

Attachment #4.2.1 Return to Agenda

Figure 24: Statewide System Margin (Summer Peak - Expected Weather, Normal Transfer Criteria) (Note, may not exactly match NYISO Table due to rounding)

Line	Item	Summer Peak - Baseline Expected Summer Weather, Normal Transfer Criteria (MW)									
		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
A	NYCA Generation (1) (ICAP)	38,066	38,343	38,266	38,266	38,266	38,266	38,266	38,266	38,266	38,266
B	NYCA Generation Derates (2)	(5,863)	(6,567)	(6,582)	(6,596)	(6,610)	(6,624)	(6,624)	(6,639)	(6,653)	(6,653)
C	Temperatures Based Generation Derates	0	0	0	0	0	0	0	0	0	0
D	External Area Interchanges(3)	1,844	1,844	3,094	3,094	3,094	3,094	3,094	3,094	3,094	3,094
E	Total Resources (A+B+C+D)	34,047	33,620	34,778	34,764	34,750	34,736	34,736	34,721	34,707	34,707
F	Demand Forecast (5)	(31,763)	(31,626)	(31,436)	(31,292)	(31,164)	(31,126)	(31,266)	(31,526)	(31,886)	(32,296)
G	Large Load Forecast (6)	(517)	(764)	(1,004)	(1,118)	(1,146)	(1,174)	(1,224)	(1,224)	(1,224)	(1,224)
H	Largest Loss-of-Source Contingency	(1,310)	(1,310)	(1,310)	(1,310)	(1,310)	(1,310)	(1,310)	(1,310)	(1,310)	(1,310)
I	Total Capability Requirement (F+G) (UCAP)	(33,590)	(33,700)	(33,750)	(33,720)	(33,620)	(33,610)	(33,800)	(34,060)	(34,420)	(34,830)
J	Statewide System Margin (E+I)	457	(80)	1,028	1,044	1,130	1,126	936	661	287	(123)
K	Higher Policy Demand Impact	75	160	190	(30)	(320)	(570)	(720)	(940)	(1,060)	(1,220)
L	Higher Policy Statewide System Margin (J+K)	532	80	1,218	1,014	810	556	216	(279)	(773)	(1,343)
M	SCRS (7), (8)	897	897	897	897	897	897	897	897	897	897
N											
O	Operating Reserve	(1,310)	(1,310)	(1,310)	(1,310)	(1,310)	(1,310)	(1,310)	(1,310)	(1,310)	(1,310)
P	Statewide System Margin with Full Operating Reserves (I+J) (4) (UCAP)	(853)	(1,390)	(282)	(266)	(180)	(184)	(374)	(649)	(1,023)	(1,433)

Notes:

- Reflects the 2023 Gold Book existing summer capacity plus projected additions and deactivations.
- Reflects the derates for generating resources. For this evaluation land-based wind generation is assumed to have a capability of 5% of the total nameplate, off-shore wind at 10% of the total nameplate, solar generation is based on the ratio of solar PV nameplate capacity (2023 Gold Book Table I-9a) and solar PV peak reductions (2023 Gold Book Table I-9c). Derates for run-of-river hydro are included as well as the Oswego Export limit for all lines in-service. Includes derates for thermal resources based on NERC five-year class average EFORD data published August 2022 (<https://www.nerc.com/pa/RAPA/gads/Pages/Reports.aspx>).
- Interchanges are based on ERAG MMWG values.
- For informational purposes.
- Reflects the 2023 Gold Book Forecast without the impact of the large load queue projects included.
- Forecast of large load queue projects included in this assessment (Q0580 – WNY STAMP, Q0776 – Greenidge, Q0849 – Somerset, Q0580 – Cayuga, Q0979 – North Country Data Center, Q1536 - White Pines Phas (Micron), and Q1446 - Massena Green Hydrogen (Air Products and Chemicals)).
- SCRs are not applied for transmission security analysis of normal operations, but are included for emergency operations.
- Includes a derate of 384 MW for SCRs

Resource Adequacy Equivalent

L	Capacity From Above (A+D)	39,910	40,187	41,360	41,360	41,360	41,360	41,360	41,360	41,360	41,360
M	System EFORD (-B/A)	15.4%	17.1%	17.2%	17.2%	17.3%	17.3%	17.3%	17.3%	17.4%	17.4%
N	ICAP Equivalent of System Margin (I/(1-M))	540	-97	1242	1261	1366	1362	1132	800	347	-149
O	Required Minimum Capacity From Above	39,370	40,284	40,118	40,099	39,994	39,998	40,228	40,560	41,013	41,509

Resource Adequacy Capacity Not Included In Analysis Above

P	Special Case Resources (2024-2025 IRM Study Assumptions Attachment F)	1,281	1,281	1,281	1,281	1,281	1,281	1,281	1,281	1,281	1,281
R	Total Minimum Installed Capacity Requirement (O+P+Q)	40,651	41,565	41,399	41,380	41,275	41,279	41,509	41,841	42,294	42,790
S	Implicit Minimum Installed Reserve Margin (R/F - 1)	25.9%	28.3%	27.6%	27.7%	27.7%	27.8%	27.8%	27.8%	27.7%	27.7%