



# 2016 Preliminary Weather Normalized MW for 2017 ICAP Forecast

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**LFTF – Load Forecasting Task Force**

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*Rensselaer, NY*

2016 Load Reconciliation	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
	NYISO DSS Actual MW Data					Transmission Owner Load Data					
8/11/2016, Hour Beginning 4 PM	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
V2. 12/08/2016											
<b>Central Hudson</b>											
Central Hudson LSE Load						995.4	27.0	1,022.4	43.0	4.0	1,069.4
<b>Transmission District Load Served</b>						995.4	27.0	1,022.4	43.0	4.0	1,069.4
Deduction for BTM:NG							0.0	0.0			
<b>Transmission District Total Load</b>	995.4	27.0		1,022.4	2.6%	995.4	27.0	1,022.4			
<b>Consolidated Edison</b>											
Con-Ed LSE Load						12,564.2	87.8	12,652.0	685.0	3.0	13,340.0
<b>Transmission District Load Served</b>						12,564.2	87.8	12,652.0	685.0	3.0	13,340.0
Deduction for BTM:NG							0.0	0.0			
<b>Transmission District Total Load</b>	12,564.2	87.8		12,652.0	0.7%	12,564.2	87.8	12,652.0			
<b>Long Island Power Authority</b>											
LIPA LSE Load						4,930.8	59.5	4,990.3	223.5	0.0	5,213.8
NYPA Load & Greenport Load						94.0	1.1	95.1	4.3	0.0	99.4
Freeport & Rockville Centre Load			13.0			102.5	1.2	103.7	4.6	0.0	108.3
<b>Transmission District Load Served</b>						5,127.3	61.8	5,189.1	232.4	0.0	5,421.5
Deduction for BTM:NG							0.0	0.0			
<b>Transmission District Total Load</b>	5,127.8	61.8	13.0	5,202.6	1.2%	5,127.3	61.8	5,189.1			
<b>New York Power Authority</b>											
NYPA LSE Load						245.8	1.7	237.6		0.0	237.6
NYMPA Load						76.7	0.6	77.3	-1.2	0.0	76.1
<b>Transmission District Load Served</b>						312.6	2.3	314.9	-1.2	0.0	313.7
Deduction for BTM:NG						0.0	0.0	0.0			
<b>Transmission District Total Load</b>	312.6	2.3		314.9	0.7%	312.6	2.3	314.9			

2016 Load Reconciliation	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
	NYISO DSS Actual MW Data					Transmission Owner Load Data					
8/11/2016, Hour Beginning 4 PM	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
V2. 12/08/2016											
<b>New York State Electric &amp; Gas</b>											
NYSEGLSE Load						2,979.9	77.4	3,057.3	45.1	8.0	3,110.3
NYPA Load						42.5	1.1	43.6	0.6	0.0	44.2
NYMPA Load						71.0	1.8	72.8	1.1	0.0	73.9
<b>Transmission District Load Served</b>						3,093.4	80.3	3,173.7	46.8	8.0	3,228.4
Deduction for BTM:NG						0.0	0.0	0.0			
<b>Transmission District Total Load</b>	3,093.3	80.3		3,173.6	2.5%	3,093.4	80.3	3,173.7			
<b>National Grid</b>											
National Grid LSE						6,330.8	327.7	6,658.5	-55.5	141.5	6,744.5
NYPA Load						36.8	1.9	38.7	-0.3	0.0	38.4
NYMPA Load						285.2	14.8	300.0	-2.5	0.0	297.5
Jamestown Load			53.7			64.8	3.4	68.2	-0.6	0.0	67.6
Green Island Load						6.3	0.3	6.6	-0.1	0.0	6.5
<b>Transmission District Load Served</b>						6,723.9	348.1	7,072.0	-59.0	141.5	7,154.5
Deduction for BTM:NG						0.0	0.0	0.0			
<b>Transmission District Total Load</b>	6,655.4	348.1	53.7	7,057.2	4.9%	6,723.9	348.1	7,072.0			
<b>Orange &amp; Rockland Utilities</b>											
O&R LSE Load						1,020.0	11.4	1,031.4	135.0	0.0	1,166.4
<b>Transmission District Load Served</b>						1,020.0	11.4	1,031.4	135.0	0.0	1,166.4
Deduction for BTM:NG							0.0	0.0			
<b>Transmission District Total Load</b>	1,016.4	11.4		1,027.8	1.1%	1,020.0	11.4	1,031.4			
<b>Rochester Gas &amp; Electric</b>											
RG&ELSE Load						1,565.2	20.6	1,585.8	-46.4	10.5	1,549.9
NYMPA Load						11.7	0.6	12.3	-0.1	0.0	12.2
<b>Transmission District Load Served</b>						1,576.9	21.2	1,598.1	-46.5	10.5	1,562.1
Deduction for BTM:NG							0.0	0.0			
<b>Transmission District Total Load</b>	1,576.9	21.2		1,598.1	1.3%	1,576.9	21.2	1,598.1			
<b>Totals</b>	<b>31,342.0</b>	<b>639.9</b>	<b>66.7</b>	<b>32,048.6</b>	<b>2.0%</b>	<b>31,413.6</b>	<b>639.9</b>	<b>32,053.5</b>	<b>1,035.5</b>	<b>167.0</b>	<b>33,256.0</b>

2016 Load Reconciliation	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
	8/11/2016, Hour Beginning 4 PM V2. 12/08/2016	TOs' W/N MW With DR	Reallocation of Losses			Proportional	Adj. W/N	2016	2016	2016 Adj Load
			W/N Losses	Station Power	Adj. W/N Load Less Losses	Percent Loss Allocation	Allocation of Losses	Load Less Losses	Adjusted Actual Load (MW)	(1 + WNF)
<b>Central Hudson</b>										
Central Hudson LSE Load	1,069.4	28.2		1,041.2	3.19%	20.9	1,041.2	1,062.1		
<b>Transmission District Load Served</b>	1,069.4	28.2		1,041.2	3.19%	20.9	1,041.2	<b>1,062.1</b>	<b>1.0670</b>	<b>1,069.4</b>
Deduction for BTM:NG										
<b>Transmission District Total Load</b>										
<b>Consolidated Edison</b>										
Con-Ed LSE Load	13,340.0	92.6	0.0	13,247.4	40.63%	266.3	13,247.4	13,513.7		
<b>Transmission District Load Served</b>	13,340.0	92.6	0.0	13,247.4	40.63%	266.3	13,247.4	<b>13,513.7</b>	<b>1.0756</b>	<b>13,340.0</b>
Deduction for BTM:NG										
<b>Transmission District Total Load</b>										
<b>Long Island Power Authority</b>										
LIPA LSE Load	5,213.8	62.1		5,151.7	15.80%	103.50	5,151.70	5,255.2		
NYPA Load & Greenport Load	99.4	1.2		98.2	0.30%	2.00	98.20	100.2		
Freeport & Rockville Centre Load	108.3	1.3		107.0	0.33%	2.20	107.00	109.2		
<b>Transmission District Load Served</b>	5,421.5	64.6		5,356.9	16.43%	107.7	5,356.9	<b>5,464.6</b>	<b>1.0658</b>	<b>5,421.5</b>
Deduction for BTM:NG										
<b>Transmission District Total Load</b>										
<b>New York Power Authority</b>										
NYPA LSE Load	237.6	1.3		236.3	0.72%	4.7	236.3	241.0		
NYMPA Load	76.1	1.0		75.1	0.23%	1.5	75.1	76.6		
<b>Transmission District Load Served</b>	313.7	2.3		311.4	0.96%	6.2	311.4	<b>317.6</b>	<b>1.0160</b>	<b>313.7</b>
Deduction for BTM:NG										
<b>Transmission District Total Load</b>										

2016 Load Reconciliation	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
	Reallocation of Losses				Proportional	Adj. W/N	2016	2016	2016 Adj Load
	W/N	Station	Adj. W/N Load	Percent Loss	Allocation	Load Less	Adjusted Actual	(1 + WNF)	Prior to
8/11/2016, Hour Beginning 4 PM	Losses	Power	Less Losses	Allocation	of Losses	Losses	Load (MW)		Loss Adjustment
V2. 12/08/2016									
<b>New York State Electric &amp; Gas</b>									
NYSEG LSE Load	80.3		3,030.0	9.29%	60.9	3,030.0	3,090.9		
NYPA Load	0.5		43.7	0.13%	0.9	43.7	44.6		
NYMPA Load	0.9		73.0	0.22%	1.4	73.0	74.4		
<b>Transmission District Load Served</b>	81.7		3,146.7	9.65%	63.2	3,146.7	3,209.9	1.0377	3,228.4
Deduction for BTM:NG									
<b>Transmission District Total Load</b>									
<b>National Grid</b>									
National Grid LSE	347.1	0.0	6,397.4	19.62%	128.6	6,397.4	6,526.0		
NYPA Load	0.5		37.9	0.12%	0.8	37.9	38.7		
NYMPA Load	3.7		293.8	0.90%	5.9	293.8	299.7		
Jamestown Load	0.8		66.8	0.20%	1.3	66.8	68.1		
Green Island Load	0.1		6.4	0.02%	0.1	6.4	6.5		
<b>Transmission District Load Served</b>	352.2	0.0	6,802.3	20.87%	136.7	6,802.3	6,939.0	1.0320	7,154.5
Deduction for BTM:NG									
<b>Transmission District Total Load</b>									
<b>Orange &amp; Rockland Utilities</b>									
O&R LSE Load	12.9		1,153.5	3.54%	23.2	1,153.5	1,176.7		
<b>Transmission District Load Served</b>	12.9		1,153.5	3.54%	23.2	1,153.5	1,176.7	1.1536	1,166.4
Deduction for BTM:NG									
<b>Transmission District Total Load</b>									
<b>Rochester Gas &amp; Electric</b>									
RG&E LSE Load	20.5		1,529.4	4.69%	30.7	1,529.4	1,560.1		
NYMPA Load	0.2		12.0	0.04%	0.3	12.0	12.3		
<b>Transmission District Load Served</b>	20.7		1,541.4	4.73%	31.0	1,541.4	1,572.4	0.9971	1,562.1
Deduction for BTM:NG									
<b>Transmission District Total Load</b>									
<b>Totals</b>	<b>655.20</b>	<b>0.0</b>	<b>32,600.80</b>	<b>100.00%</b>	<b>655.20</b>	<b>32,600.80</b>	<b>33,256.0</b>	<b>1.0586</b>	<b>33,256.0</b>

## 2017 New York Control Area Peak Load Forecast (MW)

Preliminary 12/8/2016	Transmission Districts	2016 Weather Normalized MW Load + Losses MW	Regional Load Growth Factor	2017 Load At Time of NYCA Peak	2017 Deductions	2017 ICAP Market Forecast	2017 Locality Forecasts		
							J Locality	K Locality	G-J Locality
	<b>Central Hudson</b>	1,062.1	0.9820	1,043.0	0.0	1,043.0			1,053.7
	<b>Consolidated Edison</b>	13,513.7	1.0015	13,534.0	0.0	13,534.0	11,670.0		13,444.0
	<b>Long Island Power Authority</b>	5,255.2	0.99367	5,221.9	0.0	5,221.9			
	NYPA & Greenport	100.2	0.99367	99.6	0.0	99.6			
	Freeport & Rockville Centre	109.2	0.99367	108.5	0.0	108.5			
	<b>LIPA Total</b>	5,464.6	0.99367	5,430.0	0.0	5,430.0		5,433.0	
	<b>New York Power Authority</b>	241.0	0.9472	228.3	0.0	228.3			
	NYMPA	76.6	1.0084	77.2	0.0	77.2			
	<b>NYPA Total</b>	317.6	0.9619	305.5	0.0	305.5			
	<b>New York State Electric &amp; Gas</b>	3,090.9	1.0040	3,103.3	0.0	3,103.3			389.2
	NYPA	44.6	1.0040	44.8	0.0	44.8			
	NYMPA	74.4	1.0040	74.7	0.0	74.7			
	<b>NYSEG Total</b>	3,209.9	1.0040	3,222.8	0.0	3,222.8			
	<b>National Grid</b>	6,526.0	1.0030	6,545.6	43.0	6,502.6			
	NYPA	38.7	1.0030	38.8	0.0	38.8			
	NYMPA	299.7	1.0030	300.6	0.0	300.6			
	Jamestown	68.1	1.0030	68.3	0.0	68.3			
	Green Island Power Authority	6.5	1.0030	6.5	0.0	6.5			
	<b>National Grid Total</b>	6,939.0	1.0030	6,959.8	43.0	6,916.8			
	<b>Orange &amp; Rockland Utilities</b>	1,176.7	1.0035	1,180.8	0.0	1,180.8			1,177.8
	<b>Rochester Gas &amp; Electric</b>	1,560.1	1.0028	1,564.5	0.0	1,564.5			
	NYMPA	12.3	1.0028	12.3	0.0	12.3			
	<b>RG&amp;E Total</b>	1,572.4	1.0028	1,576.8	0.0	1,576.8			
	<b>Total Load in NYCA or Locality</b>	<b>33,256.0</b>	0.9986	<b>33,252.7</b>	<b>43.0</b>	<b>33,209.7</b>	<b>11,670.0</b>	<b>5,433.0</b>	<b>16,064.7</b>

**(1) 2016 Actual Coincident Peak MW for G-to-J Locality**

(1)	(2)	(3)	(4)	(5)	(6)
Transmission District	Zone G	Zone H	Zone I	Zone J	Total, GHIJ
Cen. Hud. Con Ed	1,019.4	270.0	1,376.0	11,006.0	1,019.4 12,652.0
NYSEG O&R	22.3 1,031.4	345.7			368.0 1,031.4
<b>Total</b>	<b>2,073.1</b>	<b>615.7</b>	<b>1,376.0</b>	<b>11,006.0</b>	<b>15,070.8</b>

**(2) 2016 Weather Normalized Coincident Peak for G-to-J Locality**

(1)	(2)	(3)	(4)	(5)	(6)
Transmission District	Zone G	Zone H	Zone I	Zone J	Total, GHIJ
Cen. Hud. Con Ed	1,066.3	292.1	1,490.1	11,557.8	1,066.3 13,340.0
NYSEG O&R	23.4 1,166.4	361.8			385.2 1,166.4
<b>Total</b>	<b>2,256.1</b>	<b>653.9</b>	<b>1,490.1</b>	<b>11,557.8</b>	<b>15,957.9</b>

**(3) 2016 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
Cen. Hud. Con Ed	1,073.0	293.9	1,499.5	11,630.6	1,073.0 13,424.0
NYSEG O&R	23.5 1,173.7	364.1			387.6 1,173.7
<b>Total</b>	<b>2,266.1</b>	<b>658.3</b>	<b>1,499.5</b>	<b>11,630.6</b>	<b>16,058.3</b>

**(4) 2017 Locality Forecast for Zones G, H, I and J**

(1)	(2)	(3)	(4)	(5)	(6)	(7)
Transmission District	Zone G	Zone H	Zone I	Zone J	Total, GHIJ	RLGF
Cen. Hud. Con Ed	1,053.7	294.3	1,501.7	11,648.0	1,053.7 13,444.0	0.9820 1.0015
NYSEG O&R	23.6 1,177.8	365.6			389.2 1,177.8	1.0040 1.0035
<b>Total</b>	<b>2,251.0</b>	<b>660.2</b>	<b>1,501.7</b>	<b>11,648.0</b>	<b>16,064.7</b>	

<b>NCP/CP</b>	<b>1.0063</b>	<b>1.0063</b>	<b>1.0063</b>	<b>1.0063</b>	<b>1.0063</b>
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**NYCA Coincident Peak Dates & Times & Zonal MW**

(1)	(2)	(3)	(4)	(5)	(6)	(7)
Year	NYCA Peak Date	Hr Beg	Zone G	Zones H+I	Zone J	G-to-J CP
2007	8/8/2007	17	2,316	2,033	10,971	15,320
2008	6/9/2008	17	2,277	2,056	10,979	15,311
2009	8/17/2009	16	2,159	1,875	10,366	14,400
2010	7/6/2010	17	2,399	2,187	11,600	16,186
2011	7/22/2011	16	2,482	2,239	11,826	16,546
2012	7/17/2012	14	2,282	2,082	11,405	15,769
2013	7/19/2013	17	2,384	2,253	11,736	16,373
2014	9/2/2014	16	2,036	1,917	10,567	14,520
2015	7/29/2015	16	2,070	1,930	10,455	14,455
2016	8/11/2016	16	2,069	1,993	11,006	15,068
<b>Average</b>						<b>15,395</b>

**G-to-J Locality Peak Dates & Times & Zonal MW**

(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15) = (14-7)
Year	G-to-J Peak Date	Hr Beg	Zone G	Zones H+I	Zone J	G-J NCP	G-to-J Delta
2007	8/8/2007	17	2,316	2,033	10,971	15,320	-
2008	6/10/2008	17	2,338	2,101	11,262	15,701	390
2009	8/21/2009	15	2,117	1,879	10,661	14,657	257
2010	7/6/2010	17	2,399	2,187	11,600	16,186	-
2011	7/22/2011	16	2,482	2,239	11,826	16,546	-
2012	7/18/2012	13	2,288	2,071	11,424	15,783	14
2013	7/19/2013	17	2,384	2,253	11,736	16,373	-
2014	9/2/2014	17	2,046	1,933	10,572	14,551	32
2015	7/20/2015	16	2,059	1,996	10,675	14,730	275
2016	8/11/2016	16	2,069	1,993	11,006	15,068	-
<b>Average</b>						<b>15,492</b>	<b>97</b>

**Ratio of G-to-J Locality Peak to G-to-J Coincident Peak (15,492/15,395)**

**1.0063**

**NYCA Coincident Peak Dates & Times & Zonal MW**

(1)	(2)	(3)	(4)	(5)	(6)	(7)
Year	NYCA Peak Date	Hr Beg	Zone G	Zones H+I	Zone J	G-to-J CP
2007	8/8/2007	17	2,316	2,033	10,971	15,320
2008	6/9/2008	17	2,277	2,056	10,979	15,311
2009	8/17/2009	16	2,159	1,875	10,366	14,400
2010	7/6/2010	17	2,399	2,187	11,600	16,186
2011	7/22/2011	16	2,482	2,239	11,826	16,546
2012	7/17/2012	14	2,282	2,082	11,405	15,769
2013	7/19/2013	17	2,384	2,253	11,736	16,373
2014	9/2/2014	16	2,036	1,917	10,567	14,520
2015	7/29/2015	16	2,070	1,930	10,455	14,455
2016	8/11/2016	16	2,069	1,993	11,006	15,068
<b>Average</b>					<b>11,091</b>	

**Zone J Locality Peak Dates & Times & Zonal MW**

(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15) = (13-6)
Year	Zone J Peak Date	Hr Beg	Zone G	Zones H+I	Zone J	G-to-J, Coin. with J	Zone J Delta
2007	8/8/2007	17	2,316	2,033	10,971	15,320	-
2008	6/10/2008	17	2,338	2,101	11,262	15,701	283
2009	8/21/2009	15	2,117	1,879	10,661	14,657	294
2010	7/6/2010	17	2,399	2,187	11,600	16,186	-
2011	7/22/2011	12	2,375	2,107	11,876	16,358	50
2012	7/18/2012	15	2,115	2,002	11,438	15,554	33
2013	7/19/2013	17	2,384	2,253	11,736	16,373	-
2014	9/2/2014	17	2,046	1,933	10,572	14,551	5
2015	7/20/2015	16	2,059	1,996	10,675	14,730	220
2016	8/11/2016	16	2,069	1,993	11,006	15,068	-
<b>Average</b>					<b>11,180</b>		<b>88</b>

**Ratio of J Locality Peak to J Coincident Peak (11,180/11,091)**

**1.0080**



**The mission of the New York Independent System Operator, in collaboration with its 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 policy makers, stakeholders and investors in the power system*

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