

# NYSRC Fall Forecast Update – 2020 Weather Normalization and 2021 IRM Forecast

---

Max Schuler

Demand Forecasting & Analysis

**NYSRC – Installed Capacity Subcommittee**

September 29, 2020

# Agenda

- **Summary of 2020 Weather Normalized Peaks**
- **2021 IRM Study Forecast**
- **Additional Forecast Tables**

# Summary of 2020 Weather Normalized Peaks

# Actual and 20-Year Normal Peak-Producing CTHI Statistics – 2001-2020

NYCA Coincident Peak-Producing CTHI

Statistic	CE	CH	LI	N Grid	NYPA	NYSEG	OR	RGE	NYCA
Max	90.73	89.63	89.71	86.42	87.72	87.44	89.60	87.75	88.06
20 Yr Avg	85.71	85.65	85.03	82.57	82.30	82.78	84.85	83.21	84.02
Min	82.80	81.18	80.18	77.35	77.13	78.22	81.59	77.80	80.38
StDev	2.33	2.33	2.61	2.24	3.14	2.29	2.41	2.37	2.26
50th	85.71	85.65	85.03	82.57	82.30	82.78	84.85	83.21	84.02
57th	86.12	86.06	85.49	82.96	82.85	83.18	85.27	83.63	84.42
67th	86.72	86.66	86.16	83.54	83.66	83.77	85.89	84.23	85.00
90th	88.70	88.64	88.38	85.44	86.33	85.72	87.94	86.25	86.92
2020	84.59	85.21	85.02	82.11	84.19	83.02	83.96	81.35	83.56
Percentile	32%	43%	50%	42%	73%	54%	36%	22%	42%
z (2020)	-0.48	-0.19	0.00	-0.21	0.60	0.10	-0.37	-0.78	-0.20
CTHI Delta	-1.12	-0.44	-0.01	-0.46	1.89	0.24	-0.89	-1.86	-0.46

Notes: Cumulative Temperature & Humidity Index (CTHI) is a three-day weighted average of maximum temperature and humidity  
 The NYCA design condition of the 57<sup>th</sup> percentile is based upon a load-weighted average of the TD design conditions.  
 The 2020 NYCA peak occurred on July 27, Hour Beginning 17.

# CTHI Calculation

Step 1: Calculate hourly *THI* as a weighted average of the dry bulb temperature (DB) and the wet bulb temperature (WB). There are 24 values per day:

For any day *d*,

$$(THI)_{di} = 0.6 \times (DB)_{di} + 0.4 \times (WB)_{di}$$

Where *i* = 0, 1, 2, ..., 23 indicate the hours of a day

Step 2: Calculate the *THI\_max* for a day. This is the maximum hourly THI value for that day:

$$(THI\_max)_d = \max((THI)_{di})$$

Step 3: Calculate the daily CTHI using a weighted average of three days (the day for which the CTHI is being calculated and the two preceding days):

$$(CTHI)_d = 0.7 \times (THI\_max)_d + 0.2 \times (THI\_max)_{d-1} + 0.1 \times (THI\_max)_{d-2}$$

# 2020 Transmission District Weather Normalization NYCA Coincident Peak

(1)	(2)	(3a)	(3b)	(4)	(5)	(6) = (3b)+(4)+(5)	(7)	(8) = (7)-(6)	(9) = (8)/(7)
Transmission District	2020 Actual MW, 7/27/2020 HB 17	Demand Response Estimate MW	2020 Actual MW, with DR Estimate	Estimated Muni Self-Gen	Weather Adjustment MW	2020 Weather Normalized MW	2020 ICAP Forecast, Without Loss Adjustment	TO Forecast, Over /Under MW	TO Forecast Delta, Percent Over /Under
Con Edison	11,273	177	11,450	0	605	12,055	13,034	979	7.5%
Cen Hudson	1,093	0	1,093	0	15	1,108	1,087	-21	-1.9%
LIPA	5,344	20	5,364	7	-181	5,190	5,115	-75	-1.5%
Nat. Grid	6,702	186	6,888	48	36	6,972	6,921	-51	-0.7%
NYPA	405	0	405	0	-1	404	387	-17	-4.4%
NYSEG	3,178	54	3,232	0	-17	3,215	3,173	-42	-1.3%
O&R	1,038	11	1,049	0	36	1,085	1,059	-26	-2.5%
RG&E	1,417	8	1,425	0	137	1,562	1,520	-42	-2.8%
<b>NYCA Total</b>	<b>30,450</b>	<b>456</b>	<b>30,906</b>	<b>55</b>	<b>631</b>	<b>31,592</b>	<b>32,296</b>	<b>704</b>	<b>2.2%</b>

Notes: Peak load hours are defined by PI. Actual load data is from DSS.  
The Demand Response impacts are estimates.

# 2020 Weather Normalization - Locality Peaks

2020 Locality Peak Information						2020 Locality Weather Normalization Calculation						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9) = (7)*(8)	(10) = (9)-(6)	(11)	(12)	(13)
Locality	Date and Time (Hr Beginning)	2020 Actual MW	Demand Response Estimate MW	Estimated Muni Self-Gen	2020 Actual Load including DR and Muni Self-Gen	2020 Weather Normalized Coincident Peak Demand	NCP to CP Ratio	2020 Locality Weather Normalized MW	Locality Weather Adjustment MW	2020 ICAP Market Forecast MW	Forecast Over/Under MW	Forecast Percent Over/Under
Zone J - NYC	7/28/2020 HB 15	10,061	0	0	10,061	10,372	1.0183	10,562	501	11,477	915	8.7%
Zone K - LI	7/28/2020 HB 15	5,428	20	7	5,455	5,190	1.0152	5,268	-187	5,228	-40	-0.8%
Zones G-to-J	7/28/2020 HB 14	14,057	0	0	14,057	14,635	1.0106	14,791	734	15,695	904	6.1%

Notes: Peak load hours are defined by PI. Actual load data is from DSS.

The Demand Response impacts are estimates.

Demand Response calls on July 28<sup>th</sup> in the Zone J and Zones G-to-J Localities occurred after the hours of the Locality peaks.

# Calculation of G-to-J Locality NCP/CP Ratio

## Coincident Peaks

Period	Zone G	Zone H+I	Zone J	G-to-J CP
3 Yr Avg	2,188	1,949	10,232	14,370
5 Yr Avg	2,129	1,948	10,390	14,467
10 Yr Avg	2,190	2,016	10,794	15,000

$$15,159/15,000 = 1.0106$$

## G-to-J Locality Peak Statistics - 2011 to 2020

Period	Zone G	Zone H+I	Zone J	G-to-J NCP
3 Yr Avg	2,052	1,929	10,631	14,611
5 Yr Avg	2,054	1,943	10,724	14,721
10 Yr Avg	2,153	2,021	10,985	15,159

Period	Zone G	Zone H+I	Zone J	G-to-J NCP
3 Yr Avg	(137)	(20)	398	241
5 Yr Avg	(75)	(5)	334	254
10 Yr Avg	(37)	5	191	159

Period	Zone G	Zone H+I	Zone J	G-to-J NCP
3 Yr Avg	0.9375	0.9896	1.0389	1.0168
5 Yr Avg	0.9648	0.9976	1.0321	1.0176
10 Yr Avg	0.9831	1.0024	1.0177	1.0106



# Calculation of Zone J NCP/CP Ratio

## Coincident Peaks

Period	Zone G	Zone H+I	Zone J	G-to-J CP
3 Yr Avg	2,188	1,949	10,232	14,370
5 Yr Avg	2,129	1,948	10,390	14,467
10 Yr Avg	2,190	2,016	10,794	15,000

$$10,992/10,794 = 1.0183$$

## Zone J Locality Peak Statistics - 2011 to 2020

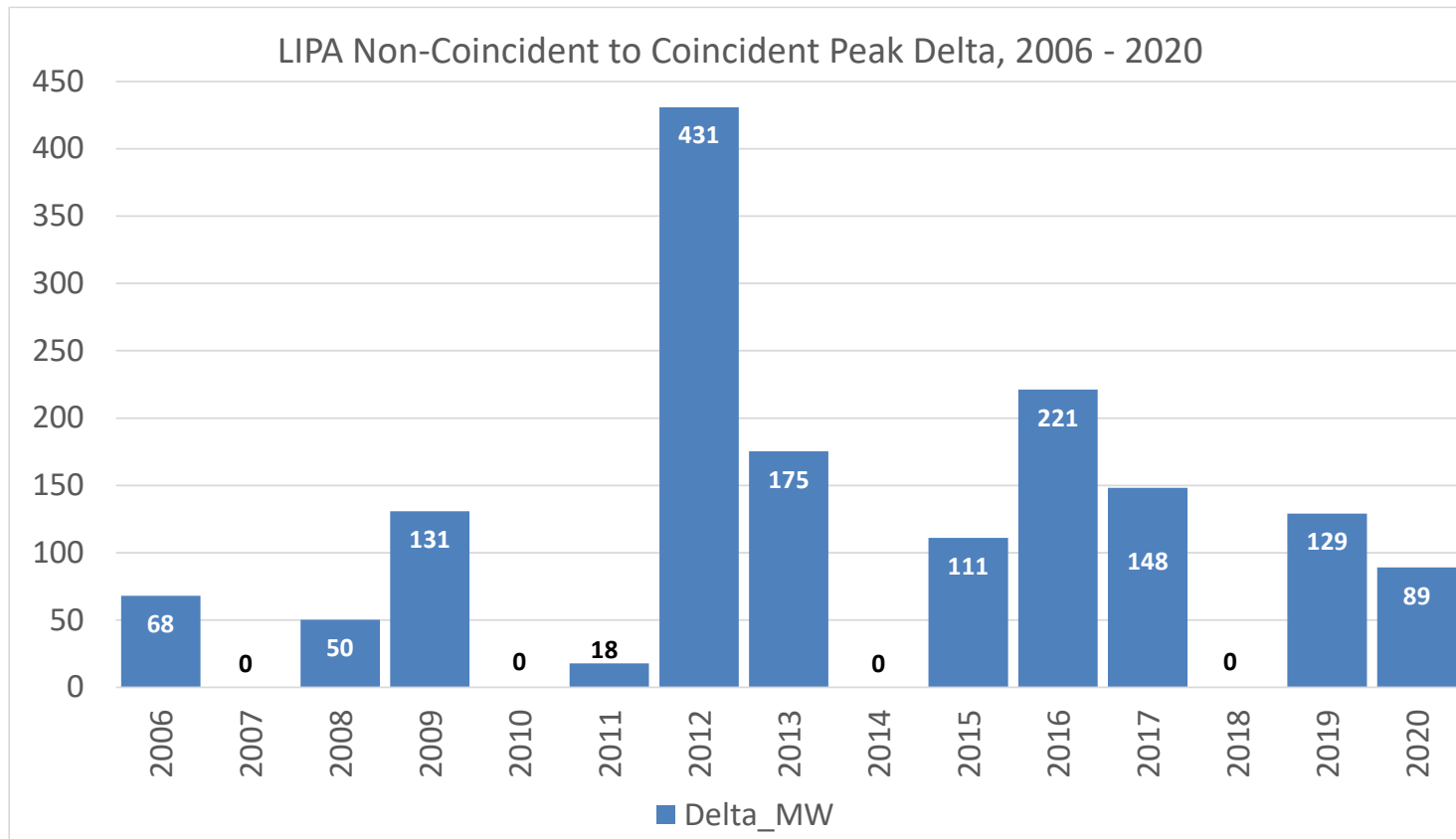
Period	Zone G	Zone H+I	Zone J	G-to-J NCP
3 Yr Avg	2,052	1,929	10,631	14,611
5 Yr Avg	2,054	1,943	10,724	14,721
10 Yr Avg	2,125	2,001	10,992	15,117

Period	Zone G	Zone H+I	Zone J	G-to-J NCP
3 Yr Avg	(137)	(20)	398	241
5 Yr Avg	(75)	(5)	334	254
10 Yr Avg	(65)	(15)	198	117

Period
3 Yr Avg
5 Yr Avg
10 Yr Avg

Zone J
1.0389
1.0321
1.0183

# LIPA 15 -Year History of Non-Coincident to Coincident Peak Loads



# G-to-J Locality Peak Weather Normalization Details

**(1) 2020 Actual Coincident Peak in G to J Locality**

7/27/2020 HB 17

Transmission District	G	H	I	J	G-to-J Total
Con Edison		240.9	1,220.1	9,811.8	11,272.8
Cen Hudson	1,088.9				1,088.9
LIPA					
Nat. Grid					
NYPA					
NYSEG	20.8	365.5			386.3
O&R	1,038.2				1,038.2
RG&E					
<b>Total</b>	<b>2,147.9</b>	<b>606.4</b>	<b>1,220.1</b>	<b>9,811.8</b>	<b>13,786.2</b>

**(2) 2020 Weather-Adjusted Coincident Peak in G to J Locality**

Transmission District	G	H	I	J	G-to-J Total
Con Edison		280.7	1,402.7	10,371.7	12,055.1
Cen Hudson	1,103.9				1,103.9
LIPA					
Nat. Grid					
NYPA					
NYSEG	21.1	369.6			390.7
O&R	1,085.6				1,085.6
RG&E					
<b>Total</b>	<b>2,210.6</b>	<b>650.3</b>	<b>1,402.7</b>	<b>10,371.7</b>	<b>14,635.3</b>

# G-to-J Locality Peak Weather Normalization Details

**(3) 2020 Weather-Adjusted Locality Peak for G-to-J**

Transmission District	G	H	I	J	G-to-J Total
Con Edison		284.0	1,417.6	10,481.6	12,183.2
Cen Hudson	1,115.6				1,115.6
LIPA					
Nat. Grid					
NYPA					
NYSEG	21.3	373.5			394.8
O&R	1,097.1				1,097.1
RG&E					
<b>Total</b>	<b>2,234.0</b>	<b>657.5</b>	<b>1,417.6</b>	<b>10,481.6</b>	<b>14,790.7</b>
<b>NCP/CP ratio</b>	<b>1.0106</b>	<b>1.0106</b>	<b>1.0106</b>	<b>1.0106</b>	

**(4) 2021 Peak Forecast for G-to-J Locality , Before Adjustments**

Transmission District	G	H	I	J	G-to-J Total	RLGF
Con Edison		297.7	1,487.3	10,997.8	12,782.8	<b>1.0492</b>
Cen Hudson	1,105.7				1,105.7	<b>0.9910</b>
LIPA						
Nat. Grid						
NYPA						
NYSEG	21.4	374.7			396.1	<b>1.0031</b>
O&R	1,087.4				1,087.4	<b>0.9914</b>
RG&E						
<b>Total</b>	<b>2,214.5</b>	<b>672.4</b>	<b>1,487.3</b>	<b>10,997.8</b>	<b>15,372.0</b>	<b>1.0393</b>

# 2021 IRM Study Forecast

# 2021 IRM Coincident Peak Forecast by Transmission District

2021 IRM Coincident Peak Forecast by Transmission District for NYSRC

(1)	(2)	(3)	(4)	(5)	(6a)	(6b)	(6c)	(7)	(8)=(6a)*(7)	(9)	(10)=(8)+(9)
Transmission District	2020 Actual MW	Demand Response Estimate MW	2020 Estimated Muni Self-Gen	Total Weather Adjustment MW	2020 Weather Normalized MW	Loss Reallocation MW	2020 WN MW, Adj for Losses	Regional Load Growth Factors	2021 Forecast, Before Adjustments	BTM:NG and Other Adjustments to Load	2021 IRM Final Forecast
Con Edison	11,273	177	0	605	12,055	0	12,055	1.0492	12,649	21.3	12,670.3
Cen Hudson	1,093	0	0	15	1,108	0	1,108	0.9910	1,098		1,098.0
LIPA	5,344	20	7	-181	5,190	0	5,190	0.9948	5,162	42.0	5,204.0
NGrid	6,702	186	48	36	6,972	0	6,972	1.0026	6,991	2.7	6,993.7
NYPA	405	0	0	-1	404	0	404	1.0262	415		415.0
NYSEG	3,178	54	0	-17	3,215	0	3,215	1.0031	3,225	32.0	3,257.0
O&R	1,038	11	0	36	1,085	0	1,085	0.9914	1,076		1,076.0
RG&E	1,417	8	0	137	1,562	0	1,562	0.9785	1,529		1,529.0
<b>Total</b>	<b>30,450</b>	<b>456</b>	<b>55</b>	<b>631</b>	<b>31,592</b>	<b>0</b>	<b>31,592</b>	<b>1.0175</b>	<b>32,145</b>	<b>98.0</b>	<b>32,243.0</b>
									2021 Forecast from 2020 Gold Book		32,129
									Change from 2020 Gold Book		16

# 2021 IRM Locality Peak Forecasts

2021 IRM Locality Peak Forecasts by Transmission District for NYSRC

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)=(8)+(11)
Locality	2020 Actual MW	Demand Response Estimate MW	2020 Estimated Muni Self-Gen	Locality Weather Adjustment MW	2020 Weather Normalized MW	Regional Load Growth Factors	2021 Forecast, Before Adjustments	2021 Forecast from 2020 Gold Book	Change from Gold Book Forecast	BTM:NG and Other Adjustments to Load	2021 IRM Final Forecast
Zone J - NYC	10,061	0	0	501	10,562	1.0492	11,082	11,460	-378	21.3	11,103.3
Zone K - LI	5,428	20	7	-187	5,268	0.9948	5,240	5,139	101	42.0	5,282.0
Zone GHIJ	14,057	0	0	734	14,791	1.0393	15,372	15,660	-288	21.3	15,393.3

# Additional Forecast Tables



### 2020 Actual Coincident Peak Load

7/27/2020 HB 17

	A	B	C	D	E	F	G	H	I	J	K	Total
Con Edison								264.0	1,318.0	9,690.8		11,272.8
Cen Hudson					4.0		1,088.9					1,092.9
LIPA											5,343.8	5,343.8
Nat. Grid	1,717.8	410.7	1,318.1	92.2	946.9	2,216.4						6,702.1
NYPA				405.0								405.0
NYSEG	676.4		1,411.7	115.4	424.7	163.8	20.8	365.5				3,178.3
O&R							1,038.2					1,038.2
RG&E		1,417.2										1,417.2
<b>Total</b>	<b>2,394.2</b>	<b>1,827.9</b>	<b>2,729.8</b>	<b>612.6</b>	<b>1,375.6</b>	<b>2,380.2</b>	<b>2,147.9</b>	<b>629.5</b>	<b>1,318.0</b>	<b>9,690.8</b>	<b>5,343.8</b>	<b>30,450.3</b>

**Note: Con Edison Zone G losses moved to Zone J**

**Average Subzonal Load - Top Five Summer NYCA Daily Peak Hours over Five Years (2016-2020)**

	A	B	C	D	E	F	G	H	I	J	K	Total
Con Edison								253.1	1,281.6	10,305.8		11,840.5
Cen Hudson					3.4		1,027.2					1,030.6
LIPA											5,042.5	5,042.5
Nat. Grid	1,778.9	400.7	1,281.0	84.8	901.1	2,079.3						6,525.8
NYPA				350.7								350.7
NYSEG	631.9		1,340.3	103.5	399.2	141.0	21.3	332.2				2,969.5
O&R							989.0					989.0
RG&E		1,421.9										1,421.9
<b>Total</b>	<b>2,410.8</b>	<b>1,822.6</b>	<b>2,621.2</b>	<b>539.0</b>	<b>1,303.8</b>	<b>2,220.3</b>	<b>2,037.4</b>	<b>585.3</b>	<b>1,281.6</b>	<b>10,305.8</b>	<b>5,042.5</b>	<b>30,170.4</b>

**Note: Con Edison Zone G losses moved to Zone J**

### Zonal Energy Fractions for each TD

	A	B	C	D	E	F	G	H	I	J	K	Total
Con Edison								0.0214	0.1082	0.8704		1.0000
Cen Hudson					0.0033		0.9967					1.0000
LIPA											1.0000	1.0000
Nat. Grid	0.2726	0.0614	0.1963	0.0130	0.1381	0.3186						1.0000
NYPA				1.0000								1.0000
NYSEG	0.2128		0.4513	0.0349	0.1344	0.0475	0.0072	0.1119				1.0000
O&R							1.0000					1.0000
RG&E		1.0000										1.0000

## Demand Response & Municipal Generation - NYCA Coincident Peak Hour

7/27/2020 HB 17

	A	B	C	D	E	F	G	H	I	J	K	Total
Con Edison								3.8	19.2	154.0		177.0
Cen Hudson					0.0		0.0					0.0
LIPA											27.0	27.0
Nat. Grid	98.7	11.4	36.5	2.4	25.7	59.3						234.0
NYPA				0.0								0.0
NYSEG	11.5		24.3	1.9	7.3	2.6	0.4	6.0				54.0
O&R							11.0					11.0
RG&E		8.0										8.0
<b>Total</b>	<b>110.2</b>	<b>19.4</b>	<b>60.8</b>	<b>4.3</b>	<b>33.0</b>	<b>61.9</b>	<b>11.4</b>	<b>9.8</b>	<b>19.2</b>	<b>154.0</b>	<b>27.0</b>	<b>511.0</b>

**Note:** Demand Response & Municipal Generation values are estimates.

### 2020 Weather Adjustment on Coincident Peak Day

	A	B	C	D	E	F	G	H	I	J	K	Total
Con Edison								12.9	65.5	527.1		605.6
Cen Hudson					0.0		15.1					15.1
LIPA											-181.2	-181.2
Nat. Grid	9.9	2.2	7.1	0.5	5.0	11.6						36.3
NYPA				-1.0								-1.0
NYSEG	-3.7		-7.9	-0.6	-2.3	-0.8	-0.1	-1.9				-17.4
O&R							36.2					36.2
RG&E		137.1										137.1
<b>Total</b>	<b>6.2</b>	<b>139.3</b>	<b>-0.8</b>	<b>-1.1</b>	<b>2.7</b>	<b>10.8</b>	<b>51.2</b>	<b>11.0</b>	<b>65.5</b>	<b>527.1</b>	<b>-181.2</b>	<b>630.7</b>

### 2020 Weather-Adjusted Coincident Peak

	A	B	C	D	E	F	G	H	I	J	K	Total
Con Edison								280.7	1,402.7	10,372.0		12,055.4
Cen Hudson					4.0		1,104.0					1,108.0
LIPA											5,189.6	5,189.6
Nat. Grid	1,826.4	424.3	1,361.7	95.1	977.6	2,287.3						6,972.4
NYPA				404.0								404.0
NYSEG	684.2		1,428.1	116.7	429.7	165.6	21.1	369.6				3,215.0
O&R							1,085.4					1,085.4
RG&E		1,562.3										1,562.3
<b>Total</b>	<b>2,510.6</b>	<b>1,986.6</b>	<b>2,789.8</b>	<b>615.8</b>	<b>1,411.3</b>	<b>2,452.9</b>	<b>2,210.5</b>	<b>650.3</b>	<b>1,402.7</b>	<b>10,372.0</b>	<b>5,189.6</b>	<b>31,592.1</b>

**2021 IRM Coincident Peak Forecast by Transmission District and Zone, Before Adjustments**

	A	B	C	D	E	F	G	H	I	J	K	NYCA
Con Edison								294.5	1,471.7	10,882.8		12,649.0
Cen Hudson					4.0		1,094.0					1,098.0
LIPA											5,162.0	5,162.0
Nat. Grid	1,831.1	425.4	1,365.2	95.3	980.1	2,293.9						6,991.0
NYPA				415.0								415.0
NYSEG	686.3		1,432.6	117.1	431.0	166.1	21.2	370.7				3,225.0
O&R							1,076.0					1,076.0
RG&E		1,529.0										1,529.0
<b>Total</b>	<b>2,517.4</b>	<b>1,954.4</b>	<b>2,797.8</b>	<b>627.4</b>	<b>1,415.1</b>	<b>2,460.0</b>	<b>2,191.2</b>	<b>665.2</b>	<b>1,471.7</b>	<b>10,882.8</b>	<b>5,162.0</b>	<b>32,145.0</b>

2021 IRM BTM:NG Adjustments to Load

	A	B	C	D	E	F	G	H	I	J	K	NYCA
Con Edison										21.3		21.3
Cen Hudson												
LIPA											42.0	42.0
Nat. Grid					2.7							2.7
NYPA												
NYSEG			32.0									32.0
O&R												
RG&E												
Total			32.0		2.7					21.3	42.0	98.0



**2021 IRM Coincident Peak Forecast by Transmission District and Zone, With BTM:NG Adjustments**

	A	B	C	D	E	F	G	H	I	J	K	NYCA
Con Edison								294.5	1,471.7	10,904.1		12,670.3
Cen Hudson					4.0		1,094.0					1,098.0
LIPA											5,204.0	5,204.0
Nat. Grid	1,831.1	425.4	1,365.2	95.3	982.8	2,293.9						6,993.7
NYPA				415.0								415.0
NYSEG	686.3		1,464.6	117.1	431.0	166.1	21.2	370.7				3,257.0
O&R							1,076.0					1,076.0
RG&E		1,529.0										1,529.0
<b>Total</b>	<b>2,517.4</b>	<b>1,954.4</b>	<b>2,829.8</b>	<b>627.4</b>	<b>1,417.8</b>	<b>2,460.0</b>	<b>2,191.2</b>	<b>665.2</b>	<b>1,471.7</b>	<b>10,904.1</b>	<b>5,204.0</b>	<b>32,243.0</b>

**2021 IRM Non-Coincident Peak Forecast by Transmission District and Zone, Before Adjustments**

	A	B	C	D	E	F	G	H	I	J	K
Con Edison								299.9	1,498.6	11,082.0	
Cen Hudson					4.2		1,113.1				
LIPA											5,240.0
Nat. Grid	1,956.2	442.5	1,424.4	100.8	1,027.2	2,368.4					
NYPA				439.1							
NYSEG	733.2		1,494.7	123.9	451.7	171.5	21.6	377.5			
O&R							1,094.8				
RG&E		1,590.5									
<b>Total</b>	<b>2,689.4</b>	<b>2,033.0</b>	<b>2,919.1</b>	<b>663.8</b>	<b>1,483.1</b>	<b>2,539.9</b>	<b>2,229.5</b>	<b>677.4</b>	<b>1,498.6</b>	<b>11,082.0</b>	<b>5,240.0</b>

<b>NCP/CP Ratio</b>	1.0683	1.0402	1.0434	1.0581	1.0481	1.0325	1.0175	<b>1.0183</b>	<b>1.0183</b>	<b>1.0183</b>	<b>1.0152</b>
---------------------	--------	--------	--------	--------	--------	--------	--------	---------------	---------------	---------------	---------------

**2021 IRM Non-Coincident Peak Forecast by Transmission District and Zone, With BTM:NG Adjustments**

	A	B	C	D	E	F	G	H	I	J	K
Con Edison								299.9	1,498.6	11,103.3	
Cen Hudson					4.2		1,113.1				
LIPA											5,282.0
Nat. Grid	1,956.2	442.5	1,424.4	100.8	1,029.9	2,368.4					
NYPA				439.1							
NYSEG	733.2		1,526.7	123.9	451.7	171.5	21.6	377.5			
O&R							1,094.8				
RG&E		1,590.5									
<b>Total</b>	<b>2,689.4</b>	<b>2,033.0</b>	<b>2,951.1</b>	<b>663.8</b>	<b>1,485.8</b>	<b>2,539.9</b>	<b>2,229.5</b>	<b>677.4</b>	<b>1,498.6</b>	<b>11,103.3</b>	<b>5,282.0</b>

<b>BTM:NG Adjustments</b>			32.0		2.7					21.3	42.0
---------------------------	--	--	------	--	-----	--	--	--	--	------	------

**(4) 2021 Peak Forecast for G-to-J Locality , Before Adjustments**

Transmission District	G	H	I	J	G-to-J Total
Con Edison		297.7	1,487.3	10,997.8	12,782.8
Cen Hudson	1,105.7				1,105.7
LIPA					
Nat. Grid					
NYPA					
NYSEG	21.4	374.7			396.1
O&R	1,087.4				1,087.4
RG&E					
<b>Total</b>	<b>2,214.5</b>	<b>672.4</b>	<b>1,487.3</b>	<b>10,997.8</b>	<b>15,372.0</b>

**2021 Peak Forecast for G-to-J Locality , With BTM:NG Adjustments**

Transmission District	G	H	I	J	G-to-J Total
Con Edison		297.7	1,487.3	11,019.1	12,804.1
Cen Hudson	1,105.7				1,105.7
LIPA					
Nat. Grid					
NYPA					
NYSEG	21.4	374.7			396.1
O&R	1,087.4				1,087.4
RG&E					
<b>Total</b>	<b>2,214.5</b>	<b>672.4</b>	<b>1,487.3</b>	<b>11,019.1</b>	<b>15,393.3</b>

<b>BTM:NG Adjustments</b>				21.3	<b>21.3</b>
---------------------------	--	--	--	------	-------------

# 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

