

NYISO

Installed Capacity & Load Maintenance Survey

Summer 2020
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 2020 Load Forecast is 32,296 MW and the Peak Winter Load Forecast for 2020 is 23,745 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 2020 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 118.9% of the NYCA peak load forecast for the summer peak load. For the summer of 2020, 38,400 MW is required based on the 32,296 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 4.60% of the total Installed Capacity Contracts 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 3,075 MW based on the 32,296 MW Peak Summer Load Forecast.

Loss of Gas

During the winter peak period, December – February, a 6,188 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

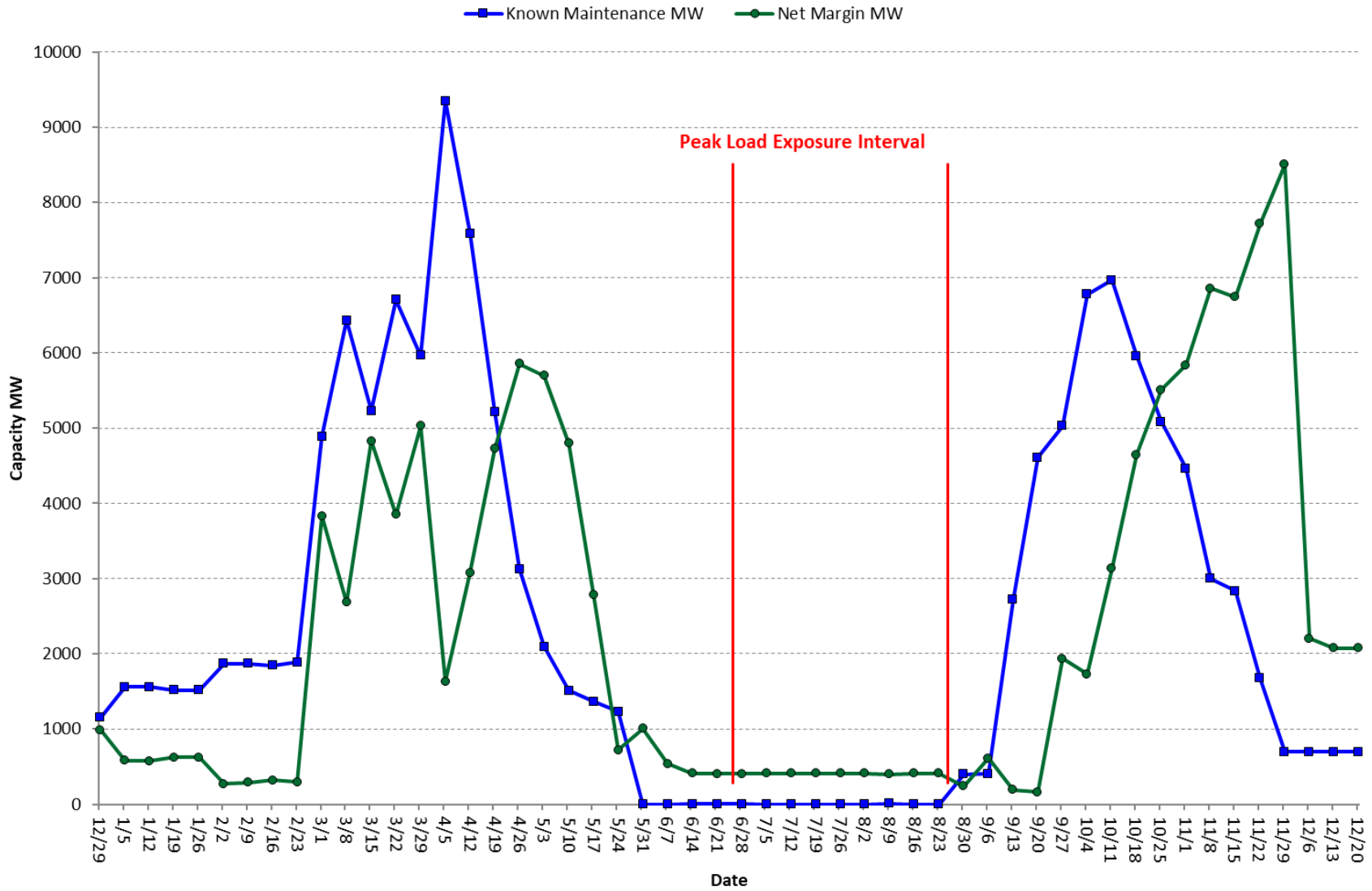
Reserve requirements are based on an amount equal to two times the operating capability loss caused by the most severe contingency observed under normal transfer criteria.

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 400 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
12/29/2019	37,888	24,135	13,753	1,149	2,466	6,531	3,607	2,620	987
01/05/2020	37,888	24,135	13,753	1,558	2,466	6,531	3,198	2,620	578
01/12/2020	37,888	24,135	13,753	1,559	2,466	6,531	3,197	2,620	577
01/19/2020	37,888	24,135	13,753	1,514	2,466	6,531	3,242	2,620	622
01/26/2020	37,888	24,135	13,753	1,514	2,466	6,531	3,242	2,620	622
02/02/2020	37,888	24,135	13,753	1,866	2,466	6,531	2,890	2,620	270
02/09/2020	37,888	24,117	13,771	1,866	2,466	6,531	2,908	2,620	288
02/16/2020	37,888	24,105	13,783	1,845	2,466	6,531	2,941	2,620	321
02/23/2020	37,888	24,089	13,799	1,888	2,466	6,531	2,915	2,620	295
03/01/2020	37,888	24,075	13,813	4,892	2,466	0	6,455	2,620	3,835
03/08/2020	37,888	23,688	14,200	6,432	2,466	0	5,302	2,620	2,682
03/15/2020	37,888	22,748	15,140	5,228	2,466	0	7,447	2,620	4,827
03/22/2020	37,888	22,243	15,645	6,709	2,466	0	6,470	2,620	3,850
03/29/2020	37,888	21,807	16,081	5,965	2,466	0	7,650	2,620	5,030
04/05/2020	37,888	21,815	16,073	9,352	2,466	0	4,254	2,620	1,634
04/12/2020	37,888	22,136	15,752	7,586	2,466	0	5,700	2,620	3,080
04/19/2020	37,888	22,863	15,025	5,215	2,466	0	7,344	2,620	4,724
04/26/2020	37,888	23,818	14,070	3,129	2,466	0	8,476	2,620	5,856
05/03/2020	38,400	24,910	13,490	2,094	3,075	0	8,321	2,620	5,701
05/10/2020	38,400	26,395	12,005	1,513	3,075	0	7,417	2,620	4,797
05/17/2020	38,400	28,552	9,848	1,363	3,075	0	5,409	2,620	2,789
05/24/2020	38,400	30,753	7,647	1,233	3,075	0	3,339	2,620	719
05/31/2020	38,400	31,697	6,703	0	3,075	0	3,628	2,620	1,008
06/07/2020	38,400	32,165	6,235	0	3,075	0	3,160	2,620	540
06/14/2020	38,400	32,287	6,113	6	3,075	0	3,031	2,620	411
06/21/2020	38,400	32,296	6,104	6	3,075	0	3,022	2,620	402
06/28/2020	38,400	32,296	6,104	6	3,075	0	3,022	2,620	402
07/05/2020	38,400	32,296	6,104	0	3,075	0	3,029	2,620	409
07/12/2020	38,400	32,296	6,104	0	3,075	0	3,029	2,620	409
07/19/2020	38,400	32,296	6,104	0	3,075	0	3,029	2,620	409
07/26/2020	38,400	32,296	6,104	0	3,075	0	3,029	2,620	409
08/02/2020	38,400	32,296	6,104	0	3,075	0	3,029	2,620	409
08/09/2020	38,400	32,296	6,104	9	3,075	0	3,020	2,620	400
08/16/2020	38,400	32,296	6,104	0	3,075	0	3,029	2,620	409
08/23/2020	38,400	32,296	6,104	0	3,075	0	3,029	2,620	409
08/30/2020	38,400	32,068	6,332	397	3,075	0	2,859	2,620	239
09/06/2020	38,400	31,689	6,711	407	3,075	0	3,228	2,620	608
09/13/2020	38,400	29,791	8,609	2,722	3,075	0	2,812	2,620	192
09/20/2020	38,400	27,933	10,467	4,611	3,075	0	2,780	2,620	160
09/27/2020	38,400	25,740	12,660	5,028	3,075	0	4,557	2,620	1,937
10/04/2020	38,400	24,196	14,204	6,779	3,075	0	4,350	2,620	1,730
10/11/2020	38,400	22,604	15,796	6,967	3,075	0	5,754	2,620	3,134
10/18/2020	38,400	22,101	16,299	5,958	3,075	0	7,266	2,620	4,646
10/25/2020	38,400	22,113	16,287	5,084	3,075	0	8,128	2,620	5,508
11/01/2020	38,400	22,404	15,996	4,465	3,075	0	8,456	2,620	5,836
11/08/2020	38,400	22,851	15,549	2,997	3,075	0	9,477	2,620	6,857
11/15/2020	38,400	23,128	15,272	2,833	3,075	0	9,364	2,620	6,744
11/22/2020	38,400	23,317	15,083	1,673	3,075	0	10,334	2,620	7,714
11/29/2020	38,400	23,507	14,893	696	3,075	0	11,122	2,620	8,502
12/06/2020	38,400	23,616	14,784	696	3,075	6,188	4,825	2,620	2,205
12/13/2020	38,400	23,745	14,655	696	3,075	6,188	4,696	2,620	2,076
12/20/2020	38,400	23,745	14,655	696	3,075	6,188	4,696	2,620	2,076

NYISO Generator Maintenance Coordination Capacity OOS and Operating Margin 2020



Week Beginning	1 Year Ahead Net Margin
12/27/2020	2,076
01/03/2021	2,076
01/10/2021	2,076
01/17/2021	1,549
01/24/2021	1,184
01/31/2021	1,161
02/07/2021	1,169
02/14/2021	1,181
02/21/2021	1,724
02/28/2021	6,028
03/07/2021	5,874
03/14/2021	6,202
03/21/2021	7,369
03/28/2021	6,767
04/04/2021	4,360
04/11/2021	3,883
04/18/2021	4,396
04/25/2021	5,404
05/02/2021	5,732
05/09/2021	4,823
05/16/2021	2,940
05/23/2021	1,181
05/30/2021	665
06/06/2021	495
06/13/2021	392
06/20/2021	377
06/27/2021	377
07/04/2021	377
07/11/2021	377
07/18/2021	377
07/25/2021	377
08/01/2021	377
08/08/2021	377
08/15/2021	377
08/22/2021	377
08/29/2021	400
09/05/2021	663
09/12/2021	807
09/19/2021	1,925
09/26/2021	4,262
10/03/2021	5,381
10/10/2021	7,660
10/17/2021	7,844
10/24/2021	7,489
10/31/2021	7,934
11/07/2021	7,513
11/14/2021	7,801
11/21/2021	8,667
11/28/2021	8,605
12/05/2021	2,408
12/12/2021	2,396
12/19/2021	2,396