

2014 Weather Normalized Peak and 2015 ICAP Forecast

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NYCA – Actual and Weather Adjusted MW

2014 Summer Peak MW Data	NYISO DSS Actual MW Data				Transmission Owner Data			
9/2/2014, Hour Ended 4 PM	Actual Load	Losses	Load + Losses	Percent Losses	Actual Load Data	Weather Adjustments	Demand Response	TOs' W/N MW With DR
Version 7 1/12/2015								
Central Hudson	970.10	29.70	999.80	2.97%	1,007.900	77.0	0.1	1,085.0
Consolidated Edison	12,042.20	113.30	12,155.50	0.93%	12,149.70	1239.0	11.9	13,400.6
Long Island Power Authority	4,972.20	62.90	5,039.30	1.25%	4,844.000	395.6	0.0	5,239.6
Full Requirement Customers					106.100	8.7	0.0	114.8
Other Municipal Load					84.000	6.9	0.0	90.9
Other Municipal Generation	4.20					-	-	0.0
					5,034.100	411.2	0.0	5,445.3
New York Power Authority	315.80	5.40	321.20	1.68%	245.000	0.0	0.0	245.0
Partial Requirement Customers					76.300	2.9	-	79.2
					321.300	2.9	0.0	324.2
New York State Electric & Gas	2,655.80	87.40	2,746.10	3.18%	2,535.800	434.9	0.0	3,058.1
Losses					90.300			
Full Requirement Customers		1.30			39.300	6.7	0.0	47.3
Partial Requirement Customers		1.60			67.600	11.6	0.0	80.8
						-	-	0.0
					2,733.000	453.2	0.0	3,186.2
National Grid	5,844.40	433.10	6,349.10	6.82%	5,535.200	810.1	0.1	6,778.5
Losses					448.100			
Full Requirement Customers		7.10			93.500	13.7	0.0	114.3
Partial Requirement Customers		2.80			190.800	27.9	0.0	221.5
Jamestown		5.10			66.900	9.8	0.0	81.8
Other Municipal Generation	56.60					-	-	-
					6,334.500	861.5	0.1	7,196.1
Orange & Rockland Utilities	947.80	12.20	960.00	1.27%	960.000	176.0	0.0	1,136.0
Rochester Gas & Electric	1,245.30	12.10	1,257.40	0.96%	1,248.400	295.7	6.7	1,550.8
Partial Requirement Customers					9.000	2.1	-	11.1
					1,257.400	297.8	6.7	1,561.9
Totals	29,054.4	774.0	29,828.4	2.59%	29,797.9	3,518.6	18.8	33,335.3

NYCA – Actual and Weather Adjusted MW

2014 Summer Peak MW Data		Reallocation of Losses				Proportional	Adj. W/N	2014
9/2/2014, Hour Ended 4 PM		W/N	Station	Adj. W/N Load	Percent Loss	Allocation	Load Less	Adjusted
Version 7 1/12/2015		Losses	Power	Less Losses	Allocation	of Losses	Losses	W/N MW
TOs' W/N MW With DR								
Central Hudson	1,085.0	32.0		1,053.0	3.25%	28.4	1,053.0	1,081.4
Consolidated Edison	13,400.6	125.0	17.1	13,258.5	40.90%	357.5	13,258.5	13,616.0
Long Island Power Authority	5,239.6	65.5		5,174.1	15.96%	139.5	5,174.1	5,313.6
Full Requirement Customers	114.8	1.4		113.4	0.35%	3.1	113.4	116.5
Other Municipal Load	90.9	1.1		89.8	0.28%	2.4	89.8	92.2
Other Municipal Generation	<u>0.0</u>	<u>0.0</u>		<u>0.0</u>	<u>0.00%</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
	5,445.3	68.0		5,377.3	16.59%	145.0	5,377.3	5,522.3
New York Power Authority	245.0	4.1		240.9	0.74%	6.5	240.9	247.4
Partial Requirement Customers	<u>79.2</u>	<u>1.3</u>		<u>77.9</u>	<u>0.24%</u>	<u>2.1</u>	<u>77.9</u>	<u>80.0</u>
	324.2	5.4		318.8	0.98%	8.6	318.8	327.4
New York State Electric & Gas	3,058.1	101.0		2,957.1	9.12%	79.8	2,957.1	3,036.9
Losses				0.0				0.0
Full Requirement Customers	47.3	1.6		45.7	0.14%	1.2	45.7	46.9
Partial Requirement Customers	80.8	2.7		78.1	0.24%	2.1	78.1	80.2
	<u>0.0</u>	<u>0.0</u>		<u>0.0</u>	<u>0.00%</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
	3,186.2	105.3		3,080.9	9.50%	83.1	3,080.9	3,164.0
National Grid	6,778.5	479.4	27.5	6,271.6	19.35%	169.2	6,271.6	6,440.8
Losses				0.0				
Full Requirement Customers	114.3	8.1		106.2	0.33%	2.9	106.2	109.1
Partial Requirement Customers	221.5	15.7		205.8	0.63%	5.5	205.8	211.3
Jamestown	81.8	5.8		76.0	0.23%	2.0	76.0	78.0
Other Municipal Generation								
	<u>-</u>	<u>0.0</u>		<u>0.0</u>	<u>0.00%</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
	7,196.1	509.0		6,659.6	20.54%	179.6	6,659.6	6,839.2
Orange & Rockland Utilities	1,136.0	14.4		1,121.6	3.46%	30.2	1,121.6	1,151.8
Rochester Gas & Electric	1,550.8	14.9		1,535.9	4.74%	41.4	1,535.9	1,577.3
Partial Requirement Customers	<u>11.1</u>	<u>0.1</u>		<u>11.0</u>	<u>0.03%</u>	<u>0.3</u>	<u>11.0</u>	<u>11.3</u>
	1,561.9	15.0		1,546.9	4.77%	41.7	1,546.9	1,588.6
Totals	33,335.3	874.1	44.6	32,416.6	100.00%	874.1	32,416.6	33,290.7

G-J Locality – Actual, Weather Adjusted and Forecast

Assemble Actual MW, SCR and Weather Adjusted MW by Transmission District

(1)	(2)	(3)	(4)	(5)
Transmission District	2014 Total Actual MW	SCR & Other Adjustments	Weather Adjustment MW	2014 Weather Normalized MW
Cen. Hud.	1,007.9	0.1	77.0	1,085.0
Con Ed	12,149.7	11.9	1,239.0	13,400.6
LIPA	5,034.1	0.0	411.2	5,445.3
NGrid	6,334.5	0.1	861.5	7,196.1
NYPA	321.3	0.0	2.9	324.2
NYSEG	2,733.0	0.0	453.2	3,186.2
O&R	960.0	0.0	176.0	1,136.0
RG&E	1,257.4	6.7	297.8	1,561.9
Total	29,797.9	18.8	3,518.6	33,335.3
Check	29,797.9	18.8	3,518.6	33,335.3

Step 1: Allocate Actual MW and SCR MW for each TD across GHIJ Zones.

(1) 2014 Actual & SCR CP GHIJ MW for Zones G, H, I and J

(1)	(2)	(3)	(4)	(5)	(6)	Check Actual	Check SCR
Transmission District	Zone G	Zone H	Zone I	Zone J	Total, GHIJ		
Cen. Hud.	1,008.0				1,008.0	1,007.9	0.1
Con Ed		264.0	1,312.0	10,585.6	12,161.6	12,149.7	11.9
NYSEG	21.0	316.1			337.1	337.1	0.0
O&R	960.0				960.0	960.0	0.0
Total	1,989.0	580.1	1,312.0	10,585.6	14,466.7	14,454.7	12.0
Check Actual	1,988.9	580.1	1,312.0	10,573.7	14,454.7		
Check SCR	0.1	0.0	0.0	11.9	12.0		

G-J Locality – Actual, Weather Adjusted and Forecast

Step 2: Distribute the weather adjustment of each TO in GHJ to the zones

(2) 2014 Weather Normalized CP for Zones G, H, I and J						
(1)	(2)	(3)	(4)	(5)	(6)	Check
Transmission District	Zone G	Zone H	Zone I	Zone J	Total, GHJ	
Gen. Hud. Con Ed	1,085.0	293.6	1,458.8	11,648.2	1,085.0 13,400.6	1085.0 13400.6
NYSEG O&R	22.9 1,136.0	345.1			368.0 1,136.0	368.0 1136.0
Total	2,243.9	638.7	1,458.8	11,648.2	15,989.6	15989.6
Check	2,243.9	638.7	1,458.8	11,648.2	15,989.6	

Step 3: Apply Ratio of Non-Coincident Peak to Coincident Peak to calculate the 2014 Weather Adjusted Locality peaks by Zone and TD.

(3) 2014 Weather Normalized Locality Peak for Zones G, H, I and J						
(1)	(2)	(3)	(4)	(5)	(6)	
Transmission District	Zone G	Zone H	Zone I	Zone J	Total, GHJ	
Gen. Hud. Con Ed	1,095.90	296.50	1,473.40	11,764.70	1,095.90 13,534.60	
NYSEG O&R	23.10 1,147.40	348.60			371.70 1,147.40	
Total	2,266.40	645.10	1,473.40	11,764.70	16,149.60	
NCP/CP Ratio	1.010	1.010	1.010	1.010	1.010	
Check	2,266.3	645.1	1,473.4	11,764.7	16,149.5	

G-J Locality – Actual, Weather Adjusted and Forecast

Step 4: Apply Regional Load Growth Factors to the Weather-Adjusted G-J Locality to obtain the 2015 forecast.

(4) 2015 Non-Coincident Peak Forecast for Zones G, H, I and J						
(1)	(2)	(3)	(4)	(5)	(6)	
Transmission District	Zone G	Zone H	Zone I	Zone J	Total, GHIJ	Regional Load Growth Factors
Gen. Hud. Con Ed	1,098.1	300.4	1,492.6	11,917.6	1,098.1 13,710.6	1.0020 1.0130 1.0034 1.0060 0.9951
NYSEG O&R	23.2 1,157.7	350.4			373.6 1,157.7	1.0050 1.0090 1.0080
Total	2,279.0	650.8	1,492.6	11,917.6	16,340.0	1.0118

Summary of Zone J, Zone K and G-J Locality Data

(1)	(2)	(3)	(4)	(5)	(6)	(7)
Locality	2014 Actual MW	Demand Response MW	Weather Adjustment MW	2014 Weather Normalized MW	Regional Load Growth Factors	2015 ICAP Forecast
Zone J - NYC	10,574.2	11.9	1,190.2	11,776.3	1.0130	11,929.4
Zone K - LI	5,048.0	0.0	472.0	5,520.0	1.00344	5,539.0
Zone GHIJ	14,454.0	12.0	1,522.9	16,149.6	1.01179	16,340.0

Note: The Zone J Locality peak forecast (11,929.4 MW) exceeds that of the Zone J component (11,917.6 MW) of the G to J Locality, as required.

2015 New York Control Area Peak Load Forecast (MW)

Final 1/12/2014	Transmission Districts	2014 Weather Normalized MW Load + Losses MW	Regional Load Growth Factor	2015 Forecast At Time of NYCA Peak	2015 Locality Forecasts		
					J Locality	K Locality	G-J Locality
	Central Hudson	1,081.4	1.0020	1,083.6			1098.1
	Consolidated Edison	13,616.0	1.0130	13,793.0	11,929.4		13710.6
	Long Island Power Authority	5,313.6	1.0034	5,331.9			
	Full Requirements Customers	116.5	1.0034	116.9			
	Other LSEs	92.2	1.0034	92.5			
	LIPA Total	5,522.3	1.0034	5,541.3		5,539.0	
	New York Power Authority	247.4	0.9905	245.0			
	Partial Requirements Customers	80.0	1.0100	80.8			
	NYPA Total	327.4	0.9951	325.8			
	New York State Electric & Gas	3,036.9	1.0050	3,052.1			373.6
	Full Requirements Customers	46.9	1.0050	47.1			
	Partial Requirements Customers	80.2	1.0050	80.6			
	NYSEG Total	3,164.0	1.0050	3,179.8			
	National Grid	6,440.8	1.0060	6,479.4			
	Full Requirements Customers	109.1	1.0060	109.8			
	Partial Requirements Customers	211.3	1.0060	212.6			
	Jamestown	78.0	1.0060	78.5			
	N-Grid Total	6,839.2	1.0060	6,880.3			
	Orange & Rockland Utilities	1,151.8	1.0090	1,162.2			1157.7
	Rochester Gas & Electric	1,577.3	1.0080	1,589.9			
	Partial Requirements Customers	11.3	1.0080	11.4			
	RG&E Total	1,588.6	1.0080	1,601.3			
	Total Load in NYCA or Locality	33,290.7	1.0083	33,567.3	11,929.4	5,539.0	16,340.0

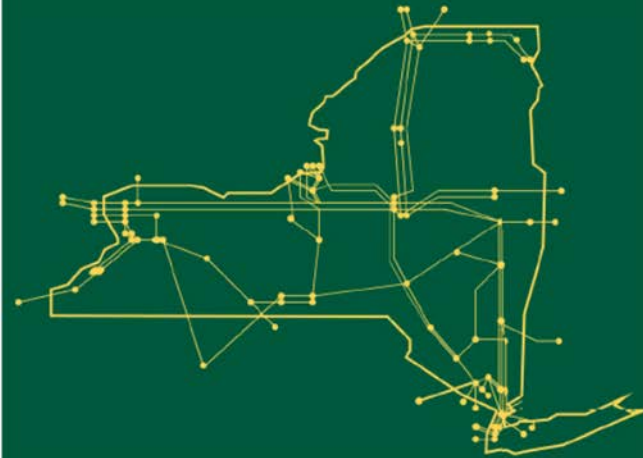
2015 Coincident Peak Forecast by Transmission District & Zone

Prior to Proportional Allocation of Losses

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Transmission District	A	B	C	D	E	F	G	H	I	J	K	2015 Forecast
Cen. Hud.							1087.2					1087.2
Con Ed								297.4	1477.8	11799.6		13574.9
LIPA											5463.6	5463.6
NGrid	1932.9	467.3	1426.7	114.3	1017.4	2237.7						7196.3
NYPA				322.6								322.6
NYSEG	702.0		1496.7	114.1	380.7	138.7	23.0	346.9				3202.1
O&R							1146.2					1146.2
RG&E		1574.4										1574.4
Total	2634.9	2041.7	2923.4	551.0	1398.1	2376.4	2256.4	644.4	1477.8	11799.6	5463.6	33567.3

Values shown here may differ from other results due to rounding.

The New York Independent System Operator (NYISO) is a not-for-profit corporation responsible for operating the state's bulk electricity grid, administering New York's competitive wholesale electricity markets, conducting comprehensive long-term planning for the state's electric power system, and advancing the technological infrastructure of the electric system serving the Empire State.



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