

2022 Final ICAP Forecast

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Load Forecasting Task Force

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Agenda

- **Summary of updates since the December 13 LFTF**
- **Large Load Forecast Update**
- **2021 Weather Normalized Peak Load**
- **2022 Final ICAP Forecast**
- **2022 ICAP Forecast Supporting Tables**

Updates since the December 13 LFTF

- Settlements metered load data was reviewed for the NYCA ICAP market coincident peak hour (August 26, 2021, Hour Beginning 4 PM).
- Load values for NYPA loads within the LIPA Transmission District were updated, replacing previously used estimates. The NYPA load within the LIPA TD increased by 9.7 MW. The load for the Transmission District as a whole remains unchanged. There is an offsetting decrease of 9.7 MW in the LIPA LSE load. The total 2021 weather normalized LIPA Transmission District weather normalized peak, and 2022 LIPA coincident and Locality peak forecasts are unchanged.
- Interconnecting large load forecasts have been finalized, discussed on slide 4.
- There are resulting changes to the NYCA ICAP Market forecast, coincident peak forecast, and zonal forecasts. The final 2022 ICAP Market forecasts are presented. There are no changes to the Locality forecasts.

Large Load Forecast Update

- Interconnecting large load projections were discussed and finalized with the pertinent Transmission Owners.
- The summer 2022 forecast for Q850 in NYSEG Zone C remains 0 MW (not included in the final forecast).
- The summer 2022 forecast for Q580 in National Grid Zone A has decreased from 55 MW to 0 MW (removed from the final forecast).
- The summer 2022 forecast for Q849 in Zone A has decreased from 90 MW to 0 MW (removed from the final forecast).

Proportional Loss Reallocation

- For the New York Control Area (NYCA) ICAP Market peak load forecast, bulk power system losses are reallocated among the Transmission Districts proportional to their weather normalized peak loads (less losses). This approach provides that for the NYCA ICAP Market, bulk power system losses are shared equitably among Transmission Owners according to their share of the total statewide peak load.
- For the ICAP Locality peak forecasts (Zone J, Zone K, and Zones G-to-J), there is no reallocation of bulk power system losses. These forecasts include local (i.e., Transmission District) bulk power system losses as found. This approach provides that the Locality peak forecasts accurately estimate the total load expected in the Locality during the Locality peak hour.
- As supporting material, the 2022 NYCA-Coincident peak load forecast by Transmission District is also presented. This forecast represents the expected coincident peak load by Transmission District and Zone during the hour of the NYCA peak, including local bulk power system losses as found (no loss reallocation). This forecast is analogous to that used for planning studies, the IRM study, and other purposes, and is typically the forecast presented in other NYISO materials (for example, the summer coincident peak forecast in the Gold Book).

2021 Weather Normalized Peak Load

| 2021 Load Reconciliation | | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) |
|--|--|--------------------------|--------------|-------------|-----------------|----------------|---------------------------------|---------------|-------------------------|---------------------|-----------------|---------------------|
| 8/26/2021, Hour Beginning 4 PM | | NYISO DSS Actual MW Data | | | | | Transmission District Load Data | | | | | |
| V8 - 12/21/21 | | Actual Load | BPS Losses | Muni Gen | Load + Losses | Percent Losses | Actual Load Less Losses | Actual Losses | Actual Load With Losses | Weather Adjustments | Demand Response | TOs' W/N MW With DR |
| Consolidated Edison | | | | | | | | | | | | |
| Con-Ed LSE Load | | | | | | | 11,429.6 | 158.5 | 11,588.1 | 574.4 | 8.0 | 12,170.5 |
| Transmission District Load Served | | | | | | | 11,429.6 | 158.5 | 11,588.1 | 574.4 | 8.0 | 12,170.5 |
| Deduction for BTM:NG | | | | | | | 0.0 | 0.0 | 0.0 | | | |
| Transmission District Total Load | | 11,404.2 | 158.5 | | 11,562.7 | 1.4% | 11,429.6 | 158.5 | 11,588.1 | | | |
| Central Hudson | | | | | | | | | | | | |
| Central Hudson LSE Load | | | | | | | 1,025.8 | 27.2 | 1,053.0 | 18.9 | 0.0 | 1,071.9 |
| Transmission District Load Served | | | | | | | 1,025.8 | 27.2 | 1,053.0 | 18.9 | 0.0 | 1,071.9 |
| Deduction for BTM:NG | | | | | | | 0.0 | 0.0 | 0.0 | | | |
| Transmission District Total Load | | 1,026.5 | 27.2 | | 1,053.7 | 2.6% | 1,025.8 | 27.2 | 1,053.0 | | | |
| Long Island Power Authority | | | | | | | | | | | | |
| LIPA LSE Load | | | | | | | 4,741.9 | 52.8 | 4,794.7 | 95.5 | 51.0 | 4,941.2 |
| NYPA Load & Greenport Load | | | | | | | 111.6 | 1.2 | 112.8 | 2.2 | 0.0 | 115.0 |
| Freeport & Rockville Centre Load | | | | | | | 109.9 | 1.2 | 111.1 | 2.2 | 0.0 | 113.3 |
| Transmission District Load Served | | | | | | | 4,963.4 | 55.2 | 5,018.6 | 99.9 | 51.0 | 5,169.5 |
| Deduction for BTM:NG | | | | | | | 0.0 | 0.0 | 0.0 | | | |
| Transmission District Total Load | | 4,963.2 | 55.2 | 0.0 | 5,018.4 | 1.1% | 4,963.4 | 55.2 | 5,018.6 | | | |
| National Grid | | | | | | | | | | | | |
| National Grid LSE | | | | | | | 6,050.4 | 283.2 | 6,333.6 | 66.8 | 180.3 | 6,580.7 |
| NYPA Load | | | | | | | 36.5 | 1.7 | 38.2 | 0.4 | 0.0 | 38.6 |
| NYMPA Load | | | | | | | 291.6 | 13.7 | 305.3 | 3.2 | 0.0 | 308.5 |
| Jamestown Load | | | | | | | 65.8 | 3.1 | 68.9 | 0.7 | 0.0 | 69.6 |
| Green Island Load | | | | | | | 5.8 | 0.3 | 6.1 | 0.1 | 0.0 | 6.2 |
| Transmission District Load Served | | | | | | | 6,450.1 | 302.0 | 6,752.1 | 71.2 | 180.3 | 7,003.6 |
| Deduction for BTM:NG | | | | | | | 0.0 | 0.0 | 0.0 | | | |
| Transmission District Total Load | | 6,421.8 | 302.0 | 38.9 | 6,762.7 | 4.5% | 6,450.1 | 302.0 | 6,752.1 | | | |
| Totals | | 29,666.2 | 622.6 | 38.9 | 30,327.7 | 2.1% | 29,718.7 | 622.6 | 30,341.3 | 906.2 | 293.9 | 31,541.4 |

| 2021 Load Reconciliation | | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) |
|--|--|--------------------------|--------------|-------------|-----------------|----------------|---------------------------------|---------------|-------------------------|---------------------|-----------------|---------------------|
| 8/26/2021, Hour Beginning 4 PM | | NYISO DSS Actual MW Data | | | | | Transmission District Load Data | | | | | |
| V8 - 12/21/21 | | Actual Load | BPS Losses | Muni Gen | Load + Losses | Percent Losses | Actual Load Less Losses | Actual Losses | Actual Load With Losses | Weather Adjustments | Demand Response | TO's W/N MW With DR |
| New York Power Authority | | | | | | | | | | | | |
| NYPA LSE Load | | | | | | | 296.9 | 3.7 | 300.6 | -0.1 | 0.0 | 300.5 |
| NYMPA Load | | | | | | | 56.0 | 0.7 | 56.7 | -1.6 | 0.0 | 55.1 |
| Transmission District Load Served | | | | | | | | | | | | |
| Deduction for BTM:NG | | | | | | | 0.0 | 0.0 | 0.0 | -1.7 | 0.0 | 355.6 |
| Transmission District Total Load | | 353.3 | 4.4 | | 357.7 | 1.2% | 352.9 | 4.4 | 357.3 | | | |
| New York State Electric & Gas | | | | | | | | | | | | |
| NYSEGLSE Load | | | | | | | 2,820.5 | 50.2 | 2,870.7 | 39.5 | 49.3 | 2,959.5 |
| NYPA Load | | | | | | | 46.0 | 0.8 | 46.8 | 0.6 | 0.0 | 47.4 |
| NYMPA Load | | | | | | | 68.7 | 1.2 | 69.9 | 1.0 | 0.0 | 70.9 |
| Transmission District Load Served | | | | | | | | | | | | |
| Deduction for BTM:NG | | | | | | | 0.0 | 0.0 | 0.0 | | | |
| Transmission District Total Load | | 2,935.5 | 52.2 | | 2,987.7 | 1.7% | 2,935.2 | 52.2 | 2,987.4 | 41.1 | 49.3 | 3,077.8 |
| Orange & Rockland Utilities | | | | | | | | | | | | |
| O&R LSE Load | | | | | | | 1,032.1 | 6.1 | 1,038.2 | 84.2 | 0.0 | 1,122.4 |
| Transmission District Load Served | | | | | | | | | | | | |
| Deduction for BTM:NG | | | | | | | 0.0 | 0.0 | 0.0 | | | |
| Transmission District Total Load | | 1,032.1 | 6.1 | | 1,038.2 | 0.6% | 1,032.1 | 6.1 | 1,038.2 | 84.2 | 0.0 | 1,122.4 |
| Rochester Gas & Electric | | | | | | | | | | | | |
| RG&E LSE Load | | | | | | | 1,518.1 | 16.9 | 1,535.0 | 18.1 | 5.3 | 1,558.4 |
| NYMPA Load | | | | | | | 11.5 | 0.1 | 11.6 | 0.1 | 0.0 | 11.7 |
| Transmission District Load Served | | | | | | | | | | | | |
| Deduction for BTM:NG | | | | | | | 0.0 | 0.0 | 0.0 | 18.2 | 5.3 | 1,570.1 |
| Transmission District Total Load | | 1,529.6 | 17.0 | | 1,546.6 | 1.1% | 1,529.6 | 17.0 | 1,546.6 | | | |
| Totals | | 29,666.2 | 622.6 | 38.9 | 30,327.7 | 2.1% | 29,718.7 | 622.6 | 30,341.3 | 906.2 | 293.9 | 31,541.4 |

| 2021 Load Reconciliation | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) | (19) | (20) |
|------------------------------------|---|------------------------|------------------------|------------------|------------------------------|---|---------------------------------|--------------------------------------|-----------------------------|--|
| | 8/26/2021, Hour Beginning 4 PM V8 - 12/21/21 | TOs' W/N MW With DR | Reallocation of Losses | | | Proportional Allocation of Losses | Adj. W/N Load Less Losses | 2021 Adjusted Actual Load (MW) | 2021 BTM:NG (1 + WNF) | 2021 Adj Load Prior to Loss Adjustment |
| | | | W/N Losses | Station Power | Adj. W/N Load Less Losses | | | | | |
| Consolidated Edison | | | | | | | | | | |
| Con-Ed LSE Load | 12,170.5 | 166.5 | | 12,004.0 | 38.87% | 251.2 | 12,004.0 | 12,255.2 | | |
| Transmission District Load Served | 12,170.5 | 166.5 | | 12,004.0 | 38.87% | 251.2 | 12,004.0 | 12,255.2 | 1.0209 | 12,170.5 |
| Deduction for BTM:NG | | | | | | | | | | |
| Transmission District Total Load | | | | | | | | | | |
| Central Hudson | | | | | | | | | | |
| Central Hudson LSE Load | 1,071.9 | 27.7 | | 1,044.2 | 3.38% | 21.8 | 1,044.2 | 1,066.0 | | |
| Transmission District Load Served | 1,071.9 | 27.7 | | 1,044.2 | 3.38% | 21.8 | 1,044.2 | 1,066.0 | 1.0209 | 1,071.9 |
| Deduction for BTM:NG | | | | | | | | | | |
| Transmission District Total Load | | | | | | | | | | |
| Long Island Power Authority | | | | | | | | | | |
| LIPA LSE Load | 4,941.2 | 54.3 | | 4,886.9 | 15.82% | 102.3 | 4,886.9 | 4,989.2 | | |
| NYPA Load & Greenport Load | 115.0 | 1.3 | | 113.7 | 0.37% | 2.4 | 113.7 | 116.1 | | |
| Freeport & Rockville Centre Load | 113.3 | 1.3 | | 112.0 | 0.36% | 2.3 | 112.0 | 114.3 | | |
| Transmission District Load Served | 5,169.5 | 56.9 | | 5,112.6 | 16.56% | 107.0 | 5,112.6 | 5,219.6 | 1.0360 | 5,169.5 |
| Deduction for BTM:NG | | | | | | | | | | |
| Transmission District Total Load | | | | | | | | | | |
| National Grid | | | | | | | | | | |
| National Grid LSE | 6,580.7 | 293.7 | 13.0 | 6,274.0 | 20.32% | 131.3 | 6,274.0 | 6,405.3 | | |
| NYPA Load | 38.6 | 1.8 | | 36.8 | 0.12% | 0.8 | 36.8 | 37.6 | | |
| NYMPA Load | 308.5 | 14.2 | | 294.3 | 0.95% | 6.1 | 294.3 | 300.4 | | |
| Jamestown Load | 69.6 | 3.2 | | 66.4 | 0.22% | 1.4 | 66.4 | 67.8 | | |
| Green Island Load | 6.2 | 0.3 | | 5.9 | 0.02% | 0.1 | 5.9 | 6.0 | | |
| Transmission District Load Served | 7,003.6 | 313.2 | 13.0 | 6,677.4 | 21.62% | 139.7 | 6,677.4 | 6,817.1 | 1.0209 | 6,990.6 |
| Deduction for BTM:NG | | | | | | | | | | |
| Transmission District Total Load | | | | | | | | | | |
| Totals | 31,541.4 | 646.4 | 13.0 | 30,882.0 | 100.00% | 646.4 | 30,882.0 | 31,528.4 | 1.0209 | 31,528.4 |

| 2021 Load Reconciliation | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) | (19) | (20) |
|--|---|------------------------|---------------|------------------|------------------------------|----------------------------|-------------------------|---------------------|------------------------------|---------------------|
| | 8/26/2021, Hour Beginning 4 PM V8 - 12/21/21 | Reallocation of Losses | | | | Proportional | Adj. W/N | 2021 | 2021 | 2021 Adj Load |
| | | TOs' W/N MW With DR | W/N Losses | Station Power | Adj. W/N Load Less Losses | Percent Loss Allocation | Allocation of Losses | Load Less Losses | Adjusted Actual Load (MW) | BTM:NG (1 + WNF) |
| New York Power Authority | | | | | | | | | | |
| NYPA LSE Load | 300.5 | 3.7 | | 296.8 | 0.96% | 6.2 | 296.8 | 303.0 | | |
| NYMPA Load | 55.1 | 0.7 | | 54.4 | 0.18% | 1.2 | 54.4 | 55.6 | | |
| Transmission District Load Served | 355.6 | 4.4 | | 351.2 | 1.14% | 7.4 | 351.2 | 358.6 | 1.0209 | 355.6 |
| Deduction for BTM:NG | | | | | | | | | | |
| Transmission District Total Load | | | | | | | | | | |
| New York State Electric & Gas | | | | | | | | | | |
| NYSEG LSE Load | 2,959.5 | 51.7 | | 2,907.8 | 9.42% | 60.9 | 2,907.8 | 2,968.7 | | |
| NYPA Load | 47.4 | 0.8 | | 46.6 | 0.15% | 1.0 | 46.6 | 47.6 | | |
| NYMPA Load | 70.9 | 1.3 | | 69.6 | 0.23% | 1.5 | 69.6 | 71.1 | | |
| Transmission District Load Served | 3,077.8 | 53.8 | | 3,024.0 | 9.79% | 63.4 | 3,024.0 | 3,087.4 | 1.0363 | 3,077.8 |
| Deduction for BTM:NG | | | | | | | | | | |
| Transmission District Total Load | | | | | | | | | | |
| Orange & Rockland Utilities | | | | | | | | | | |
| O&R LSE Load | 1,122.4 | 6.6 | | 1,115.8 | 3.61% | 23.3 | 1,115.8 | 1,139.1 | | |
| Transmission District Load Served | 1,122.4 | 6.6 | | 1,115.8 | 3.61% | 23.3 | 1,115.8 | 1,139.1 | 1.0209 | 1,122.4 |
| Deduction for BTM:NG | | | | | | | | | | |
| Transmission District Total Load | | | | | | | | | | |
| Rochester Gas & Electric | | | | | | | | | | |
| RG&E LSE Load | 1,558.4 | 17.2 | | 1,541.2 | 4.99% | 32.3 | 1,541.2 | 1,573.5 | | |
| NYMPA Load | 11.7 | 0.1 | | 11.6 | 0.04% | 0.3 | 11.6 | 11.9 | | |
| Transmission District Load Served | 1,570.1 | 17.3 | | 1,552.8 | 5.03% | 32.6 | 1,552.8 | 1,585.4 | 1.0287 | 1,570.1 |
| Deduction for BTM:NG | | | | | | | | | | |
| Transmission District Total Load | | | | | | | | | | |
| Totals | 31,541.4 | 646.4 | 13.0 | 30,882.0 | 100.00% | 646.4 | 30,882.0 | 31,528.4 | 1.0209 | 31,528.4 |

2022 Final ICAP Forecast

2022 New York Control Area ICAP Market Peak Load Forecast (MW)

| 12/21/2021 V8 - Final | Transmission Districts | 2021 Weather Normalized MW Load + Losses MW * | (1 + Regional Load Growth Factor) | 2022 Load At Time of NYCA Peak * | 2022 Large Load Adjustments | 2022 ICAP Market Forecast * | 2022 Locality Forecasts ^ | | |
|--|------------------------|---|---|--|-----------------------------------|-----------------------------------|---------------------------|----------------|-----------------|
| | | | | | | | J Locality | K Locality | G-J Locality |
| Consolidated Edison | | 12,255.2 | 1.01900 | 12,488.0 | 0.0 | 12,488.0 | 10,906.0 | | 12,534.4 |
| Central Hudson | | 1,066.0 | 1.00500 | 1,071.3 | 0.0 | 1,071.3 | | | 1,085.5 |
| Long Island Power Authority | | 4,989.2 | 0.97806 | 4,879.7 | 0.0 | 4,879.7 | | | |
| NYPA & Greenport | | 116.1 | 0.97806 | 113.6 | 0.0 | 113.6 | | | |
| Freeport & Rockville Centre | | 114.3 | 0.97806 | 111.8 | 0.0 | 111.8 | | | |
| LIPA Total | | 5,219.6 | 0.97806 | 5,105.1 | 0.0 | 5,105.1 | | 5,137.5 | |
| National Grid | | 6,405.3 | 1.00000 | 6,405.3 | 0.0 | 6,405.3 | | | |
| NYPA | | 37.6 | 1.00000 | 37.6 | 0.0 | 37.6 | | | |
| NYMPA | | 300.4 | 1.00000 | 300.4 | 0.0 | 300.4 | | | |
| Jamestown | | 67.8 | 1.00000 | 67.8 | 0.0 | 67.8 | | | |
| Green Island Power Authority | | 6.0 | 1.00000 | 6.0 | 0.0 | 6.0 | | | |
| National Grid Total | | 6,817.1 | 1.00000 | 6,817.1 | 0.0 | 6,817.1 | | | |
| New York Power Authority | | 303.0 | 1.32360 | 401.1 | 0.0 | 401.1 | | | |
| NYMPA | | 55.6 | 1.12690 | 62.7 | 0.0 | 62.7 | | | |
| NYPA Total | | 358.6 | 1.29340 | 463.8 | 0.0 | 463.8 | | | |
| New York State Electric & Gas | | 2,968.7 | 1.00810 | 2,992.7 | 0.0 | 2,992.7 | | | |
| NYPA | | 47.6 | 1.00810 | 48.0 | 0.0 | 48.0 | | | |
| NYMPA | | 71.1 | 1.00810 | 71.7 | 0.0 | 71.7 | | | |
| NYSEG Total | | 3,087.4 | 1.00810 | 3,112.4 | 0.0 | 3,112.4 | | | 382.2 |
| Orange & Rockland Utilities | | 1,139.1 | 0.99000 | 1,127.7 | 0.0 | 1,127.7 | | | 1,123.1 |
| Rochester Gas & Electric | | 1,573.5 | 0.99740 | 1,569.4 | 0.0 | 1,569.4 | | | |
| NYMPA | | 11.9 | 0.99740 | 11.9 | 0.0 | 11.9 | | | |
| RG&ETotal | | 1,585.4 | 0.99740 | 1,581.3 | 0.0 | 1,581.3 | | | |
| Total Load in NYCA or Locality | | 31,528.4 | 1.00756 | 31,766.7 | 0.0 | 31,766.7 | 10,906.0 | 5,137.5 | 15,125.2 |

Notes

* Including Reallocated Bulk Power System Losses

^ No Loss Reallocation

BTM:NG Resources are not included in these forecasts

(1) 2021 Actual Coincident Peak in G to J Locality

8/26/2021, HB 16

| Transmission District | G | H | I | J | G-to-J Total |
|-----------------------|----------------|--------------|----------------|-----------------|-----------------|
| Con Edison | | 248.6 | 1,282.7 | 10,031.4 | 11,562.7 |
| Cen Hudson | 1,047.7 | | | | 1,047.7 |
| LIPA | | | | | |
| Nat. Grid | | | | | |
| NYPA | | | | | |
| NYSEG | 18.1 | 341.6 | | | 359.7 |
| O&R | 1,038.2 | | | | 1,038.2 |
| RG&E | | | | | |
| Total | 2,104.0 | 590.2 | 1,282.7 | 10,031.4 | 14,008.3 |

(2) 2021 Weather-Adjusted Coincident Peak in G to J Locality

| Transmission District | G | H | I | J | G-to-J Total |
|-----------------------|----------------|--------------|----------------|-----------------|-----------------|
| Con Edison | | 264.6 | 1,346.8 | 10,559.1 | 12,170.5 |
| Cen Hudson | 1,068.7 | | | | 1,068.7 |
| LIPA | | | | | |
| Nat. Grid | | | | | |
| NYPA | | | | | |
| NYSEG | 21.5 | 353.6 | | | 375.1 |
| O&R | 1,122.4 | | | | 1,122.4 |
| RG&E | | | | | |
| Total | 2,212.6 | 618.2 | 1,346.8 | 10,559.1 | 14,736.7 |

(3) 2021 Weather-Adjusted Locality Peak for G-to-J

| Transmission District | G | H | I | J | G-to-J Total |
|-----------------------|----------------|---------------|----------------|-----------------|-----------------|
| Con Edison | | 267.4 | 1,361.2 | 10,672.1 | 12,300.7 |
| Cen Hudson | 1,080.1 | | | | 1,080.1 |
| LIPA | | | | | |
| Nat. Grid | | | | | |
| NYPA | | | | | |
| NYSEG | 21.7 | 357.4 | | | 379.1 |
| O&R | 1,134.4 | | | | 1,134.4 |
| RG&E | | | | | |
| Total | 2,236.2 | 624.8 | 1,361.2 | 10,672.1 | 14,894.3 |
| NCP/CP ratio | 1.0107 | 1.0107 | 1.0107 | 1.0107 | |

(4) 2022 Peak Forecast for G-to-J Locality

Prior to BTM:NG Resources

| Transmission District | G | H | I | J | G-to-J Total | RLGF |
|-----------------------|----------------|--------------|----------------|-----------------|-----------------|---------------|
| Con Edison | | 272.5 | 1,387.1 | 10,874.8 | 12,534.4 | 1.0190 |
| Cen Hudson | 1,085.5 | | | | 1,085.5 | 1.0050 |
| LIPA | | | | | | |
| Nat. Grid | | | | | | |
| NYPA | | | | | | |
| NYSEG | 21.9 | 360.3 | | | 382.2 | 1.0081 |
| O&R | 1,123.1 | | | | 1,123.1 | 0.9900 |
| RG&E | | | | | | |
| Total | 2,230.5 | 632.8 | 1,387.1 | 10,874.8 | 15,125.2 | 1.0155 |

No Loss Reallocation

Zone J and K Locality Peaks, Prior to BTM:NG Resources

| Locality | 2021 Weather Adjusted Coincident Peak | Locality NCP to CP Ratio | 2021 Locality Weather Adjusted Peak | Regional Load Growth Factor | 2022 Locality Forecast |
|------------------------|---------------------------------------|--------------------------|-------------------------------------|-----------------------------|------------------------|
| Zone J Locality | 10,559.1 | 1.0136 | 10,702.7 | 1.0190 | 10,906.0 |
| Zone K Locality | 5,169.5 | 1.0161 | 5,252.5 | 0.9781 | 5,137.5 |

No Loss Reallocation

2022 ICAP Forecast Reference Tables

| 2022 New York Control Area Coincident Peak Load Forecast (MW) | | | | | | |
|---|------------------------|---|---|--|-----------------------------------|--|
| Reference Forecast Without Proportional Loss Reallocation | | | | | | |
| 12/21/2021 V8 - Final | Transmission Districts | 2021 Weather Normalized MW Load + Losses MW ^ | (1 + Regional Load Growth Factor) | 2022 Load At Time of NYCA Peak ^ | 2022 Large Load Adjustments | 2022 NYCA Coincident Peak Forecast ^ |
| Consolidated Edison | | 12,170.5 | 1.01900 | 12,401.7 | 0.0 | 12,401.7 |
| Central Hudson | | 1,071.9 | 1.00500 | 1,077.3 | 0.0 | 1,077.3 |
| Long Island Power Authority | | 4,941.2 | 0.97806 | 4,832.8 | 0.0 | 4,832.8 |
| NYPA & Greenport | | 115.0 | 0.97806 | 112.5 | 0.0 | 112.5 |
| Freeport & Rockville Centre | | 113.3 | 0.97806 | 110.8 | 0.0 | 110.8 |
| LIPA Total | | 5,169.5 | 0.97806 | 5,056.1 | 0.0 | 5,056.1 |
| National Grid | | 6,567.7 | 1.00000 | 6,567.7 | 0.0 | 6,567.7 |
| NYPA | | 38.6 | 1.00000 | 38.6 | 0.0 | 38.6 |
| NYMPA | | 308.5 | 1.00000 | 308.5 | 0.0 | 308.5 |
| Jamestown | | 69.6 | 1.00000 | 69.6 | 0.0 | 69.6 |
| Green Island Power Authority | | 6.2 | 1.00000 | 6.2 | 0.0 | 6.2 |
| National Grid Total | | 6,990.6 | 1.00000 | 6,990.6 | 0.0 | 6,990.6 |
| New York Power Authority | | 300.5 | 1.32360 | 397.7 | 0.0 | 397.7 |
| NYMPA | | 55.1 | 1.12690 | 62.1 | 0.0 | 62.1 |
| NYPA Total | | 355.6 | 1.29340 | 459.8 | 0.0 | 459.8 |
| New York State Electric & Gas | | 2,959.5 | 1.00810 | 2,983.5 | 0.0 | 2,983.5 |
| NYPA | | 47.4 | 1.00810 | 47.8 | 0.0 | 47.8 |
| NYMPA | | 70.9 | 1.00810 | 71.5 | 0.0 | 71.5 |
| NYSEG Total | | 3,077.8 | 1.00810 | 3,102.8 | 0.0 | 3,102.8 |
| Orange & Rockland Utilities | | 1,122.4 | 0.99000 | 1,111.2 | 0.0 | 1,111.2 |
| Rochester Gas & Electric | | 1,558.4 | 0.99740 | 1,554.3 | 0.0 | 1,554.3 |
| NYMPA | | 11.7 | 0.99740 | 11.7 | 0.0 | 11.7 |
| RG&E Total | | 1,570.1 | 0.99740 | 1,566.0 | 0.0 | 1,566.0 |
| NYCA Coincident Peak Load | | 31,528.4 | 1.00752 | 31,765.5 | 0.0 | 31,765.5 |

Notes

^ No Loss Reallocation

BTM:NG Resources are not included in these forecasts

The NYCA Coincident Peak forecast differs from the NYCA ICAP Market forecast due to the application of Transmission District RLGf's prior to proportional reallocation of bulk power system losses.

Zonal Peak Load Shares by TD

| | A | B | C | D | E | F | G | H | I | J | K | Total |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Con Edison | | | | | | | | 0.0217 | 0.1107 | 0.8676 | | 1.0000 |
| Cen Hudson | | | | | 0.0030 | | 0.9970 | | | | | 1.0000 |
| LIPA | | | | | | | | | | | 1.0000 | 1.0000 |
| Nat. Grid | 0.2832 | 0.0599 | 0.1900 | 0.0123 | 0.1308 | 0.3238 | | | | | | 1.0000 |
| NYPA | | | | 1.0000 | | | | | | | | 1.0000 |
| NYSEG | 0.2186 | | 0.4411 | 0.0312 | 0.1326 | 0.0546 | 0.0070 | 0.1149 | | | | 1.0000 |
| O&R | | | | | | | 1.0000 | | | | | 1.0000 |
| RG&E | | 1.0000 | | | | | | | | | | 1.0000 |

2021 Weather-Normalized Coincident Peak Loads by Transmission District and Zone, Prior to Proportional Allocation of Losses

| | A | B | C | D | E | F | G | H | I | J | K | Total |
|--------------|----------------|----------------|----------------|--------------|----------------|----------------|----------------|--------------|----------------|-----------------|----------------|-----------------|
| Con Edison | | | | | | | | 264.6 | 1,346.8 | 10,559.1 | | 12,170.5 |
| Cen Hudson | | | | | 3.2 | | 1,068.7 | | | | | 1,071.9 |
| LIPA | | | | | | | | | | | 5,169.5 | 5,169.5 |
| Nat. Grid | 1,983.4 | 419.5 | 1,330.7 | 86.1 | 916.1 | 2,254.8 | | | | | | 6,990.6 |
| NYPA | | | | 355.6 | | | | | | | | 355.6 |
| NYSEG | 672.8 | | 1,357.8 | 96.0 | 408.1 | 168.0 | 21.5 | 353.6 | | | | 3,077.8 |
| O&R | | | | | | | 1,122.4 | | | | | 1,122.4 |
| RG&E | | 1,570.1 | | | | | | | | | | 1,570.1 |
| Total | 2,656.2 | 1,989.6 | 2,688.5 | 537.7 | 1,327.4 | 2,422.8 | 2,212.6 | 618.2 | 1,346.8 | 10,559.1 | 5,169.5 | 31,528.4 |

Includes station power deduction (National Grid Zone F).

2022 Large Load Forecast

| | A | B | C | D | E | F | G | H | I | J | K | Total |
|--------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Con Edison | | | | | | | | 0.0 | 0.0 | 0.0 | | 0.0 |
| Cen Hudson | | | | | 0.0 | | 0.0 | | | | | 0.0 |
| LIPA | | | | | | | | | | | 0.0 | 0.0 |
| Nat. Grid | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | 0.0 |
| NYPA | | | | 0.0 | | | | | | | | 0.0 |
| NYSEG | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | 0.0 |
| O&R | | | | | | | 0.0 | | | | | 0.0 |
| RG&E | | 0.0 | | | | | | | | | | 0.0 |
| Total | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

2022 Coincident Peak Forecast, Prior to BTM:NG Resources

| | A | B | C | D | E | F | G | H | I | J | K | Total | RLGF |
|--------------|----------------|----------------|----------------|--------------|----------------|----------------|----------------|--------------|----------------|-----------------|----------------|-----------------|---------------|
| Con Edison | | | | | | | | 269.6 | 1,372.4 | 10,759.7 | | 12,401.7 | 1.0190 |
| Cen Hudson | | | | | 3.2 | | 1,074.1 | | | | | 1,077.3 | 1.0050 |
| LIPA | | | | | | | | | | | 5,056.1 | 5,056.1 | 0.9781 |
| Nat. Grid | 1,983.4 | 419.5 | 1,330.7 | 86.1 | 916.1 | 2,254.8 | | | | | | 6,990.6 | 1.0000 |
| NYPA | | | | 459.8 | | | | | | | | 459.8 | 1.2931 |
| NYSEG | 678.2 | | 1,368.8 | 96.8 | 411.4 | 169.4 | 21.7 | 356.5 | | | | 3,102.8 | 1.0081 |
| O&R | | | | | | | 1,111.2 | | | | | 1,111.2 | 0.9900 |
| RG&E | | 1,566.0 | | | | | | | | | | 1,566.0 | 0.9974 |
| Total | 2,661.6 | 1,985.5 | 2,699.5 | 642.7 | 1,330.7 | 2,424.2 | 2,207.0 | 626.1 | 1,372.4 | 10,759.7 | 5,056.1 | 31,765.5 | 1.0075 |

No Loss Reallocation. The NYCA Coincident Peak forecast of 31,765.5 MW differs from the ICAP Market forecast of 31,766.7 MW due to the application of the Transmission District RLGs prior to proportional reallocation of bulk power system losses.

2022 Transmission District Forecast of BTM:NG Resources

| | Transmission District | 2021 Peak Proxy Load | (1 + WNF) | (1 + RLGf) | 2022 Average Coincident Host Load |
|-----|-----------------------|----------------------|-----------|------------|-----------------------------------|
| Row | (a) | (b) | (c) | (d) | (e)=(b)*(c)*(d) |
| 1 | Con-Ed | 22.7 | 1.0209 | 1.0190 | 23.6 |
| 2 | Central Hudson | | | | |
| 3 | LIPA | 40.6 | 1.0360 | 0.9781 | 41.1 |
| 4 | National Grid | 2.0 | 1.0209 | 1.0000 | 2.0 |
| 5 | NYPA | | | | |
| 6 | NYSEG | 39.8 | 1.0363 | 1.0081 | 41.6 |
| 7 | O&R | | | | |
| 8 | RG&E | 52.1 | 1.0287 | 0.9974 | 53.5 |
| | Total | 157.2 | | | 161.8 |

2022 Coincident Peak Forecast, Including BTM:NG Resources

| | A | B | C | D | E | F | G | H | I | J | K | Total |
|-------------------------|----------------|----------------|----------------|--------------|----------------|----------------|----------------|--------------|----------------|-----------------|----------------|-----------------|
| Con Edison | | | | | | | | 269.6 | 1,372.4 | 10,783.3 | | 12,425.3 |
| Cen Hudson | | | | | 3.2 | | 1,074.1 | | | | | 1,077.3 |
| LIPA | | | | | | | | | | | 5,097.2 | 5,097.2 |
| Nat. Grid | 1,983.4 | 419.5 | 1,330.7 | 86.1 | 918.1 | 2,254.8 | | | | | | 6,992.6 |
| NYPA | | | | 459.8 | | | | | | | | 459.8 |
| NYSEG | 678.2 | | 1,410.4 | 96.8 | 411.4 | 169.4 | 21.7 | 356.5 | | | | 3,144.4 |
| O&R | | | | | | | 1,111.2 | | | | | 1,111.2 |
| RG&E | | 1,619.5 | | | | | | | | | | 1,619.5 |
| Total | 2,661.6 | 2,039.0 | 2,741.1 | 642.7 | 1,332.7 | 2,424.2 | 2,207.0 | 626.1 | 1,372.4 | 10,783.3 | 5,097.2 | 31,927.3 |
| BTM:NG & Load Modifiers | | 53.5 | 41.6 | | 2.0 | | | | | 23.6 | 41.1 | 161.8 |

No Loss Reallocation. The BTM:NG resources totaling 161.8 MW are added to the NYCA Coincident Peak forecast of 31,765.5 MW to obtain an adjusted coincident peak value of 31,927.3 MW. The information in this table may be used in future IRM and LCR studies, and is not part of the 2022 ICAP Market forecast.

| 2022 G-to-J Locality Peak Forecast, Prior to BTM:NG Resources | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---------|--------|---------|----------|---|----------|
| | A | B | C | D | E | F | G | H | I | J | K | Total |
| G-to-J Peak | | | | | | | 2,230.5 | 632.8 | 1,387.1 | 10,874.8 | | 15,125.2 |
| BTM:NG Resources | | | | | | | | | | | | |
| | A | B | C | D | E | F | G | H | I | J | K | Total |
| BTM:NG | | | | | | | 0.0 | 0.0 | 0.0 | 23.6 | | 23.6 |
| 2022 G-to-J Locality Peak Forecast, Including BTM:NG Resources | | | | | | | | | | | | |
| | A | B | C | D | E | F | G | H | I | J | K | Total |
| G-to-J Peak | | | | | | | 2,230.5 | 632.8 | 1,387.1 | 10,898.4 | | 15,148.8 |
| NCP Ratio | | | | | | | 1.0107 | 1.0107 | 1.0107 | 1.0107 | | 1.0107 |

No Loss Reallocation

| 2022 Non-Coincident Zonal Peak Forecasts, Prior to BTM:NG Resources | | | | | | | | | | | |
|--|---------|---------|---------|--------|---------|---------|---------|--------|---------|----------|---------|
| | A | B | C | D | E | F | G | H | I | J | K |
| NC Peaks | 2,817.8 | 2,048.4 | 2,764.3 | 657.7 | 1,388.2 | 2,463.0 | 2,243.6 | 634.6 | 1,391.2 | 10,906.0 | 5,137.5 |
| BTM:NG Resources | | | | | | | | | | | |
| | A | B | C | D | E | F | G | H | I | J | K |
| BTM:NG | 0.0 | 53.5 | 41.6 | 0.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 23.6 | 41.1 |
| 2022 Non-Coincident Zonal Peak Forecasts, Including BTM:NG Resources | | | | | | | | | | | |
| | A | B | C | D | E | F | G | H | I | J | K |
| NC Peaks | 2,817.8 | 2,101.9 | 2,805.9 | 657.7 | 1,390.2 | 2,463.0 | 2,243.6 | 634.6 | 1,391.2 | 10,929.6 | 5,178.6 |
| NCP Ratios | 1.0587 | 1.0317 | 1.0240 | 1.0234 | 1.0432 | 1.0160 | 1.0166 | 1.0136 | 1.0136 | 1.0136 | 1.0161 |

No Loss Reallocation

Final ICAP Market Forecast Posting

- The final 2022 ICAP Market Forecast will be posted on the **ICAP Market** page of the NYISO website:

<https://www.nyiso.com/installed-capacity-market>

Installed Capacity Data > Announcements > Information and Announcements

Questions?

Our mission, in collaboration with our stakeholders, is to serve the public interest and provide benefit to consumers by:

- Maintaining and enhancing regional reliability
- Operating open, fair and competitive wholesale electricity markets
- Planning the power system for the future
- Providing factual information to policymakers, stakeholders and investors in the power system

