

July 2026 Heatwave

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Operating Committee

July 16, 2026

Agenda

- Key Observations
- Weather and Loads
- Unavailable Capacity
- Transmission Outages
- Interchange Flows with Neighboring Areas
- Demand response
- Real-Time Fuel Mix

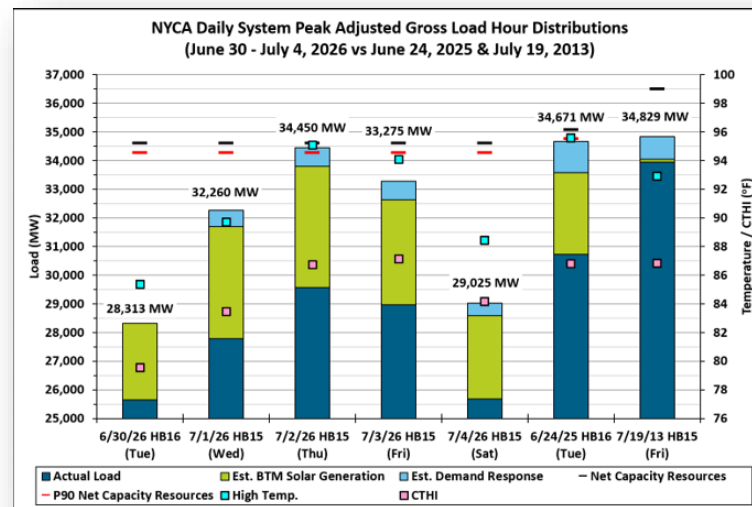
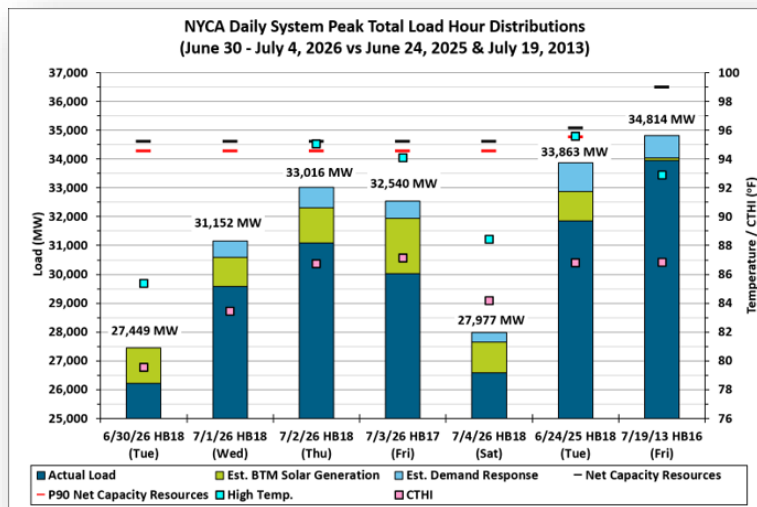
Key Observations

- June 30 – July 4, 2026, were marked by a region-wide heatwave with a composite high temperature of 95.1 °F occurring on July 2 and peak CTHI of 87.1 °F occurring on July 3 which exceeds 90/10 assumptions.
 - Peak load of 31,097 MW occurred on July 2 HB 18.
- The NYISO called on External ICAP suppliers and activated Emergency Demand Response Program (EDRP) resources/Special Case Resources (SCRs) multiple times between July 1-4.
 - Statewide EDRP/SCR activations occurred July 1 – July 3
 - Zones G-K EDRP/SCR activation on July 4
- The NYISO issued an Energy Watch on July 2 due to forecasted reserves dropping below 2,620 MW for longer than 60 minutes.
- Natural Gas Pipeline and Local Gas Distribution Company (LDC) Operational flow Orders were observed during high load periods
- Forced generation and transmission outages exceeded planning assumptions in the downstate region and resulted in challenging operating conditions.
 - A number of these forced outages are still ongoing

Weather and Loads

June 30 – July 4, 2026 Heat Wave Summary

- Summer 2026 Gold Book baseline peak load forecast: 31,578 MW
- CTHI is a temperature/humidity index that correlates more strongly with peak load patterns than temperature.
- The Gold Book peak load is calculated at the following baselines:
 - High Temperature: 92 °F.
 - CTHI: 84.15 °F
- The plots below represent the load disaggregation during the following respective peak hours each day:
 - System Peak Total Load (left): The maximum hourly Load + Losses measured by Operations in real time
 - System Peak Adjusted Gross Load (right): The maximum hourly Load + Losses + Estimated BTM Solar Generation + Estimated Demand Response
- Comparisons with Summer 2025 peak day (June 24, 2025) and the NYISO all-time peak day (July 19, 2013) are included to illustrate both the respective load and temperature levels, and the evolution of how demand is served



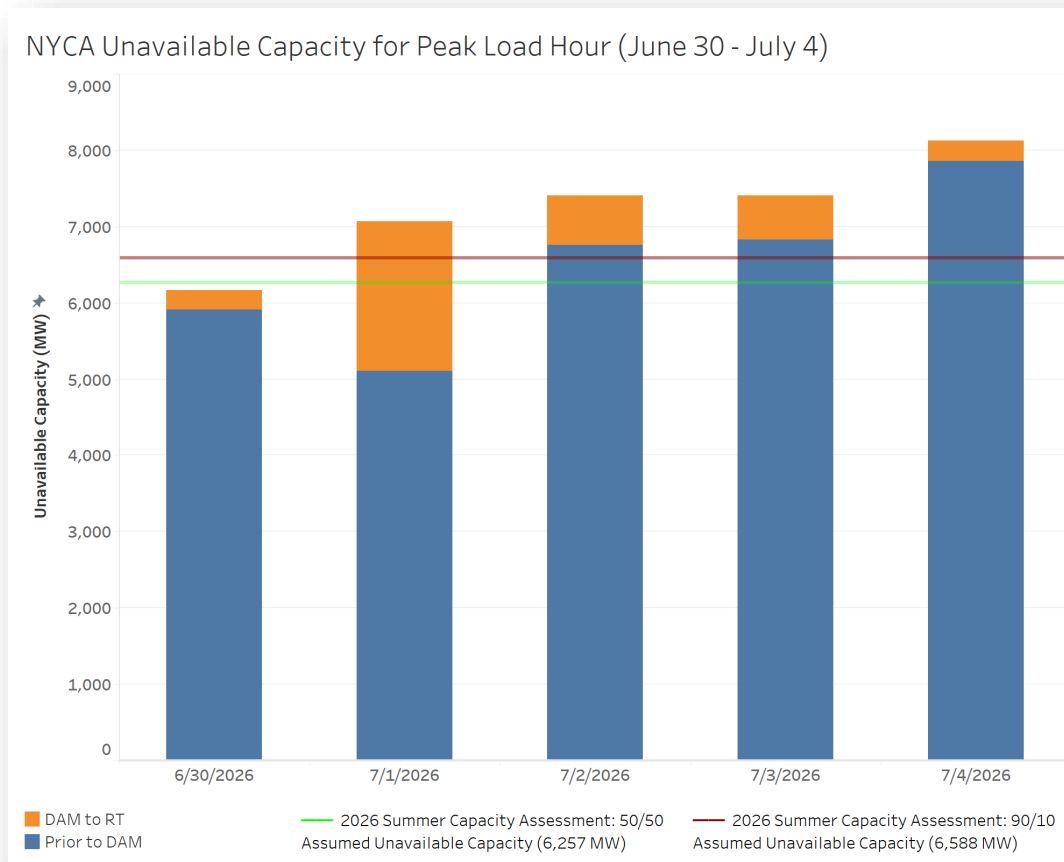
Key Weather and Load Observations

- **The June 30 – July 4, 2026 heat wave occurred during a shortened work week because of Independence Day and represented a shift from a stretch of generally below normal temperatures between June 15th and June 27th**
 - July 1st was the first day with a NYCA Composite high temperature near 90 °F (89.7 °F)
 - July 2nd had the highest NYCA Composite high temperature of the period (95.1 °F)
 - July 3rd (observed holiday) was the hottest day in the NYCA by CTHI (87.1 °F) since July 22, 2011¹
- **BTM Solar generation and Demand Response shifted the System peak total load hour 3 hours later relative to the highest adjusted gross load hour on three days, and two hours later on two days**
 - Assumed BTM Solar generation during Gold Book Baseline Peak Load hour: 941 MW (HB18)
 - System Peak Total Load hour estimated BTM Solar generation: 1,009 MW to 1,231 MW (HB18); 1,904 MW HB17 on 7/3
 - System Peak Adjusted Gross Load hour estimated BTM Solar generation: 2,667 MW (HB16 on 6/30); 2,918 MW to 4,227 MW (HB15)
- **Business closures and other holiday impacts on Friday, July 3rd reduced peak load levels by an estimated 600 MW**
 - It is unclear how much residual holiday impact occurred on Thursday, July 2nd
- **Estimated Demand Response (both NYISO- and TO-initiated) load reductions peaked between 650 MW and 700 MW on July 1st to 3rd (full state) and 435 MW on July 4th (Zones G to K only)**
 - Official Demand Response MW impacts will not be available until the end of the season
 - Demand Response estimates are derived from NYISO and TO enrollment data provided by DRO, and DFA calculations using load forecast validation patterns
 - Demand Response MW impacts are lower than 2025 because of some transitions into the DER program and reduced enrollments
- **The 2025 Summer peak (June 24, 2025) occurred on the second day of a heat wave while schools were still in session**
- **The NYISO all-time total peak load (July 19, 2013) occurred on the fifth consecutive 90+ °F day**

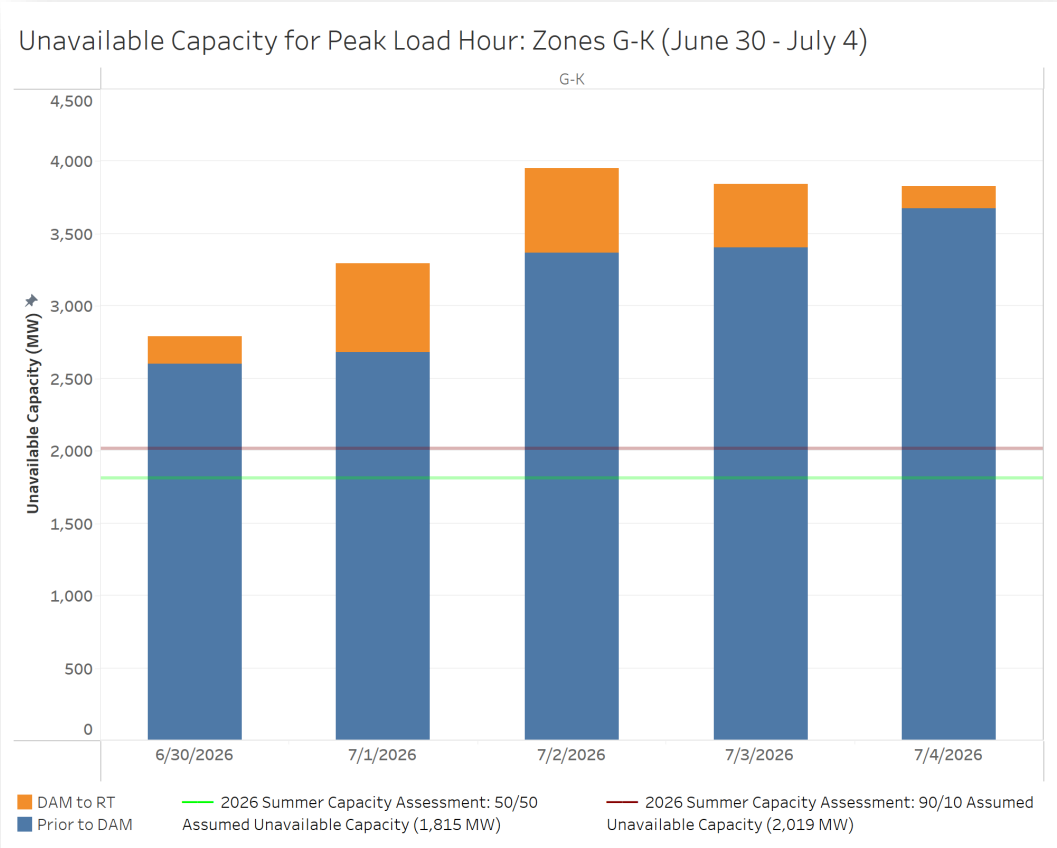
¹ For more on CTHI see slide 3: <https://www.nyiso.com/documents/20142/53818020/02%20NYSRC%20Fall%20Forecast%20Update.pdf/7fcf8cb0-5cd4-73b4-d0d1-807f1e119d86>

Unavailable Capacity

Unavailable Capacity (NYCA)



Unavailable Capacity (G-K)



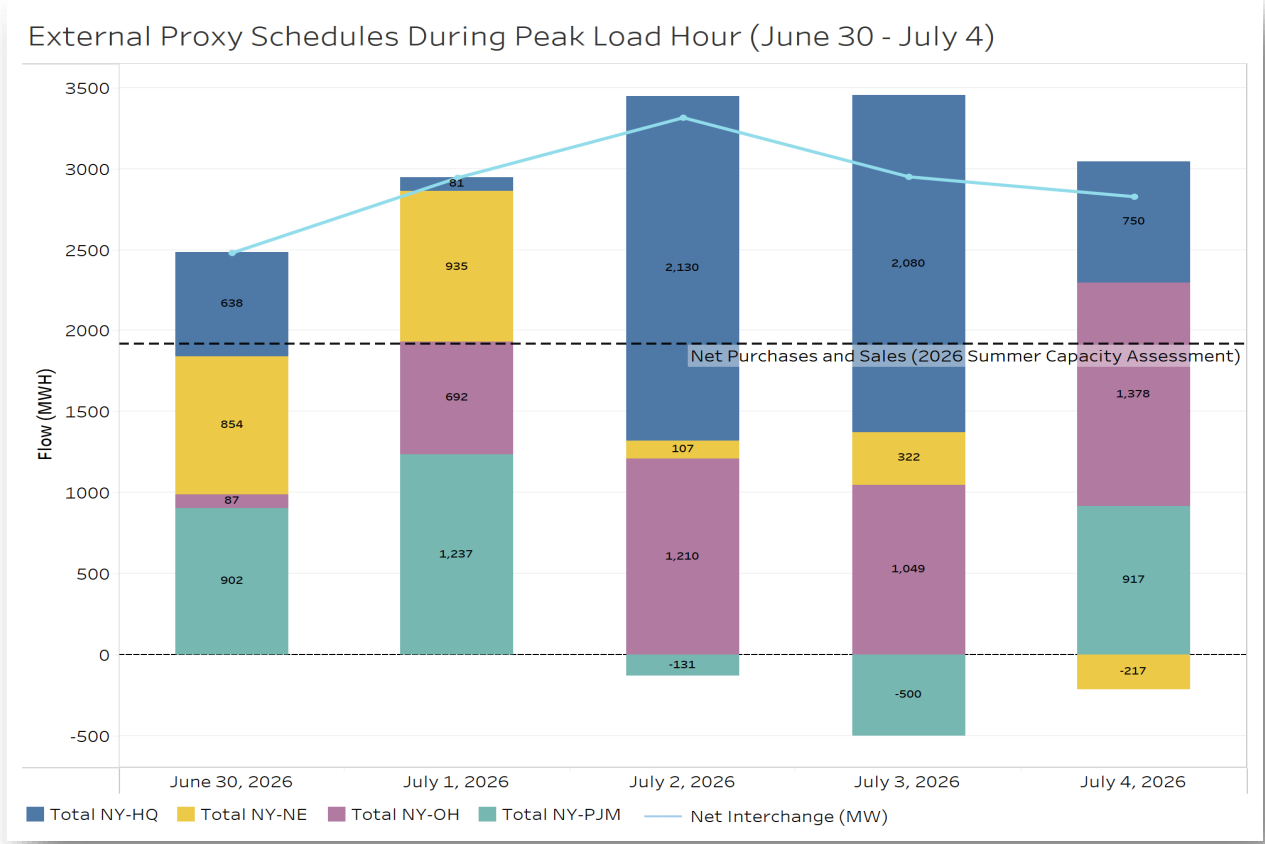
Transmission Outages

Transmission Outages

Line Name	Date Out	Date In
CHPE	7/1/2026 04:50	7/2/2026 12:00
	7/4/2026 08:02	?
Knickerbocker-Pleasant Valley 345 kV Y57	6/30/2026 19:22	7/1/2026 00:00
	7/1/2026 13:18	7/1/2026 17:38
	7/2/2026 00:52	7/2/2026 13:59
Gowanus – Goethals 345 kV 25	6/24/2026 00:01	7/2/2026 03:00

Interchange Flows with Neighboring Areas

Interchange



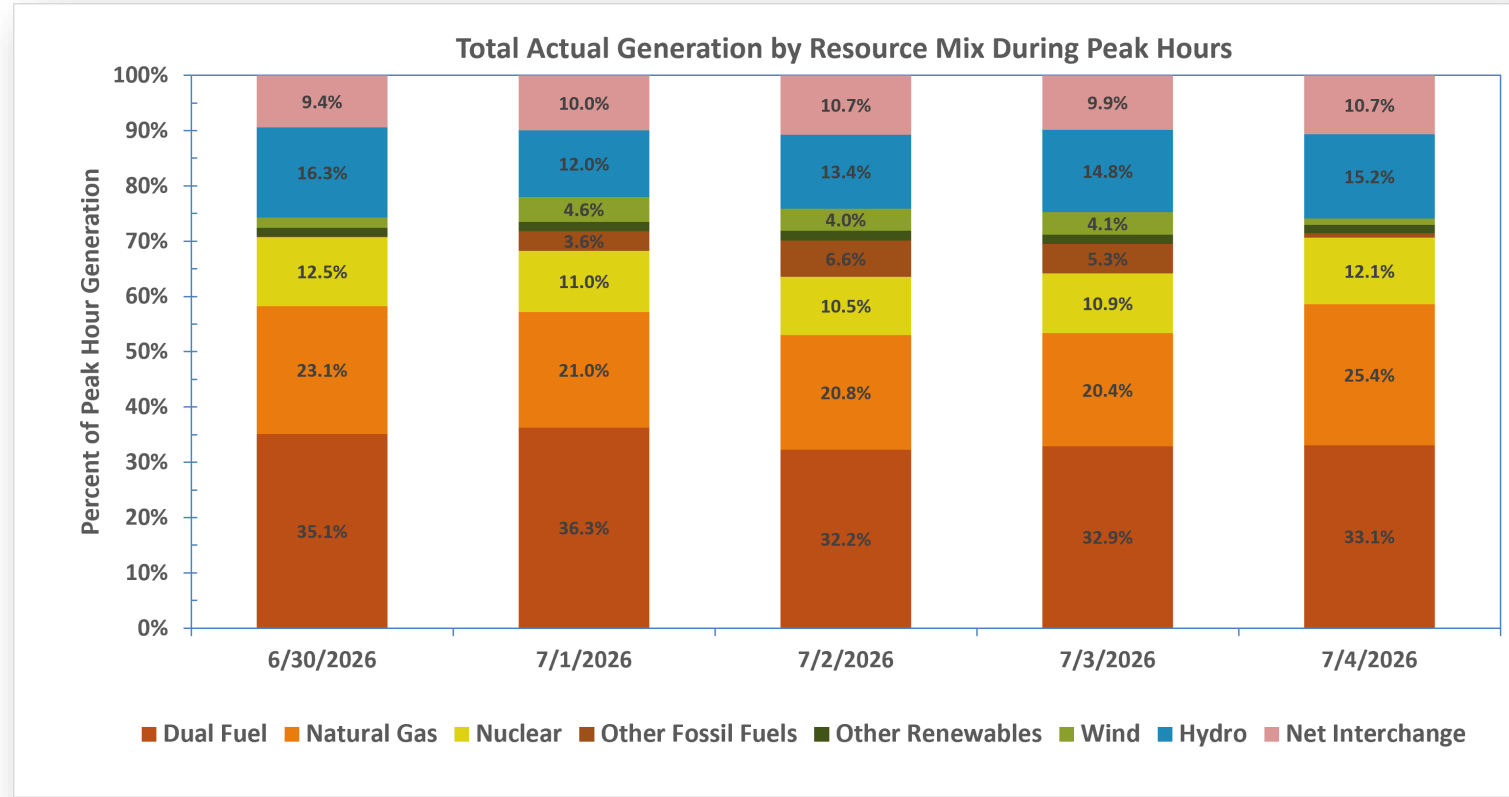
Demand Response

SCR/EDRP Events June 30 – July 4, 2026

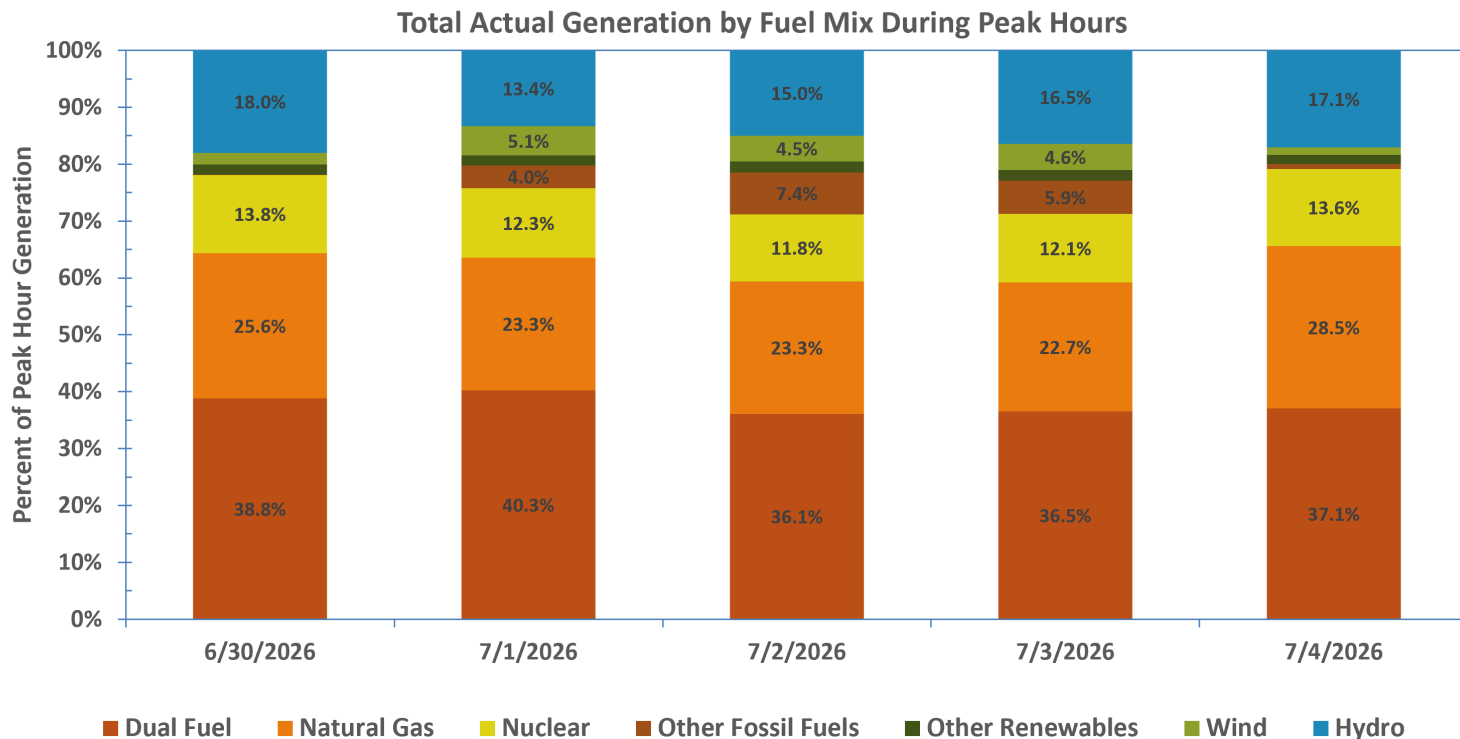
Program	Start Date and Time	End Date and Time	Zones
SCR/EDRP	7/1/2026 16:00	7/1/2026 22:00	A,B,C,D,E,F,G,H,I,J,K
SCR/EDRP	7/2/2026 15:00	7/2/2026 22:00	A,B,C,D,E,F,G,H,I,J,K
SCR/EDRP	7/3/2026 15:00	7/3/2026 22:00	A,B,C,D,E,F,G,H,I,J,K
SCR/EDRP	7/4/2026 15:00	7/4/2026 22:00	G,H,I,J,K

Real-Time Fuel Mix

Generation and Imports at Peak Load (%)



Generation during Peak Demand (%)



Appendix

June 30 – July 4, 2026 Tabular Data

System Peak Total Load Hour

Date	6/30/2026	7/1/2026	7/2/2026	7/3/2026	7/4/2026	6/24/2025	7/19/2013
Hour Beginning	18	18	18	17	18	18	16
System Total Load (MW)	26,218	29,582	31,097	30,032	26,576	31,857	33,956
Est. BTM Solar Generation (MW)	1,231	1,009	1,215	1,904	1,065	947	85
Est. Demand Response (MW)	0	561	704	604	336	995	773
Total Adjusted Gross Load (MW)	27,449	31,152	33,016	32,540	27,977	33,799	34,814
High Temperature (°F)	85.4	89.7	95.1	94.1	88.4	95.6	92.9
CTHI (°F)	79.5	83.4	86.7	87.1	84.2	86.8	86.8

System Peak Adjusted Gross Load Hour

Date	6/30/2026	7/1/2026	7/2/2026	7/3/2026	7/4/2026	6/24/2025	7/19/2013
Hour Beginning	16	15	15	15	15	16	15
System Total Load (MW)	25,646	27,790	29,577	28,970	25,672	30,720	33,955
Est. BTM Solar Generation (MW)	2,667	3,905	4,227	3,652	2,918	2,675	101
Est. Demand Response (MW)	0	566	646	653	435	1,096	773
Total Adjusted Gross Load (MW)	28,313	32,260	34,450	33,275	29,025	34,491	34,829
High Temperature (°F)	85.4	89.7	95.1	94.1	88.4	95.6	92.9
CTHI (°F)	79.5	83.4	86.7	87.1	84.2	86.8	86.8

Summer 2026 Preparation

- **Proactive Fuel Monitoring:** Track regional oil and gas supplies.
- **Conduct surveys and discussions** on past performance, summer preparation, fuel procurement, and switching capabilities.
- **Annual Capability Survey:** Assess oil and dual-fuel readiness and replenishment plans.
- **Site Visits:** Rotate annual generator site inspections to evaluate operational readiness.
- **Outage Coordination:** Seek to align transmission and generation planned maintenance to minimize reliability risks during peak heat.
- **Interagency Collaboration:** Coordinate with NERC, NY agencies (NYDPS, NYSERDA), ISOs/RTOs, DEC, and gas industry stakeholders
- **Operator Training:** Run simulation sessions on emergency procedures, restoration, and load shedding.