

2014 Weather Normalized Peak and Preliminary 2015 ICAP Forecast (V3)

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December 4, 2014

Albany, NY

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 3 12/5/2014								
Central Hudson	970.10	29.70	999.80	2.97%	1,007.900	77.0	0.1	1085.0
Consolidated Edison	12,042.20	113.30	12,155.50	0.93%	12,149.700	1239.0	11.9	13400.6
Long Island Power Authority	4,972.20	62.90	5,039.30	1.25%	4,819.000	394.0	0.0	5213.0
Full Requirement Customers					131.100	10.7	0.0	141.8
Other Municipal Load					84.000	6.9	0.0	90.9
Other Municipal Generation	4.20					-	-	-
					5,034.100	411.6	0.0	5445.7
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	2,655.90	86.60	2,746.10	3.15%	2,541.800	434.7	0.0	3063.1
Losses					90.300			
Full Requirement Customers		1.30			39.300	6.7	0.0	47.3
Partial Requirement Customers		2.30			68.800	11.8	0.0	82.9
						-	-	-
					2,740.200	453.2	0.0	3193.4
National Grid	5,844.40	421.40	6,349.10	6.64%	5,535.200	810.1	0.1	6766.8
Losses					448.100			
Full Requirement Customers		7.10			93.500	13.7	0.0	114.3
Partial Requirement Customers		14.50			190.800	27.9	0.0	233.2
Jamestown		5.10			66.900	9.8	0.0	81.8
Other Municipal Generation	56.60					-	-	-
					6,334.500	861.5	0.1	7196.1
Orange & Rockland Utilities	947.80	12.20	960.00	1.27%	960.000	176.0	0.0	1136.0
Rochester Gas & Electric	1,245.30	12.10	1,257.40	0.96%	1,248.400	295.7	6.7	1550.8
Partial Requirement Customers					9.000	2.1	-	11.1
					1,257.400	297.8	6.7	1561.9
Totals	29,054.5	773.9	29,828.4	2.59%	29,805.1	3,519.0	18.8	33,342.9

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		TOs' W/N MW	W/N	Station	Adj. W/N Load	Percent Loss	Allocation	Load Less	Adjusted
Version 3 12/5/2014		With DR	Losses	Power	Less Losses	Allocation	of Losses	Losses	W/N MW
Central Hudson	1085.0		32.0		1,053.0	3.24%	28.3	1,053.0	1,081.3
Consolidated Edison	13400.6		125.0		13,275.6	40.89%	357.4	13,275.6	13,633.0
Long Island Power Authority	5213.0		65.1		5,147.90	15.85%	138.6	5,147.9	5,286.5
Full Requirement Customers	141.8		1.8		140.00	0.43%	3.8	140.0	143.8
Other Municipal Load	90.9		1.1		89.80	0.28%	2.4	89.8	92.2
Other Municipal Generation	-		0.0		-	-	0.0	-	-
	5445.7		68.0		5,377.7	16.56%	144.8	5,377.7	5,522.5
New York Power Authority	245.0		4.1		240.9	0.74%	6.5	240.9	247.4
Partial Requirement Customers	79.2		1.3		77.9	0.24%	2.1	77.9	80.0
	324.2		5.4		318.8	0.98%	8.6	318.8	327.4
New York State Electric & Gas	3063.1		100.9		2,962.2	9.12%	79.7	2,962.2	3,041.9
Losses					-				-
Full Requirement Customers	47.3		1.6		45.7	0.14%	1.2	45.7	46.9
Partial Requirement Customers	82.9		2.7		80.2	0.25%	2.2	80.2	82.4
	-		0.0		-	0.00%	0.0	-	-
	3193.4		105.2		3,088.1	9.51%	83.1	3,088.1	3,171.2
National Grid	6766.8		478.6		6,288.2	19.37%	169.3	6,288.20	6,457.5
Losses					-				-
Full Requirement Customers	114.3		8.1		106.20	0.33%	2.9	106.20	109.1
Partial Requirement Customers	233.2		16.5		216.70	0.67%	5.8	216.70	222.5
Jamestown	81.8		5.8		76.00	0.23%	2.0	76.00	78.0
Other Municipal Generation	-		0.0		-	-	0.0	-	-
	7196.1		509.0		6,687.1	20.60%	180.0	6,687.1	6,867.1
Orange & Rockland Utilities	1136.0		14.4		1,121.6	3.45%	30.2	1,121.6	1,151.8
Rochester Gas & Electric	1550.8		14.9		1,535.9	4.73%	41.3	1,535.9	1,577.2
Partial Requirement Customers	11.1		0.1		11.0	0.03%	0.3	11.0	11.3
	1561.9		15.0		1,546.9	4.76%	41.6	1,546.9	1,588.5
Totals	33,342.9		874.0	0.0	32,468.8	1.0000	874.0	32,468.8	33,342.8

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	411.6	5,445.7
NGrid	6,334.5	0.1	861.5	7,196.1
NYPA	321.3	0.0	2.9	324.2
NYSEG	2,740.2	0.0	453.2	3,193.4
O&R	960.0	0.0	176.0	1,136.0
RG&E	1,257.4	6.7	297.8	1,561.9
Total	29,805.1	18.8	3,519.0	33,342.9
Check	29,805.1	18.8	3,519.0	33,342.9

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

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

(1)	(2)	(3)	(4)	(5)	(6)	Check Actual	Check SCR
Transmission District	Zone G	Zone H	Zone I	Zone J	Total, GHJ		
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	316.3			337.3	337.3	0.0
O&R	960.0				960.0	960.0	0.0
Total	1,989.0	580.3	1,312.0	10,585.6	14,466.9	14,454.9	12.0
Check Actual	1,988.9	580.3	1,312.0	10,573.7	14,454.9		
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 GHIJ to the zones

(2) 2014 Weather Normalized CP 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	Check
Gen. Hud. Con Ed	1,085.0	293.6	1,458.8	11,648.2	13,400.6	1085.0 13400.6
NYSEG O&R	22.9 1,136.0	345.3			368.2 1,136.0	368.2 1136.0
Total	2,243.9	638.9	1,458.8	11,648.2	15,989.8	15989.8
Check	2,243.9	638.9	1,458.8	11,648.2	15,989.8	

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, GHIJ	
Gen. Hud. Con Ed	1,095.90	296.50	1,473.40	11,764.70	13,534.60	1,095.90 13,534.60
NYSEG O&R	23.10 1,147.40	348.80			371.90 1,147.40	371.90 1,147.40
Total	2,266.40	645.30	1,473.40	11,764.70	16,149.80	
NCP/CP Ratio	1.010	1.010	1.010	1.010	1.010	1.010
Check	2,266.3	645.3	1,473.4	11,764.7	16,149.7	

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 0.9948
NYSEG O&R	23.2 1,157.7	350.5			373.7 1,157.7	1.0050 1.0090 1.0080
Total	2,279.0	650.9	1,492.6	11,917.6	16,340.1	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	14,454.9	12.0	1,522.9	16,149.8	1.01178	16,340.1

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)

Preliminary 12/4/2014 Version 1	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	1,081.3	1.0020	1,083.5			1098.1
	Consolidated Edison	13,633.0	1.0130	13,810.2	11,929.4		13710.6
	Long Island Power Authority	5,286.5	1.0034	5,304.7			
	Full Requirements Customers	143.8	1.0034	144.3			
	Other LSEs	92.2	1.0034	92.5			
	LIPA Total	5,522.5	1.0034	5,541.5		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	3,041.9	1.0050	3,057.1			373.7
	Full Requirements Customers	46.9	1.0050	47.1			
	Partial Requirements Customers	82.4	1.0050	82.8			
	NYSEG Total	3,171.2	1.0050	3,187.0			
	National Grid	6,457.5	1.0060	6,496.2			
	Full Requirements Customers	109.1	1.0060	109.8			
	Partial Requirements Customers	222.5	1.0060	223.8			
	Jamestown	78.0	1.0060	78.5			
	N-Grid Total	6,867.1	1.0060	6,908.3			
	Orange & Rockland Utilities	1,151.8	1.0090	1,162.2			1157.7
	Rochester Gas & Electric	1,577.2	1.0080	1,589.8			
	Partial Requirements Customers	11.3	1.0080	11.4			
	RG&E Total	1,588.5	1.0080	1,601.2			
	Total Load in NYCA or Locality	33,342.8	1.0083	33,619.7	11,929.4	5,539.0	16,340.1

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