

NYISO

Installed Capacity & Load Maintenance Survey

Summer 2021
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 Peak Summer 2021 Load Forecast is 32,333 MW and the Peak Winter Load Forecast for 2021 is 24,203 MW.

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

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 exposure intervals is determined by historical weekly peak actual load data.

In the weeks preceding 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 2021 reflects the NYCA's exposure to the potential occurrence of early season high load levels.

Installed Capacity (ICAP) Contracts

Capacity Contracts represents the amount of Installed Capacity required to meet 120.7% of the NYCA peak load forecast for the summer peak load. For the summer of 2021, 39,026 MW is required based on the 32,333 MW Peak Summer Load Forecast.

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 4.28% of the total Installed Capacity Contracts for the NYCA. In addition to the average unplanned outage amount, a 1,965 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 3,637 MW based on the 32,333 MW Peak Summer Load Forecast.

Loss of Gas

During the winter peak period, December – February, a 6,304 MW 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

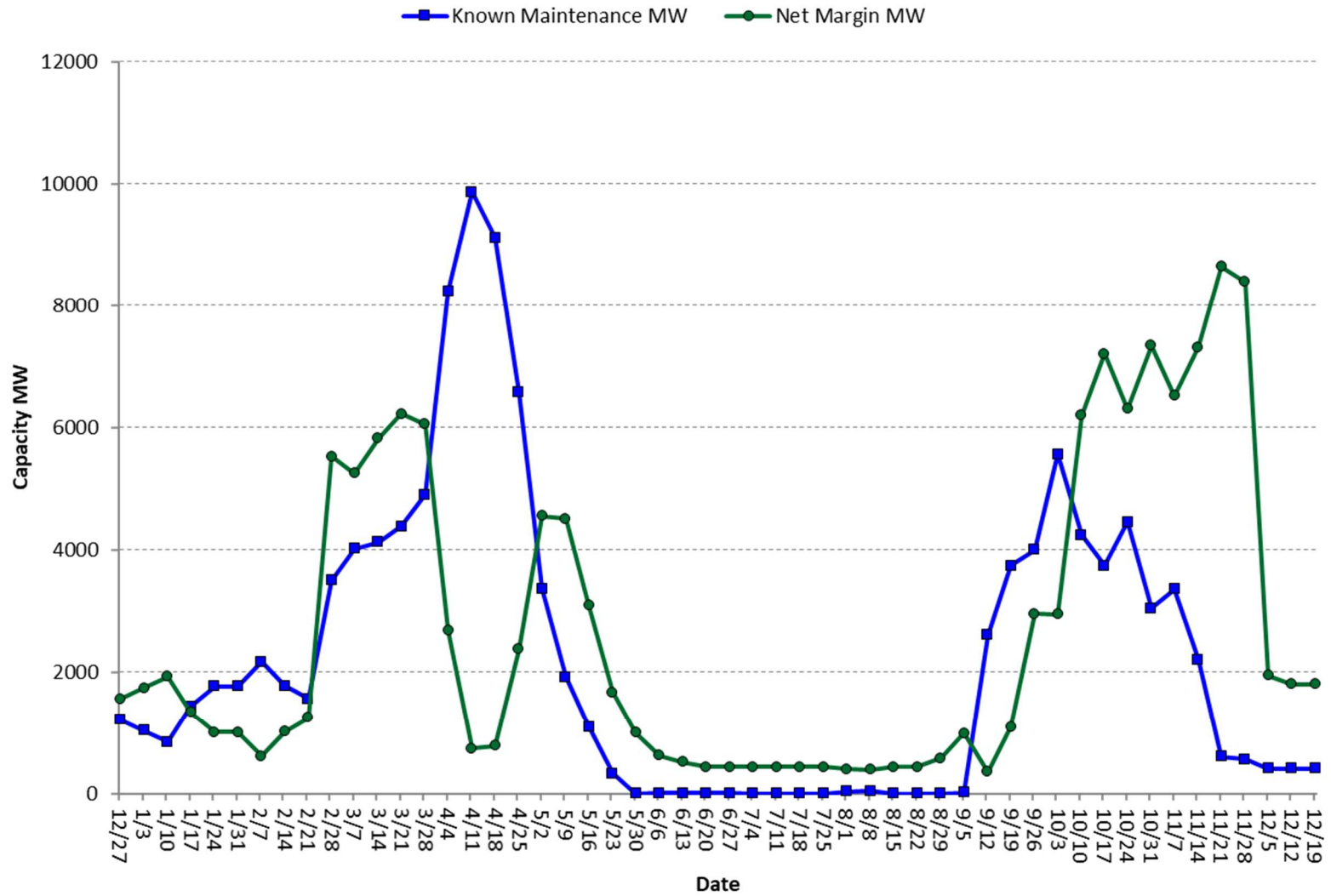
Reserve requirements are based on an amount equal to two times the operating capability loss caused by the most severe contingency observed under normal transfer criteria.

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 393 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
12/27/2020	38,400	23,745	14,655	1,213	3,075	6,188	4,179	2,620	1,559
01/03/2021	38,400	23,745	14,655	1,029	3,075	6,188	4,363	2,620	1,743
01/10/2021	38,400	23,745	14,655	847	3,075	6,188	4,545	2,620	1,925
01/17/2021	38,400	23,745	14,655	1,434	3,075	6,188	3,957	2,620	1,337
01/24/2021	38,400	23,745	14,655	1,769	3,075	6,188	3,622	2,620	1,002
01/31/2021	38,400	23,745	14,655	1,761	3,075	6,188	3,631	2,620	1,011
02/07/2021	38,400	23,737	14,663	2,171	3,075	6,188	3,229	2,620	609
02/14/2021	38,400	23,725	14,675	1,776	3,075	6,188	3,636	2,620	1,016
02/21/2021	38,400	23,709	14,691	1,562	3,075	6,188	3,866	2,620	1,246
02/28/2021	38,400	23,685	14,715	3,496	3,075	0	8,144	2,620	5,524
03/07/2021	38,400	23,447	14,953	4,013	3,075	0	7,865	2,620	5,245
03/14/2021	38,400	22,762	15,638	4,125	3,075	0	8,438	2,620	5,818
03/21/2021	38,400	22,098	16,302	4,383	3,075	0	8,844	2,620	6,224
03/28/2021	38,400	21,747	16,653	4,901	3,075	0	8,677	2,620	6,057
04/04/2021	38,400	21,788	16,612	8,244	3,075	0	5,293	2,620	2,673
04/11/2021	38,400	22,102	16,298	9,869	3,075	0	3,354	2,620	734
04/18/2021	38,400	22,804	15,596	9,114	3,075	0	3,407	2,620	787
04/25/2021	38,400	23,762	14,638	6,574	3,075	0	4,989	2,620	2,369
05/02/2021	39,026	24,850	14,176	3,368	3,637	0	7,172	2,620	4,552
05/09/2021	39,026	26,345	12,681	1,918	3,637	0	7,127	2,620	4,507
05/16/2021	39,026	28,584	10,442	1,099	3,637	0	5,706	2,620	3,086
05/23/2021	39,026	30,778	8,248	328	3,637	0	4,283	2,620	1,663
05/30/2021	39,026	31,775	7,251	0	3,637	0	3,614	2,620	994
06/06/2021	39,026	32,145	6,881	5	3,637	0	3,239	2,620	619
06/13/2021	39,026	32,248	6,778	5	3,637	0	3,136	2,620	516
06/20/2021	39,026	32,333	6,693	5	3,637	0	3,051	2,620	431
06/27/2021	39,026	32,333	6,693	5	3,637	0	3,051	2,620	431
07/04/2021	39,026	32,333	6,693	0	3,637	0	3,056	2,620	436
07/11/2021	39,026	32,333	6,693	0	3,637	0	3,056	2,620	436
07/18/2021	39,026	32,333	6,693	0	3,637	0	3,056	2,620	436
07/25/2021	39,026	32,333	6,693	0	3,637	0	3,056	2,620	436
08/01/2021	39,026	32,333	6,693	34	3,637	0	3,022	2,620	402
08/08/2021	39,026	32,333	6,693	43	3,637	0	3,013	2,620	393
08/15/2021	39,026	32,333	6,693	0	3,637	0	3,056	2,620	436
08/22/2021	39,026	32,333	6,693	0	3,637	0	3,056	2,620	436
08/29/2021	39,026	32,192	6,834	0	3,637	0	3,197	2,620	577
09/05/2021	39,026	31,767	7,259	17	3,637	0	3,605	2,620	985
09/12/2021	39,026	29,810	9,216	2,608	3,637	0	2,972	2,620	352
09/19/2021	39,026	27,940	11,086	3,738	3,637	0	3,711	2,620	1,091
09/26/2021	39,026	25,816	13,210	4,001	3,637	0	5,573	2,620	2,953
10/03/2021	39,026	24,256	14,770	5,565	3,637	0	5,568	2,620	2,948
10/10/2021	39,026	22,342	16,684	4,236	3,637	0	8,811	2,620	6,191
10/17/2021	39,026	21,825	17,201	3,740	3,637	0	9,824	2,620	7,204
10/24/2021	39,026	22,015	17,011	4,454	3,637	0	8,920	2,620	6,300
10/31/2021	39,026	22,388	16,638	3,041	3,637	0	9,960	2,620	7,340
11/07/2021	39,026	22,896	16,130	3,354	3,637	0	9,139	2,620	6,519
11/14/2021	39,026	23,255	15,771	2,204	3,637	0	9,930	2,620	7,310
11/21/2021	39,026	23,522	15,504	603	3,637	0	11,264	2,620	8,644
11/28/2021	39,026	23,810	15,216	563	3,637	0	11,016	2,620	8,396
12/05/2021	39,026	24,056	14,970	412	3,637	6,304	4,617	2,620	1,997
12/12/2021	39,026	24,203	14,823	412	3,637	6,304	4,470	2,620	1,850
12/19/2021	39,026	24,203	14,823	412	3,637	6,304	4,470	2,620	1,850

NYISO Generator Maintenance Coordination Capacity OOS and Operating Margin 2021



Week Beginning	1 Year Ahead Net Margin
12/26/2021	1,850
01/02/2022	1,850
01/09/2022	1,850
01/16/2022	1,850
01/23/2022	1,850
01/30/2022	1,850
02/06/2022	1,932
02/13/2022	2,532
02/20/2022	2,660
02/27/2022	2,333
03/06/2022	6,357
03/13/2022	6,503
03/20/2022	7,169
03/27/2022	8,041
04/03/2022	6,731
04/10/2022	5,883
04/17/2022	4,557
04/24/2022	5,227
05/01/2022	5,494
05/08/2022	5,457
05/15/2022	3,308
05/22/2022	1,158
05/29/2022	495
06/05/2022	355
06/12/2022	232
06/19/2022	223
06/26/2022	223
07/03/2022	223
07/10/2022	223
07/17/2022	223
07/24/2022	223
07/31/2022	223
08/07/2022	223
08/14/2022	223
08/21/2022	223
08/28/2022	277
09/04/2022	503
09/11/2022	919
09/18/2022	1,377
09/25/2022	3,380
10/02/2022	3,748
10/09/2022	4,847
10/16/2022	6,168
10/23/2022	7,063
10/30/2022	7,666
11/06/2022	6,590
11/13/2022	8,636
11/20/2022	8,769
11/27/2022	8,381
12/04/2022	1,730
12/11/2022	1,573
12/18/2022	1,573