783	1,093	3,838
2037	251	283	289	19	163	324	363	143	214	819	1,129	3,997
2038	263	294	302	20	172	338	379	146	220	854	1,161	4,149

Note: Electric Vehicle energy usage is included in the Baseline Forecast (Table I-2).

2018 Load & Capacity Data Report

Table I-11b: Electric Vehicle Peak Usage Forecast

Reflects Total Cumulative Impacts

Total Increase in Coincident Summer Peak Demand by Zone - MW

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2018	1	1	1	0	0	1	1	1	1	3	5	15
2019	1	2	2	0	1	2	2	1	2	5	9	27
2020	2	3	3	0	2	4	4	2	3	9	15	47
2021	4	5	5	0	2	6	6	3	4	14	22	71
2022	6	7	7	0	4	8	9	4	6	20	32	103
2023	8	10	9	1	5	11	12	5	8	27	42	138
2024	10	13	12	1	7	14	16	7	11	35	55	181
2025	13	16	15	1	8	18	20	9	13	44	68	225
2026	15	19	18	1	10	21	23	10	16	53	80	266
2027	18	21	21	1	12	24	27	12	18	61	92	307
2028	20	24	23	2	13	27	30	13	20	68	103	343
2029	22	26	26	2	14	30	33	15	22	75	113	378
2030	24	28	28	2	15	32	36	16	23	81	121	406
2031	25	30	30	2	16	34	38	16	24	85	127	427
2032	27	31	31	2	17	35	40	17	25	89	132	446
2033	28	32	32	2	18	37	41	17	26	93	135	461
2034	29	33	33	2	19	38	42	17	26	95	136	470
2035	29	34	34	2	19	38	43	17	26	97	137	476
2036	30	34	34	2	19	39	43	17	26	98	137	479
2037	30	34	35	2	20	39	44	17	26	98	135	480
2038	30	34	35	2	20	39	44	17	25	98	133	477

Total Increase in Coincident Winter Peak Demand by Zone - MW

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2018-19	1	1	1	0	1	1	2	1	1	4	7	20
2019-20	2	3	2	0	1	3	3	2	2	7	12	37
2020-21	3	4	4	0	2	5	5	3	4	12	20	62
2021-22	5	7	6	0	3	8	8	4	6	19	30	96
2022-23	8	10	9	1	5	11	12	6	8	27	43	140
2023-24	10	13	13	1	7	15	16	7	11	37	58	188
2024-25	14	17	17	1	9	19	21	10	14	48	74	244
2025-26	17	21	21	1	11	24	27	12	18	60	92	304
2026-27	21	25	25	2	14	28	32	14	21	72	109	363
2027-28	24	29	28	2	16	33	36	16	24	82	125	415
2028-29	27	32	32	2	17	36	41	18	27	92	139	463
2029-30	30	36	35	2	19	40	45	20	29	101	153	510
2030-31	32	38	38	3	21	43	48	21	31	109	163	547
2031-32	34	40	40	3	22	46	51	22	33	115	171	577
2032-33	36	42	42	3	23	48	53	23	34	120	177	601
2033-34	37	43	43	3	24	49	55	23	35	124	181	617
2034-35	38	44	45	3	25	50	56	23	35	127	183	629
2035-36	39	45	45	3	25	51	57	23	35	130	183	636
2036-37	40	45	46	3	26	52	58	23	35	131	183	642
2037-38	40	45	46	3	26	52	58	23	34	131	181	639
2038-39	40	45	46	3	26	52	58	22	34	131	178	635

Note: Electric Vehicle coincident peak usage is included in the Baseline Forecast (Tables I-3, I-4, and I-5).

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Table I-12a: Topline Forecast of Annual Energy

Prior to 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
2018	15,584	10,041	16,514	4,348	7,954	12,398	10,061	2,982	6,026	53,116	21,296	160,320
2019	15,701	10,119	16,624	6,039	8,005	12,485	10,171	2,993	6,038	53,190	21,471	162,836
2020	15,843	10,205	16,758	6,120	8,095	12,655	10,281	3,012	6,070	53,464	21,946	164,449
2021	15,957	10,274	16,865	6,130	8,146	12,742	10,375	3,030	6,100	53,678	22,181	165,478
2022	16,054	10,343	16,957	6,137	8,196	12,826	10,458	3,045	6,127	53,851	22,338	166,332
2023	16,181	10,434	17,079	6,148	8,259	12,937	10,557	3,070	6,169	54,166	22,530	167,530
2024	16,276	10,507	17,173	6,156	8,309	13,026	10,634	3,091	6,204	54,396	22,713	168,485
2025	16,431	10,621	17,331	6,170	8,391	13,165	10,750	3,121	6,261	54,825	22,988	170,054
2026	16,576	10,727	17,480	6,183	8,466	13,289	10,861	3,154	6,320	55,270	23,270	171,596
2027	16,678	10,806	17,587	6,193	8,522	13,384	10,941	3,178	6,368	55,602	23,494	172,753
2028	16,748	10,862	17,655	6,199	8,558	13,451	10,998	3,198	6,405	55,851	23,661	173,586
2029	16,825	10,918	17,736	6,204	8,601	13,523	11,058	3,219	6,448	56,152	23,840	174,524
2030	16,878	10,962	17,787	6,208	8,629	13,574	11,104	3,236	6,484	56,396	23,984	175,242
2031	16,937	11,005	17,845	6,213	8,659	13,629	11,152	3,252	6,516	56,622	24,121	175,951
2032	16,989	11,048	17,899	6,218	8,688	13,680	11,197	3,267	6,546	56,832	24,248	176,612
2033	17,044	11,087	17,952	6,221	8,716	13,729	11,240	3,281	6,574	57,050	24,374	177,268
2034	17,098	11,127	18,005	6,226	8,747	13,779	11,284	3,296	6,605	57,278	24,500	177,945
2035	17,156	11,169	18,064	6,232	8,777	13,832	11,332	3,309	6,638	57,533	24,631	178,673
2036	17,213	11,210	18,122	6,236	8,808	13,883	11,378	3,323	6,669	57,793	24,760	179,395
2037	17,269	11,251	18,179	6,239	8,839	13,934	11,424	3,337	6,702	58,060	24,886	180,120
2038	17,320	11,288	18,232	6,245	8,866	13,980	11,467	3,350	6,733	58,322	25,007	180,810

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Table I-12b: Topline Forecast of Coincident Peak Demand

Prior to 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
2018	2,870	2,053	2,954	527	1,361	2,435	2,327	686	1,477	11,583	5,490	33,763
2019	2,888	2,067	2,973	729	1,370	2,450	2,340	688	1,480	11,606	5,508	34,099
2020	2,914	2,084	2,998	732	1,387	2,482	2,356	691	1,485	11,664	5,574	34,367
2021	2,937	2,099	3,020	733	1,397	2,500	2,371	694	1,490	11,713	5,600	34,554
2022	2,958	2,112	3,040	735	1,408	2,516	2,385	698	1,496	11,752	5,627	34,727
2023	2,981	2,130	3,063	738	1,420	2,537	2,402	702	1,503	11,811	5,659	34,946
2024	3,001	2,144	3,081	739	1,430	2,555	2,417	705	1,509	11,858	5,693	35,132
2025	3,032	2,168	3,112	742	1,446	2,582	2,438	711	1,520	11,945	5,746	35,442
2026	3,060	2,188	3,143	744	1,462	2,607	2,462	717	1,529	12,037	5,801	35,750
2027	3,083	2,205	3,163	746	1,472	2,626	2,477	722	1,538	12,106	5,844	35,982
2028	3,097	2,216	3,179	747	1,480	2,640	2,489	725	1,545	12,159	5,877	36,154
2029	3,115	2,229	3,196	748	1,489	2,656	2,503	729	1,553	12,222	5,913	36,353
2030	3,129	2,239	3,211	750	1,496	2,668	2,513	732	1,560	12,280	5,945	36,523
2031	3,144	2,249	3,224	750	1,503	2,679	2,524	735	1,564	12,332	5,975	36,679
2032	3,157	2,259	3,237	752	1,510	2,691	2,534	738	1,571	12,381	6,003	36,833
2033	3,170	2,268	3,250	753	1,516	2,703	2,544	739	1,575	12,430	6,028	36,976
2034	3,183	2,277	3,263	753	1,524	2,713	2,554	742	1,579	12,479	6,054	37,121
2035	3,195	2,286	3,275	754	1,530	2,724	2,563	744	1,585	12,528	6,078	37,262
2036	3,207	2,296	3,287	754	1,537	2,734	2,573	746	1,590	12,579	6,103	37,406
2037	3,219	2,304	3,298	755	1,543	2,744	2,582	748	1,595	12,629	6,127	37,544
2038	3,230	2,311	3,308	756	1,548	2,754	2,591	750	1,598	12,680	6,149	37,675

Coincident Winter Peak Demand by Zone - MW

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2018-19	2,335	1,538	2,684	837	1,357	1,984	1,569	496	912	7,555	3,373	24,640
2019-20	2,338	1,547	2,690	887	1,355	1,994	1,577	497	908	7,555	3,372	24,720
2020-21	2,340	1,557	2,697	886	1,357	2,019	1,589	499	907	7,584	3,416	24,851
2021-22	2,347	1,566	2,705	888	1,359	2,032	1,599	500	909	7,612	3,433	24,950
2022-23	2,358	1,574	2,717	889	1,364	2,044	1,608	504	913	7,636	3,457	25,064
2023-24	2,374	1,585	2,737	892	1,372	2,057	1,622	509	918	7,676	3,487	25,229
2024-25	2,386	1,593	2,749	894	1,380	2,068	1,632	514	922	7,707	3,510	25,355
2025-26	2,406	1,609	2,776	896	1,392	2,087	1,649	518	929	7,767	3,547	25,576
2026-27	2,426	1,622	2,801	898	1,404	2,103	1,667	522	935	7,831	3,583	25,792
2027-28	2,437	1,632	2,814	901	1,411	2,114	1,678	526	940	7,874	3,608	25,935
2028-29	2,444	1,637	2,826	902	1,417	2,122	1,684	529	946	7,905	3,624	26,036
2029-30	2,450	1,642	2,837	903	1,421	2,128	1,694	532	950	7,948	3,642	26,147
2030-31	2,455	1,647	2,848	904	1,425	2,133	1,700	534	955	7,988	3,658	26,247
2031-32	2,461	1,651	2,854	904	1,429	2,136	1,708	537	960	8,032	3,675	26,347
2032-33	2,467	1,656	2,865	904	1,434	2,143	1,714	540	965	8,073	3,690	26,451
2033-34	2,472	1,660	2,873	905	1,437	2,147	1,721	542	970	8,114	3,704	26,545
2034-35	2,476	1,663	2,882	905	1,440	2,150	1,728	546	973	8,155	3,717	26,635
2035-36	2,479	1,666	2,890	905	1,443	2,153	1,733	547	978	8,193	3,729	26,716
2036-37	2,483	1,671	2,895	906	1,445	2,155	1,737	548	985	8,232	3,740	26,797
2037-38	2,487	1,673	2,901	906	1,448	2,157	1,745	551	989	8,270	3,750	26,877
2038-39	2,489	1,675	2,906	907	1,450	2,158	1,748	553	994	8,308	3,759	26,947

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Table I-12c: Topline Forecast of Non-Coincident Peak Demand

Prior to 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
2018	3,021	2,104	3,036	548	1,430	2,502	2,382	699	1,500	11,721	5,546
2019	3,040	2,118	3,055	758	1,439	2,517	2,395	701	1,503	11,744	5,564
2020	3,067	2,136	3,081	761	1,457	2,550	2,411	704	1,508	11,803	5,631
2021	3,091	2,151	3,103	762	1,468	2,569	2,427	707	1,513	11,853	5,657
2022	3,113	2,164	3,124	764	1,479	2,585	2,441	711	1,519	11,892	5,684
2023	3,138	2,183	3,148	768	1,492	2,607	2,458	715	1,527	11,952	5,716
2024	3,159	2,197	3,166	769	1,502	2,625	2,474	718	1,533	11,999	5,751
2025	3,191	2,222	3,198	772	1,519	2,653	2,495	725	1,544	12,087	5,804
2026	3,221	2,242	3,230	774	1,536	2,679	2,520	731	1,553	12,181	5,860
2027	3,245	2,260	3,250	776	1,546	2,698	2,535	736	1,562	12,250	5,903
2028	3,260	2,271	3,267	777	1,555	2,713	2,547	739	1,569	12,304	5,937
2029	3,279	2,284	3,284	778	1,564	2,729	2,562	743	1,577	12,368	5,973
2030	3,293	2,295	3,300	780	1,572	2,741	2,572	746	1,584	12,426	6,005
2031	3,309	2,305	3,313	780	1,579	2,753	2,583	749	1,589	12,479	6,036
2032	3,323	2,315	3,326	782	1,586	2,765	2,594	752	1,596	12,529	6,064
2033	3,336	2,324	3,340	783	1,593	2,777	2,604	753	1,600	12,578	6,089
2034	3,350	2,333	3,353	783	1,601	2,788	2,614	756	1,604	12,628	6,115
2035	3,363	2,343	3,365	784	1,607	2,799	2,623	758	1,610	12,677	6,140
2036	3,375	2,353	3,378	784	1,615	2,809	2,633	760	1,615	12,729	6,165
2037	3,388	2,361	3,389	785	1,621	2,819	2,643	762	1,620	12,780	6,189
2038	3,400	2,368	3,399	786	1,626	2,830	2,652	764	1,623	12,831	6,211

Non-Coincident Winter Peak Demand by Zone - MW

Year	A	B	C	D	E	F	G	H	I	J	K
2018-19	2,362	1,555	2,689	857	1,391	2,010	1,588	523	928	7,642	3,400
2019-20	2,365	1,564	2,695	908	1,389	2,020	1,596	524	924	7,642	3,399
2020-21	2,367	1,574	2,702	907	1,391	2,045	1,608	526	923	7,671	3,443
2021-22	2,374	1,583	2,710	909	1,393	2,058	1,618	527	925	7,700	3,460
2022-23	2,385	1,591	2,722	910	1,398	2,070	1,627	531	929	7,724	3,484
2023-24	2,402	1,602	2,742	913	1,406	2,084	1,641	537	934	7,764	3,515
2024-25	2,414	1,611	2,754	915	1,414	2,095	1,651	542	938	7,796	3,538
2025-26	2,434	1,627	2,782	917	1,427	2,114	1,668	546	945	7,856	3,575
2026-27	2,454	1,640	2,807	919	1,439	2,130	1,687	550	951	7,921	3,611
2027-28	2,465	1,650	2,820	922	1,446	2,141	1,698	555	956	7,965	3,637
2028-29	2,472	1,655	2,832	923	1,452	2,149	1,704	558	962	7,996	3,653
2029-30	2,478	1,660	2,843	924	1,456	2,155	1,714	561	966	8,039	3,671
2030-31	2,483	1,665	2,854	926	1,460	2,161	1,720	563	971	8,080	3,687
2031-32	2,490	1,669	2,860	926	1,465	2,164	1,728	566	976	8,124	3,704
2032-33	2,496	1,674	2,871	926	1,470	2,171	1,734	569	982	8,166	3,719
2033-34	2,501	1,678	2,879	927	1,473	2,175	1,741	571	987	8,207	3,733
2034-35	2,505	1,681	2,888	927	1,476	2,178	1,748	576	990	8,249	3,746
2035-36	2,508	1,684	2,896	927	1,479	2,181	1,753	577	995	8,287	3,758
2036-37	2,512	1,689	2,901	928	1,481	2,183	1,757	578	1,002	8,327	3,770
2037-38	2,516	1,691	2,907	928	1,484	2,185	1,766	581	1,006	8,365	3,780
2038-39	2,518	1,693	2,912	929	1,486	2,186	1,769	583	1,011	8,404	3,789

Table I-13: Projection of Emergency Demand Response Program Enrollment

Forecast of Reductions in Coincident Summer Peak Demand by Zone - MW

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2018	2	0	2	1	3	7	0	0	1	1	1	18
2019	2	0	2	1	3	7	0	0	1	1	1	18
2020	2	0	2	1	3	7	0	0	1	1	1	18
2021	2	0	2	1	3	7	0	0	1	1	1	18
2022	2	0	2	1	3	7	0	0	1	1	1	18
2023	2	0	2	1	3	7	0	0	1	1	1	18
2024	2	0	2	1	3	7	0	0	1	1	1	18
2025	2	0	2	1	3	7	0	0	1	1	1	18
2026	2	0	2	1	3	7	0	0	1	1	1	18
2027	2	0	2	1	3	7	0	0	1	1	1	18
2028	2	0	2	1	3	7	0	0	1	1	1	18

Forecast of Reductions in Coincident Winter Peak Demand by Zone - MW

Year	A	B	C	D	E	F	G	H	I	J	K	NYCA
2018-19	35	0	3	1	1	0	0	0	5	0	0	45
2019-20	35	0	3	1	1	0	0	0	5	0	0	45
2020-21	35	0	3	1	1	0	0	0	5	0	0	45
2021-22	35	0	3	1	1	0	0	0	5	0	0	45
2022-23	35	0	3	1	1	0	0	0	5	0	0	45
2023-24	35	0	3	1	1	0	0	0	5	0	0	45
2024-25	35	0	3	1	1	0	0	0	5	0	0	45
2025-26	35	0	3	1	1	0	0	0	5	0	0	45
2026-27	35	0	3	1	1	0	0	0	5	0	0	45
2027-28	35	0	3	1	1	0	0	0	5	0	0	45
2028-29	35	0	3	1	1	0	0	0	5	0	0	45

Note: The facilities providing Emergency Demand Response are not considered Installed Capacity resources.

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Table I-14: 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

Winter Coincident Peak Dates & Times

November 1 through following April 30

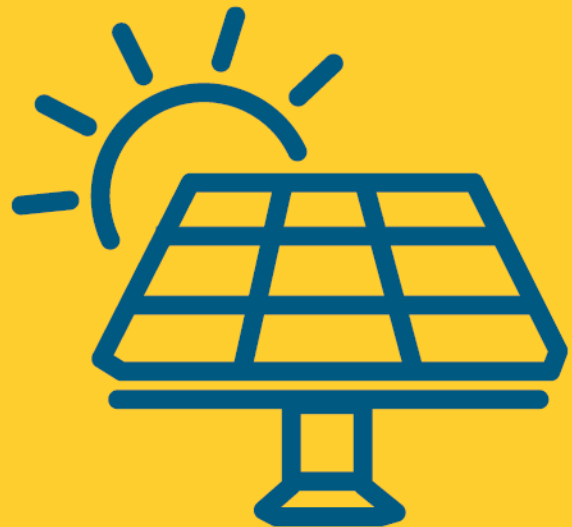
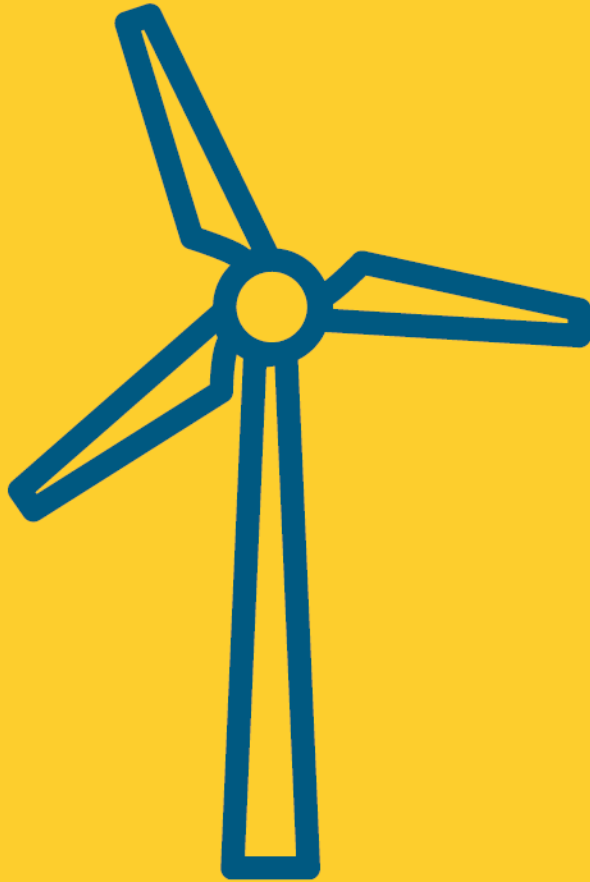
Year	Date	Hour Beginning	Winter Peak MW
1997 - 08	12/10/1997	17	22,445
1998 - 09	1/14/1999	17	23,878
1999 - 00	1/18/2000	17	24,041
2000 - 01	12/13/2000	17	23,774
2001 - 02	4/18/2002	16	23,713
2002 - 03	1/23/2003	18	24,454
2003 - 04	1/15/2004	18	25,262
2004 - 05	12/20/2004	17	25,541
2005 - 06	12/14/2005	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

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).

SECTION II

Changes in Generating Facilities & Generation since the 2017 Gold Book



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Section II

This section provides an overview of significant changes in generating facilities since the 2017 *Gold Book* was issued, together with a summary of changes in energy generation in the past year. This is done in two steps. We first report the net change in existing generation from the 2017 *Gold Book* through March 1st, 2018, which totals 288 MW. We then report any proposed changes from March 1st, 2018 to the Summer 2018 Capability Period, which total 347 MW.

Changes in Existing Generation Since the 2017 Gold Book

The existing Summer 2018 NYCA installed generating capacity as of March 1st, 2018 is 39,066 MW, an increase of 288 MW above the Summer 2017 generating capacity of 38,778 MW, as shown in Table II-1a. The existing Winter 2018-2019 NYCA installed generating capacity as of March 1st, 2018 is 41,468 MW, an increase of 209 MW above the Winter 2017-2018 generating capacity of 41,259 MW, as shown in Table II-1b.

Table II-1a: Summary of Changes in Summer Capacity Since 2017 – MW

Generator Fuel Types	2017 Capacity	Deactivations	Additions & Uprates	Reclassifications	Ratings Changes	2018 Capacity
Gas	3,588		104	23	76	3,791
Oil	2,499	-2			-3	2,494
Gas & Oil	18,529	-60			149	18,618
Coal	1,011			-23	-9	979
Nuclear	5,375				27	5,402
Pumped Storage	1,407				2	1,409
Hydro	4,251				1	4,252
Wind	1,740				-1	1,739
Other	378				4	382
Total	38,778	-62	104	0	246	39,066

Since the publication of the 2017 *Gold Book*, one new unit with 104 MW of summer and winter capacity has been added. Three units totaling 62 MW of summer capacity and

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71 MW of winter capacity have been deactivated. Capability changes in existing generators resulted in a net increase of 246 MW in summer and 176 MW in winter. The primary fuel types of two units totaling 23 MW of summer capacity and 34 MW of winter capacity have been reclassified from coal to gas.

Table II-1b: Summary of Changes in Winter Capacity Since 2017 – MW

Generator Fuel Types	2017/18 Capacity	Deactivations	Additions & Uprates	Reclassifications	Ratings Changes	2018/19 Capacity
Gas	3,898		104	34	64	4,100
Oil	2,877	-2			1	2,876
Gas & Oil	20,253	-69			129	20,313
Coal	1,027			-34	8	1,001
Nuclear	5,438				-13	5,425
Pumped Storage	1,411				-1	1,410
Hydro	4,232				-9	4,223
Wind	1,740				-1	1,739
Other	383				-2	381
Total	41,259	-71	104	0	176	41,468

The gas & oil fuel type is identified based upon a determination of 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 2018

Returning, new, and deactivated generation results in a net increase in capacity of 347 MW from March 1st, 2018 to the Summer 2018 Capability Period.

Demand Response Resources for Summer 2018 and Winter 2018-19

The projected 2018 Summer Capability for Special Case Resources (SCR) is 1,219 MW. The projected Summer 2018 enrollment for the Emergency Demand Response Program (EDRP) is 18 MW. For Winter 2018-19, the SCR total is 884 MW and the EDRP enrollment is 45 MW.

Total Resource Capability for Summer 2018 and Winter 2018-19

The Total Resource Capability forecasted for the 2018 Summer Capability period is 42,257 MW. This value is the sum of existing facilities (39,066 MW), Special Case Resources (1,219 MW), Net Generation Additions (347 MW) and Net Purchases from external areas (1,625 MW). This is an increase of 1,458 MW from the 2017 value of 40,799 MW.

For the Winter Capability period, the forecasted Total Resource Capability is 44,182 MW. This value is the sum of existing facilities (41,468 MW), Special Case Resources (884 MW), Net Generation Additions (347 MW), and Net Purchases from external areas (1,482 MW). This is an increase of 875 MW from the 2017-2018 value of 43,307 MW.

Summary of 2017 Electric Generation

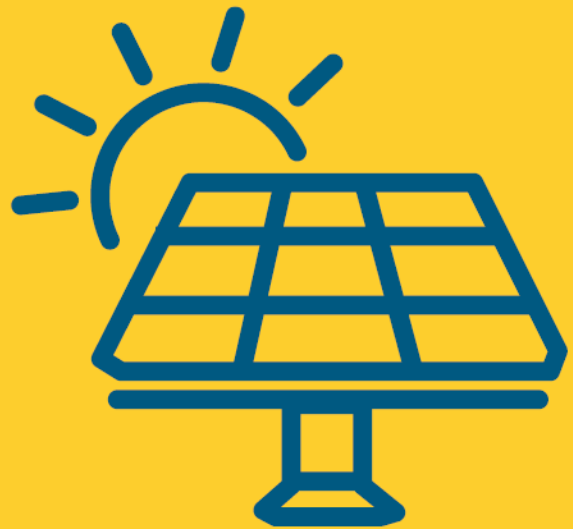
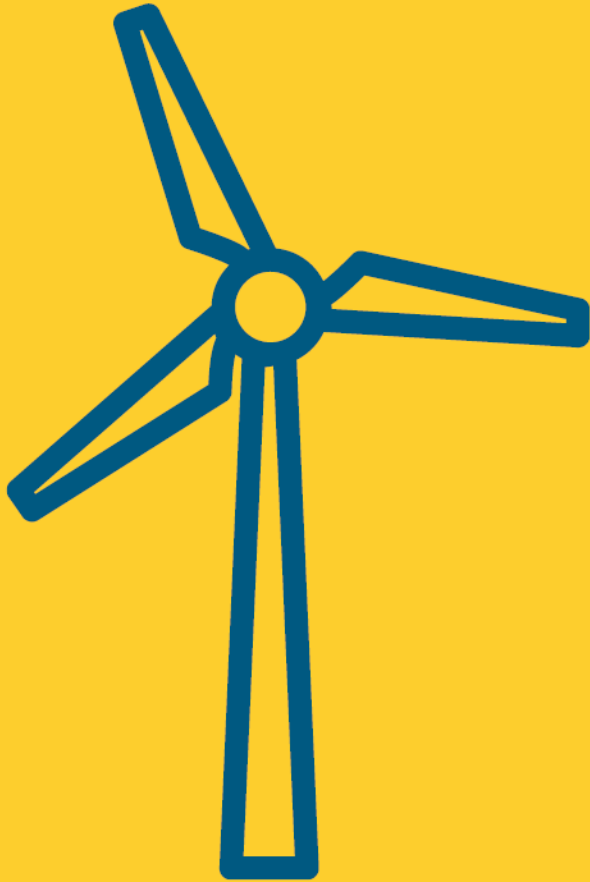
In 2017, a total of 131,182 GWh was generated in New York State, a decrease of 4.6% from the 137,532 GWh generated in 2016. Renewable energy generation was 36,739 GWh in 2017 (28% of total NYCA generation), compared to 33,192 GWh in 2016 (24%). Fossil-fueled energy generation in 2017 was 52,268 GWh (40%), compared to 62,702 GWh in 2016 (46%). Nuclear energy generation was 42,175 GWh in 2017 (32%), compared to 41,638 GWh in 2016 (30%).

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SECTION III

Existing Generating Facilities



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Section III

This section provides a detailed listing of all existing generating resources operating in the NYCA as of March 1st, 2018. 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 Capacity Resource Interconnection Service (CRIS) MW values⁴ 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 2017 *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 2018 Summer Installed Capacity market will generally use DMNC values taken from the 2017 Summer Capability Period. The Winter Capability values represent the most recent DMNC values demonstrated during a Winter Capability Period. The 2018-19 Winter Installed Capacity Market will generally use DMNC values taken from the 2017-18 Winter Capability Period.

Units are classified as dual-fuel (gas & oil) when there are adequate environmental permits, pipeline connections, and/or storage tanks in place to 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 with other control areas.

⁴ CRIS values, in MW of Installed Capacity, for the Summer Capability Period are established pursuant to applicable procedures contained in Attachments X, S and Z to the NYISO OATT.

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Table III-1: Existing Generating Facilities Codes and Abbreviations

FUEL TYPE	UNIT TYPE
BAT - Battery	CC - Combined Cycle
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	

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

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

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

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

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Table III-2: Existing Generating Facilities

Owner, Operator, and / or Billing Organization	Station	Unit	Zone	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(V) MW	2018 CRIS ^(A)		2018 Capability ^(B)		D U A L	Unit Type	Fuel ^(U)		2017 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			MW		MW				Type 1	Type 2		
										SUM	WIN	SUM	WIN						
Albany Energy LLC	Albany LFGE		F	323615	Albany	001	36	1998-05-01	5.6	4.5	4.5	5.6	5.6	IC	MTE			26.4	
Astoria Energy II, LLC	Astoria Energy 2 - CC3		J	323677	Queens	081	36	2011-07-01	330.0	288.0	376.3	286.0	329.4	YES	CC	NG	F02	2,568.8	(G)
Astoria Energy II, LLC	Astoria Energy 2 - CC4		J	323678	Queens	081	36	2011-07-01	330.0	288.0	376.3	286.0	329.4	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	290.9	328.4	YES	CC	NG	F02	3,251.8	(G)
Astoria Energy, LLC	Astoria East Energy - CC2		J	323582	Queens	081	36	2006-04-01	320.0	292.6	355.3	290.9	328.4	YES	CC	NG	F02		
Astoria Generating Company L.P.	Astoria 2		J	24149	Queens	081	36	1954-03-01	180.0	177.0	177.0	172.8	170.6		ST	NG		4.1	
Astoria Generating Company L.P.	Astoria 3		J	23516	Queens	081	36	1958-09-01	376.0	369.9	369.9	376.8	374.6	YES	ST	F06	NG	274.8	
Astoria Generating Company L.P.	Astoria 5		J	23518	Queens	081	36	1962-05-01	387.0	376.3	376.3	378.4	387.7	YES	ST	F06	NG	500.7	
Astoria Generating Company L.P.	Astoria GT 01		J	23523	Queens	081	36	1967-07-01	16.0	15.7	20.5	14.0	18.9		GT	NG		0.7	
Astoria Generating Company L.P.	Gowanus 1-1		J	24077	Brooklyn	047	36	1971-06-01	20.0	19.1	24.9	18.7	24.9		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	24.9		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	17.8	23.5		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	16.2	22.0		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	17.2	20.3		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	16.3	21.0		GT	F02		0.1	
Astoria Generating Company L.P.	Gowanus 1-7		J	24112	Brooklyn	047	36	1971-06-01	20.0	17.6	23.0	16.7	24.3		GT	F02		0.2	
Astoria Generating Company L.P.	Gowanus 1-8		J	24113	Brooklyn	047	36	1971-06-01	20.0	16.1	21.0	15.1	21.9		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	17.1	22.1	YES	GT	F02	NG	0.5	
Astoria Generating Company L.P.	Gowanus 2-2		J	24115	Brooklyn	047	36	1971-06-01	20.0	18.8	24.6	18.5	23.2	YES	GT	F02	NG	0.3	
Astoria Generating Company L.P.	Gowanus 2-3		J	24116	Brooklyn	047	36	1971-06-01	20.0	20.6	26.9	20.0	24.3	YES	GT	F02	NG	0.4	
Astoria Generating Company L.P.	Gowanus 2-4		J	24117	Brooklyn	047	36	1971-06-01	20.0	19.3	25.2	17.4	22.2	YES	GT	F02	NG	0.3	
Astoria Generating Company L.P.	Gowanus 2-5		J	24118	Brooklyn	047	36	1971-06-01	20.0	18.6	24.3	18.8	23.7	YES	GT	F02	NG	0.4	
Astoria Generating Company L.P.	Gowanus 2-6		J	24119	Brooklyn	047	36	1971-06-01	20.0	20.3	26.5	20.2	24.3	YES	GT	F02	NG	0.3	
Astoria Generating Company L.P.	Gowanus 2-7		J	24120	Brooklyn	047	36	1971-06-01	20.0	19.6	25.6	19.1	23.3	YES	GT	F02	NG	0.3	
Astoria Generating Company L.P.	Gowanus 2-8		J	24121	Brooklyn	047	36	1971-06-01	20.0	17.7	23.1	16.1	22.1	YES	GT	F02	NG	0.3	
Astoria Generating Company L.P.	Gowanus 3-1		J	24122	Brooklyn	047	36	1971-07-01	20.0	17.7	23.1	16.7	22.5	YES	GT	F02	NG	0.4	
Astoria Generating Company L.P.	Gowanus 3-2		J	24123	Brooklyn	047	36	1971-07-01	20.0	17.7	23.1	16.8	21.9	YES	GT	F02	NG	0.3	
Astoria Generating Company L.P.	Gowanus 3-3		J	24124	Brooklyn	047	36	1971-07-01	20.0	19.8	25.9	18.1	23.6	YES	GT	F02	NG	0.4	
Astoria Generating Company L.P.	Gowanus 3-4		J	24125	Brooklyn	047	36	1971-07-01	20.0	17.9	23.4	16.2	22.0	YES	GT	F02	NG	0.4	
Astoria Generating Company L.P.	Gowanus 3-5		J	24126	Brooklyn	047	36	1971-07-01	20.0	19.0	24.8	17.3	23.5	YES	GT	F02	NG	0.2	
Astoria Generating Company L.P.	Gowanus 3-6		J	24127	Brooklyn	047	36	1971-07-01	20.0	17.6	23.0	15.5	22.1	YES	GT	F02	NG	0.3	
Astoria Generating Company L.P.	Gowanus 3-7		J	24128	Brooklyn	047	36	1971-07-01	20.0	18.1	23.6	17.9	24.2	YES	GT	F02	NG	0.1	
Astoria Generating Company L.P.	Gowanus 3-8		J	24129	Brooklyn	047	36	1971-07-01	20.0	19.0	24.8	17.6	24.9	YES	GT	F02	NG	0.1	
Astoria Generating Company L.P.	Gowanus 4-1		J	24130	Brooklyn	047	36	1971-07-01	20.0	16.8	21.9	18.2	23.3		GT	F02		0.2	
Astoria Generating Company L.P.	Gowanus 4-2		J	24131	Brooklyn	047	36	1971-07-01	20.0	17.3	22.6	17.9	22.4		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	16.4	21.3		GT	F02		0.1	
Astoria Generating Company L.P.	Gowanus 4-4		J	24133	Brooklyn	047	36	1971-07-01	20.0	17.1	22.3	16.5	20.9		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	16.2	21.3		GT	F02		0.1	

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TABLE III-2 (cont'd) Existing Generating Facilities

Owner, Operator, and / or Billing Organization	Station	Unit	Zone	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(V) MW	2018 CRIS ^(A) MW		2018 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(U)		2017 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
Astoria Generating Company L.P.	Gowanus 4-6		J	24135	Brooklyn	047	36	1971-07-01	20.0	18.6	24.3	18.0	24.3	GT	F02			0.2	
Astoria Generating Company L.P.	Gowanus 4-7		J	24136	Brooklyn	047	36	1971-07-01	20.0	16.6	21.7	16.6	22.3	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	16.6	22.4	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	19.6	24.4	YES GT	F02	NG		1.9	
Astoria Generating Company L.P.	Narrows 1-2		J	24229	Brooklyn	047	36	1972-05-01	22.0	19.5	25.5	17.6	24.1	YES GT	F02	NG		1.2	
Astoria Generating Company L.P.	Narrows 1-3		J	24230	Brooklyn	047	36	1972-05-01	22.0	20.4	26.6	18.6	24.7	YES GT	F02	NG		1.5	
Astoria Generating Company L.P.	Narrows 1-4		J	24231	Brooklyn	047	36	1972-05-01	22.0	20.1	26.3	18.7	24.9	YES GT	F02	NG		1.5	
Astoria Generating Company L.P.	Narrows 1-5		J	24232	Brooklyn	047	36	1972-05-01	22.0	19.8	25.9	20.6	24.9	YES GT	F02	NG		1.4	
Astoria Generating Company L.P.	Narrows 1-6		J	24233	Brooklyn	047	36	1972-05-01	22.0	18.9	24.7	15.7	21.2	YES GT	F02	NG		1.0	
Astoria Generating Company L.P.	Narrows 1-7		J	24234	Brooklyn	047	36	1972-05-01	22.0	18.4	24.0	19.8	24.9	YES GT	F02	NG		1.1	
Astoria Generating Company L.P.	Narrows 1-8		J	24235	Brooklyn	047	36	1972-05-01	22.0	19.9	26.0	17.4	21.8	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	19.0	24.9	YES GT	F02	NG		1.7	
Astoria Generating Company L.P.	Narrows 2-2		J	24237	Brooklyn	047	36	1972-06-01	22.0	18.7	24.4	16.3	23.4	YES GT	F02	NG		1.2	
Astoria Generating Company L.P.	Narrows 2-3		J	24238	Brooklyn	047	36	1972-06-01	22.0	18.4	24.0	17.7	23.8	YES GT	F02	NG		1.2	
Astoria Generating Company L.P.	Narrows 2-4		J	24239	Brooklyn	047	36	1972-06-01	22.0	18.4	24.0	18.0	24.5	YES GT	F02	NG		1.3	
Astoria Generating Company L.P.	Narrows 2-5		J	24240	Brooklyn	047	36	1972-06-01	22.0	19.9	26.0	18.4	23.6	YES GT	F02	NG		1.3	
Astoria Generating Company L.P.	Narrows 2-6		J	24241	Brooklyn	047	36	1972-06-01	22.0	18.1	23.6	16.6	21.4	YES GT	F02	NG		2.0	
Astoria Generating Company L.P.	Narrows 2-7		J	24242	Brooklyn	047	36	1972-06-01	22.0	20.7	27.0	18.9	24.9	YES GT	F02	NG		2.4	
Astoria Generating Company L.P.	Narrows 2-8		J	24243	Brooklyn	047	36	1972-06-01	22.0	17.5	22.9	16.5	22.2	YES GT	F02	NG		1.9	
Bayonne Energy Center, LLC	Bayonne EC CTG1		J	323682	Bayonne NJ	017	34	2012-06-01	64.0	64.0	66.5	56.3	62.8	YES JE	NG	KER		71.1	
Bayonne Energy Center, LLC	Bayonne EC CTG2		J	323683	Bayonne NJ	017	34	2012-06-01	64.0	64.0	66.5	58.5	62.8	YES JE	NG	KER		81.7	
Bayonne Energy Center, LLC	Bayonne EC CTG3		J	323684	Bayonne NJ	017	34	2012-06-01	64.0	64.0	66.5	54.7	62.8	YES JE	NG	KER		76.1	
Bayonne Energy Center, LLC	Bayonne EC CTG4		J	323685	Bayonne NJ	017	34	2012-06-01	64.0	64.0	66.5	57.7	61.9	YES JE	NG	KER		67.9	
Bayonne Energy Center, LLC	Bayonne EC CTG5		J	323686	Bayonne NJ	017	34	2012-06-01	64.0	64.0	66.5	57.6	63.1	YES JE	NG	KER		89.6	
Bayonne Energy Center, LLC	Bayonne EC CTG6		J	323687	Bayonne NJ	017	34	2012-06-01	64.0	64.0	66.5	56.9	62.6	YES JE	NG	KER		72.8	
Bayonne Energy Center, LLC	Bayonne EC CTG7		J	323688	Bayonne NJ	017	34	2012-06-01	64.0	64.0	66.5	59.2	63.1	YES JE	NG	KER		83.8	
Bayonne Energy Center, LLC	Bayonne EC CTG8		J	323689	Bayonne NJ	017	34	2012-06-01	64.0	64.0	66.5	57.3	62.7	YES JE	NG	KER		82.7	
Binghamton BOP, LLC	Binghamton		C	23790	Binghamton	007	36	2001-03-01	47.7	43.8	57.2	0.0	0.0	YES CC	NG	KER		3.8	(1)(R)
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			187.7	
Boralex Hydro Operations Inc	Fourth Branch		F	23824	Waterford	091	36	1987-12-01	3.3	3.5	3.5	3.3	3.3	HY	WAT			12.0	
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			59.0	
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			18.2	
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			12.4	
Calpine Energy Services LP	Bethpage		K	23823	Hicksville	059	36	1989-09-01	83.6	54.9	55.1	51.9	60.2	CC	NG			291.9	
Calpine Energy Services LP	Bethpage GT4		K	323586	Hicksville	059	36	2002-07-01	60.0	48.2	51.2	44.4	47.7	GT	NG			144.6	
Calpine Energy Services LP	KIAC_JFK_GT1		J	23816	Jamaica	081	36	1995-02-01	60.6	58.7	58.7	59.1	61.0	YES CC	NG	F02		578.9	(G)
Calpine Energy Services LP	KIAC_JFK_GT2		J	23817	Jamaica	081	36	1995-02-01	60.6	58.3	58.3	59.0	57.4	YES CC	NG	F02			
Calpine Energy Services LP	Stony Brook		K	24151	Stony Brook	103	36	1995-04-01	47.0	9.6	9.6	0.0	0.0	YES GT	NG	F02		86.0	(2)(E)

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TABLE III-2 (cont'd) Existing Generating Facilities

Owner, Operator, and / or Billing Organization	Station	Unit	Zone	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(V) MW	2018 CRIS ^(A) MW		2018 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(U)		2017 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			264.6	
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			44.4	
Carr Street Generating Station LP	Carr St.-E. Syr		C	24060	Dewitt	067	36	1993-08-01	122.6	89.0	116.8	92.7	106.1	YES	CC	NG	F02	86.0	
Castleton Power, LLC	Castleton Energy Center		F	23900	Castleton	083	36	1992-01-01	72.0	69.0	86.6	69.6	76.9	YES	CC	NG	F02	158.1	
Cayuga Operating Company, LLC	Cayuga 1		C	23584	Lansing	109	36	1955-09-01	155.3	154.1	154.1	153.9	151.2	ST	BIT			159.7	
Cayuga Operating Company, LLC	Cayuga 2		C	23585	Lansing	109	36	1958-10-01	167.2	154.7	154.7	139.6	158.0	ST	BIT			60.5	
Cayuga Operating Company, LLC	Cayuga IC 1		C	23629	Lansing	109	36	1967-08-01	2.8	0.0	0.0	0.0	0.0	IC	F02				
Cayuga Operating Company, LLC	Cayuga IC 2		C	23629	Lansing	109	36	1967-08-01	2.8	0.0	0.0	0.0	0.0	IC	F02				
Central Hudson Gas & Elec. Corp.	Coxsackie GT		G	23611	Coxsackie	039	36	1969-12-01	21.6	19.9	26.0	19.6	23.6	YES	GT	KER	NG		0.4
Central Hudson Gas & Elec. Corp.	Dashville 1		G	23610	Riffton	111	36	1920-01-01	2.4	2.7	2.7	0.0	0.0	HY	WAT				
Central Hudson Gas & Elec. Corp.	Dashville 2		G	23610	Riffton	111	36	1920-01-01	2.4	2.7	2.7	0.0	0.0	HY	WAT				
Central Hudson Gas & Elec. Corp.	DCRRA		G	23765	Poughkeepsie	027	36	1987-09-01	9.2	8.8	8.8	6.9	7.0	ST	REF			34.1	
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				
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				
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				
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				
Central Hudson Gas & Elec. Corp.	South Cairo		G	23612	Cairo	039	36	1970-06-01	21.6	19.8	25.9	20.1	23.3	GT	KER			0.1	
Central Hudson Gas & Elec. Corp.	Sturgeon 1		G	23609	Riffton	111	36	1924-01-01	4.8	5.0	5.0	0.0	0.0	HY	WAT				
Central Hudson Gas & Elec. Corp.	Sturgeon 2		G	23609	Riffton	111	36	1924-01-01	4.8	5.8	5.8	0.0	0.0	HY	WAT				
Central Hudson Gas & Elec. Corp.	Sturgeon 3		G	23609	Riffton	111	36	1924-01-01	4.8	5.0	5.0	0.0	0.0	HY	WAT				
Central Hudson Gas & Elec. Corp.	Walkkill		G	5007	Shwangunk	111	36	1986-12-01	0.5	0.0	0.0	0.0	0.0	HY	WAT				
Central Hudson Gas & Elec. Corp.	Wappingers Falls		G	23765	Wappingers Falls	027	36	1988-12-01	2.0	2.0	2.0	2.0	2.0	HY	WAT			6.9	
CHI Energy Inc	Goodyear Lake		E	323669	Milford	077	36	1980-07-01	1.4	1.4	1.4	0.0	0.0	HY	WAT			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	15.4	22.2	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	17.9	21.3	GT	KER			0.2	
Consolidated Edison Co. of NY, Inc.	74 St. GT 2		J	24261	Manhattan	061	36	1968-10-01	18.5	20.1	25.7	20.0	20.2	GT	KER			0.3	
Consolidated Edison Co. of NY, Inc.	Brooklyn Navy Yard		J	23515	Brooklyn	047	36	1996-11-01	322.0	266.9	348.6	266.3	311.8	YES	CC	NG	F02	1,904.1	
Consolidated Edison Co. of NY, Inc.	East River 1		J	323558	Manhattan	061	36	2005-04-01	185.0	160.5	199.0	153.1	200.3	YES	CC	NG	KER	1,202.6	
Consolidated Edison Co. of NY, Inc.	East River 2		J	323559	Manhattan	061	36	2005-04-05	185.0	162.4	201.4	154.0	198.5	YES	CC	NG	KER	1,252.0	
Consolidated Edison Co. of NY, Inc.	East River 6		J	23660	Manhattan	061	36	1951-11-01	156.2	136.3	136.3	143.9	148.6	YES	ST	NG	F06	505.8	
Consolidated Edison Co. of NY, Inc.	East River 7		J	23524	Manhattan	061	36	1955-06-01	200.0	186.7	186.7	187.0	188.6	YES	ST	NG	F06	132.1	
Consolidated Edison Co. of NY, Inc.	Hudson Ave 3		J	23810	Brooklyn	047	36	1970-07-01	16.3	16.0	20.9	15.6	18.9	GT	KER			1.0	
Consolidated Edison Co. of NY, Inc.	Hudson Ave 4		J	23540	Brooklyn	047	36	1970-07-01	16.3	13.9	18.2	14.0	16.2	GT	KER			0.4	
Consolidated Edison Co. of NY, Inc.	Hudson Ave 5		J	23657	Brooklyn	047	36	1970-07-01	16.3	15.1	19.7	14.6	16.5	GT	KER			0.7	
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			17.7	
Consolidated Edison Energy, Inc.	Fortistar - N.Tonawanda		A	24026	N Tonawanda	029	36	1993-06-01	68.5	59.0	75.0	59.1	69.2	YES	CC	NG	F02	11.2	
Consolidated Edison Energy, Inc.	Massena		D	23902	Massena	089	36	1992-07-01	102.1	82.2	107.9	81.1	92.3	YES	CC	NG	F02	5.0	
Consolidated Edison Energy, Inc.	Munsville Wind Power		E	323609	Bouckville	053	36	2007-08-20	34.5	34.5	34.5	34.5	34.5	WT	WND			96.7	

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TABLE III-2 (cont'd) Existing Generating Facilities

Owner, Operator, and / or Billing Organization	Station	Unit	Zone	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(V) MW	2018 CRIS ^(A) MW		2018 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(U)		2017 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
Consolidated Edison Energy, Inc.	Rensselaer		F	23796	Rensselaer	083	36	1993-12-01	96.9	79.0	79.0	77.0	82.7	YES	CC	NG	F02	6.1	
Consolidated Edison Energy, Inc.	Roseton 1		G	23587	Newburgh	071	36	1974-12-01	621.0	614.8	614.8	607.8	610.0	YES	ST	FO6	NG	113.8	
Consolidated Edison Energy, Inc.	Roseton 2		G	23588	Newburgh	071	36	1974-09-01	621.0	605.7	605.7	604.0	605.7	YES	ST	FO6	NG	202.6	
Consolidated Hydro New York, Inc.	Groveville Hydro		G	323602	Beacon	027	36	1983-12-01	0.9	0.9	0.9	0.0	0.0		HY	WAT		0.0	
Consolidated Hydro New York, Inc.	Walden Hydro		G	24148	Walden	071	36	1983-12-01	2.4	0.0	0.0	0.0	0.0		HY	WAT		3.9	
Covanta Niagara, LP	American Ref-Fuel 1		A	24010	Niagara	063	36	1993-05-01	25.0	19.6	19.6	15.9	15.2		ST	REF		216.0	(G)
Covanta Niagara, LP	American Ref-Fuel 2		A	24010	Niagara	063	36	1993-05-01	25.0	19.6	19.6	15.9	15.2		ST	REF			
Danskammer Energy, LLC	Danskammer 1		G	23586	Newburgh	071	36	1951-12-01	72.0	69.0	69.0	69.0	68.2	YES	ST	NG	F06	0.9	
Danskammer Energy, LLC	Danskammer 2		G	23589	Newburgh	071	36	1954-09-01	73.5	64.7	64.7	66.0	65.5	YES	ST	NG	F06	0.9	
Danskammer Energy, LLC	Danskammer 3		G	23590	Newburgh	071	36	1959-10-01	147.1	139.2	139.2	136.7	136.7		ST	NG		2.1	
Danskammer Energy, LLC	Danskammer 4		G	23591	Newburgh	071	36	1967-09-01	239.4	238.2	238.2	223.5	224.5		ST	NG		5.1	
Dynegy Marketing and Trade, LLC	Independence		C	23970	Scriba	075	36	1994-11-01	1,254.0	956.4	1,130.9	1,002.0	1,212.0		CC	NG		4,298.0	
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		9.4	(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	10.7	10.8		HY	WAT		24.6	
Eagle Creek Hydro Power, LLC	Swinging Bridge 2		G	23641	Forestburg	105	36	1930-02-01	7.0	7.9	7.9	7.0	7.1		HY	WAT		10.2	
East Coast Power, LLC	Linden Cogen		J	23786	Linden NJ	039	34	1992-05-01	800.0	790.8	924.9	796.7	826.4	YES	CC	NG	BUT	3,968.0	
Emera Energy Services, Inc	Lockport		A	23791	Lockport	063	36	1992-07-01	221.3	225.2	261.7	208.0	232.1	YES	CC	NG	F02	147.6	
Emera Energy U.S. Subsidiary No. 1, Inc.	Greenidge 4		C	23583	Torrey	123	36	1953-12-01	112.5	106.3	106.3	104.3	104.0		ST	NG	WD	165.2	(3) (D)
Empire Generating Co, LLC	EMPIRE_CC_1		F	323656	Rensselaer	083	36	2010-09-02	335.0	294.2	360.2	298.6	335.1	YES	CC	NG	F02	1,214.9	
Empire Generating Co, LLC	EMPIRE_CC_2		F	323658	Rensselaer	083	36	2010-09-02	335.0	298.2	365.1	298.6	335.8	YES	CC	NG	F02	1,142.4	
ENGIE Energy Marketing NA, Inc.	Nassau Energy Corp.		K	323695	Garden City	059	36	1991-03-01	55.0	51.6	60.1	48.2	57.4	YES	CC	NG	F02	334.2	
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	1,018.5	1,026.5		NP	UR		8,351.9	
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	1,037.8	1,037.4		NP	UR		6,952.5	
Erie Blvd. Hydro - Beaver River	Belfort 1		E	24048	Belfort	049	36	1903-01-01	0.4	0.4	0.4	0.4	0.4		HY	WAT		1.8	
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		3.4	
Erie Blvd. Hydro - Beaver River	Belfort 3		E	24048	Belfort	049	36	1918-01-01	1.0	1.0	1.0	1.0	1.0		HY	WAT		7.6	
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		9.7	
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		8.1	
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		6.2	
Erie Blvd. Hydro - Beaver River	Eagle 4		E	24048	Watson	049	36	1925-01-01	2.1	2.0	2.0	2.1	2.1		HY	WAT		13.8	
Erie Blvd. Hydro - Beaver River	Effley 1		E	24048	Belfort	049	36	1902-01-01	0.4	0.3	0.3	0.4	0.4		HY	WAT		2.2	
Erie Blvd. Hydro - Beaver River	Effley 2		E	24048	Belfort	049	36	1907-01-01	0.4	0.3	0.3	0.4	0.4		HY	WAT		2.3	
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		4.2	
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		10.4	
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		6.3	

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TABLE III-2 (cont'd) Existing Generating Facilities

Owner, Operator, and / or Billing Organization	Station	Unit	Zone	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(V) MW	2018 CRIS ^(A) MW		2018 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(U)		2017 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
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			6.9	
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			10.8	
Erie Blvd. Hydro - Beaver River	High Falls 2		E	24048	Indian River	049	36	1925-01-01	1.6	1.9	1.9	1.6	1.6	HY	WAT			8.6	
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			15.5	
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			26.1	
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			20.8	
Erie Blvd. Hydro - Beaver River	Soft Maple 1		E	24048	Croghan	049	36	1925-01-01	7.5	8.0	8.0	7.5	7.5	HY	WAT			17.7	
Erie Blvd. Hydro - Beaver River	Soft Maple 2		E	24048	Croghan	049	36	1925-01-01	7.5	8.0	8.0	7.5	7.5	HY	WAT			33.3	
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			6.8	
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			4.1	
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			4.7	
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			6.9	
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			31.9	
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			12.8	
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			9.0	
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			22.6	
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			28.6	
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			17.2	
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			7.2	
Erie Blvd. Hydro - Black River	Herrings 2		E	24047	Herrings	045	36	1924-01-01	1.8	1.8	1.8	1.8	1.8	HY	WAT			10.5	
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			5.7	
Erie Blvd. Hydro - Black River	Kamargo 1		E	24047	Black River	045	36	1921-01-01	1.8	1.8	1.8	1.8	1.8	HY	WAT			9.1	
Erie Blvd. Hydro - Black River	Kamargo 2		E	24047	Black River	045	36	1921-01-01	1.8	1.8	1.8	1.8	1.8	HY	WAT			10.1	
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			6.2	
Erie Blvd. Hydro - Black River	Sewalls 2		E	24047	Watertown	045	36	1925-01-01	1.0	1.1	1.1	1.0	1.0	HY	WAT			7.9	
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			24.7	
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			35.5	
Erie Blvd. Hydro - East Canada Capital	Ephratah 1		F	24051	Caroga Lake	035	36	1920-01-01	1.4	0.7	0.7	1.4	1.4	HY	WAT			0.0	
Erie Blvd. Hydro - East Canada Capital	Ephratah 2		F	24051	Caroga Lake	035	36	1911-01-01	1.2	0.6	0.6	1.2	1.2	HY	WAT			2.3	
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			2.7	
Erie Blvd. Hydro - East Canada Capital	Ephratah 4		F	24051	Caroga Lake	035	36	1911-01-01	1.3	0.7	0.7	1.3	1.3	HY	WAT			2.6	
Erie Blvd. Hydro - East Canada Mohawk	Inghams 1		E	24050	Little Falls	043	36	1912-01-01	3.2	3.5	3.5	3.2	3.2	HY	WAT			13.4	
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			16.6	
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			3.8	

2018 Load & Capacity Data Report

TABLE III-2 (cont'd) Existing Generating Facilities

Owner, Operator, and / or Billing Organization	Station	Unit	Zone	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(V) MW	2018 CRIS ^(A) MW		2018 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(U)		2017 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
					Erie Blvd. Hydro - Lower Hudson	Schaghticoke 1	F			24059	Schaghticoke	083	36			1908-01-01	3.3		
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			12.9		
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			14.9		
Erie Blvd. Hydro - Lower Hudson	Schaghticoke 4	F	24059	Schaghticoke	083	36	1908-01-01	3.3	4.1	4.1	3.3	3.3	HY	WAT			8.6		
Erie Blvd. Hydro - Lower Hudson	School Street 1	F	24059	Cohoes	001	36	1974-01-01	7.2	6.9	6.9	7.2	7.2	HY	WAT			43.4		
Erie Blvd. Hydro - Lower Hudson	School Street 2	F	24059	Cohoes	001	36	1915-01-01	7.2	6.9	6.9	7.2	7.2	HY	WAT			30.2		
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			34.7		
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			27.7		
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			28.5		
Erie Blvd. Hydro - Lower Hudson	Schuylerville	F	24059	Schuylerville	091	36	1919-01-01	1.2	1.5	1.5	1.2	1.2	HY	WAT			6.7		
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			72.3		
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			73.7		
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			79.7		
Erie Blvd. Hydro - Lower Raquette	East Norfolk	E	24057	East Norfolk	089	36	1928-01-01	3.6	4.0	4.0	3.0	3.5	HY	WAT			10.8		
Erie Blvd. Hydro - Lower Raquette	Hannawa Falls 1	E	24057	Hannawa Falls	089	36	1914-01-01	3.6	3.7	3.7	3.6	3.6	HY	WAT			28.3		
Erie Blvd. Hydro - Lower Raquette	Hannawa Falls 2	E	24057	Hannawa Falls	089	36	1920-01-01	3.6	3.7	3.7	3.6	3.6	HY	WAT			27.9		
Erie Blvd. Hydro - Lower Raquette	Higley 1	E	24057	Colton	089	36	1913-01-01	1.2	1.1	1.1	1.2	1.2	HY	WAT			10.9		
Erie Blvd. Hydro - Lower Raquette	Higley 2	E	24057	Colton	089	36	1913-01-01	1.2	1.1	1.1	1.2	1.2	HY	WAT			9.6		
Erie Blvd. Hydro - Lower Raquette	Higley 3	E	24057	Colton	089	36	1943-01-01	2.1	2.0	2.0	2.1	2.1	HY	WAT			10.7		
Erie Blvd. Hydro - Lower Raquette	Higley 4	E	24057	Colton	089	36	1943-01-01	2.1	2.0	2.0	2.1	2.1	HY	WAT			11.0		
Erie Blvd. Hydro - Lower Raquette	Norfolk	E	24057	Norfolk	089	36	1928-01-01	4.5	4.8	4.8	4.5	4.5	HY	WAT			29.9		
Erie Blvd. Hydro - Lower Raquette	Norwood	E	24057	Norwood	089	36	1928-01-01	2.0	2.2	2.2	2.0	2.0	HY	WAT			14.3		
Erie Blvd. Hydro - Lower Raquette	Raymondville	E	24057	Raymondville	089	36	1928-01-01	2.0	2.1	2.1	2.0	2.0	HY	WAT			13.0		
Erie Blvd. Hydro - Lower Raquette	Sugar Island 1	E	24057	Potsdam	089	36	1924-01-01	2.5	2.1	2.1	2.6	2.6	HY	WAT			15.3		
Erie Blvd. Hydro - Lower Raquette	Sugar Island 2	E	24057	Potsdam	089	36	1924-01-01	2.5	2.0	2.0	2.4	2.4	HY	WAT			16.6		
Erie Blvd. Hydro - Lower Raquette	Yaleville 1	E	24057	Norwood	089	36	1940-01-01	0.5	0.2	0.2	0.5	0.5	HY	WAT			1.9		
Erie Blvd. Hydro - Lower Raquette	Yaleville 2	E	24057	Norwood	089	36	1940-01-01	0.2	0.3	0.3	0.7	0.2	HY	WAT			1.1		
Erie Blvd. Hydro - North Salmon	Allens Falls	D	24042	Allens Falls	089	36	1927-01-01	4.4	5.0	5.0	4.4	4.4	HY	WAT			17.3		
Erie Blvd. Hydro - North Salmon	Chasm 1	D	24042	Chateaugay	033	36	1913-01-01	1.0	1.1	1.1	1.0	1.0	HY	WAT			7.3		
Erie Blvd. Hydro - North Salmon	Chasm 2	D	24042	Chateaugay	033	36	1913-01-01	1.0	1.1	1.1	1.0	1.0	HY	WAT			6.4		
Erie Blvd. Hydro - North Salmon	Chasm 3	D	24042	Chateaugay	033	36	1926-01-01	1.4	1.6	1.6	1.4	1.4	HY	WAT			7.4		
Erie Blvd. Hydro - North Salmon	Franklin 1	D	24042	Franklin	033	36	1911-01-01	1.1	1.1	1.1	1.1	1.1	HY	WAT			6.1		
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			6.4		
Erie Blvd. Hydro - North Salmon	Macomb	D	24042	Malone	033	36	1940-01-01	1.0	0.9	0.9	1.0	1.0	HY	WAT			6.3		
Erie Blvd. Hydro - North Salmon	Parishville	D	24042	Parishville	089	36	1925-01-01	2.4	2.3	2.3	2.4	2.4	HY	WAT			17.6		
Erie Blvd. Hydro - North Salmon	Piercefield 1	D	24042	Piercefield	089	36	1957-01-01	1.5	1.6	1.6	1.5	1.5	HY	WAT			11.5		
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			4.5		
Erie Blvd. Hydro - North Salmon	Piercefield 3	D	24042	Piercefield	089	36	1924-01-01	0.6	0.6	0.6	0.6	0.6	HY	WAT			3.1		

2018 Load & Capacity Data Report

TABLE III-2 (cont'd) Existing Generating Facilities

Owner, Operator, and / or Billing Organization	Station	Unit	Zone	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(V) MW	2018 CRIS ^(A) MW		2018 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(U)		2017 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
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			9.3	
Erie Blvd. Hydro - Oak Orchard	Glenwood 1		B	24046	Medina	073	36	1950-01-01	0.5	0.5	0.5	0.5	0.5	HY	WAT			3.0	
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			3.2	
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			3.1	
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			0.0	
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			9.5	
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			9.2	
Erie Blvd. Hydro - Oswegatchie	Browns Falls 1		E	24044	Oswegatchie	089	36	1923-01-01	7.5	8.0	8.0	7.5	7.5	HY	WAT			41.7	
Erie Blvd. Hydro - Oswegatchie	Browns Falls 2		E	24044	Oswegatchie	089	36	1923-01-01	7.5	8.0	8.0	7.5	7.5	HY	WAT			29.2	
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			2.3	
Erie Blvd. Hydro - Oswegatchie	Eel Weir 2		E	24044	Heuvelton	089	36	1938-01-01	1.1	0.8	0.8	1.1	1.1	HY	WAT			3.7	
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			4.6	
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			14.1	
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			2.3	
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			3.6	
Erie Blvd. Hydro - Oswegatchie	Oswegatchie 1		E	24044	Oswegatchie	089	36	1937-01-01	0.6	1.3	1.3	0.6	0.6	HY	WAT			6.2	
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			5.0	
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			9.1	
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			8.2	
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			5.6	
Erie Blvd. Hydro - Oswegatchie	South Edwards 4		E	24044	South Edwards	089	36	1937-01-01	0.2	0.2	0.2	0.2	0.2	HY	WAT			2.2	
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			5.5	
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			0.4	
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			4.3	
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			3.9	
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	
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			2.1	
Erie Blvd. Hydro - Seneca Oswego	Baldwinsville 2		C	24041	Baldwinsville	067	36	1927-01-01	0.3	0.2	0.2	0.3	0.3	HY	WAT			0.9	
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			0.0	(4)(D)
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			0.0	(5)(D)
Erie Blvd. Hydro - Seneca Oswego	Granby 1		C	24041	Granby	075	36	1983-05-01	5.0	5.1	5.1	5.2	5.2	HY	WAT			25.5	
Erie Blvd. Hydro - Seneca Oswego	Granby 2		C	24041	Granby	075	36	1983-05-01	5.0	5.1	5.1	5.2	5.2	HY	WAT			26.5	
Erie Blvd. Hydro - Seneca Oswego	Minetto 2		C	24041	Minetto	075	36	1915-01-01	1.6	1.5	1.5	1.7	1.7	HY	WAT			8.6	
Erie Blvd. Hydro - Seneca Oswego	Minetto 3		C	24041	Minetto	075	36	1915-01-01	1.6	1.5	1.5	1.7	1.7	HY	WAT			8.7	
Erie Blvd. Hydro - Seneca Oswego	Minetto 4		C	24041	Minetto	075	36	1915-01-01	1.6	1.5	1.5	1.7	1.7	HY	WAT			7.0	
Erie Blvd. Hydro - Seneca Oswego	Minetto 5		C	24041	Minetto	075	36	1975-01-01	1.6	1.5	1.5	1.7	1.7	HY	WAT			6.5	

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TABLE III-2 (cont'd) Existing Generating Facilities

Owner, Operator, and / or Billing Organization	Station	Unit	Zone	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(V) MW	2018 CRIS ^(A) MW		2018 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(U)		2017 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
Erie Blvd. Hydro - Seneca Oswego	Minetto 6		C	24041	Minetto	075	36	1975-01-01	1.6	1.5	1.5	1.7	1.7	HY	WAT			7.2	
Erie Blvd. Hydro - Seneca Oswego	Oswego Falls E 1		C	24041	Oswego	075	36	1914-01-01	1.5	1.5	1.5	1.6	1.6	HY	WAT			9.1	
Erie Blvd. Hydro - Seneca Oswego	Oswego Falls E 2		C	24041	Oswego	075	36	1914-01-01	1.5	1.5	1.5	1.6	1.6	HY	WAT			8.7	
Erie Blvd. Hydro - Seneca Oswego	Oswego Falls E 3		C	24041	Oswego	075	36	1914-01-01	1.5	1.5	1.5	1.6	1.6	HY	WAT			10.0	
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			5.1	
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			4.8	
Erie Blvd. Hydro - Seneca Oswego	Oswego Falls W 6		C	24041	Oswego	075	36	2007-01-01	0.5	0.5	0.5	0.5	0.5	HY	WAT			1.4	
Erie Blvd. Hydro - Seneca Oswego	Oswego Falls W 7		C	24041	Oswego	075	36	2007-01-01	0.5	0.5	0.5	0.5	0.5	HY	WAT			1.1	
Erie Blvd. Hydro - Seneca Oswego	Varick 2		C	24041	Oswego	075	36	1926-01-01	2.2	1.9	1.9	2.3	2.3	HY	WAT			8.9	
Erie Blvd. Hydro - Seneca Oswego	Varick 3		C	24041	Oswego	075	36	1926-01-01	2.2	2.1	2.1	2.3	2.3	HY	WAT			6.6	
Erie Blvd. Hydro - Seneca Oswego	Varick 4		C	24041	Oswego	075	36	1926-01-01	2.2	1.9	1.9	2.3	2.3	HY	WAT			5.9	
Erie Blvd. Hydro - Seneca Oswego	Varick 5		C	24041	Oswego	075	36	1926-01-01	2.2	1.9	1.9	2.3	2.3	HY	WAT			8.7	
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			11.5	
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			18.8	
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			38.0	
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			45.7	
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			18.1	
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			11.2	
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			36.7	
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			41.0	
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			6.5	
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			6.1	
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			5.9	
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			7.5	
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			3.7	
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			37.2	
Erie Blvd. Hydro - Upper Hudson	Sherman Island 2		F	24058	Queensbury	113	36	1923-01-01	7.2	8.1	8.1	7.2	7.2	HY	WAT			43.2	
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			47.6	
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			39.6	
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			29.5	
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			9.1	
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			43.8	
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			219.4	
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			138.2	
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			20.6	
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			75.9	
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			118.0	
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			125.9	

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TABLE III-2 (cont'd) Existing Generating Facilities

Owner, Operator, and / or Billing Organization	Station	Unit	Zone	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(V) MW	2018 CRIS ^(A) MW		2018 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(U)		2017 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
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		104.2		
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		116.9		
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		88.1		
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		54.3		
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		54.0		
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		40.8		
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		28.9		
Erie Wind, LLC	Erie Wind		A	323693	Lackawanna	029	36	2012-02-01	15.0	0.0	0.0	0.0	0.0	WT	WND		36.8		
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		50.7		
Exelon Generation Company, LLC	High Acres 1		C	23767	Fairport	117	36	1991-06-01	3.2	3.2	3.2	3.2	3.2	IC	MTE		24.3		
Exelon Generation Company, LLC	High Acres 2		C	23767	Fairport	117	36	2008-02-28	6.4	6.4	6.4	6.4	6.4	IC	MTE		48.2		
Exelon Generation Company, LLC	James A. FitzPatrick		C	23598	Scriba	075	36	1975-07-01	882.0	858.9	858.9	848.1	850.3	NB	UR		6,174.3		
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		5.4		
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		52.5		
Exelon Generation Company, LLC	Monroe Livingston		B	24207	Scottsville	055	36	1988-11-01	2.4	2.4	2.4	2.4	2.4	IC	MTE		7.6		
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		25.7		
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		5.0		
Flat Rock Windpower II, LLC	Maple Ridge Wind 2		E	323611	Lowville	049	36	2007-12-01	90.8	90.7	90.7	90.8	90.8	WT	WND		218.6		
Flat Rock Windpower, LLC	Maple Ridge Wind 1		E	323574	Lowville	049	36	2006-01-01	231.0	231.0	231.0	231.0	231.0	WT	WND		570.5		
Freeport Electric	Freeport 1-2		K	1660	Freeport	059	36	1949-08-01	2.9	2.0	2.0	2.3	3.0	IC	FO2		0.0		
Freeport Electric	Freeport 1-3		K	1660	Freeport	059	36	1954-08-01	3.1	2.1	2.1	2.5	3.2	IC	FO2		0.0		
Freeport Electric	Freeport 1-4		K	1660	Freeport	059	36	1964-10-01	5.1	4.4	4.4	4.0	5.2	IC	FO2		0.1		
Freeport Electric	Freeport 2-3		K	1660	Freeport	059	36	1973-05-01	18.1	18.1	18.1	12.7	18.5	GT	KER		0.1		
Freeport Electric	Freeport CT 2		K	23818	Freeport	059	36	2004-03-01	60.5	50.3	50.3	48.2	50.2	GT	NG	KER	39.2		
GenOn Energy Management, LLC	Bowline 1		G	23526	West Haverstraw	087	36	1972-09-01	621.0	577.7	577.7	572.6	570.7	YES	ST	NG	FO6	979.9	
GenOn Energy Management, LLC	Bowline 2		G	23595	West Haverstraw	087	36	1974-05-01	621.0	567.4	567.4	558.1	566.4	YES	ST	NG	FO6	226.4	
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		177.6		
Helix Ravenswood, LLC	Ravenswood 01		J	23729	Queens	081	36	1967-07-01	18.6	8.8	11.5	8.7	11.4	GT	NG		0.4		
Helix Ravenswood, LLC	Ravenswood 09		J	24257	Queens	081	36	1970-07-01	25.0	21.7	27.6	0.0	0.0	YES	JE	KER	NG	0.2	(6)(I)
Helix Ravenswood, LLC	Ravenswood 10		J	24258	Queens	081	36	1970-08-01	25.0	21.2	27.0	19.2	22.2	YES	JE	KER	NG	2.4	
Helix Ravenswood, LLC	Ravenswood 11		J	24259	Queens	081	36	1970-08-01	25.0	20.2	25.7	17.7	23.1	YES	JE	KER	NG	2.5	
Helix Ravenswood, LLC	Ravenswood 2-1		J	24244	Queens	081	36	1970-12-01	42.9	40.4	51.4	30.6	41.7	YES	JE	NG	KER	2.2	(7)(I)
Helix Ravenswood, LLC	Ravenswood 2-2		J	24245	Queens	081	36	1970-12-01	42.9	37.6	47.8	32.0	41.9	YES	JE	NG	KER	2.3	(7)(I)
Helix Ravenswood, LLC	Ravenswood 2-3		J	24246	Queens	081	36	1970-12-01	42.9	39.2	49.9	30.7	37.3	YES	JE	NG	KER	2.0	(7)(I)
Helix Ravenswood, LLC	Ravenswood 2-4		J	24247	Queens	081	36	1970-12-01	42.9	39.8	50.6	30.9	41.6	YES	JE	NG	KER	2.6	(7)(I)
Helix Ravenswood, LLC	Ravenswood 3-1		J	24248	Queens	081	36	1970-08-01	42.9	40.5	51.5	30.7	40.8	YES	JE	NG	KER	1.5	(7)(I)
Helix Ravenswood, LLC	Ravenswood 3-2		J	24249	Queens	081	36	1970-08-01	42.9	38.1	48.5	29.7	40.3	YES	JE	NG	KER	2.2	(7)(I)
Helix Ravenswood, LLC	Ravenswood 3-4		J	24251	Queens	081	36	1970-08-01	42.9	35.8	45.5	29.8	40.8	YES	JE	NG	KER	2.6	(7)(I)

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Owner, Operator, and / or Billing Organization	Station	Unit	Zone	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(V) MW	2018 CRIS ^(A) MW		2018 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(U)		2017 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
Helix Ravenswood, LLC	Ravenswood CC 04		J	23820	Queens	081	36	2004-05-01	250.0	231.2	276.7	219.2	277.3	YES	CC	NG	F02	1,404.9	
Helix Ravenswood, LLC	Ravenswood ST 01		J	23533	Queens	081	36	1963-02-01	400.0	365.1	365.1	368.0	368.0	YES	ST	F06	NG	532.7	
Helix Ravenswood, LLC	Ravenswood ST 02		J	23534	Queens	081	36	1963-05-01	400.0	391.6	391.6	372.5	375.0	YES	ST	F06	NG	601.4	
Helix Ravenswood, LLC	Ravenswood ST 03		J	23535	Queens	081	36	1965-06-01	1,027.0	986.8	986.8	973.0	974.2	YES	ST	F06	NG	440.3	
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		133.9	
Indeck Energy Services of Silver Springs	Indeck-Silver Springs		C	23768	Silver Springs	121	36	1991-04-01	56.6	51.5	66.1	49.1	62.5	YES	CC	NG	F02	54.6	
Indeck-Corinth LP	Indeck-Corinth		F	23802	Corinth	091	36	1995-07-01	147.0	131.2	134.0	130.6	134.7	YES	CC	NG	F02	665.3	
Indeck-Olean LP	Indeck-Olean		A	23982	Olean	009	36	1993-12-01	90.6	79.4	88.5	78.7	87.8	YES	CC	NG	F02	83.1	
Indeck-Oswego LP	Indeck-Oswego		C	23783	Oswego	075	36	1990-05-01	57.4	51.6	66.7	48.9	61.4	YES	CC	NG	F02	55.8	
Indeck-Yerkes LP	Indeck-Yerkes		A	23781	Tonawanda	029	36	1990-02-01	59.9	49.7	60.5	47.7	56.7	YES	CC	NG	F02	48.8	
Innovative Energy Systems, Inc.	Auburn LFG		C	323710	Auburn	011	36	2010-01-01	2.1	0.0	0.0	0.0	0.0		IC	MTE		0.0	(8)(R)
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		42.6	
Innovative Energy Systems, Inc.	Clinton LFGE		D	323618	Morrisonville	019	36	2008-10-01	6.4	6.4	6.4	6.4	6.4		IC	MTE		30.8	
Innovative Energy Systems, Inc.	Colonie LFGTE		F	323577	Colonie	001	36	2006-03-01	6.4	6.4	6.4	6.4	6.4		IC	MTE		35.2	
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		29.7	
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		12.6	
Innovative Energy Systems, Inc.	Hyland LFGE		B	323620	Angolica	003	36	2008-09-08	4.8	4.8	4.8	4.8	4.8		IC	MTE		38.1	
Innovative Energy Systems, Inc.	Steuben County LF		C	323667	Bath	101	36	2012-08-01	3.2	3.2	3.2	3.2	3.2		IC	MTE		15.6	
Jamestown Board of Public Utilities	Jamestown 5		A	1658	Jamestown	013	36	1951-08-01	28.7	23.0	23.0	22.0	21.4		ST	NG	BIT	17.4	
Jamestown Board of Public Utilities	Jamestown 6		A	1658	Jamestown	013	36	1968-08-01	25.0	22.4	22.4	19.1	18.6		ST	NG	BIT	17.1	
Jamestown Board of Public Utilities	Jamestown 7		A	1659	Jamestown	013	36	2002-01-01	47.3	40.0	40.0	39.0	45.2		GT	NG		121.3	
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		246.3	
Tenaska Power Services Co.	Freeport CT 1		K	23764	Freeport	059	36	2004-06-01	60.0	48.3	51.3	46.2	46.4	YES	GT	NG	F02	85.7	
Long Island Power Authority	Babylon (RR)		K	323704	Babylon	103	36	1989-04-01	17.0	15.5	15.5	14.8	14.7		ST	REF		114.8	
Long Island Power Authority	Barrett 03		K	23706	Island Park	059	36	1970-06-01	18.0	17.9	23.4	16.3	19.8	YES	GT	NG	F02	3.7	
Long Island Power Authority	Barrett 04		K	23707	Island Park	059	36	1970-07-01	18.0	17.7	23.1	16.6	19.8	YES	GT	NG	F02	4.6	
Long Island Power Authority	Barrett 05		K	23708	Island Park	059	36	1970-07-01	18.0	17.8	23.3	15.4	20.7	YES	GT	NG	F02	3.4	
Long Island Power Authority	Barrett 06		K	23709	Island Park	059	36	1970-07-01	18.0	17.8	23.3	17.2	19.7	YES	GT	NG	F02	2.3	
Long Island Power Authority	Barrett 08		K	23711	Island Park	059	36	1970-07-01	18.0	17.3	22.6	15.9	20.3	YES	GT	NG	F02	2.9	
Long Island Power Authority	Barrett 09		K	23700	Island Park	059	36	1971-06-01	41.8	43.4	55.2	40.7	49.9	YES	JE	NG	F02	9.7	
Long Island Power Authority	Barrett 10		K	23701	Island Park	059	36	1971-06-01	41.8	42.7	54.3	41.6	50.4	YES	JE	NG	F02	8.9	
Long Island Power Authority	Barrett 11		K	23702	Island Park	059	36	1971-06-01	41.8	43.3	55.1	41.2	49.9	YES	JE	NG	F02	19.2	
Long Island Power Authority	Barrett 12		K	23703	Island Park	059	36	1971-06-01	41.8	44.0	56.0	40.7	50.4	YES	JE	NG	F02	14.4	
Long Island Power Authority	Barrett GT 01		K	23704	Island Park	059	36	1970-06-01	18.0	18.1	23.6	17.9	20.4	YES	GT	NG	F02	5.5	
Long Island Power Authority	Barrett GT 02		K	23705	Island Park	059	36	1970-06-01	18.0	17.4	22.7	16.9	20.3	YES	GT	NG	F02	2.4	
Long Island Power Authority	Barrett ST 01		K	23545	Island Park	059	36	1956-11-01	188.0	200.2	200.2	194.7	197.5	YES	ST	NG	F06	847.4	
Long Island Power Authority	Barrett ST 02		K	23546	Island Park	059	36	1963-10-01	188.0	197.5	197.5	193.7	192.5	YES	ST	NG	F06	433.3	
Long Island Power Authority	Bethpage 3		K	323564	Hicksville	059	36	2005-05-01	96.0	79.9	91.4	77.9	77.1		CC	NG		169.1	

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					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
Long Island Power Authority	Caithness_CC_1		K	323624	Brookhaven	103	36	2009-08-01	375.0	315.6	389.8	315.6	367.2	YES	CC	NG	F02	2,415.2	
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		0.3	
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		0.4	
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		0.4	
Long Island Power Authority	East Hampton GT 01		K	23717	E Hampton	103	36	1970-12-01	21.3	19.2	24.4	18.8	23.9		JE	F02		6.5	
Long Island Power Authority	Far Rockaway GT1		K	24212	Far Rockaway	081	36	2002-07-01	60.5	53.5	73.1	53.5	58.4		JE	NG		99.6	
Long Island Power Authority	Far Rockaway GT2		K	23815	Jamaica Bay	081	36	2003-07-02	60.5	55.4	75.7	54.5	54.3		JE	KER		7.4	
Long Island Power Authority	Glenwood GT 01		K	23712	Glenwood	059	36	1967-04-01	16.0	14.6	19.1	11.9	13.9		GT	F02		0.0	
Long Island Power Authority	Glenwood GT 02		K	23688	Glenwood	059	36	1972-06-01	55.0	52.7	68.8	53.4	62.5		GT	F02		0.2	
Long Island Power Authority	Glenwood GT 03		K	23689	Glenwood	059	36	1972-06-01	55.0	52.7	68.8	54.2	64.5		GT	F02		0.6	
Long Island Power Authority	Glenwood GT 04		K	24219	Glenwood	059	36	2002-06-01	53.0	40.3	47.6	41.0	46.1	YES	GT	NG	F02	57.9	
Long Island Power Authority	Glenwood GT 05		K	24220	Glenwood	059	36	2002-06-01	53.0	40.0	47.3	39.8	46.3	YES	GT	NG	F02	42.8	
Long Island Power Authority	Greenport GT1		K	23814	Greenport	103	36	2003-07-02	54.0	51.9	52.4	53.5	55.3		JE	F02		8.8	
Long Island Power Authority	Hempstead (RR)		K	23647	Hempstead	059	36	1989-10-01	78.6	73.7	73.7	74.3	75.2		ST	REF		593.5	
Long Island Power Authority	Holtsville 01		K	23690	Holtsville	103	36	1974-07-01	56.7	55.1	70.1	57.4	64.8		JE	F02		0.6	
Long Island Power Authority	Holtsville 02		K	23691	Holtsville	103	36	1974-07-01	56.7	55.3	70.3	53.1	63.5		JE	F02		0.4	
Long Island Power Authority	Holtsville 03		K	23692	Holtsville	103	36	1974-07-01	56.7	52.1	66.3	52.6	63.1		JE	F02		1.0	
Long Island Power Authority	Holtsville 04		K	23693	Holtsville	103	36	1974-07-01	56.7	52.7	67.0	52.4	63.2		JE	F02		2.4	
Long Island Power Authority	Holtsville 05		K	23694	Holtsville	103	36	1974-07-01	56.7	53.3	67.8	55.0	64.8		JE	F02		0.4	
Long Island Power Authority	Holtsville 06		K	23695	Holtsville	103	36	1975-07-01	56.7	53.0	67.4	48.9	62.3		JE	F02		3.0	
Long Island Power Authority	Holtsville 07		K	23696	Holtsville	103	36	1975-07-01	56.7	55.1	70.1	53.3	64.1		JE	F02		0.8	
Long Island Power Authority	Holtsville 08		K	23697	Holtsville	103	36	1975-07-01	56.7	57.4	73.0	52.4	66.4		JE	F02		1.2	
Long Island Power Authority	Holtsville 09		K	23698	Holtsville	103	36	1975-07-01	56.7	57.5	73.1	56.1	71.2		JE	F02		0.9	
Long Island Power Authority	Holtsville 10		K	23699	Holtsville	103	36	1975-07-01	56.7	55.1	70.1	53.8	66.7		JE	F02		2.6	
Long Island Power Authority	Huntington (RR)		K	323705	Huntington	103	36	1991-12-01	28.0	24.7	24.7	24.3	24.3		ST	REF		193.9	
Long Island Power Authority	Islip (RR)		K	323679	Ronkonkoma	103	36	1990-03-01	12.5	11.2	11.2	8.3	8.7		ST	REF		55.9	
Long Island Power Authority	Long Island Solar Farm		K	323691	Upton	103	36	2011-11-01	31.5	31.5	31.5	31.5	31.5		PV	SUN		47.3	
Long Island Power Authority	Northport 1		K	23551	Northport	103	36	1967-07-01	387.0	395.0	395.0	399.5	397.0	YES	ST	NG	F06	342.0	
Long Island Power Authority	Northport 2		K	23552	Northport	103	36	1968-06-01	387.0	396.0	396.0	396.5	398.7	YES	ST	NG	F06	132.0	
Long Island Power Authority	Northport 3		K	23553	Northport	103	36	1972-07-01	387.0	399.2	399.2	399.5	392.5	YES	ST	NG	F06	289.8	
Long Island Power Authority	Northport 4		K	23650	Northport	103	36	1977-12-01	387.0	399.2	399.2	380.2	383.5	YES	ST	NG	F06	863.6	
Long Island Power Authority	Northport GT		K	23718	Northport	103	36	1967-03-01	16.0	13.8	18.0	11.7	15.5		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			
Long Island Power Authority	Oyster Bay (LF)		K	5009	Bethpage	059	36	1986-07-01	1.3	0.0	0.0	0.0	0.0		IC	MTE			
Long Island Power Authority	Pilgrim GT1		K	24216	Brentwood	103	36	2002-08-01	50.0	45.6	45.6	45.3	46.4		GT	NG		37.3	
Long Island Power Authority	Pilgrim GT2		K	24217	Brentwood	103	36	2002-08-01	50.0	46.2	46.2	45.1	46.7		GT	NG		34.8	
Long Island Power Authority	Pineawn Power 1		K	323563	Babylon	103	36	2005-06-01	82.0	78.0	78.0	75.7	78.2	YES	CC	NG	KER	126.1	
Long Island Power Authority	Port Jefferson 3		K	23555	Port Jefferson	103	36	1958-11-01	188.0	194.5	194.5	191.2	197.0	YES	ST	F06	NG	86.3	

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TABLE III-2 (cont'd) Existing Generating Facilities

Owner, Operator, and / or Billing Organization	Station	Unit	Zone	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(V) MW	2018 CRIS ^(A) MW		2018 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(U)		2017 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
Long Island Power Authority	Port Jefferson 4		K	23616	Port Jefferson	103	36	1960-11-01	188.0	198.7	198.7	194.0	198.7	YES	ST	F06	NG	112.2	
Long Island Power Authority	Port Jefferson GT 01		K	23713	Port Jefferson	103	36	1966-12-01	16.0	14.1	18.4	12.6	15.5	GT	F02			0.0	
Long Island Power Authority	Port Jefferson GT 02		K	24210	Port Jefferson	103	36	2002-07-01	53.0	42.0	49.6	41.0	46.4	YES	GT	NG	F02	23.7	
Long Island Power Authority	Port Jefferson GT 03		K	24211	Port Jefferson	103	36	2002-07-01	53.0	41.1	48.6	41.0	47.0	YES	GT	NG	F02	19.1	
Long Island Power Authority	S Hampton 1		K	23720	South Hampton	103	36	1963-03-01	11.5	10.3	13.5	8.5	10.9	GT	F02			0.9	
Long Island Power Authority	Shoreham 1		K	23715	Shoreham	103	36	1971-07-01	52.9	48.9	63.9	49.3	67.5	GT	F02			0.5	
Long Island Power Authority	Shoreham 2		K	23716	Shoreham	103	36	1984-04-01	18.6	18.5	23.5	16.0	22.8	JE	F02			0.2	
Long Island Power Authority	Shoreham GT3		K	24213	Shoreham	103	36	2002-08-01	50.0	45.4	45.4	45.8	46.2	GT	F02			2.5	
Long Island Power Authority	Shoreham GT4		K	24214	Shoreham	103	36	2002-08-01	50.0	43.9	43.9	45.2	46.0	GT	F02			2.0	
Long Island Power Authority	Smithtown (LF)		K	5010	Smithtown	103	36	1985-12-01	1.1	0.0	0.0	0.0	0.0	IC	MTE				
Long Island Power Authority	South Oaks Hosp		K	5011	Amityville	103	36	1990-06-01	1.0	0.0	0.0	0.0	0.0	IC	NG				
Long Island Power Authority	Southold 1		K	23719	Southold	103	36	1964-08-01	14.0	12.3	16.1	10.2	12.7	GT	F02			0.1	
Long Island Power Authority	Wading River 1		K	23522	Shoreham	103	36	1989-08-01	79.5	81.2	106.1	78.7	99.6	GT	F02			1.3	
Long Island Power Authority	Wading River 2		K	23547	Shoreham	103	36	1989-08-01	79.5	81.3	106.2	75.5	101.8	GT	F02			0.9	
Long Island Power Authority	Wading River 3		K	23601	Shoreham	103	36	1989-08-01	79.5	81.3	106.2	77.8	100.5	GT	F02			3.5	
Long Island Power Authority	West Babylon 4		K	23714	West Babylon	103	36	1971-08-01	52.4	49.0	64.0	50.0	66.9	GT	F02			0.7	
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				
Lyonsdale Biomass, LLC	Lyonsdale		E	23803	Lyonsdale	049	36	1992-08-01	21.1	20.2	20.2	19.3	20.3	ST	WD			97.7	
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			20.8	
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			542.2	
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			48.8	
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			39.6	
Modern Innovative Energy, LLC	Modern LF		A	323580	Lewiston	063	36	2006-02-01	6.4	6.4	6.4	6.4	6.4	IC	MTE			21.4	
New Athens Generating Company, LLC	Athens 1		F	23668	Athens	039	36	2004-05-01	441.0	316.6	399.9	333.5	401.8	YES	CC	NG	F02	1,697.8	
New Athens Generating Company, LLC	Athens 2		F	23670	Athens	039	36	2004-05-01	441.0	315.6	398.6	329.5	406.9	YES	CC	NG	F02	1,045.6	
New Athens Generating Company, LLC	Athens 3		F	23677	Athens	039	36	2004-05-01	441.0	312.8	395.1	331.1	394.1	YES	CC	NG	F02	1,147.4	
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			4.9	
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			8.3	
New York Power Authority	Astoria CC 1		J	323568	Queens	081	36	2006-01-01	288.0	246.2	270.2	234.2	260.0	YES	CC	NG	F02	2,242.3	(G)
New York Power Authority	Astoria CC 2		J	323569	Queens	081	36	2006-01-01	288.0	246.2	270.2	234.2	260.0	YES	CC	NG	F02		
New York Power Authority	Blenheim - Gilboa 1		F	23756	Gilboa NY	095	36	1973-07-01	290.0	290.7	290.7	292.4	292.4	PS	WAT			82.1	
New York Power Authority	Blenheim - Gilboa 2		F	23757	Gilboa NY	095	36	1973-07-01	290.0	291.2	291.2	291.8	292.0	PS	WAT			174.2	
New York Power Authority	Blenheim - Gilboa 3		F	23758	Gilboa NY	095	36	1973-07-01	290.0	291.7	291.7	291.8	292.5	PS	WAT			22.9	
New York Power Authority	Blenheim - Gilboa 4		F	23759	Gilboa NY	095	36	1973-07-01	290.0	291.5	291.5	292.6	293.0	PS	WAT			72.2	
New York Power Authority	Brentwood		K	24164	Brentwood	103	36	2001-08-01	47.0	47.1	47.1	45.5	46.4	GT	NG			50.2	
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			14.1	
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			16.9	
New York Power Authority	Crescent 3		F	24018	Crescent	001	36	1991-07-01	3.0	3.2	3.2	3.0	3.0	HY	WAT			17.0	

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Owner, Operator, and / or Billing Organization	Station	Unit	Zone	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(V) MW	2018 CRIS ^(A) MW		2018 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(U)		2017 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
					New York Power Authority	Crescent 4				F	24018	Crescent	001			36	1991-07-01		
New York Power Authority	Flynn		K	23794	Holtsville	103	36	1994-05-01	170.0	135.5	168.4	137.7	162.7	YES	CC	NG	FO2	969.3	
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			52.2	
New York Power Authority	Gowanus 6		J	24157	Brooklyn	047	36	2001-08-01	47.0	46.1	46.1	39.9	39.9	GT	NG			37.6	
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			87.4	
New York Power Authority	Greenport IC 4		K	1652	Greenport	103	36	1957-06-06	1.2	1.7	1.7	0.9	1.1	IC	FO2			0.0	
New York Power Authority	Greenport IC 5		K	1652	Greenport	103	36	1965-07-08	1.8	1.7	1.7	1.4	1.6	IC	FO2			0.0	
New York Power Authority	Greenport IC 6		K	1652	Greenport	103	36	1971-09-17	3.8	2.7	2.7	3.0	2.6	IC	FO2			0.0	
New York Power Authority	Harlem River 1		J	24160	Bronx	005	36	2001-08-01	47.0	46.0	46.0	39.9	39.9	GT	NG			12.7	
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			10.9	
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			16.2	
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			12.7	
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			16.5	
New York Power Authority	Jarvis 2		E	23743	Hinckley	065	36	1991-07-01	4.5	4.5	4.5	4.5	4.5	HY	WAT			20.6	
New York Power Authority	Kent		J	24152	Brooklyn	047	36	2001-08-01	47.0	46.9	46.9	46.0	46.6	GT	NG			39.0	
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			443.9	
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			15,785.7	
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			27.4	
New York Power Authority	Pouch		J	24155	Staten Island	085	36	2001-08-01	47.0	47.1	47.1	45.4	46.0	GT	NG			45.9	
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	827.0	HY	WAT			7,651.5	
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			30.0	
New York Power Authority	Vernon Blvd 3		J	24163	Queens	081	36	2001-08-01	47.0	43.8	43.8	39.9	39.9	GT	NG			21.4	
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			6.4	
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			11.9	
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			14.7	
New York Power Authority	Vischer Ferry 4		F	24020	Vischer Ferry	091	36	1991-07-01	3.0	3.2	3.2	3.0	2.9	HY	WAT			16.7	
New York State Elec. & Gas Corp.	AA Dairy		C	5013	Ithaca	109	36	1998-06-01	0.1	0.0	0.0	0.0	0.0	IC	MTE				
New York State Elec. & Gas Corp.	Alice Falls 1		D	23915	Ausable	019	36	1991-11-01	1.5	1.6	1.6	0.0	0.0	HY	WAT				
New York State Elec. & Gas Corp.	Alice Falls 2		D	23915	Ausable	019	36	1991-11-01	0.6	0.6	0.6	0.0	0.0	HY	WAT				
New York State Elec. & Gas Corp.	Allegheny 8		C	23528	Kittanning PA	005	42	1990-10-01	16.0	14.7	14.7	16.0	16.0	HY	WAT			93.7	
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			99.0	
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				
New York State Elec. & Gas Corp.	Auburn - No. Div.St		C	5015	Auburn	011	36	1992-12-01	0.8	0.0	0.0	0.0	0.0	HY	WAT				
New York State Elec. & Gas Corp.	Auburn - State St.		C	24147	Auburn	011	36	1995-01-01	7.4	5.8	8.2	3.7	7.3	GT	NG			0.1	
New York State Elec. & Gas Corp.	Broome LFG E		C	323600	Binghamton	007	36	2007-09-01	2.4	2.1	2.1	2.1	2.1	IC	MTE			9.6	
New York State Elec. & Gas Corp.	Chasm Falls Hydro		D	5016	Chateaugay	033	36	1982-03-01	1.6	0.0	0.0	0.0	0.0	HY	WAT				
New York State Elec. & Gas Corp.	Croton Falls Hydro		I	5017	North Salem	119	36	1987-01-01	0.2	0.0	0.0	0.0	0.0	HY	WAT				
New York State Elec. & Gas Corp.	Harris Lake		D	5018	Newcomb	031	36	1967-08-01	1.7	0.0	0.0	0.0	0.0	IC	FO2				

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Owner, Operator, and / or Billing Organization	Station	Unit	Zone	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(V) MW	2018 CRIS ^(A) MW		2018 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(U)		2017 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
New York State Elec. & Gas Corp.	Montville Falls		C	5019	Moravia	011	36	1992-08-01	0.2	0.0	0.0	0.0	0.0	HY	WAT				
New York State Elec. & Gas Corp.	Waterloo 2		C	5020	Waterloo	099	36	1998-06-01	0.5	0.0	0.0	0.0	0.0	HY	WAT				
New York State Elec. & Gas Corp.	Waterloo 3		C	5021	Waterloo	099	36	1998-06-01	0.5	0.0	0.0	0.0	0.0	HY	WAT				
New York State Elec. & Gas Corp.	Waterloo 4		C	5022	Waterloo	099	36	1998-06-01	0.5	0.0	0.0	0.0	0.0	HY	WAT				
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			6.6	
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			21.5	
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			27.4	
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			20.6	
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			10.6	
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			4.2	
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			8.5	
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			5.1	
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			5.2	
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			21.4	
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			0.0	
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			0.0	
New York State Elec. & Gas Corp.	Mechanicville 1		F	23645	Stillwater	091	36	1983-09-01	9.2	10.0	10.0	9.2	9.3	HY	WAT			41.3	
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			30.4	
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				
New York State Elec. & Gas Corp.	Lower Saranac 2		D	23913	Schuyler Falls	019	36	1990-10-01	3.2	3.5	3.5	0.0	0.0	HY	WAT				
New York State Elec. & Gas Corp.	Lower Saranac 3		D	23913	Schuyler Falls	019	36	1990-10-01	0.3	2.9	2.9	0.0	0.0	HY	WAT				
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			241.6	
Niagara Mohawk Power Corp.	Boralex - South Glens Falls		F	24028	Moreau	091	36	1994-12-01	13.8	14.8	14.8	0.0	0.0	HY	WAT			83.7	
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			30.9	
Niagara Mohawk Power Corp.	Fortis - Dolgeville		E	23807	Dolgeville	043	36	1985-07-01	5.0	6.3	6.3	0.0	0.0	HY	WAT			0.1	
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			12.6	
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			64.9	
Niagara Mohawk Power Corp.	General Mills Inc		A	23808	Buffalo	029	36	1988-12-01	3.8	3.8	5.0	0.0	0.0	GT	NG			2.8	
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			371.5	(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			62.1	
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			221.8	
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			35.4	
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				
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				
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			0.9	

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TABLE III-2 (cont'd) Existing Generating Facilities

Owner, Operator, and / or Billing Organization	Station	Unit	Zone	PTID	Location			In-Service Date	Name Plate Rating ^(V)	2018 CRIS ^(A)		2018 Capability ^(B)		D U A L	Unit Type	Fuel ^(U)		2017 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			YYYY-MM-DD	MW	SUM	WIN			SUM	WIN		
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		2.8		
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		10.6		
Niagara Mohawk Power Corp.	Beaver Falls #2		E	23633	Beaver Falls	049	36	1986-01-01	1.0	0.0	0.0	0.0	0.0	HY	WAT		5.9		
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		5.0		
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		2.3		
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		17.3		
Niagara Mohawk Power Corp.	Boralex - Middle Falls		F	23643	Easton	115	36	1989-12-01	2.2	0.0	0.0	0.0	0.0	HY	WAT		10.7		
Niagara Mohawk Power Corp.	Burrstone EC, LLC LU		E	23633	Utica	065	36	2009-11-01	1.1	0.0	0.0	0.0	0.0	IC	NG		1.0		
Niagara Mohawk Power Corp.	Burrstone EC, LLC U		E	23633	Utica	065	36	2009-11-01	2.2	0.0	0.0	0.0	0.0	IC	NG		0.2		
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		1.8		
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		22.2		
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		7.1		
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		4.9		
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		4.8		
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		13.2		
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		5.5		
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		8.8		
Niagara Mohawk Power Corp.	Cal Ban Power		A	23774	Allegany	003	36	1995-06-01	0.1	0.0	0.0	0.0	0.0	IC	NG				
Niagara Mohawk Power Corp.	Cellu-Tissue Corp - Nat. 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		1.4		
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				
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		3.3		
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		50.6		
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		1.2		
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		18.8		
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		3.0		
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		6.9		
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		11.4		
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		2.1		
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		1.0		
Niagara Mohawk Power Corp.	Empire Hydro Partners		E	23633	Port Leyden	049	36	1984-11-01	1.0	0.0	0.0	0.0	0.0	HY	WAT		4.7		
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 Pruyn		F	23643	Glens Falls	113	36	1989-12-01	29.0	0.0	0.0	0.0	0.0	HY	WAT				
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		12.7		

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TABLE III-2 (cont'd) Existing Generating Facilities

Owner, Operator, and / or Billing Organization	Station	Unit	Zone	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(V) MW	2018 CRIS ^(A) MW		2018 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(U)		2017 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
Niagara Mohawk Power Corp.	Fort Miller Assoc		F	23643	Schuylerville	091	36	1985-10-01	5.0	0.0	0.0	0.0	0.0	HY	WAT			27.4	
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			7.7	
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				
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			1.4	
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			41.1	
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			16.0	
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			0.6	
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				
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			3.4	
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				
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				
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			2.0	
Niagara Mohawk Power Corp.	Kings Falls		E	23633	Copenhagen	049	36	1988-05-01	1.6	0.0	0.0	0.0	0.0	HY	WAT				
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				
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				
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			13.5	
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			13.4	
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			22.8	
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			8.7	
Niagara Mohawk Power Corp.	Mountaineer Massage Spa		F	23643	Wevertown	113	36	2009-11-01		0.0	0.0	0.0	0.0	HY	WAT				
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			8.1	
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			25.6	
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				
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			2.1	
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			13.9	
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			4.7	
Niagara Mohawk Power Corp.	Oswego Hydro Partners LP		C	23634	Phoenix	075	36	1990-12-01	3.4	0.0	0.0	0.0	0.0	HY	WAT			11.5	
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			1.9	
Niagara Mohawk Power Corp.	Sandy Hollow Hydro Assoc.		E	23633	Sandy Hollow	045	36	1986-09-01	0.6	0.0	0.0	0.0	0.0	HY	WAT			1.0	
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				
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		F	23643	Middle Falls	115	36	1987-12-01	10.5	0.0	0.0	0.0	0.0	HY	WAT			28.5	
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			7.4	
Niagara Mohawk Power Corp.	Stillwater Hydro Partners LP		F	23643	Stillwater	091	36	1993-04-01	3.4	0.0	0.0	0.0	0.0	HY	WAT			15.3	
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			14.6	

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Owner, Operator, and / or Billing Organization	Station	Unit	Zone	PTID	Location			In-Service Date	Name Plate Rating ^(V)	2018 CRIS ^(A)		2018 Capability ^(B)		D U A L	Unit Type	Fuel ^(U)		2017 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
					YYYY-MM-DD	MW	SUM	WIN	SUM	WIN									
Niagara Mohawk Power Corp.	Sustainable Bioelectric LLC		A	23774	Wheatfield	063	36	2014-03-01	0.6	0.0	0.0	0.0	0.0	IC	MTE			0.8	
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			8.5	
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			9.3	
Niagara Mohawk Power Corp.	Town of Wells (Lake Algon.)		F	23643	Wells	041	36	1987-12-01	0.5	0.0	0.0	0.0	0.0	HY	WAT			1.8	
Niagara Mohawk Power Corp.	Tri-City JATC		F	23643	Latham	001	36	2009-11-01		0.0	0.0	0.0	0.0	IC	NG				
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			15.8	
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			1.1	
Niagara Mohawk Power Corp.	Valatie Falls		F	23643	Valatie	021	36	1992-12-01	0.1	0.0	0.0	0.0	0.0	HY	WAT			0.5	
Niagara Mohawk Power Corp.	Valley Falls Assoc.		F	23643	Valley Falls	083	36	1985-08-01	2.5	0.0	0.0	0.0	0.0	HY	WAT			9.0	
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				
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				
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				
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			0.6	
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			0.3	
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			51.8	
Nine Mile Point Nuclear Station, LLC	Nine Mile Point 1		C	23575	Scriba	075	36	1969-11-01	641.8	630.5	630.5	624.9	627.2	NB	UR			5,024.4	
Nine Mile Point Nuclear Station, LLC	Nine Mile Point 2		C	23744	Scriba	075	36	1988-08-01	1,399.0	1,246.6	1,246.6	1,291.7	1,302.7	NB	UR			11,016.4	
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			175.6	
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			210.4	
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			208.5	
Noble Clinton Windpark 1, LLC	Clinton Wind Power		D	323605	Clinton	019	36	2008-04-09	100.5	100.5	100.5	100.5	100.5	WT	WND			170.9	
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			173.2	
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			272.1	
Northbrook Lyons Falls, LLC	Hampshire Paper		E	323593	Gouverneur	089	36	1987-03-01	3.4	3.5	3.5	3.4	3.4	HY	WAT			20.2	
Northbrook Lyons Falls, LLC	Lyons Falls Hydro		E	23570	Lyons Falls	049	36	1986-01-01	8.0	7.3	7.3	8.0	8.0	HY	WAT			46.0	
NRG Power Marketing LLC	Arthur Kill GT 1		J	23520	Staten Island	085	36	1970-06-01	20.0	16.5	21.6	11.9	13.7	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	334.7	341.8	ST	NG			563.6	
NRG Power Marketing LLC	Arthur Kill ST 3		J	23513	Staten Island	085	36	1969-06-01	535.5	518.0	518.0	515.7	522.9	ST	NG			263.1	
NRG Power Marketing LLC	Astoria GT 2-1		J	24094	Queens	081	36	1970-06-01	46.5	41.2	50.7	35.8	44.6	YES	JE	KER	NG	3.2	
NRG Power Marketing LLC	Astoria GT 2-2		J	24095	Queens	081	36	1970-06-01	46.5	42.4	52.2	34.1	44.6	YES	JE	KER	NG	1.9	
NRG Power Marketing LLC	Astoria GT 2-3		J	24096	Queens	081	36	1970-06-01	46.5	41.2	50.7	35.5	45.8	YES	JE	KER	NG	3.0	
NRG Power Marketing LLC	Astoria GT 2-4		J	24097	Queens	081	36	1970-06-01	46.5	41.0	50.5	35.2	45.5	YES	JE	KER	NG	2.3	
NRG Power Marketing LLC	Astoria GT 3-1		J	24098	Queens	081	36	1970-06-01	46.5	41.2	50.7	33.2	43.3	YES	JE	KER	NG	1.9	
NRG Power Marketing LLC	Astoria GT 3-2		J	24099	Queens	081	36	1970-06-01	46.5	43.5	53.5	34.8	44.3	YES	JE	KER	NG	2.8	
NRG Power Marketing LLC	Astoria GT 3-3		J	24100	Queens	081	36	1970-06-01	46.5	43.0	52.9	34.5	44.3	YES	JE	KER	NG	2.2	
NRG Power Marketing LLC	Astoria GT 3-4		J	24101	Queens	081	36	1970-06-01	46.5	43.0	52.9	36.0	45.1	YES	JE	KER	NG	3.5	

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TABLE III-2 (cont'd) Existing Generating Facilities

Owner, Operator, and / or Billing Organization	Station	Unit	Zone	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(V) MW	2018 CRIS ^(A) MW		2018 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(U)		2017 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
NRG Power Marketing LLC	Astoria GT 4-1		J	24102	Queens	081	36	1970-07-01	46.5	42.6	52.4	34.7	45.6	YES	JE	KER	NG	1.6	
NRG Power Marketing LLC	Astoria GT 4-2		J	24103	Queens	081	36	1970-07-01	46.5	41.4	51.0	33.9	44.8	YES	JE	KER	NG	1.8	
NRG Power Marketing LLC	Astoria GT 4-3		J	24104	Queens	081	36	1970-07-01	46.5	41.1	50.6	34.6	44.9	YES	JE	KER	NG	3.7	
NRG Power Marketing LLC	Astoria GT 4-4		J	24105	Queens	081	36	1970-07-01	46.5	42.8	52.7	33.0	45.1	YES	JE	KER	NG	1.5	
NRG Power Marketing LLC	Oswego 5		C	23606	Oswego	075	36	1976-02-01	901.8	850.3	850.3	821.5	825.5		ST	FO6		18.1	
NRG Power Marketing LLC	Oswego 6		C	23613	Oswego	075	36	1980-07-01	901.8	835.2	835.2	816.5	828.7	YES	ST	FO6	NG	21.6	
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			
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			
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			
Orange and Rockland Utilities	Buttermilk Falls		G	5055	Highland Falls	071	36	1986-12-01	0.1	0.0	0.0	0.0	0.0		HY	WAT			
Orange and Rockland Utilities	Intl. Crossroads		G	5056	Mahwah NJ	003	34	1987-12-01	3.0	0.0	0.0	0.0	0.0	YES	IC	NG	FO2		
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			
Orange and Rockland Utilities	Middletown LFG		G	5058	Goshen	071	36	1988-12-01	3.0	0.0	0.0	0.0	0.0		IC	MTE			
PSEG Energy Resource & Trade, LLC	Bethlehem Energy Center		F	323570	Bethlehem	001	36	2005-07-01	893.1	835.0	924.8	787.2	862.5	YES	CC	NG	FO2	5,303.7	
R.E. Ginna Nuclear Power Plant, LLC	R. E. Ginna		B	23603	Ontario	117	36	1970-07-01	614.0	582.0	582.0	580.6	581.1		NP	UR		4,655.2	
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	FO2	190.7	
Rochester Gas and Electric Corp.	Mills Mills		B	5059	Fillmore	003	36	1906-07-01	0.2	0.0	0.0	0.0	0.0		HY	WAT			
Rochester Gas and Electric Corp.	Mt Morris		B	5060	Mt Morris	051	36	1916-07-01	0.3	0.0	0.0	0.0	0.0		HY	WAT			
Rochester Gas and Electric Corp.	Station 2 1		B	23604	Rochester	055	36	1913-07-01	8.5	6.5	6.5	8.5	8.5		HY	WAT		28.7	
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		5.9	
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		59.8	
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		7.5	
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		76.9	
Rockville Centre, Village of	Charles P Keller 07		K	1661	Rockville Centre	059	36	1942-09-01	2.0	2.0	2.0	1.9	1.9		IC	FO2		0.0	
Rockville Centre, Village of	Charles P Keller 08		K	1661	Rockville Centre	059	36	1950-09-01	2.4	2.8	2.8	0.0	0.0		IC	FO2		0.0	(9)(R)
Rockville Centre, Village of	Charles P Keller 09		K	1661	Rockville Centre	059	36	1954-09-01	3.5	3.3	3.3	3.4	3.4	YES	IC	FO2	NG	0.1	
Rockville Centre, Village of	Charles P Keller 10		K	1661	Rockville Centre	059	36	1954-09-01	3.5	3.2	3.2	3.4	3.4	YES	IC	FO2	NG	0.3	
Rockville Centre, Village of	Charles P Keller 11		K	1661	Rockville Centre	059	36	1962-09-01	5.2	5.2	5.2	5.0	5.0	YES	IC	FO2	NG	0.2	
Rockville Centre, Village of	Charles P Keller 12		K	1661	Rockville Centre	059	36	1967-09-01	5.5	5.5	5.5	5.3	5.3	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	5.3	5.3	YES	IC	FO2	NG	0.2	
Rockville Centre, Village of	Charles P Keller 14		K	1661	Rockville Centre	059	36	1994-09-01	6.2	6.3	6.3	5.9	5.9	YES	IC	FO2	NG	0.9	
SBF New York, LLC	Beaver Falls		E	23983	Beaver Falls	049	36	1995-03-01	107.8	80.2	94.9	81.4	95.7	YES	CC	NG	FO2	5.7	
SBF New York, LLC	Syracuse		C	23985	Syracuse	067	36	1993-09-01	102.7	86.8	107.3	83.3	97.1	YES	CC	NG	FO2	20.6	
Selkirk Cogen Partners, L.P.	Selkirk-I		F	23801	Selkirk	001	36	1992-03-01	107.2	82.1	107.2	78.1	104.3	YES	CC	NG	FO2	28.7	
Selkirk Cogen Partners, L.P.	Selkirk-II		F	23799	Selkirk	001	36	1994-09-01	338.8	291.3	380.5	282.1	325.9	YES	CC	NG	FO2	200.4	
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		67.2	
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		122.0	(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			

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TABLE III-2 (cont'd) Existing Generating Facilities

Owner, Operator, and / or Billing Organization	Station	Unit	Zone	PTID	Location			In-Service Date YYYY-MM-DD	Name Plate Rating ^(V) MW	2018 CRIS ^(A) MW		2018 Capability ^(B) MW		D U A L	Unit Type	Fuel ^(U)		2017 Net ^(C) Energy GWh	Notes
					Town	Cnty	St			SUM	WIN	SUM	WIN			Type 1	Type 2		
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				
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				
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				
Seneca Power Partners, L.P.	Allegheny		B	23514	Hume	003	36	1995-03-01	67.0	62.9	82.2	62.5	62.0	CC	NG			33.1	
Seneca Power Partners, L.P.	Batavia		B	24024	Batavia	037	36	1992-06-01	67.3	57.1	71.7	48.8	59.6	CC	NG			20.2	
Seneca Power Partners, L.P.	Carthage Energy		E	23857	Carthage	045	36	1991-08-01	62.9	59.0	70.6	56.5	64.2	YES	CC	NG	FO2	4.9	
Seneca Power Partners, L.P.	Hillburn GT		G	23639	Hillburn	087	36	1971-04-01	46.5	37.9	51.8	35.1	44.9	YES	JE	NG	KER	0.4	
Seneca Power Partners, L.P.	Shoemaker GT		G	23640	Middletown	071	36	1971-05-01	41.9	33.1	45.2	32.4	41.8	YES	JE	NG	KER	0.4	
Seneca Power Partners, L.P.	Sterling		E	23777	Sherrill	065	36	1991-06-01	65.3	57.4	72.1	50.4	63.4	CC	NG			12.9	
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			268.4	
Somerset Operating Company, LLC	Somerset		A	23543	Somerset	063	36	1984-08-01	655.1	686.5	686.5	685.9	691.5	ST	BIT			347.3	
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				
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			279.9	
TransAlta Energy Marketing (U.S.) Inc.	Saranac Energy		D	23793	Plattsburgh	019	36	1994-06-01	285.6	253.7	298.4	246.1	271.3	CC	NG			61.0	
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			8.3	
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			7.1	
Wheelabrator Hudson Falls, LLC	Wheelabrator Hudson Falls		F	23798	Hudson Falls	115	36	1991-10-01	14.4	12.7	12.7	10.9	10.3	ST	REF			71.1	
Wheelabrator Westchester, LP	Wheelabrator Westchester		H	23653	Peeckskill	119	36	1984-04-01	59.7	53.5	53.5	52.6	51.1	ST	REF			394.3	
									44,018.8	40,140.3	43,104.8	39,065.5	41,468.3					131,182.9	

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NOTES FOR TABLE III-2 (Existing Generating Facilities)

Note	Owner / Operator	Station Unit	Zone	PTID	Description
1	Binghamton BOP, LLC	Binghamton	C	23790	Unit Retired on 1/9/2018.
2	Calpine Energy Services LP	Stony Brook	K	24151	BTM:NG Resources - Summer and Winter Net-ICAP replaces Summer Capability and Winter Capability values
3	Emera Energy U.S. Subsidiary No. 1, Inc.	Greenidge 4	C	23583	Unit Reactivated on 5/1/2017.
4	Erie Blvd. Hydro - Seneca Oswego	Fulton 1	C	24041	Unit Reactivated on 2/1/2018.
5	Erie Blvd. Hydro - Seneca Oswego	Fulton 2	C	24041	Unit Reactivated on 2/1/2018.
6	Helix Ravenswood, LLC	Ravenswood 09	J	24257	Unit became ICAP Ineligible on 11/1/2017.
7	Helix Ravenswood, LLC	Ravenswood GTs	J	Various	Unit became ICAP Ineligible on 4/1/2018.
8	Innovative Energy Systems, Inc.	Auburn LFG	C	323710	Unit Retired on 3/16/2017.
9	Rockville Centre, Village of	Charles P Keller 08	K	1661	Unit Retired on 12/31/2017.
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 2018 ICAP Market. Winter Capability reflects DMNC values that were applicable to the Winter 2017-2018 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	Reactivated Generator	A-K	Various	Unit(s) returned to service from mothballed status or from a Mothball Outage as defined in the MST.
E	Various	Behind-the-Meter: Net Generation Resource	A-K	Various	Units that are Behind the Meter Net Generation Resources.
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 2017 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.
V	Various	Generating Units	A-K	Various	Typically, Name Plate refers to a historical rating and may not reflect the most current value.

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Table III-3a: Capability by Zone and Type – Summer 2018

<i>Generator Type</i>		ZONE											TOTAL
		A	B	C	D	E	F	G	H	I	J	K	
Summer Capability Period (MW) ⁽²⁾													
<i>Fossil</i>	Steam Turbine (Oil)	0.0	0.0	821.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	821.5
	Steam Turbine (Oil & Gas)	0.0	0.0	816.5	0.0	0.0	0.0	2,477.5	0.0	0.0	2,799.6	2,349.3	8,442.9
	Steam Turbine (Gas)	41.1	0.0	104.3	0.0	0.0	0.0	360.2	0.0	0.0	1,023.2	0.0	1,528.8
	Steam Turbine (Coal)	685.9	0.0	293.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	979.4
	Combined Cycle (Oil & Gas)	393.5	0.0	274.0	81.1	137.9	3,015.9	0.0	0.0	0.0	3,329.6	577.2	7,809.2
	Combined Cycle (Gas)	0.0	111.3	1,002.0	246.1	50.4	0.0	0.0	0.0	0.0	0.0	129.8	1,539.6
	Jet Engine (Oil)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	677.8	677.8
	Jet Engine (Oil & Gas)	0.0	0.0	0.0	0.0	0.0	0.0	67.5	0.0	0.0	1,124.8	164.2	1,356.5
	Jet Engine (Gas)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.5	53.5
	Combustion Turbine (Oil)	0.0	0.0	0.0	0.0	0.0	0.0	20.1	0.0	0.0	355.6	597.5	973.2
	Combustion Turbine (Oil & Gas)	0.0	0.0	0.0	0.0	0.0	0.0	19.6	0.0	0.0	588.1	373.4	981.1
	Combustion Turbine (Gas)	39.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	445.6	180.3	668.6
	Internal Combustion (Oil)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.9	21.9
	Internal Combustion (Oil & Gas)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.3	28.3
	Internal Combustion (Gas)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pumped Storage</i>	Pumped Storage Hydro	240.0	0.0	0.0	0.0	0.0	1,168.6	0.0	0.0	0.0	0.0	0.0	1,408.6
<i>Nuclear</i>	Steam (PWR Nuclear)	0.0	580.6	0.0	0.0	0.0	0.0	0.0	2,056.3	0.0	0.0	0.0	2,636.9
	Steam (BWR Nuclear)	0.0	0.0	2,764.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,764.7
<i>Renewable ⁽¹⁾</i>	Conventional Hydro	2,439.7	63.6	109.6	914.8	376.0	269.4	78.8	0.0	0.0	0.0	0.0	4,251.9
	Internal Combustion (Methane)	18.4	13.6	45.7	6.4	11.2	12.0	0.0	0.0	0.0	0.0	0.0	107.3
	Steam Turbine (Wood)	0.0	0.0	0.0	0.0	19.3	0.0	0.0	0.0	0.0	0.0	0.0	19.3
	Steam Turbine (Refuse)	31.7	0.0	0.0	0.0	0.0	10.9	6.9	52.6	0.0	0.0	121.7	223.8
	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		3,989.8	769.1	6,753.9	1,926.8	1,036.7	4,476.8	3,030.6	2,108.9	0.0	9,666.5	5,306.4	39,065.5

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

(2) - Values are from the Summer Capability column in Table III-2: Existing Generators.

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Table III-3b: Capability by Zone and Type – Winter 2018-19

<i>Generator Type</i>		ZONE											<i>TOTAL</i>	
		A	B	C	D	E	F	G	H	I	J	K		
Winter Capability Period (MW) ⁽²⁾														
<i>Fossil</i>	Steam Turbine (Oil)	0.0	0.0	825.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	825.5
	Steam Turbine (Oil & Gas)	0.0	0.0	828.7	0.0	0.0	0.0	2,486.5	0.0	0.0	2,816.7	2,357.4	0.0	8,489.3
	Steam Turbine (Gas)	40.0	0.0	104.0	0.0	0.0	0.0	361.2	0.0	0.0	1,035.3	0.0	0.0	1,540.5
	Steam Turbine (Coal)	691.5	0.0	309.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,000.7
	Combined Cycle (Oil & Gas)	445.8	0.0	327.1	92.3	159.9	3,460.7	0.0	0.0	0.0	3,768.3	665.5	0.0	8,919.6
	Combined Cycle (Gas)	0.0	121.6	1,212.0	271.3	63.4	0.0	0.0	0.0	0.0	0.0	0.0	137.3	1,805.6
	Jet Engine (Oil)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	806.4	806.4
	Jet Engine (Oil & Gas)	0.0	0.0	0.0	0.0	0.0	0.0	86.7	0.0	0.0	1,369.4	200.6	0.0	1,656.7
	Jet Engine (Gas)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.4	58.4
	Combustion Turbine (Oil)	0.0	0.0	0.0	0.0	0.0	0.0	23.3	0.0	0.0	454.1	742.5	0.0	1,219.9
	Combustion Turbine (Oil & Gas)	0.0	0.0	0.0	0.0	0.0	0.0	23.6	0.0	0.0	771.7	423.4	0.0	1,218.7
	Combustion Turbine (Gas)	45.2	0.0	7.3	0.0	0.0	0.0	0.0	0.0	0.0	456.2	187.2	0.0	695.9
	Internal Combustion (Oil)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.6	24.6
	Internal Combustion (Oil & Gas)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.3	28.3
	Internal Combustion (Gas)	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
<i>Pumped Storage</i>	Pumped Storage Hydro	240.0	0.0	0.0	0.0	0.0	1,169.9	0.0	0.0	0.0	0.0	0.0	0.0	1,409.9
<i>Nuclear</i>	Steam (PWR Nuclear)	0.0	581.1	0.0	0.0	0.0	0.0	0.0	2,063.9	0.0	0.0	0.0	0.0	2,645.0
	Steam (BWR Nuclear)	0.0	0.0	2,780.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,780.2
<i>Renewable ⁽¹⁾</i>	Conventional Hydro	2,439.7	63.6	109.6	885.8	376.0	269.4	79.0	0.0	0.0	0.0	0.0	0.0	4,223.1
	Internal Combustion (Methane)	18.4	13.6	45.7	6.4	11.2	12.0	0.0	0.0	0.0	0.0	0.0	0.0	107.3
	Steam Turbine (Wood)	0.0	0.0	0.0	0.0	20.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.3
	Steam Turbine (Refuse)	30.4	0.0	0.0	0.0	0.0	10.3	7.0	51.1	0.0	0.0	0.0	122.9	221.7
	Wind	100.5	0.0	518.4	678.4	441.9	0.0	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	
<i>Totals</i>		4,051.5	779.9	7,067.7	1,934.2	1,072.7	4,922.3	3,067.3	2,115.0	0.0	10,671.7	5,786.0	0.0	41,468.3

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

(2) - Values are from the Winter Capability column in Table III-2: Existing Generators.

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Table III-3c: Annual Net Energy Generation by Zone and Type - 2017

<i>Generator Type</i>		ZONE										TOTAL	
		A	B	C	D	E	F	G	H	I	J		K
Annual Net Energy Production (GWh) ⁽²⁾													
<i>Fossil</i>	Steam Turbine (Oil)	0.0	0.0	18.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.1
	Steam Turbine (Oil & Gas)	0.0	0.0	21.6	0.0	0.0	0.0	1,524.5	0.0	0.0	2,987.8	3,106.6	7,640.6
	Steam Turbine (Gas)	34.5	0.0	165.2	0.0	0.0	0.0	7.1	0.0	0.0	830.9	0.0	1,037.7
	Steam Turbine (Coal)	347.3	0.0	220.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	567.4
	Combined Cycle (Oil & Gas)	290.6	0.0	220.8	5.0	10.6	12,610.5	0.0	0.0	0.0	18,373.4	3,844.7	35,355.6
	Combined Cycle (Gas)	0.0	54.4	4,298.0	61.0	12.9	0.0	0.0	0.0	0.0	0.0	461.0	4,887.4
	Jet Engine (Oil)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.2	36.2
	Jet Engine (Oil & Gas)	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	675.7	52.1	728.7
	Jet Engine (Gas)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.6	99.6
	Combustion Turbine (Oil)	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	4.6	13.4	18.0
	Combustion Turbine (Oil & Gas)	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	29.3	379.1	408.8
	Combustion Turbine (Gas)	124.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	280.1	267.0	671.3
	Internal Combustion (Oil)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3
	Internal Combustion (Oil & Gas)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8
Internal Combustion (Gas)	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	1.4	
<i>Pumped Storage</i>	Pumped Storage Hydro	443.9	0.0	0.0	0.0	0.0	351.4	0.0	0.0	0.0	0.0	0.0	795.3
<i>Nuclear</i>	Steam (PWR Nuclear)	0.0	4,655.2	0.0	0.0	0.0	0.0	0.0	15,304.4	0.0	0.0	0.0	19,959.6
	Steam (BWR Nuclear)	0.0	0.0	22,215.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22,215.0
<i>Renewable ⁽¹⁾</i>	Conventional Hydro	15,796.9	206.9	561.8	7,898.9	2,645.9	2,232.0	211.8	0.0	0.0	0.0	0.0	29,554.2
	Internal Combustion (Methane)	155.2	103.1	304.6	30.8	60.9	75.5	0.0	0.0	0.0	0.0	0.0	730.1
	Steam Turbine (Wood)	0.0	0.0	0.0	0.0	288.3	0.0	0.0	0.0	0.0	0.0	0.0	288.3
	Steam Turbine (Refuse)	216.0	0.0	226.5	0.0	0.0	71.1	34.1	394.3	0.0	0.0	958.1	1,900.1
	Wind	299.1	7.1	1,312.1	1,516.7	1,084.2	0.0	0.0	0.0	0.0	0.0	0.0	4,219.2
	Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.3	47.3
Totals		17,707.6	5,026.8	29,563.9	9,512.4	4,104.3	15,340.6	1,778.8	15,698.7	0.0	23,181.8	9,268.2	131,182.9

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

(2) - Values are from the 2017 Net Energy column in Table III-2: Existing Generators.

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Table III-3d: Scheduled Real-Time Transactions by Control Area and Proxy Bus (GWh) - 2017

Control Area	Proxy Bus Name	Imports	Wheels-In	Exports	Wheels-Out	Net Imports
HQ	Cedars	1,015	0	11	0	1,004
HQ	Chateaugay	8,253	2,361	93	0	10,521
IESO	Bruce	8,269	20	43	3	8,243
ISO-NE	1385 Line	572	0	82	0	490
ISO-NE	Cross Sound Cable	1,812	0	5	0	1,807
ISO-NE	Sandy Pond	3,840	2	5,350	2,368	-3,876
PJM	HTP	268	0	0	0	268
PJM	Keystone	4,280	9	1,953	20	2,316
PJM	Linden VFT	1,414	0	101	0	1,313
PJM	Neptune	4,589	0	0	0	4,589
	NYCA Total	34,312	2,392	7,638	2,391	26,675

Figure III-1: 2017 NYCA Energy Production by Zone

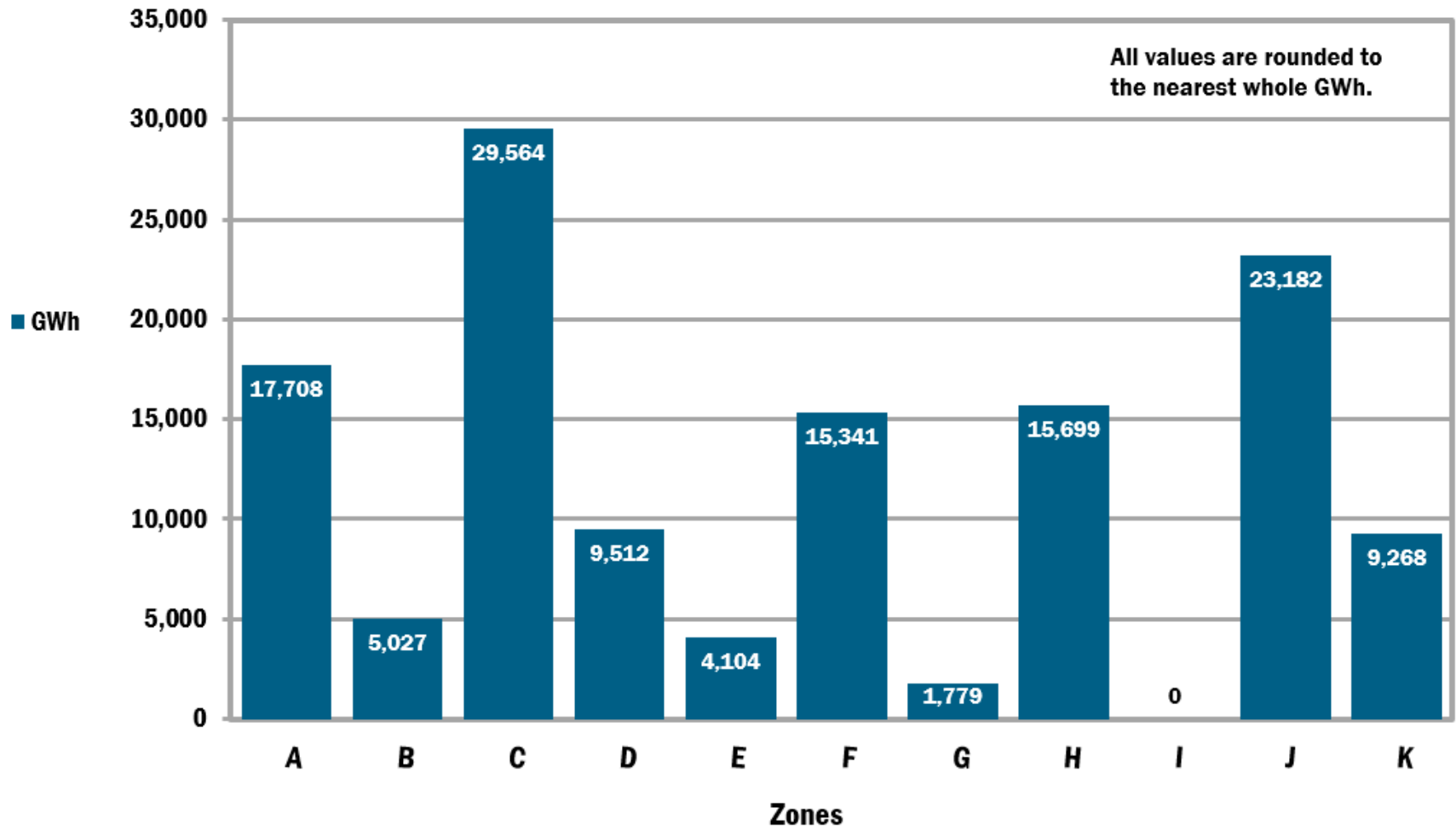
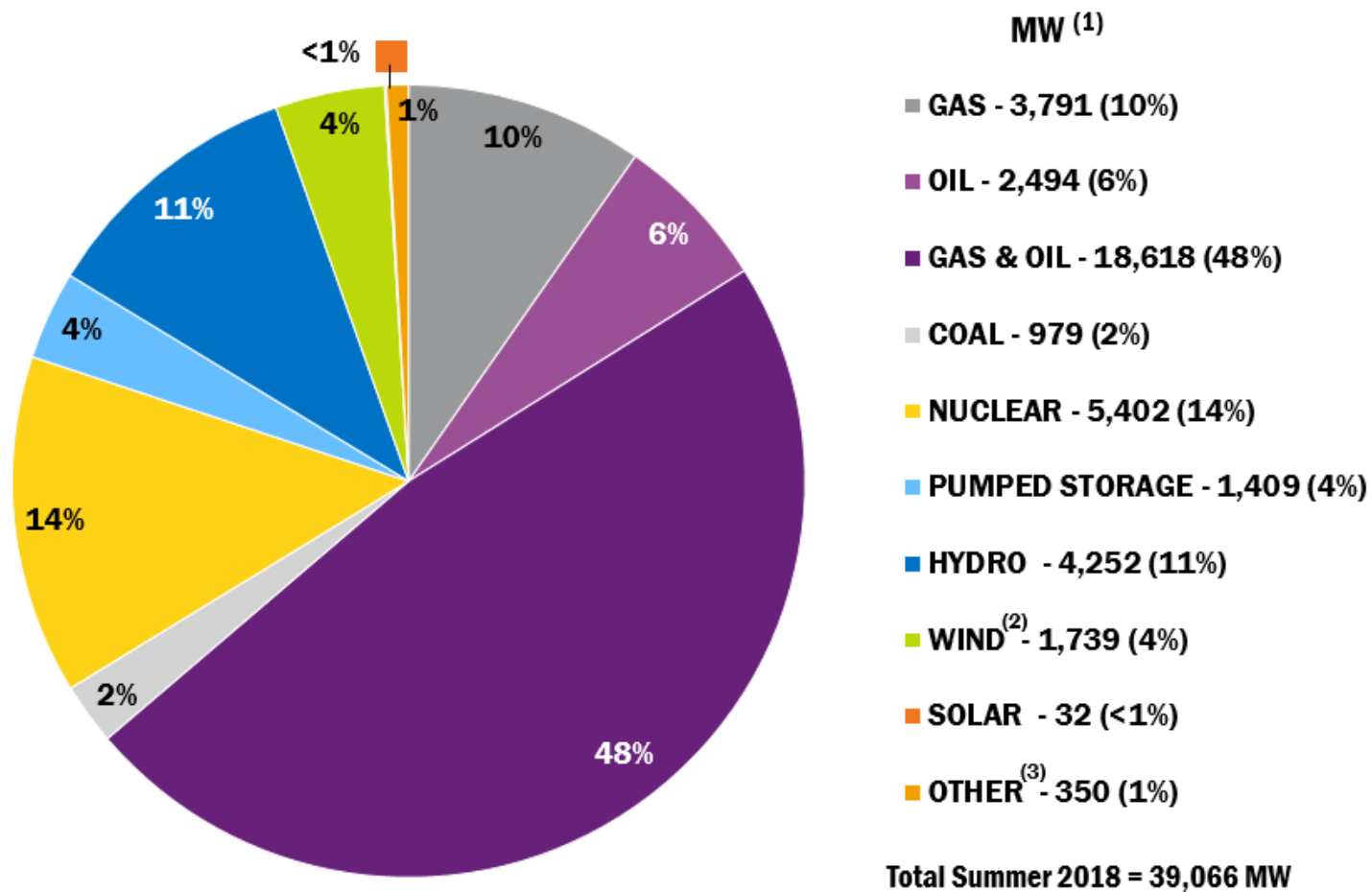


Figure III-2: 2018 NYCA Summer Capability by Fuel Type



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

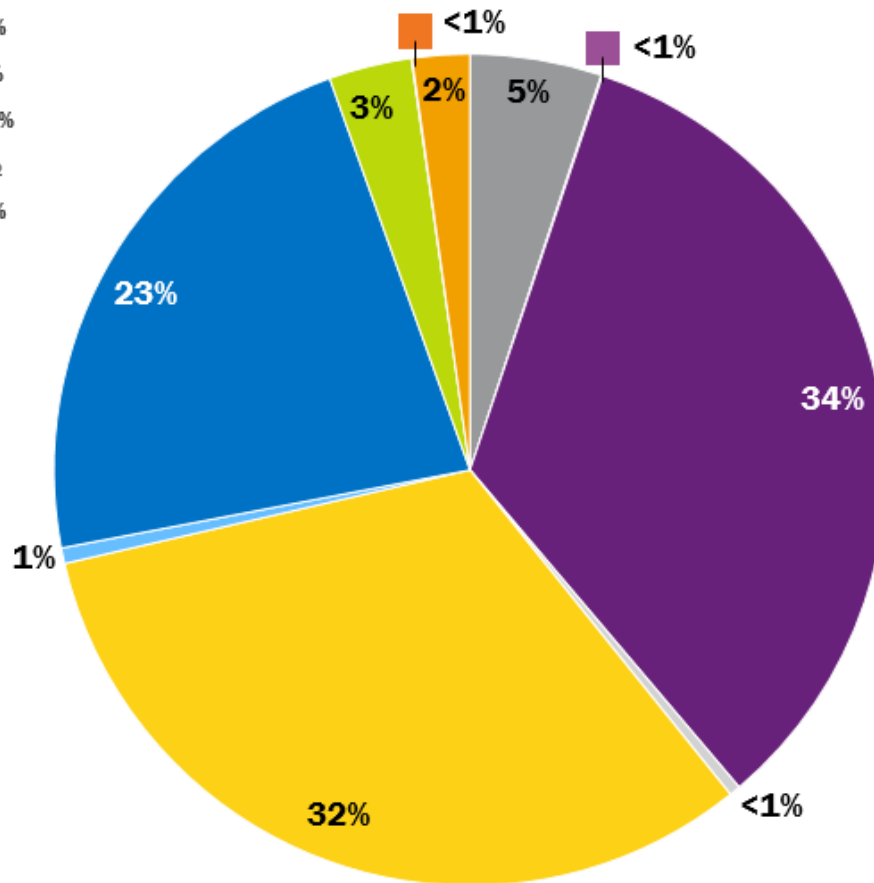
(2) While there is a total of 1827 MW of Installed Nameplate, 88 MW do not participate in the Installed Capacity market.

(3) Includes Methane, Refuse & Wood.

Figure III-3: 2017 NYCA Energy Production by Fuel Type

Renewable Resources ⁽³⁾

Conventional Hydro.....	23%
Wind	3%
Solar	<1%
Other	2%
Total	28%



GWh ⁽¹⁾

- GAS - 6,697 (5%)
- OIL - 74 (<1%)
- GAS & OIL - 44,135 (34%)
- COAL - 567 (<1%)
- NUCLEAR - 42,175 (32%)
- PUMPED STORAGE - 795 (1%)
- HYDRO - 29,554 (23%)
- WIND - 4,219 (3%)
- SOLAR - 47 (<1%)
- OTHER ⁽²⁾ - 2,919 (2%)

Total 2017 = 131,183 GWh

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

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

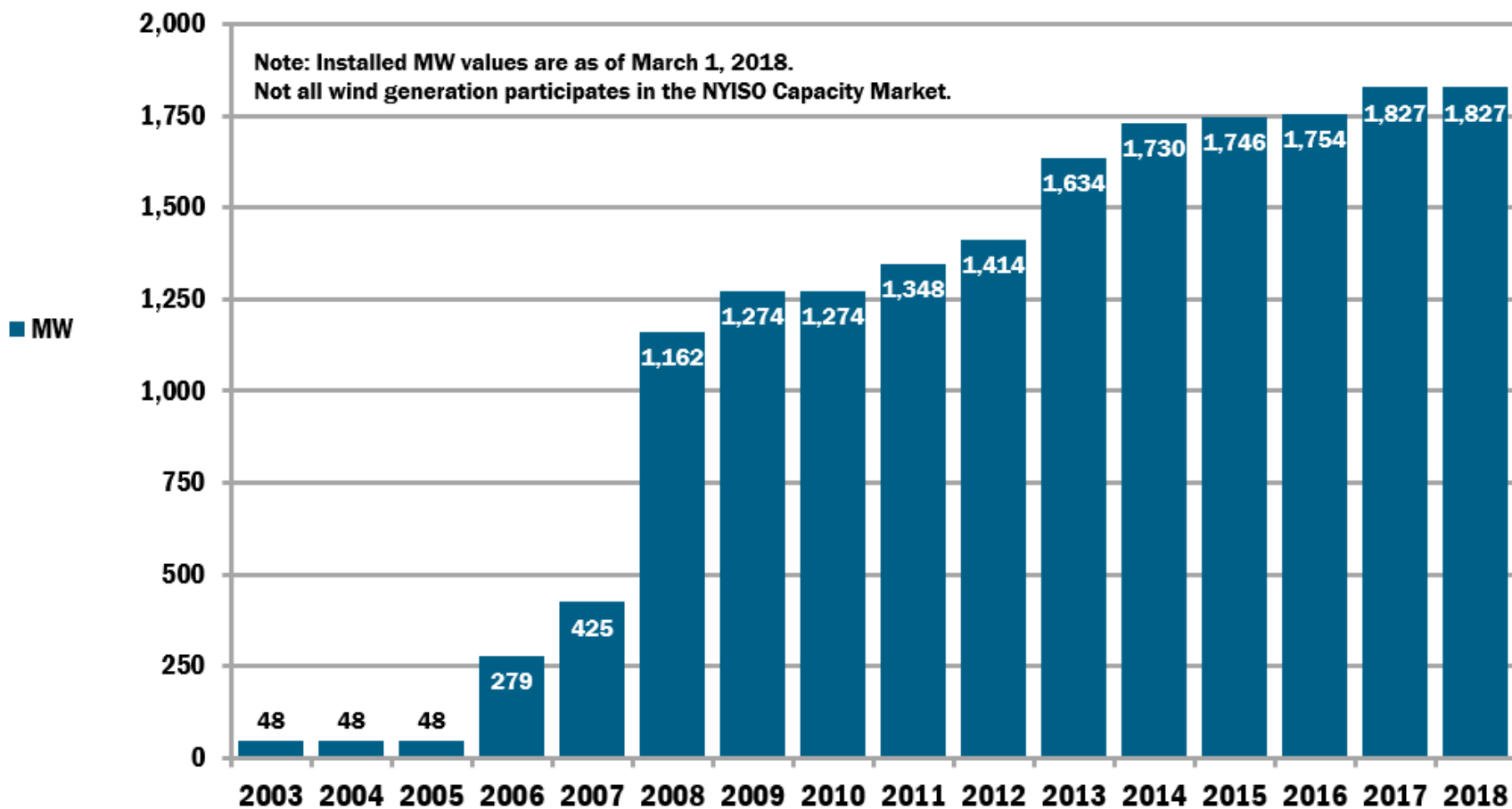
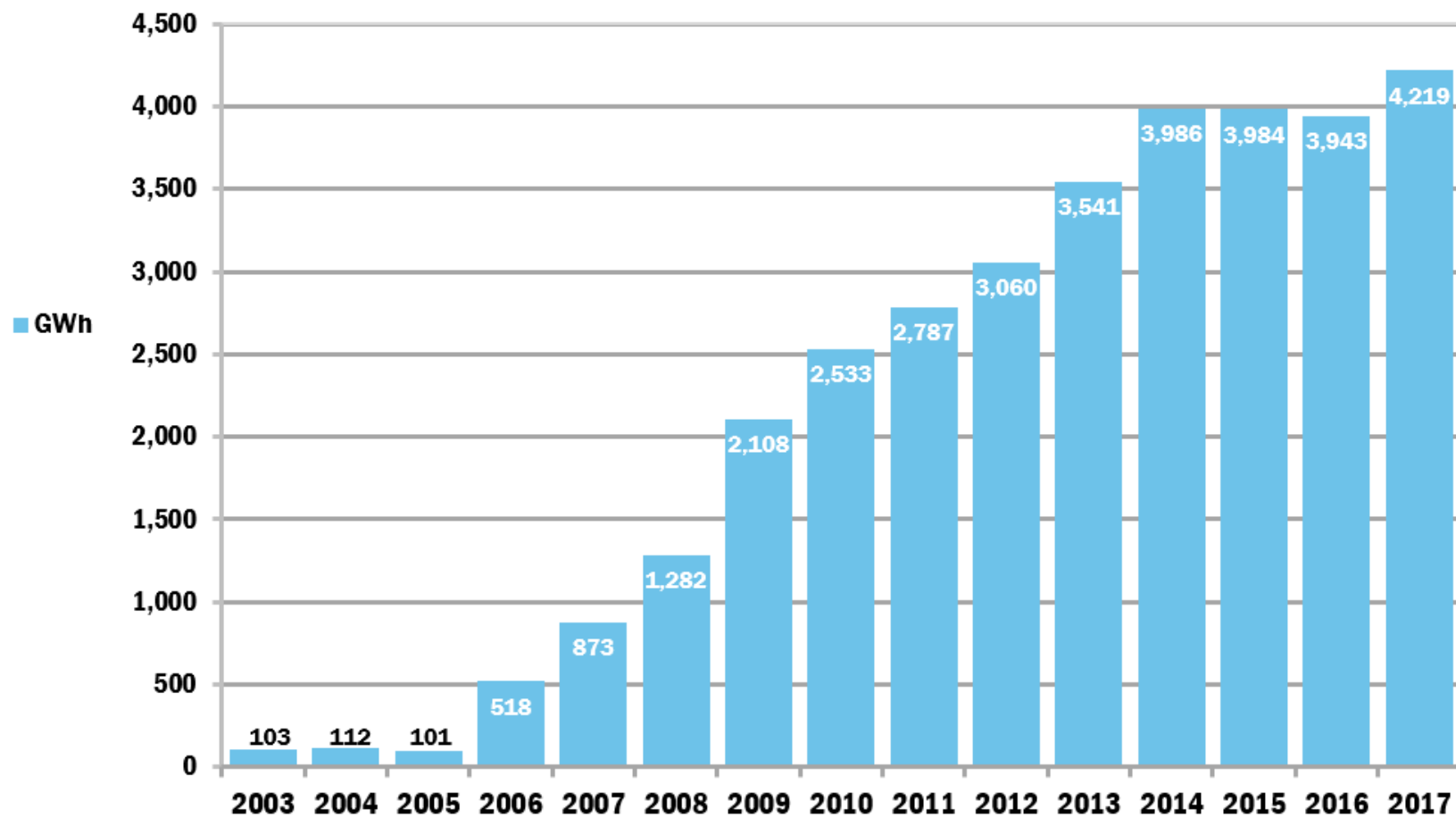
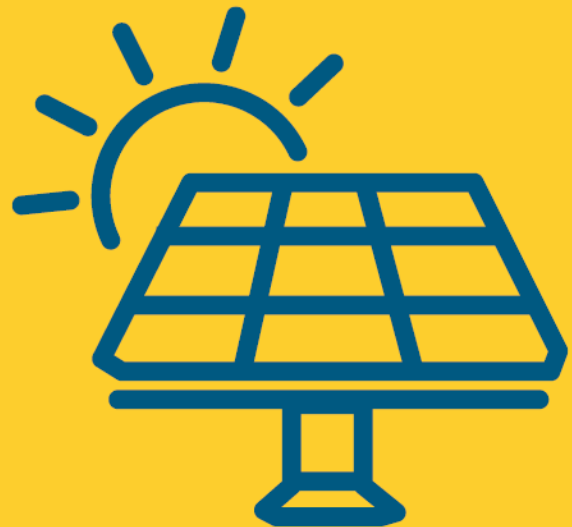
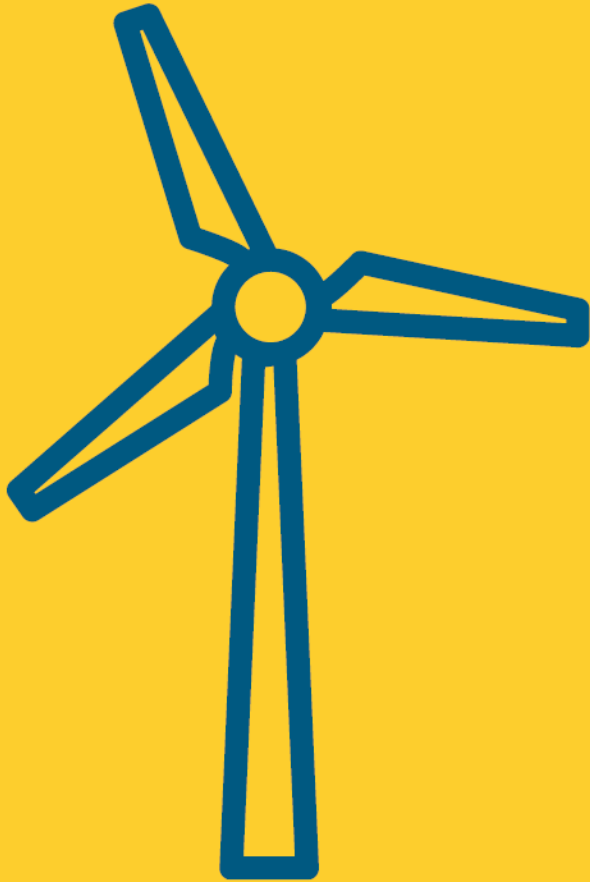


Figure III-4b: NYCA Wind Resources – Historical Energy Production



SECTION IV

Changes in Generating Capacity



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Section IV

This section reports a list of proposed projects in the NYISO interconnection process by Class Year⁵, together with other generator additions, 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 2017 *Gold Book*. Table IV-5 lists units which have provided a notice of deactivation at some future date. These tables are current through March 1st, 2018. Monthly updates to this information are available in the *Generator Status Updates* folder on the *Planning Documents & Resources* page:

http://www.nyiso.com/public/markets_operations/services/planning/documents/index.jsp.

⁵ Under the NYISO interconnection process, Interconnection Facilities Studies for proposed generation and merchant transmission projects are performed under the Class Year process defined in Attachment S of the NYISO OATT. A “Class Year” refers to the group of such projects included for evaluation in a given Class Year Facilities Study.

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Table IV-1: Proposed Generator Additions & CRIS Requests

QUEUE POS.	OWNER / OPERATOR	STATION	UNIT	ZONE	Proposed Date ⁷ (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>													
251	CPV Valley, LLC	CPV Valley Energy Center		G	Feb-18	820.0	680.0	680.0	677.6	690.6	Combined Cycle	2011	(2)
395	Copenhagen Wind Farm, LLC	Copenhagen Wind		E	Nov-18	79.9	79.9	79.9	79.9	79.9	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)
<u>Class Year 2017⁴</u>													
511	AG Energy, LP	Ogdensburg		E	May-18	88.6	79.0	TBD	79.0	90.1	Combined Cycle		(3)
467	Shoreham Solar Commons LLC	Shoreham Solar		K	Jun-18	25.0	24.9	TBD	25.0	25.0	Solar		(3)
421	EDP Renewables North America	Arkwright Summit		A	Oct-18	78.4	78.4	TBD	78.4	78.4	Wind Turbines		(3)
422	NextEra Energy Resources, LLC	Eight Point Wind Energy Center		B	Dec-18	101.2	101.2	TBD	101.2	101.2	Wind Turbines		(3)
505	RES America Development Inc.	Ball Hill Wind		A	Dec-18	100.0	100.0	TBD	100.0	100.0	Wind Turbines		(3)
387	Cassadaga Wind, LLC	Cassadaga Wind		A	Dec-19	126.0	126.0	TBD	126.0	126.0	Wind Turbines		(3)
396	Baron Winds, LLC	Baron Winds		C	Dec-19	300.0	300.0	TBD	300.0	300.0	Wind Turbines		(3)
468	Apex Clean Energy LLC	Galloo Island Wind		C	Dec-19	110.4	108.9	TBD	110.4	110.4	Wind Turbines		(3)
444	Cricket Valley Energy Center, LLC	Cricket Valley Energy Center II		G	Jan-20	1,177.2	1,020.0	TBD	1,020.0	1,132.0	Combined Cycle		(3)
523	Dunkirk Power, LLC	Dunkirk Unit 2		A	Apr-20	75.0	85.0	TBD	75.0	75.0	Steam Turbine		(3)
524	Dunkirk Power, LLC	Dunkirk Unit 3 & 4		A	Apr-20	370.0	370.0	TBD	370.0	370.0	Steam Turbine		(3)
496	Renovo Energy Cente, LLC	Renovo Energy Center		C	Jun-20	480.0	480.0	TBD	480.0	504.0	Combined Cycle		(3)
494	Alabama Ledge Wind Farm LLC	Alabama Ledge Wind		A	Oct-20	79.8	79.8	TBD	79.8	79.8	Wind Turbines		(3)
498	ESC Tioga County Power, LLC	Tioga County Power		C	May-21	550.0	550.0	TBD	550.0	550.0	Combined Cycle		(3)
393	NRG Berrians East Development, LLC	Berrians East Replacement		J	Jun-22	637.5	508.0	TBD	508.0	584.0	Combustion Turbines		(9)
<u>Class Year 2017 CRIS Requests⁴</u>													
430	HQUS	Cedar Rapids Transmission Upgrade		D	N/A	N/A	80.0	TBD	N/A	N/A			
	LI Energy Storage System, LLC	Montauk Battery Storage		K	N/A	5.0	5.0	TBD	N/A	N/A			
	LI Energy Storage System, LLC	East Hampton Battery Storage		K	N/A	5.0	5.0	TBD	N/A	N/A			
	ConEd	East River 6		J	N/A	156.2	8.0	TBD	N/A	N/A			
477	Riverhead Solar Farm, LLC	Riverhead Solar		K	N/A	20.0	20.0	TBD	N/A	N/A			
	Nine Mile Point Nuclear Station, LLC	Nine Mile Point Unit 2		C	N/A	1,320.0	63.4	TBD	N/A	N/A			
	East Coast Power, LLC	Linden Cogen		J	N/A	974.1	37.2	TBD	N/A	N/A			

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

QUEUE POS.	OWNER / OPERATOR	STATION UNIT	ZONE	Proposed Date ⁷ (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 Candidates⁵</u>												
276	Air Energie TCI, Inc.	Crown City Wind	C	Dec-18	90.0	TBD	TBD	90.0	90.0	Wind Turbines		
495	Mohawk Solar LLC	Mohawk Solar	F	Dec-18	98.0	TBD	TBD	98.0	98.0	Wind Turbines		
514	RES America Developments Inc.	Empire Wind	F	Oct-19	120.0	TBD	TBD	120.0	120.0	Wind Turbines		
449	Stockbridge Wind, LLC	Stockbridge Wind	E	Dec-19	72.6	TBD	TBD	72.6	72.6	Wind Turbines		
347	Franklin Wind Farm, LLC	Franklin Wind	E	Dec-19	50.4	TBD	TBD	50.4	50.4	Wind Turbines		
519	Canisteo Wind Energy LLC	Canisteo Wind	C	Dec-19	290.7	TBD	TBD	290.7	290.7	Wind Turbines		
531	Invenery Wind Development LLC	Number 3 Wind	E	Dec-19	105.8	TBD	TBD	105.8	105.8	Wind Turbines		
382	Astoria Generating Co.	South Pier Improvement	J	Jun-20	95.5	TBD	TBD	91.2	95.5	Combustion Turbines		
445	Lighthouse Wind, LLC	Lighthouse Wind	A	Dec-20	201.3	TBD	TBD	201.3	201.3	Wind Turbines		
372	Dry Lots Wind, LLC	Dry Lots Wind	E	Dec-20	33.0	TBD	TBD	33.0	33.0	Wind Turbines		
371	South Moutain Wind, LLC	South Mountain Wind	E	Dec-20	18.0	TBD	TBD	18.0	18.0	Wind Turbines		
526	Atlantic Wind, LLC	North Ridge Wind	E	Dec-20	100.0	TBD	TBD	100.0	100.0	Wind Turbines		
361	US PowerGen Co.	Luyster Creek Energy	J	Jun-21	508.6	TBD	TBD	401.0	444.0	Combined Cycle		
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		
383	NRG Energy, Inc.	Bowline Gen. Station Unit #3	G	Jun-22	814.0	TBD	TBD	775.0	814.0	Combined Cycle		
<u>Other Non Class Year Generators</u>												
513	Stoney Creek Energy, LLC	Orangeville	C	Mar-18	20.0	0.0	0.0	20.0	20.0	Energy Storage		(3)(6)
477	Riverhead Solar Farm, LLC	Riverhead Solar	K	Oct-18	20.0	N/A	N/A	20.0	20.0	Solar		(3)(6)
N/A	Cubit Power One Inc.	Arthur Kill Cogen	J	Apr-18	11.1	N/A	11.1	11.1	11.1	Internal Combustion		(2)(8)
Total								7,609.4	7,935.3			

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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 included as proposed resource changes in this year's Load & Capacity Schedule, Table V-2a.
4	Projects that are members of Class Year 2017
5	Projects that are potential candidates for a Class Year Study after Class Year 2017, 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.
6	Small Generating Facilities that are not subject to a Class Year Facilities Study but have an executed Small Generator Facilities Study Agreement.
7	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.
8	Projects not subject to the NYISO's Interconnection Procedures that have obtained CRIS pursuant to Section 25.9.3.3 and/or 25.9.3.4.1 of Attachment S to the OATT.
9	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 capability of 508 MW (Summer) and 584 MW (Winter) and CRIS (Summer) of 508 MW. The delta between the Q#393 Berrians East Replacement and the GTs it proposes to replace is 92.7 MW (Summer), 46.1 MW (Winter) and 3.6 MW CRIS.

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Table IV-2: Proposed Generator Re-ratings¹

QUEUE POS.	OWNER / OPERATOR	STATION	UNIT	ZONE	DATE	PTID	Class Year	INCREMENTAL CAPABILITY (MW)				TOTAL CAPABILITY (MW)				Notes
								Nameplate Rating	CRIS	SUMMER	WINTER	Nameplate Rating	CRIS	SUMMER	WINTER	
461	Consolidated Edison Co. of NY, Inc.	East River 1 Uprate		J	IS	323558	(4)	0.0	0.0	2.0	2.0	185.0	160.5	155.1	199.8	(3)
462	Consolidated Edison Co. of NY, Inc.	East River 2 Uprate		J	IS	323559	(4)	0.0	0.0	2.0	2.0	185.0	162.4	156.0	200.5	(3)
403	PSEG Power New York	Bethlehem Energy Center		F	2017-2019	323570	2015	11.9	78.1	72.0	51.2	905.0	835.0	835.0	905.0	(2)
510	Bayonne Energy Center	Bayonne Energy Center II		J	2018/03	323682-323689	(4)	132.0	TBD	120.4	129.4	644.0	TBD	602.9	677.9	(3)
512	Northbrook Lyons Falls	Lyons Falls Mill Hydro		E	2018/03	23570	N/A	3.0	0.0	2.5	2.5	11.0	7.3	10.5	10.5	(3) (5)
338	Rochester Gas & Electric Corp	Station 2		B	2018/09	23604	N/A	6.3	0.0	6.3	6.3	14.8	6.5	14.8	14.8	(3) (5)
401	Caithness Long Island II, LLC	Caithness Long Island II		K	2019/05	323624	(6)	675.4	TBD	599.0	632.0	1,050.4	TBD	914.6	966.2	
516	East Coast Power LLC	Linden Cogen Uprate		J	2020/05	23786	(4)	235.5	TBD	234.4	234.4	1,035.5	TBD	1,031.1	1,034.4	(3)
Total								1,064.1	78.1	1,038.6	1,059.8	4,030.7	1,171.7	3,720.0	4,009.1	

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 have-completed a Class Year Facilities Study are included as new additions in this year's Load and Capacity Schedule, Table V-2a & V-2b.
3. Projects that have not completed a Class Year Facilities Study are included as proposed resource changes in this year's Load & Capacity Schedule, Table V-2a.
4. Projects that are members of Class Year 2017.
5. Small Generating Facilities that are not subject to a Class Year Interconnection Facilities Study but have an executed Small Generator Facilities Study Agreement.
6. Projects that are potential candidates for a Class Year Study after Class Year 2017, 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.

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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

OWNER / OPERATOR	STATION	UNIT	ZONE	DATE ⁽¹⁾	PTID	CRIS ⁽²⁾	CAPABILITY (MW)		Status ⁽³⁾
							SUMMER ⁽²⁾	WINTER ⁽²⁾	
Helix Ravenswood LLC	Ravenswood 04		J	05/01/2016	24252	15.2	12.9	15.6	M
Helix Ravenswood LLC	Ravenswood 05		J	05/01/2016	24254	15.7	15.5	17.2	M
Helix Ravenswood LLC	Ravenswood 06		J	05/01/2016	24253	16.7	12.6	16.5	M
International Paper Company	Ticonderoga ⁽⁴⁾		F	05/01/2017	23804	7.6	9.5	9.8	See Note 4
Niagara Generation LLC	Niagara Bio-Gen		A	01/01/2016	23895	50.5	37.2	37.2	I
NRG Power Marketing LLC	Dunkirk 2		A	01/01/2016	23564	97.2	75.0	75.0	M
NRG Power Marketing LLC	Huntley 67		A	03/01/2016	23561	196.5	187.9	188.0	R
NRG Power Marketing LLC	Huntley 68		A	03/01/2016	23562	198.0	189.5	186.8	R
NRG Power Marketing LLC	Astoria GT 05		J	01/01/2016	24106	16.0	12.3	14.9	I
NRG Power Marketing LLC	Astoria GT 07		J	01/01/2016	24107	15.5	11.5	14.3	I
NRG Power Marketing LLC	Astoria GT 08		J	07/01/2016	24108	15.3	11.4	14.8	M
NRG Power Marketing LLC	Astoria GT 10		J	07/01/2016	24110	24.9	18.4	22.6	M
NRG Power Marketing LLC	Astoria GT 11		J	07/01/2016	24225	23.6	16.5	25.0	M
NRG Power Marketing LLC	Astoria GT 12		J	01/01/2016	24226	22.7	17.7	22.3	I
NRG Power Marketing LLC	Astoria GT 13		J	01/01/2016	24227	24.0	16.9	22.7	I
ReEnergy Chateaugay LLC	Chateaugay Power		D	05/31/2016	23792	18.6	18.2	18.5	R
Total						758.0	663.0	701.2	

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).

2018 Load & Capacity Data Report

Table IV-4: Deactivated Units Listed in Existing Generating Facilities Table III-2

OWNER / OPERATOR	STATION	UNIT	ZONE	DATE	PTID	CRIS ⁽²⁾	CAPABILITY (MW)		Status ⁽¹⁾
							SUMMER ⁽²⁾	WINTER ⁽²⁾	
Binghamton BOP, LLC	Binghamton		C	01/09/2018	23790	43.8	43.7	47.1	R
Helix Ravenswood, LLC	Ravenswood 09		J	11/01/2017	24257	21.7	16.3	21.9	I
Total						65.5	60.0	69.0	

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.

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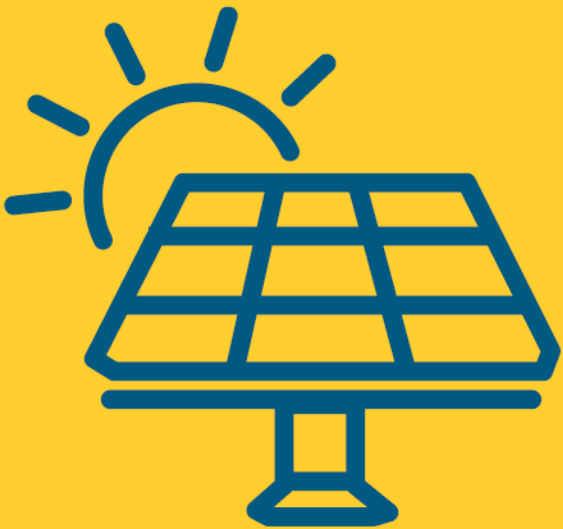
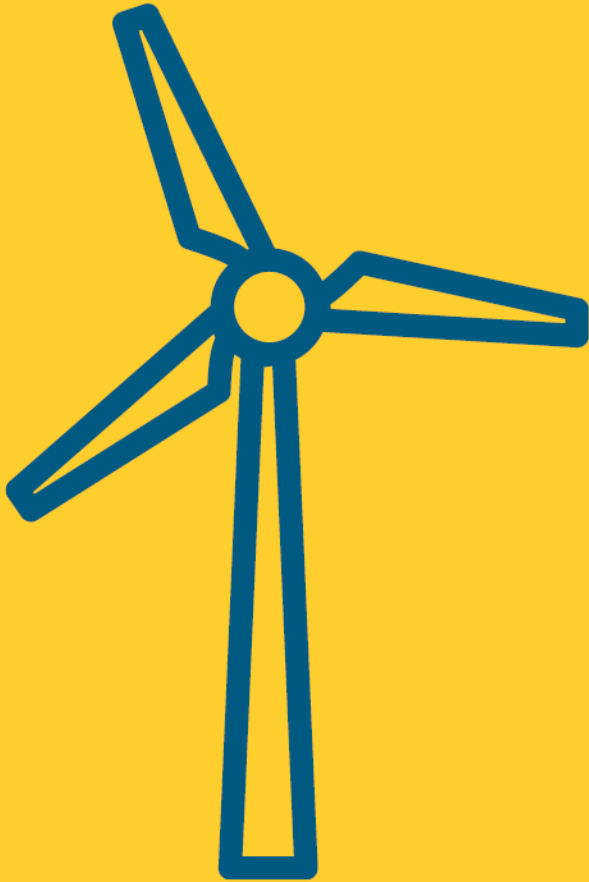
Table IV-5: Notices of Proposed Deactivations¹ as of March 1, 2018

OWNER / OPERATOR	STATION	UNIT	ZONE	PROPOSED DEACTIVATION DATE	PTID	CRIS	CAPABILITY (MW)		Notes
							SUMMER	WINTER	
Entergy Nuclear Power Marketing, LLC	Indian Point 2		H	04/30/2020	23530	1,026.5	1,018.5	1,026.5	
Entergy Nuclear Power Marketing, LLC	Indian Point 3		H	04/30/2021	23531	1,040.4	1,037.8	1,037.4	
Hawkeye Energy Greeport LLC	Greenport GT 1		K	06/06/2018	23814	51.9	53.5	55.3	
Selkirk Cogen Partners, LP	Selkirk 1		F	05/17/2018	23801	82.1	78.1	104.3	
Selkirk Cogen Partners, LP	Selkirk 2		F	05/17/2018	23799	291.3	282.1	325.9	
Total						2,492.2	2,470.0	2,549.4	

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.

SECTION V

Load & Capacity Schedule



2018 Load & Capacity Data Report

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Section V

This section provides a summary of NYCA load and capacity from 2017 through 2028 (as of March 1st, 2018). Table V-1 is a summary of Net Capacity Purchases (MW) from External Control Areas from 2018 through 2028. Table V-2a is a summary of the NYCA Load and Capacity Schedule for the Summer Capability Period from 2017 through 2028. Table V-2b is a summary of the NYCA Load and Capacity Schedule for the Winter Capability Period from 2017-18 through 2028-29. For reference, the values for the summer of 2017 and winter of 2017-18 are repeated from the *2017 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 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 1,219 MW of summer capacity and 884 MW of winter capacity. Tables V-2a and V-2b also report the summer and winter capacity projections for Special Case Resources.

The NYCA Resource Capability for the 2018 Summer Capability Period is 40,632 MW. This value is the sum of existing facilities (39,066 MW), Special Case Resources (1,219 MW), and Net Generation Changes (347 MW). With the inclusion of Net Capacity Purchases of 1,625 MW, the Total Resource Capability is 42,257 MW.

2018 Load & Capacity Data Report

Definitions of Labels on Load and 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

2018 Load & Capacity Data Report

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

SUMMER NET CAPACITY PURCHASES (1, 2, 3)

MW

2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
1,625.3	1,278.7	1,784.7	1,799.5	1,942.2	1,942.2	1,942.2	1,942.2	1,942.2	1,942.2	1,942.2

WINTER NET CAPACITY PURCHASES (1, 2, 3)

MW

2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29
1,482.4	699.9	1,205.9	1,219.2	1,361.9	1,361.9	1,361.9	1,361.9	1,361.9	1,361.9	1,361.9

(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 2021, excluding wheel transactions from HQ to ISO-NE.

2018 Load & Capacity Data Report

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

SUMMER CAPABILITY	2017 <i>(From 2017 Gold Book)</i>	MW											Totals	
		2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028		
Steam Turbine (Oil)	815.5	821.5	821.5	821.5	821.5	821.5	821.5	821.5	821.5	821.5	821.5	821.5	821.5	
Steam Turbine (Oil & Gas)	8,417.6	8,442.9	8,442.9	8,442.9	8,442.9	8,442.9	8,442.9	8,442.9	8,442.9	8,442.9	8,442.9	8,442.9	8,442.9	
Steam Turbine (Gas)	1,375.9	1,528.8	1,528.8	1,528.8	1,528.8	1,528.8	1,528.8	1,528.8	1,528.8	1,528.8	1,528.8	1,528.8	1,528.8	
Steam Turbine (Coal)	1,010.5	979.4	979.4	979.4	979.4	979.4	979.4	979.4	979.4	979.4	979.4	979.4	979.4	
Combined Cycle (Oil & Gas)	7,702.7	7,809.2	8,198.6	8,198.6	8,198.6	8,198.6	8,198.6	8,198.6	8,198.6	8,198.6	8,198.6	8,198.6	8,198.6	
Combined Cycle (Gas)	1,486.7	1,539.6	1,539.6	1,539.6	1,539.6	1,539.6	1,539.6	1,539.6	1,539.6	1,539.6	1,539.6	1,539.6	1,539.6	
Jet Engine (Oil)	681.3	677.8	624.3	624.3	624.3	624.3	624.3	624.3	624.3	624.3	624.3	624.3	624.3	
Jet Engine (Oil & Gas)	1,394.2	1,356.5	1,356.5	1,356.5	1,356.5	1,356.5	1,356.5	1,356.5	1,356.5	1,356.5	1,356.5	1,356.5	1,356.5	
Jet Engine (Gas)	53.9	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	
Combustion Turbine (Oil)	978.9	973.2	973.2	973.2	973.2	973.2	973.2	973.2	973.2	973.2	973.2	973.2	973.2	
Combustion Turbine (Oil & Gas)	988.7	981.1	981.1	981.1	981.1	981.1	981.1	981.1	981.1	981.1	981.1	981.1	981.1	
Combustion Turbine (Gas)	671.6	668.6	668.6	668.6	668.6	668.6	668.6	668.6	668.6	668.6	668.6	668.6	668.6	
Internal Combustion (Oil)	23.4	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	
Internal Combustion (Oil & Gas)	26.1	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	
Internal Combustion (Gas)	0.0	0.0	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	1,406.8	1,408.6	1,408.6	1,408.6	1,408.6	1,408.6	1,408.6	1,408.6	1,408.6	1,408.6	1,408.6	1,408.6	1,408.6	
Steam (PWR Nuclear)	2,621.1	2,636.9	2,636.9	2,636.9	1,618.4	580.6	580.6	580.6	580.6	580.6	580.6	580.6	580.6	
Steam (BWR Nuclear)	2,754.2	2,764.7	2,764.7	2,764.7	2,764.7	2,764.7	2,764.7	2,764.7	2,764.7	2,764.7	2,764.7	2,764.7	2,764.7	
Conventional Hydro (5)	4,251.2	4,251.9	4,251.9	4,251.9	4,251.9	4,251.9	4,251.9	4,251.9	4,251.9	4,251.9	4,251.9	4,251.9	4,251.9	
Internal Combustion (Methane) (5)	107.3	107.3	107.3	107.3	107.3	107.3	107.3	107.3	107.3	107.3	107.3	107.3	107.3	
Steam Turbine (Wood) (5)	20.1	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	
Steam Turbine (Refuse) (5)	218.6	223.8	223.8	223.8	223.8	242.8	242.8	242.8	242.8	242.8	242.8	242.8	242.8	
Wind (5) (6)	1,739.5	1,739.2	1,739.2	1,819.1	1,819.1	1,819.1	1,819.1	1,819.1	1,819.1	1,819.1	1,819.1	1,819.1	1,819.1	
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	38,777.3	39,065.5	39,412.5	39,492.4	38,473.9	37,455.1	37,455.1	37,455.1	37,455.1	37,455.1	37,455.1	37,455.1	37,455.1	
Special Case Resources - SCR (3)	1,191.8	1,219.1	1,219.1	1,219.1	1,219.1	1,219.1	1,219.1	1,219.1	1,219.1	1,219.1	1,219.1	1,219.1	1,219.1	
Additions and Re-rates (2)	106.3	760.7	79.9	0.0	19.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Noticed Deactivations (9)	-1,809.1	-413.7	0.0	-1,018.5	-1,037.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
NYCA RESOURCE CAPABILITY	38,266.3	40,631.6	40,711.5	39,693.0	38,674.2	38,674.2	38,674.2	38,674.2	38,674.2	38,674.2	38,674.2	38,674.2	38,674.2	
Net Capacity Purchases (1) (7)	2,533.0	1,625.3	1,278.7	1,784.7	1,799.5	1,942.2	1,942.2	1,942.2	1,942.2	1,942.2	1,942.2	1,942.2	1,942.2	
TOTAL RESOURCE CAPABILITY	40,799.3	42,256.9	41,990.2	41,477.7	40,473.7	40,616.4	40,616.4	40,616.4	40,616.4	40,616.4	40,616.4	40,616.4	40,616.4	
BASE FORECAST														
Peak Demand Forecast		32,904.0	32,857.0	32,629.0	32,451.0	32,339.0	32,284.0	32,276.0	32,299.0	32,343.0	32,403.0	32,469.0		
Installed Reserve		9,352.9	9,133.2	8,848.7	8,022.7	8,277.4	8,332.4	8,340.4	8,317.4	8,273.4	8,213.4	8,147.4		
Installed Reserve Percent (4)		28.4	27.8	27.1	24.7	25.6	25.8	25.8	25.8	25.6	25.3	25.1		
Proposed Resource Changes (10)		250.9	1,343.8	4,790.3	6,173.4	7,373.1	7,373.1	7,373.1	7,373.1	7,373.1	7,373.1	7,373.1		
Adjusted Resource Capability		42,507.8	43,334.0	46,268.0	46,647.1	47,989.5	47,989.5	47,989.5	47,989.5	47,989.5	47,989.5	47,989.5		
Adjusted Installed Reserve		9,603.8	10,477.0	13,639.0	14,196.1	15,650.5	15,705.5	15,713.5	15,690.5	15,646.5	15,586.5	15,520.5		
Adjusted Installed Reserve Percent		29.2	31.9	41.8	43.7	48.4	48.6	48.7	48.6	48.4	48.1	47.8		

859.6
-2,470.0

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

WINTER CAPABILITY	2017/18	MW											Totals
	<i>(From 2017 Gold Book)</i>	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	
Steam Turbine (Oil)	822.5	825.5	825.5	825.5	825.5	825.5	825.5	825.5	825.5	825.5	825.5	825.5	825.5
Steam Turbine (Oil & Gas)	8,490.1	8,489.3	8,489.3	8,489.3	8,489.3	8,489.3	8,489.3	8,489.3	8,489.3	8,489.3	8,489.3	8,489.3	8,489.3
Steam Turbine (Gas)	1,385.5	1,540.5	1,540.5	1,540.5	1,540.5	1,540.5	1,540.5	1,540.5	1,540.5	1,540.5	1,540.5	1,540.5	1,540.5
Steam Turbine (Coal)	1,026.5	1,000.7	1,000.7	1,000.7	1,000.7	1,000.7	1,000.7	1,000.7	1,000.7	1,000.7	1,000.7	1,000.7	1,000.7
Combined Cycle (Oil & Gas)	8,858.9	8,919.6	9,231.2	9,231.2	9,231.2	9,231.2	9,231.2	9,231.2	9,231.2	9,231.2	9,231.2	9,231.2	9,231.2
Combined Cycle (Gas)	1,755.7	1,805.6	1,805.6	1,805.6	1,805.6	1,805.6	1,805.6	1,805.6	1,805.6	1,805.6	1,805.6	1,805.6	1,805.6
Jet Engine (Oil)	812.3	806.4	751.1	751.1	751.1	751.1	751.1	751.1	751.1	751.1	751.1	751.1	751.1
Jet Engine (Oil & Gas)	1,660.6	1,656.7	1,656.7	1,656.7	1,656.7	1,656.7	1,656.7	1,656.7	1,656.7	1,656.7	1,656.7	1,656.7	1,656.7
Jet Engine (Gas)	58.9	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
Combustion Turbine (Oil)	1,216.0	1,219.9	1,219.9	1,219.9	1,219.9	1,219.9	1,219.9	1,219.9	1,219.9	1,219.9	1,219.9	1,219.9	1,219.9
Combustion Turbine (Oil & Gas)	1,215.3	1,218.7	1,218.7	1,218.7	1,218.7	1,218.7	1,218.7	1,218.7	1,218.7	1,218.7	1,218.7	1,218.7	1,218.7
Combustion Turbine (Gas)	698.1	695.9	695.9	695.9	695.9	695.9	695.9	695.9	695.9	695.9	695.9	695.9	695.9
Internal Combustion (Oil)	26.1	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6
Internal Combustion (Oil & Gas)	28.4	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3
Internal Combustion (Gas)	0.0	0.0	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	1,410.5	1,409.9	1,409.9	1,409.9	1,409.9	1,409.9	1,409.9	1,409.9	1,409.9	1,409.9	1,409.9	1,409.9	1,409.9
Steam (PWR Nuclear)	2,653.7	2,645.0	2,645.0	2,645.0	1,618.5	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1
Steam (BWR Nuclear)	2,783.8	2,780.2	2,780.2	2,780.2	2,780.2	2,780.2	2,780.2	2,780.2	2,780.2	2,780.2	2,780.2	2,780.2	2,780.2
Conventional Hydro (5)	4,231.5	4,223.1	4,223.1	4,223.1	4,223.1	4,223.1	4,223.1	4,223.1	4,223.1	4,223.1	4,223.1	4,223.1	4,223.1
Internal Combustion (Methane) (5)	107.3	107.3	107.3	107.3	107.3	107.3	107.3	107.3	107.3	107.3	107.3	107.3	107.3
Steam Turbine (Wood) (5)	20.2	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3
Steam Turbine (Refuse) (5)	223.6	221.7	221.7	221.7	221.7	244.2	244.2	244.2	244.2	244.2	244.2	244.2	244.2
Wind (5) (6)	1,739.5	1,739.2	1,819.1	1,819.1	1,819.1	1,819.1	1,819.1	1,819.1	1,819.1	1,819.1	1,819.1	1,819.1	1,819.1
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	41,256.5	41,468.3	41,815.6	41,815.6	40,789.1	39,774.2	39,774.2	39,774.2	39,774.2	39,774.2	39,774.2	39,774.2	39,774.2
Special Case Resources - SCR (3)	792.4	884.4	884.4	884.4	884.4	884.4	884.4	884.4	884.4	884.4	884.4	884.4	884.4
Additions and Re-rates (2)	819.4	832.8	0.0	0.0	22.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Noticed Deactivations (9)	-1,871.8	-485.5	0.0	-1,026.5	-1,037.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NYCA RESOURCE CAPABILITY	40,996.5	42,700.0	42,700.0	41,673.5	40,658.6	40,658.6	40,658.6	40,658.6	40,658.6	40,658.6	40,658.6	40,658.6	40,658.6
Net Capacity Purchases (1) (7)	2,310.8	1,482.4	699.9	1,205.9	1,219.2	1,361.9	1,361.9	1,361.9	1,361.9	1,361.9	1,361.9	1,361.9	1,361.9
TOTAL RESOURCE CAPABILITY	43,307.3	44,182.4	43,399.9	42,879.4	41,877.8	42,020.5	42,020.5	42,020.5	42,020.5	42,020.5	42,020.5	42,020.5	42,020.5
BASE FORECAST													
Peak Demand Forecast		24,269.0	24,135.0	23,948.0	23,817.0	23,751.0	23,730.0	23,728.0	23,742.0	23,762.0	23,786.0	23,812.0	
Installed Reserve		19,913.4	19,264.9	18,931.4	18,060.8	18,269.5	18,290.5	18,292.5	18,278.5	18,258.5	18,234.5	18,208.5	
Installed Reserve Percent (4)		82.1	79.8	79.1	75.8	76.9	77.1	77.1	77.0	76.8	76.7	76.5	

855.3
-2,549.4

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Notes for Table V-2 (Load and Capacity Schedule)

<p>(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.</p>
<p>(2) — Additions and Re-rates: Projects that have completed a Class Year Interconnection Facilities Study, as shown in Table IV-1.</p>
<p>(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.</p>
<p>(4) — The Installed Reserve Margin requirement determined by the NYSRC for the 2018 - 2019 Capability Year is 18.2%. The Installed Reserve Percent calculated in Table V-2a should be compared to the Installed Reserve Margin requirement in the 2018 - 2019 Capability Year.</p>
<p>(5) — The Renewable Category does not necessarily match the New York State Clean Energy Standard (CES) definition.</p>
<p>(6) — Existing wind generators are listed at their full nameplate rating.</p>
<p>(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.</p>
<p>(8) — Existing solar generators are listed at their full nameplate rating.</p>
<p>(9) — Noticed deactivations as shown in Table IV-5. Existing Retirements in Table IV-3 are accounted for in the list of 2018 Existing Generating Facilities.</p>
<p>(10) — Proposed Resource Changes: Projects that have not completed a Class Year Interconnection Facilities Study, as shown in Tables IV-1 & IV-2.</p>

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 1st, 2018). The information in Table VI-1 is redacted as it may contain Critical Energy Infrastructure Information.

A version of the 2018 *Gold Book* that includes this table is available to individuals with a *myNYISO* account. To access a version of the 2018 *Gold Book* that includes Table VI-1, please visit:

https://www.nyiso.com/public/markets_operations/services/planning/documents/index.jsp

To obtain a *myNYISO* account, please visit:

http://www.nyiso.com/public/webdocs/markets_operations/services/customer_relations/CEII_Request_Form/CEII_Request_Form_and_NDA_complete.pdf

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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	208.9 (a)	0.5	0.0	405.3 (b) (i)	185.8 (h)	5.3	0.0			827.5 (b)
LONG ISLAND POWER AUTHORITY	0.0	0.0	243.9	161.5 (e)	0.0	0.0	0.0	9.3 (g)	0.0	0.0	24.0	66.0 (g)	504.7
NEW YORK POWER AUTHORITY	52.7 (f)	1.8	0.0	0.0	338.1	0.0	885.0	43.2	0.0	155.0			1,475.8
NEW YORK STATE ELECTRIC & GAS CORPORATION	1,489.5	7.5	0.0	0.0	239.0	0.0	550.5	0.0	0.0	0.0			2,286.5
NATIONAL GRID WESTERN, CENTRAL & EASTERN	4,126.8	24.0	0.0	0.0	498.4	20.2	687.8	0.4	0.0	0.0			5,357.6
ORANGE AND ROCKLAND UTILITIES INC.	0.0	0.0	90.6	2.3 (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)	6,147.1	65.0	356.3	372.7	1,076.0	20.2	2,633.1	242.1	5.3	155.0	24.0	66.0	11,162.8 (c)

TOTAL OVERHEAD = 10,372.8 (c)
 TOTAL UNDERGROUND = 790.0 (c)
 TOTAL = 11,162.8 (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) 21.3 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 1st, 2018). Projects that were placed in-service since the publication of the 2017 *Gold Book* are maintained on the list of proposed transmission projects for one year.

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Table VII: Proposed Transmission Facilities

[Merchant Queue Position] / Project Notes	Transmission Owner	Terminals		Line Length In Miles (1)	Expected In-Service Date/Yr		Nominal Voltage In kV		# of ckts	Thermal Ratings (4)		Project Description / Conductor Size	Class Year / Type of Construction
					Prior to (2)	Year	Operating	Design		Summer	Winter		
Merchant Transmission Projects (18)													
[358]	West Point Partners	Leeds 345kV	Buchanan North 345kV	72	S	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	S	2021	320	320	1	1000 MW	1000 MW	-/+ 320kV Bipolar HVDC cable	TBD
[363].20	Poseidon Transmission , LLC	Deans 500kV (PJM)	Ruland Road 138kV	82	W	2020	200	200	1	500 MW	500 MW	-/+ 200kV Monopole HVDC cable	2015
TIP Projects (19) (Included in FERC 715 Base Case)													
430	H.Q. Energy Services U.S. Inc.	Alcoa 115kV	Dennison 115kV	3	W	2019	115	115	1	278 MVA	301 MVA	Reconductor w/1192 ACSR	N/A
545A	NextEra Energy Transmission NY	Dysinger	East Stolle	20	S	2022	345	345	1	1356 MVA	1612 MVA	Western NY - Empire State Line Project	OH
Firm Plans (5) (Included in FERC 715 Base Case)													
6	CHGE	East Fishkill	Shenandoah	1.98	W	2018	115	115	1	1210	1225	1-1033 ACSR	OH
14	CHGE	Hurley Avenue	Leeds	Series Compensation	S	2020	345	345	1	2336	2866	21% Compensation	-
11	CHGE	St. Pool	High Falls	5.61	W	2020	115	115	1	1010	1245	1-795 ACSR	OH
11	CHGE	High Falls	Kerhonkson	10.03	W	2020	115	115	1	1010	1245	1-795 ACSR	OH
11	CHGE	Modena	Galeville	4.62	W	2020	115	115	1	1010	1245	1-795 ACSR	OH
11	CHGE	Galeville	Kerhonkson	8.96	W	2020	115	115	1	1010	1245	1-795 ACSR	OH
3	ConEd	East 13th Street	East 13th Street	Reconfiguration	In-Service	2017	345	345	N/A	N/A	N/A	Reconfiguration(xfmr 12 -xfmr 13)	-
3	ConEd	East 13th Street	East 13th Street	Reconfiguration	In-Service	2018	345	345	N/A	N/A	N/A	Reconfiguration(xfmr 14 -xfmr 15)	-
3	ConEd	Greenwood	Greenwood	Reconfiguration	In-Service	2018	138	138	N/A	N/A	N/A	Reconfiguration	-
3	ConEd	Jamaica	Jamaica	Reconfiguration	In-Service	2018	138	138	N/A	N/A	N/A	Reconfiguration	-
	ConEd	Jamaica	Jamaica	Reconfiguration	S	2019	138	138	N/A	N/A	N/A	Reconfiguration	-
	ConEd	East 13th Street	East 13th Street	xfmr	S	2019	345	345	N/A	N/A	N/A	Replacing xfmr 10 and xfmr 11	-
	ConEd	Gowanus	Gowanus	xfmr	S	2019	345	345	N/A	N/A	N/A	Replacing xfmr T2	-
	ConEd	East 13th Street	East 13th Street	Reconfiguration	S	2019	345	345	N/A	N/A	N/A	Reconfiguration (xfmr 10 -xfmr 11)	-
	ConEd	Rainey	Corona	xfmr/Phase shifter	S	2019	345/138	345/138	1	268 MVA	320 MVA	xfmr/Phase shifter	UG
6/7	LIPA	Ridge	Coram	-8.50	S	2018	69	69	1	883	976	795 AL	OH
6/7	LIPA	Ridge	West Bartlett	5.85	S	2018	69	69	1	883	976	795 AL	OH
6/7	LIPA	West Bartlett	Coram	2.65	S	2018	69	69	1	883	976	795 AL	OH
6/7	LIPA	West Hempstead	East Garden City	-2.92	S	2018	69	69	1	1158	1245	477 ACSS	OH
6/7	LIPA	West Hempstead	Hempstead	0.97	S	2018	69	69	1	1158	1245	477 ACSS	OH
6/7	LIPA	Hempstead	East Garden City	1.95	S	2018	69	69	1	1158	1245	477 ACSS	OH
6/7	LIPA	Pilgrim	West Bus	-11.86	S	2019	138	138	1	2087	2565	2493 ACAR	OH
6/7	LIPA	West Bus	Kings Hwy	5.86	S	2019	138	138	1	2087	2565	2493 ACAR	OH
6/7	LIPA	Pilgrim	Kings Hwy	6.00	S	2019	138	138	1	2087	2565	2493 ACAR	OH
3/6	NGRID	Mohican	Battenkill	14.2	In-Service	2017	115	115	1	933	1140	Replace 14.2 miles of conductor w/min 1033.5 ACSR	OH
3/6	NGRID	Mohican	Luther Forest	34.47	In-Service	2017	115	115	1	937	1141	Replace 14.2 miles of conductor w/min 795 kmil ACSR 26/7	OH
3	NGRID	Edic	Edic	xfmr	In-Service	2017	345/115	345/115	2	505MVA	603MVA	Add Transformer for MVEdge (TR#5)	-
3	NGRID	Edic	Marcy Nanocenter	1.3	In-Service	2017	115	115	2	556MVA	680MVA	New Circuit to Customer Station (MVEdge)	OH
3	NGRID	Eastover Road	Eastover Road	xfmr #2	In-Service	2018	230/115	230/115	1	381MVA	466MVA	New/2nd 230/115kV Transformer	-
6	NGRID	Gardenville	Erie	0.30	S	2018	115	115	1	939	1144	Replace 400CU and 636AL with 636 ACSR	OH
	NGRID	Oneida	Porter	Reactor	S	2018	115	115	1	-	-	Install reactor on Line #7; 8%	-
	NGRID	Porter	Yahnundasis	Reactor	S	2018	115	115	1	-	-	Install reactor on Line #3; 12%	-
	NGRID	Elm St	Elm St	xfmr	S	2018	230/23	230/23	1	118MVA	133MVA	Add a fourth 230/23kV transformer	-
7	NGRID	Schodack	Churchtown	-26.74	S	2018	115	115	1	937	1141	Line removal tapped by Falls Park Project	OH
	NGRID	Rotterdam	Rotterdam	-	S	2018	115	115	N/A	N/A	N/A	Reconfigure Rotterdam 115kV station to eliminate R1 and R82 Contingencies	OH
6	NGRID	Menands	State Campus	5.00	W	2018	115	115	1	744	744	Replace 3.2 miles of 4/0 Cu conductor with 795kcmil ACSR 26/7	OH
	NGRID	Ticonderoga	Ticonderoga	-	W	2018	115	115	N/A	N/A	N/A	Install 20MVAR Cap Bank at Ticonderoga	-
6	NGRID	Wolf Rd	Menands	4.54	W	2018	115	115	1	808	856	Replace 2.1 miles of 4/0 Cu conductor with 795kcmil ACSR 26/7	OH
	NGRID	Golah	Golah	Cap Bank	W	2018	115	115	1	18MVAR	18MVAR	Capacitor Bank	-

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Table VII: Proposed Transmission Facilities (cont'd)

[Merchant Queue Position] / Project Notes	Transmission Owner	Terminals		Line Length In Miles (1)	Expected In-Service Date/Yr Prior to (2) Year		Nominal Voltage In kV		# of ckts	Thermal Ratings (4)		Project Description / Conductor Size	Class Year / Type of Construction
							Operating	Design		Summer	Winter		
6	NGRID	Rotterdam	Curry Rd	7	S	2019	115	115	1	808	856	Replace 7.0 miles of mainly 4/0 Cu conductor with 795kcmil ACSR 26/7	
	NGRID	Batavia	Batavia	Cap Bank	S	2019	115	115	1	30MVAR	30MVAR	Second Capacitor Bank	-
7	NGRID	Battenkill	Eastover Road	-22.72	S	2019	115	115	1	937	1141	New Schaghticoke Switching Station	OH
7	NGRID	Battenkill	Schaghticoke (New Station)	14.31	S	2019	115	115	1	937	1141	New Schaghticoke Switching Station	OH
7	NGRID	Schaghticoke (New Station)	Eastover Road	8.41	S	2019	115	115	1	937	1141	New Schaghticoke Switching Station	OH
7	NGRID	Mohican	Luther Forest	-34.47	S	2019	115	115	1	937	1141	New Schaghticoke Switching Station	OH
7	NGRID	Mohican	Schaghticoke (New Station)	28.13	S	2019	115	115	1	937	1141	New Schaghticoke Switching Station	OH
7	NGRID	Luther Forest	Schaghticoke (New Station)	6.34	S	2019	115	115	1	1280	1563	New Schaghticoke Switching Station	OH
	NGRID	Huntley	Lockport	6.9	S	2019	115	115	2	1303	1380	Replace 6.9 miles of 36 and 37 lines	OH
	NGRID	Mortimer	Mortimer	-	S	2019	115	115		N/A	N/A	Second 115kV Bus Tie Breaker at Mortimer Station	
	NGRID	Rosa Rd	Rosa Rd	-	S	2019	115	115		N/A	N/A	Install 35MVAR Cap Bank at Rosa Rd	
	NGRID	Ohio St	Ohio St	-	S	2019	115	115		N/A	N/A	New Distribution Station at Ohio Street	
	NGRID	Dewitt	Dewitt	-	S	2019	115	115		N/A	N/A	New Distribution Station at Dewitt	
6	NGRID	Clay	Dewitt	10.24	W	2019	115	115	1	220MVA	268MVA	Reconductor 4/0 CU to 795ACSR	OH
6	NGRID	Clay	Teal	12.75	W	2019	115	115	1	220 MVA	268MVA	Reconductor 4/0 CU to 795ACSR	OH
	NGRID	Mortimer	Mortimer	Reconfiguration	W	2019	115	115	1	N/A	N/A	Reconfiguration of Station	-
7	NGRID	Spier	Rotterdam (#2)	-32.74	W	2019	115	115	1	1168	1416	New Lasher Rd Switching Station	OH
7	NGRID	Spier	Lasher Rd (New Station) (#2)	21.69	W	2019	115	115	1	1168	1416	New Lasher Rd Switching Station	OH
7	NGRID	Lasher Rd (New Station)	Rotterdam	11.05	W	2019	115	115	1	2080	2392	New Lasher Rd Switching Station	OH
7	NGRID	Spier	Luther Forest (#302)	-34.21	W	2019	115	115	1	916	1070	New Lasher Rd Switching Station	OH
7	NGRID	Spier	Lasher Rd (New Station) (#302)	21.72	W	2019	115	115	1	916	1118	New Lasher Rd Switching Station	OH
	NGRID	Two Mile Creek	Two Mile Creek	-	W	2019	115	115		N/A	N/A	New Distribution Station at Two Mile Creek	
	NGRID	Lasher Rd (New Station)	Luther Forest	12.49	W	2019	115	115	1	990	1070	New Lasher Rd Switching Station	OH
	NGRID	Rotterdam	Rotterdam	-	W	2019	115	115		N/A	N/A	Install Series Reactors at Rotterdam Station on lines 17 & 19	
6	NGRID	Albany Steam	Greenbush	6.14	W	2019	115	115	2	1190	1527	Reconductor Albany - Greenbush 115kV lines 1 & 2	
	NGRID	West Ashville	West Ashville	-	W	2019	115	115		N/A	N/A	New Distribution Station at West Ashville	
	NGRID	Sodeman Rd	Sodeman Rd	-	W	2019	115	115		N/A	N/A	New Distribution Station at Sodeman Road	
	NGRID	South Oswego	Indeck (#6)	-	S	2020	115	115	1	-	-	Install High Speed Clearing on Line #6	
	NGRID	Huntley 230kV	Huntley 230kV	-	S	2020	230	230	-	N/A	N/A	Rebuild of Huntley 230kV Station	
	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	
	NGRID	Dunkirk	Dunkirk	-	S	2020	115	115	1			Add second bus tie breaker	
6	NGRID	GE	Geres Lock	7.14	S	2020	115	115	1	785	955	Reconductoring 4/OUC & 336 ACSR to 477 ACCR (Line #8)	
	NGRID	Gardenville 115kV	Gardenville 115kV	-	W	2020	-	-	-	-	-	Rebuild of Gardenville 115kV Station to full breaker and a half	
	NGRID	Oswego	Oswego	-	W	2020	115	115		N/A	N/A	Rebuild of Oswego 115kV Station	
6	NGRID	Niagara	Packard	3.7	S	2021	115	115	2	331MVA	358MVA	Replace 3.7 miles of 193 and 194 lines	OH
	NGRID	New Bethlehem	New Bethlehem	-	S	2021	115	115		N/A	N/A	New Bethlehem 115/13.2kV station	
	NGRID	Gardenville 230kV	Gardenville 115kV	xmfr	S	2021	230/115	230/115	-	347 MVA	422 MVA	Replacement of 230/115kV TB#4 stepdown with larger unit	
	NGRID	Porter	Porter	-	S	2022	230	230		N/A	N/A	Porter 230kV BPS upgrades	
	NGRID	Watertown	Watertown	-	S	2022	115	115		N/A	N/A	New Distribution Station at Watertown	
	NGRID	Dunkirk	Dunkirk	-	W	2022	115	115		N/A	N/A	Rebuild of Dunkirk 115kV Station	
6	NGRID	Gardenville	Dunkirk	20.5	S	2023	115	115	2	1105	1346	Replace 20.5 miles of 141 and 142 lines	OH
251/7/3	NYP&A	Coopers Corners	Rock Tavern	-46.10	In-Service	2017	345	345	1	3072	3768	New Dolson Avenue Ring Bus Station for CPV Valley project	OH
251/7/3	NYP&A	Coopers Corners	Dolson Avenue	32.21	In-Service	2017	345	345	1	3000	3000	New Dolson Avenue Ring Bus Station for CPV Valley project	OH
251/7/3	NYP&A	Dolson Avenue	Rock Tavern	13.89	In-Service	2017	345	345	1	3000	3000	New Dolson Avenue Ring Bus Station for CPV Valley project	OH
3	NYP&A	Moses	Moses	Cap Bank	In-Service	2017	115	115	1	100 MVAR	100 MVAR	Cap Bank Installation to Replace Moses Synchronous Condensers	-
6/3	NYP&A	Cumberland Head	Gordon Landing	1.63	In-Service	2017	115	230	1	1147	1404	Replacement of PV-20 Submarine Cable	Under Water
3	NYP&A	Moses	Moses	GSU	In-Service	2017	115/13.8/13.8	115/13.8/13.8	1	TBD	TBD	Replacement of St. Lawrence Hydro Unit GSU #8	-
3	NYP&A	Moses	Moses	GSU	In-Service	2017	115/13.8/13.8	115/13.8/13.8	1	TBD	TBD	Replacement of St. Lawrence Hydro Unit GSU #7	-
	NYP&A	Marcy 765	Marcy 345	xmfr	W	2018	765/345	765/345	1	1488 MVA	1793 MVA	Install the Marcy Auto Transformer 1(AT1) spare phase to Marcy AT2	-
7	NYP&A	Niagara	Rochester	-70.20	W	2020	345	345	1	2177	2662	2-795 ACSR	OH
339/7	NYP&A	Somerset	Rochester	-44.00	W	2020	345	345	1	2177	2662	2-795 ACSR	OH

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Table VII: Proposed Transmission Facilities (cont'd)

[Merchant 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		
339/7	NYPA	Niagara	Station 255 (New Station)	66.40	W	2020	345	345	1	2177	2662	2-795 ACSR	OH
339/7	NYPA	Somerset	Station 255 (New Station)	40.20	W	2020	345	345	1	2177	2662	2-795 ACSR	OH
339/7	NYPA	Station 255 (New Station)	Rochester	3.80	W	2020	345	345	1	2177	2662	2-795 ACSR	OH
3	NYSEG	Elbridge	State Street	14.50	In-Service	In-Service	115	115	1	250 MVA	305 MVA	1033 ACSR	OH
6/3	NYSEG	Elbridge	State Street	14.50	In-Service	In-Service	115	115	1	1255	1531	Reconductor 336.4 ACSR to 1194 KCM	OH
8/3	NYSEG	Wood Street	Katonah	11.70	In-Service	In-Service	115	115	1	1160	1360	477 ACSR	OH
7	NYSEG	Wethersfield	Meyer	-31.50	S	2018	230	230	1	1080	1310	795 ACSR	OH
7	NYSEG	South Perry	Meyer	20.00	S	2018	230	230	1	1080	1310	795 ACSR	OH
7	NYSEG	Wethersfield	South Perry	11.50	S	2018	230	230	1	1080	1310	795 ACSR	OH
	NYSEG	South Perry	South Perry	xmfr	S	2018	230/115	230/115	1	246 MVA	291 MVA	Transformer	-
	NYSEG	Stephentown	Stephentown	xmfr	S	2018	115/34.5	115/34.5	1	37 MVA	44MVA	Transformer #2	-
7/8	NYSEG	Wood Street	Carmel	1.34	W	2018	115	115	1	261MVA	261MVA	477 ACSR	OH
	NYSEG	Flat Street	Flat Street	xmfr	W	2018	115/34.5	115/34.5	2	40MVA	45.2MVA	Transformer #2	-
	NYSEG	Pawling	-	Cap Bank	W	2018	115	115	1	88MVAR	88MVAR	Capacitor Bank	-
7	NYSEG	Falls Park 115/34.5kV Substation	-	-	S	2019	115/34.5	115/34.5	-	-	-	Tap to interconnect NG Line #14	-
7	NYSEG	Falls Park	Schodack(NG)	17.91	S	2019	115	115	1	186 MVA	227 MVA	Tap to interconnect NG Line #14	OH
7	NYSEG	Falls Park	Churchtown	9.68	S	2019	115	115	1	175 MVA	206 MVA	Tap to interconnect NG Line #14	OH
	NYSEG	Falls Park	Falls Park	xmfr	S	2019	115/34.5	115/34.5	1	62 MVA	70 MVA	Transformer #1	-
	NYSEG	Meyer	Meyer	xmfr	S	2019	115/34.5	115/34.5	2	59.2MVA	66.9MVA	Transformer #2	-
	NYSEG	Willet	Willet	xmfr	W	2019	115/34.5	115/34.5	1	39 MVA	44 MVA	Transformer #2	-
	NYSEG	Watercure Road	Watercure Road	xmfr	W	2019	345/230	345/230	1	426 MVA	494 MVA	Transformer #2 and Station Reconfiguration	-
	NYSEG	Gardenville	Gardenville	xmfr	W	2019	230/115	230/115	1	316 MVA	370 MVA	NYSEG Transformer #3 and Station Reconfiguration	-
	NYSEG	Oakdale 345	Oakdale 115	xmfr	W	2021	345/115	345/115/34.5	1	494MVA	527 MVA	Transformer #3 and Station Reconfiguration	-
	NYSEG	Fraser	Fraser	xmfr	W	2021	345/115	345/115	1	305 MVA	364 MVA	Transformer #2 and Station Reconfiguration	-
	NYSEG	Coopers Corners	Coopers Corners	xmfr	S	2022	345/115	345/115	1	232 MVA	270 MVA	Transformer #3 and Station Reconfiguration	-
	NYSEG	Coopers Corners	Coopers Corners	xmfr	S	2022	115/34.5	115/34.5	1	58 MVA	66 MVA	Transformer #2 and Station Reconfiguration	-
	NYSEG	Wood Street	Wood Street	xmfr	S	2022	345/115	345/115	1	327 MVA	378 MVA	Transformer #3	-
	NYSEG	Mountaindale	Old Falls	5.44	S	2022	115	115	1	108	133	Tap 115kV line and Station Reconfiguration to 115kV Operation	OH
7	NYSEG	Old Falls	West Woodbourne	0.80	S	2022	115	115	1	108	133	Tap 115kV line and Station Reconfiguration to 115kV Operation	OH
	O & R	West Nyack	West Nyack	Cap Bank	S	2018	69	69	1	-	-	Capacitor Bank	-
7	O & R/ConEd	Ladentown	Buchanan	-9.5	S	2021	345	345	1	3000	3211	2-2493 ACAR	OH
7	O & R/ConEd	Ladentown	Lovett 345 kV Station (New Station)	5.5	S	2021	345	345	1	3000	3211	2-2493 ACAR	OH
7	O & R/ConEd	Lovett 345 kV Station (New Station)	Buchanan	4	S	2021	345	345	1	3000	3211	2-2493 ACAR	OH
	O & R	Lovett 345 kV Station (New Station)	Lovett	xmfr	S	2021	345/138	345/138	1	562 MVA	562 MVA	Transformer	-
3	RGE	Station 122 (Station upgrade)	Station 122 (Station upgrade)	xmfr	In-Service	In-Service	345/115	345/115	3	494 MVA	527 MVA	Transformer Replacement and Station Reconfiguration (GRTA)	-
3	RGE	Station 80	Station 80	-	In-Service	In-Service	345	345	-	-	-	Station 80 Reconfiguration (GRTA)	-
	RGE	Station 33	Station 262	2.97	S	2019	115	115	1	2008	2008	Underground Cable	UG
	RGE	Station 262	Station 23	1.46	S	2019	115	115	1	2008	2008	Underground Cable	UG
	RGE	Mortimer	Station 251 (Upgrade Line #901)	1.00	S	2019	115	115	1	400MVA	400MVA	Line Upgrade	-
	RGE	Station 23	Station 23	xmfr	S	2019	115/11.5/11.5	115/11.5/11.5	2	75 MVA	84 MVA	Transformer	-
	RGE	Station 23	Station 23	xmfr	S	2019	115/34.5	115/34.5	2	75 MVA	84 MVA	Transformer	-
	RGE	Station 42	Station 23	Phase Shifter	S	2019	115	115	1	253 MVA	253 MVA	Phase Shifter	-
	RGE	Station 262	Station 262	xmfr	S	2019	115/34.5	115/34.5	1	58.8MVA	58.8MVA	Transformer	-
	RGE	Station 122-Pannell-PC1	Station 122-Pannell-PC1 and PC2	-	S	2019	345	345	1	1314 MVA-LTE	1314 MVA-LTE	Relay Replacement	-
	RGE	Station 82	Station 251 (Upgrade Line #902)	-	W	2019	115	115	1	400MVA	400MVA	Line Upgrade	-
7	RGE	Station 168	Mortimer (NG Trunk #2)	26.4	S	2020	115	115	1	145 MVA	176 MVA	Station 168 Reinforcement Project	OH
7	RGE	Station 168	Elbridge (NG Trunk # 6)	45.5	S	2020	115	115	1	145 MVA	176 MVA	Station 168 Reinforcement Project	OH
	RGE	Station 418	Station 48	7.6	S	2020	115	115	1	175 MVA	225 MVA	New 115kV Line	OH
	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

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Table VII: Proposed Transmission Facilities (cont'd)

[Merchant Queue Position] / Project Notes	Transmission Owner	Terminals	Line Length In Miles (1)	Expected In-Service Date/Yr		Nominal Voltage In kV		# of okts	Thermal Ratings (4)		Project Description / Conductor Size	Class Year / Type of Construction	
				Prior to (2)	Year	Operating	Design		Summer	Winter			
Non-Firm Plans (not included in 2018 Base Cases)													
	CHGE	Saugerties	North Catskill	12.46	W	2021	69	115	1	1114	1359	1-795 ACSR	OH
	CHGE	Hurley Ave	Saugerties	11.40	W	2022	69	115	1	1114	1359	1-795 ACSR	OH
	LIPA	MacArthur	-	Cap Bank	S	2020	69	69	1	54 MVAR	54 MVAR	Capacitor bank	-
13	LIPA	Valley Stream	East Garden City	7.00	W	2020	138	138	1	1171	1171	2000 SQMM XLPE	UG
9	LIPA	Riverhead	Wildwood	10.63	S	2021	138	138	1	1399	1709	1192ACSR	OH
13	LIPA	Riverhead	Canal	16.40	S	2021	138	138	1	846	973	2368 KCMIL (1200 mm ²) Copper XLPE	UG
	LIPA	Canal	Wainscott	19.00	S	2026	69	138	1	1171	1171	2000 SQMM XLPE	UG
6	NGRID	Mohican	Butler	3.50	S	2019	115	115	1	TBD	TBD	Replace 3.5 miles of conductor w/min 336.4 ACSR	OH
	NGRID	Elbridge	Elbridge	Reactor	W	2020	115	115	1			Add five reactors to correct WoS issues	-
	NGRID	Gardenville 230kV	Gardenville 115kV	xmfr	S	2022	230/115	230/115	-	347 MVA	422 MVA	Replacement of 230/115kV TB#3 stepdown with larger unit	-
	NGRID	Niagara	Packard	3.7	S	2022	115	115	2	1729	2256	Replace 3.7 miles of 191 and 192 lines	OH
	NGRID	Packard	Packard	Reactor	S	2022	115	115	1	n/a	n/a	Add a series reactor to line 182	OH
6	NGRID	Packard	Erie	16.9	S	2023	115	115	1	TBD	TBD	Replace 16.9 miles of 181 line	OH
6	NGRID	Niagara	Gardenville	3.9	S	2023	115	115	1	TBD	TBD	Replace 3.9 miles of 180 line	OH
6	NGRID	Packard	Huntley	9	S	2023	115	115	2	1200	1200	Replace 9.0 miles of 130 and 133 lines	OH
	NYPA	Niagara	Niagara	GSU	S	2018	115/230	115/230	1	TBD	TBD	Installation of a new 230/115kV dual voltage GSU	-
	NYPA	Astoria Annex	Astoria Annex	Shunt Reactor	W	2018	345	345	1	TBD	TBD	Replacement of Two Shunt Reactors at Astoria Annex 345kV Substion	-
	NYPA	Astoria 500 MW	Astoria 500 MW	GSU	S	2019	138/18	138/18	1	220 MVA	220 MVA	Astoria 500MW Combined Cycle GSU Refurbishment	-
	NYPA	Astoria 500 MW	Astoria 500 MW	GSU	S	2019	138/18	138/18	1	220 MVA	220 MVA	Astoria 500MW Combined Cycle GSU Refurbishment	-
	NYPA	Niagara 230 kV	Niagara 230 kV	Breaker	S	2020	230	230	-	TBD	TBD	Add a new breaker to remove STB #2014 Ctg	-
	NYPA	Niagara 230 kV	Niagara 115 kV	xmfr	S	2020	230/115	230/115	1	TBD	TBD	Replacement of Niagara AutoTransformer #1	-
	NYPA	Niagara 345 kV	Niagara 230 kV	xmfr	W	2022	345/230	345/230	1	TBD	TBD	Replacement of Niagara AutoTransformer #3	-
566/6/7	NYPA	Moses	Adirondack	78	S	2023	230	345	2	1088	1329	Replace 78 miles of both Moses-Adirondack 1&2	OH
	NYPA	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	2018	138	138	1	32 MVAR	32 MVAR	Capacitor bank	-
	O & R	Burns	Corporate Drive	5.00	W	2019	138	138	1	1980	2120	1272 ACSS	OH
	O & R	Ramapo (NY)	South Mahwah (RECO)	5.50	W	2021	138	138	2	1980	2120	1272 ACSS	OH
	O & R	Harings Corner (RECO)	Closter (RECO)	3.20	S	2022	69	69	1	1098	1312	UG Cable	UG
	O & R	Burns	West Nyack	5.00	S	2023	138	138	1	940	940	UG Cable	UG
6	O & R	Shoemaker	Pocatello	2.00	W	2023	69	69	1	1604	1723	795 ACSS	OH
6	O & R	Sugarloaf	Shoemaker	12.00	W	2023	69	138	2	1062	1141	397 ACSS	OH
	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	OH
	O & R	West Nyack	West Nyack	-	S	2030	138	138	1			Station Reconfiguration	-
	O & R	West Nyack (NY)	Harings Corner (RECO)	7.00	W	2030	69	138	1	1604	1723	795 ACSS	OH

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Table VII: Proposed Transmission Facilities (cont'd)

Number	Note
1	Line Length Miles: Negative values indicate removal of Existing Circuit being tapped
2	S = Summer 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 Merchant Transmission Project Queue #458 includes, as an elective System Upgrade Facility, an Astoria-Rainey 345kV cable
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	This project has completed a Class Year study and has accepted cost allocation and posted security in accordance with Attachment S to the OATT.

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



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