

NYISO
Installed Capacity & Load
Maintenance Survey

Summer 2024
NYISO
Energy Market Operations Department

Installed Capacity and Load Maintenance Survey

Load Forecast

The Installed Capacity and Load Maintenance Survey uses an updated load forecast for the Summer and Winter peak loads. The 90th percentile Peak Summer 2024 Load Forecast is 33,301 MW and the Peak Winter Load Forecast for 2024 is 24,825MW.

It is assumed that the forecast peak loads can be experienced at any time during the Summer and Winter Peak Load Exposure Intervals. The weekly forecast load curve between peak load exposure intervals is determined by historical weekly peak actual load data.

In the weeks preceding and succeeding the Summer Peak Load Exposure interval, unusual weather patterns have resulted in significantly higher than expected New York Control Area loads. The forecast load curve for 2024 reflects the NYCA's exposure to the potential occurrence of early and late season high load levels.

Installed Capacity (ICAP) Contracts

Capacity Contracts represents the amount of Installed Capacity required to meet 122% of the NYCA peak load forecast for the summer peak load. For the summer of 2024, 38,480MW is required based on the 31,541MW Baseline Peak Summer Load Forecast.

The baseline forecast is based on the forecasts provided by the Transmission Owners and Municipals in accordance with NYISO ICAP procedures.

ICAP Generator Maintenance

Planned Generator Outages

Generating resources intending to supply Installed Capacity must notify the NYISO of their proposed maintenance schedule. This information is used to determine the Known Maintenance for each week and is based on DMNC rating for each generator that submits a proposed maintenance schedule.

Unplanned Generator Outages

Generation resources are assumed to suffer unplanned outages at the rate of 3.21% of the total Load Forecast MW for the NYCA. In addition to the average unplanned outage amount, a 1,310 MW value is included to ensure sufficient ICAP resources are available if the largest ICAP resource becomes unavailable. This results in an unplanned outage amount of 2,377 MW based on the 33,301MW Peak Summer Load Forecast.

Loss of Gas

During the winter peak period, December – February, a 6,494MW value is included to account for cold weather operations. This reflects loss of gas due to heating load, fuel delivery issues, and cold weather equipment issues related to extreme temperatures while accounting for firm gas supply purchases.

Reserve

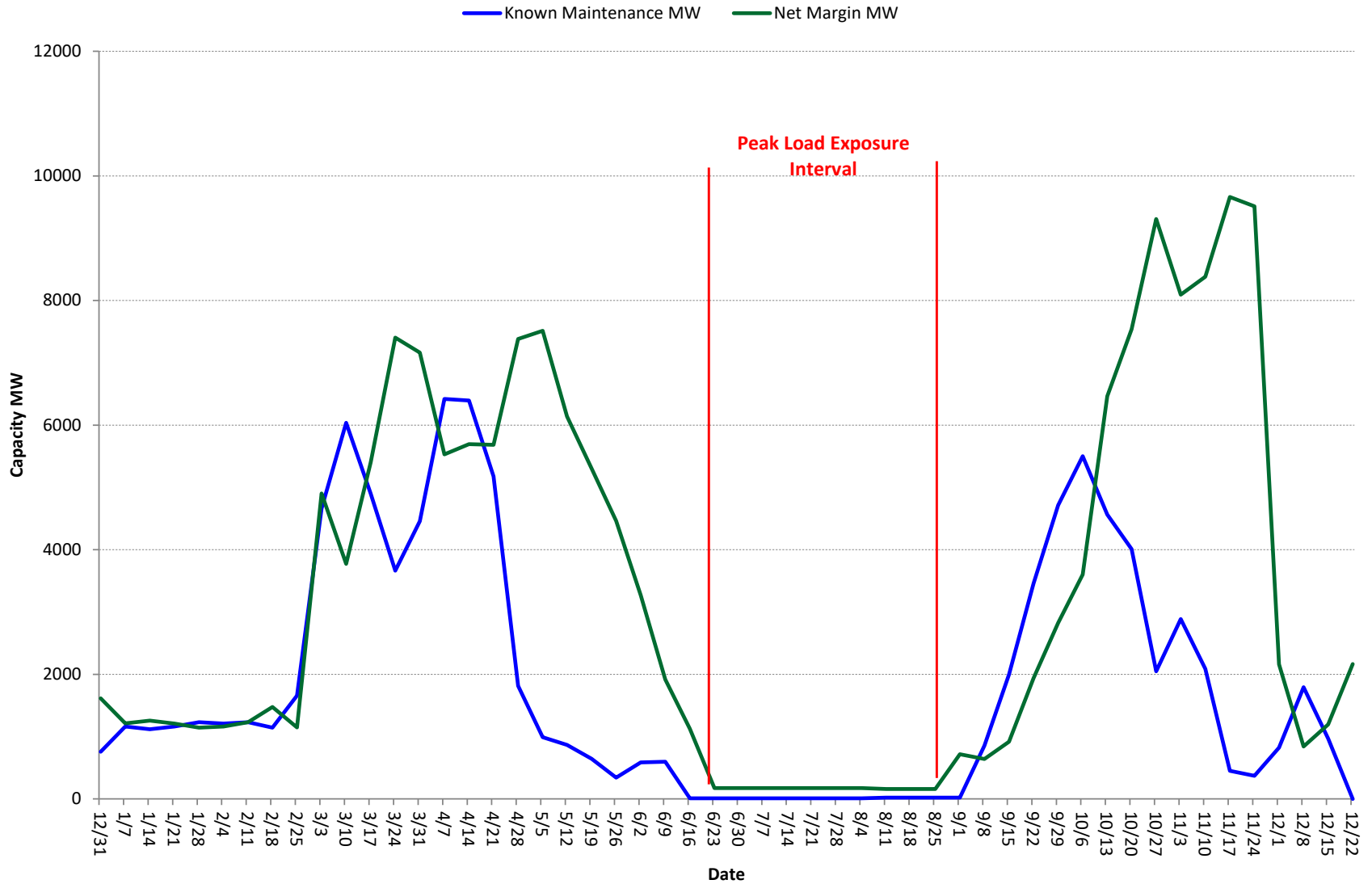
Reserve requirements are based on an amount equal to two times the operating capability loss caused by the most severe contingency observed under normal transfer criteria.

Net ICAP Margin

Net ICAP Margin represents the value of remaining capacity after the Forecasted Load, Known Maintenance, Unplanned Outages, Loss of Gas and Reserve requirements are subtracted. During the summer exposure period, it is projected that the Net Margin for the NYCA will meet reserve requirements by 160 MW.

Week Beginning	Capability Contracts	Load Forecast MW	Available Reserve MW	Known Maintenance MW	Unplanned Outages MW	Gen at Risk MW	Net Reserve MW	Required Reserve MW	Net Margin MW
12/31/2023	38,459	24,220	14,239	758	2,762	6,484	4,235	2,620	1,615
01/07/2024	38,459	24,220	14,239	1,162	2,762	6,484	3,831	2,620	1,211
01/14/2024	38,459	24,220	14,239	1,118	2,762	6,484	3,875	2,620	1,255
01/21/2024	38,459	24,220	14,239	1,164	2,762	6,484	3,830	2,620	1,210
01/28/2024	38,459	24,220	14,239	1,231	2,762	6,484	3,762	2,620	1,142
02/04/2024	38,459	24,220	14,239	1,210	2,762	6,484	3,784	2,620	1,164
02/11/2024	38,459	24,132	14,327	1,231	2,762	6,484	3,850	2,620	1,230
02/18/2024	38,459	23,974	14,485	1,143	2,762	6,484	4,097	2,620	1,477
02/25/2024	38,459	23,788	14,671	1,656	2,762	6,484	3,769	2,620	1,149
03/03/2024	38,459	23,513	14,946	4,662	2,762	0	7,523	2,620	4,903
03/10/2024	38,459	23,266	15,193	6,038	2,762	0	6,394	2,620	3,774
03/17/2024	38,459	22,778	15,681	4,898	2,762	0	8,021	2,620	5,401
03/24/2024	38,459	22,012	16,447	3,663	2,762	0	10,022	2,620	7,402
03/31/2024	38,459	21,454	17,005	4,459	2,762	0	9,785	2,620	7,165
04/07/2024	38,459	21,129	17,330	6,420	2,762	0	8,148	2,620	5,528
04/14/2024	38,459	20,991	17,468	6,393	2,762	0	8,313	2,620	5,693
04/21/2024	38,459	22,220	16,239	5,175	2,762	0	8,302	2,620	5,682
04/28/2024	38,459	23,883	14,576	1,813	2,762	0	10,002	2,620	7,382
05/05/2024	38,480	24,976	13,504	992	2,377	0	10,135	2,620	7,515
05/12/2024	38,480	26,479	12,001	866	2,377	0	8,757	2,620	6,137
05/19/2024	38,480	27,534	10,946	645	2,377	0	7,924	2,620	5,304
05/26/2024	38,480	28,678	9,802	343	2,377	0	7,082	2,620	4,462
06/02/2024	38,480	29,626	8,854	587	2,377	0	5,890	2,620	3,270
06/09/2024	38,480	30,969	7,511	596	2,377	0	4,538	2,620	1,918
06/16/2024	38,480	32,350	6,130	9	2,377	0	3,744	2,620	1,124
06/23/2024	38,480	33,301	5,179	9	2,377	0	2,793	2,620	173
06/30/2024	38,480	33,301	5,179	9	2,377	0	2,793	2,620	173
07/07/2024	38,480	33,301	5,179	9	2,377	0	2,793	2,620	173
07/14/2024	38,480	33,301	5,179	9	2,377	0	2,793	2,620	173
07/21/2024	38,480	33,301	5,179	9	2,377	0	2,793	2,620	173
07/28/2024	38,480	33,301	5,179	9	2,377	0	2,793	2,620	173
08/04/2024	38,480	33,301	5,179	9	2,377	0	2,793	2,620	173
08/11/2024	38,480	33,301	5,179	21	2,377	0	2,780	2,620	160
08/18/2024	38,480	33,301	5,179	21	2,377	0	2,780	2,620	160
08/25/2024	38,480	33,301	5,179	21	2,377	0	2,780	2,620	160
09/01/2024	38,480	32,744	5,736	21	2,377	0	3,337	2,620	717
09/08/2024	38,480	31,985	6,495	856	2,377	0	3,262	2,620	642
09/15/2024	38,480	30,567	7,913	1,997	2,377	0	3,539	2,620	919
09/22/2024	38,480	28,082	10,398	3,460	2,377	0	4,560	2,620	1,940
09/29/2024	38,480	25,947	12,533	4,713	2,377	0	5,443	2,620	2,823
10/06/2024	38,480	24,379	14,101	5,502	2,377	0	6,221	2,620	3,601
10/13/2024	38,480	22,456	16,024	4,563	2,377	0	9,084	2,620	6,464
10/20/2024	38,480	21,936	16,544	4,008	2,377	0	10,158	2,620	7,538
10/27/2024	38,480	22,127	16,353	2,047	2,377	0	11,929	2,620	9,309
11/03/2024	38,480	22,502	15,978	2,886	2,377	0	10,715	2,620	8,095
11/10/2024	38,480	23,012	15,468	2,090	2,377	0	11,001	2,620	8,381
11/17/2024	38,480	23,373	15,107	450	2,377	0	12,280	2,620	9,660
11/24/2024	38,480	23,602	14,878	370	2,377	0	12,131	2,620	9,511
12/01/2024	38,480	24,005	14,475	824	2,377	6,494	4,780	2,620	2,160
12/08/2024	38,480	24,356	14,124	1,792	2,377	6,494	3,460	2,620	840
12/15/2024	38,480	24,825	13,655	968	2,377	6,494	3,815	2,620	1,195
12/22/2024	38,480	24,825	13,655	0	2,377	6,494	4,784	2,620	2,164

NYISO Generator Maintenance Coordination Capacity OOS and Operating Margin 2024



Week Beginning	1 Year Ahead Net Margin
01/05/2025	2,164
01/12/2025	1,804
01/19/2025	1,804
01/26/2025	1,804
02/02/2025	1,804
02/09/2025	2,144
02/16/2025	2,394
02/23/2025	2,681
03/02/2025	8,853
03/09/2025	9,100
03/16/2025	8,116
03/23/2025	8,784
03/30/2025	9,068
04/06/2025	9,085
04/13/2025	8,702
04/20/2025	7,327
04/27/2025	7,907
05/04/2025	7,831
05/11/2025	6,405
05/18/2025	5,679
05/25/2025	4,531
06/01/2025	3,911
06/08/2025	1,977
06/15/2025	593
06/22/2025	196
06/29/2025	196
07/06/2025	196
07/13/2025	196
07/20/2025	196
07/27/2025	196
08/03/2025	196
08/10/2025	184
08/17/2025	184
08/24/2025	184
08/31/2025	773
09/07/2025	1,530
09/14/2025	1,769
09/21/2025	4,273
09/28/2025	5,826
10/05/2025	5,473
10/12/2025	8,321
10/19/2025	9,880
10/26/2025	10,052
11/02/2025	9,410
11/09/2025	8,899
11/16/2025	9,511
11/23/2025	9,858
11/30/2025	9,407
12/07/2025	2,368
12/14/2025	1,865
12/21/2025	1,865
12/28/2025	1,865