

# 2019 Preliminary Weather-Normalized MW for 2020 ICAP Forecast

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Max Schuler

Demand Forecasting & Analysis

Load Forecasting Task Force

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# Agenda

1. 2019 Preliminary Weather-Normalized Peak Load
2. Additional Forecast Information – Locality Data
3. 2019 Economic Data

# 2019 Preliminary Weather-Normalized Peak Load

2019 Load Reconciliation	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
	NYISO DSS Actual MW Data					Transmission Owner Load Data					
7/20/2019, 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
<b>Consolidated Edison</b>											
Con-Ed LSE Load						11,438.8	165.5	11,604.3	1,318.0	45.5	12,967.8
Transmission District Load Served						11,438.8	165.5	11,604.3	1,318.0	45.5	12,967.8
Deduction for BTM:NG						0.0	0.0	0.0			
Transmission District Total Load	11,438.8	165.5		11,604.3	1.4%	11,438.8	165.5	11,604.3			
<b>Central Hudson</b>											
Central Hudson LSE Load						1,093.0	32.1	1,125.1	1.0	0.0	1,126.1
Transmission District Load Served						1,093.0	32.1	1,125.1	1.0	0.0	1,126.1
Deduction for BTM:NG						0.0	0.0	0.0			
Transmission District Total Load	1,093.0	32.1		1,125.1	2.9%	1,093.0	32.1	1,125.1			
<b>Long Island Power Authority</b>											
LIPA LSE Load						5,049.0	68.5	5,117.5	-161.3	9.6	4,965.8
NYPA Load & Greenport Load						97.5	1.3	98.8	-3.1	0.0	95.7
Freeport & Rockville Centre Load			7.0			112.0	1.5	113.5	-3.6	0.0	109.9
Transmission District Load Served						5,258.5	71.3	5,329.8	-168.0	9.6	5,171.4
Deduction for BTM:NG						0.0	0.0	0.0			
Transmission District Total Load	5,251.5	71.3	7.0	5,329.8	1.3%	5,258.5	71.3	5,329.8			
<b>National Grid</b>											
National Grid LSE Load						5,818.7	368.2	6,186.9	297.8	0.0	6,484.7
NYPA Load						36.6	2.3	38.9	1.9	0.0	40.8
NYMPA Load						264.7	16.8	281.5	13.5	0.0	295.0
Jamestown Load			53.1			67.9	4.3	72.2	3.5	0.0	75.7
Green Island Load						6.2	0.4	6.6	0.3	0.0	6.9
Transmission District Load Served						6,194.1	392.0	6,586.1	317.0	0.0	6,903.1
Deduction for BTM:NG						0.0	0.0	0.0			
Transmission District Total Load	6,141.0	392.0	53.10	6,586.1	6.0%	6,194.1	392.0	6,586.1			
<b>Totals</b>	<b>29,666.8</b>	<b>746.8</b>	<b>60.1</b>	<b>30,473.7</b>	<b>2.5%</b>	<b>29,726.9</b>	<b>746.8</b>	<b>30,473.7</b>	<b>1,684.0</b>	<b>83.4</b>	<b>32,241.1</b>

2019 Load Reconciliation	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
	NYISO DSS Actual MW Data					Transmission Owner Load Data						
	7/20/2019, 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
V1 - 10/31/19												
New York Power Authority												
NYPA LSE Load						275.5	2.9	278.4	0.0	0.0	278.4	
NYMPA Load						81.8	0.9	82.7	1.1	0.0	83.8	
<b>Transmission District Load Served</b>						<b>357.3</b>	<b>3.8</b>	<b>361.1</b>	<b>6.0</b>	<b>0.0</b>	<b>367.1</b>	
Deduction for BTM:NG						0.0	0.0	0.0				
<b>Transmission District Total Load</b>		357.3	3.8		361.1	1.1%						
New York State Electric & Gas												
NYSEG LSE Load						2,845.4	57.5	2,902.9	106.0	28.2	3,037.1	
NYPA Load						44.8	0.9	45.7	1.7	0.0	47.4	
NYMPA Load						61.5	1.2	62.7	2.3	0.0	65.0	
<b>Transmission District Load Served</b>						<b>2,951.7</b>	<b>59.6</b>	<b>3,011.3</b>	<b>110.0</b>	<b>28.2</b>	<b>3,149.5</b>	
Deduction for BTM:NG						0.0	0.0	0.0				
<b>Transmission District Total Load</b>		2,951.7	59.6		3,011.3	2.0%						
Orange & Rockland Utilities												
O&R LSE Load						996.0	8.4	1,004.4	41.0	0.0	1,045.4	
<b>Transmission District Load Served</b>						<b>996.0</b>	<b>8.4</b>	<b>1,004.4</b>	<b>41.0</b>	<b>0.0</b>	<b>1,045.4</b>	
Deduction for BTM:NG						0.0	0.0	0.0				
<b>Transmission District Total Load</b>		996.0	8.4		1,004.4	0.8%						
Rochester Gas & Electric												
RG&E LSE Load						1,426.6	14.0	1,440.6	58.6	0.1	1,499.3	
NYMPA Load						10.9	0.1	11.0	0.4	0.0	11.4	
<b>Transmission District Load Served</b>						<b>1,437.5</b>	<b>14.1</b>	<b>1,451.6</b>	<b>59.0</b>	<b>0.1</b>	<b>1,510.7</b>	
Deduction for BTM:NG						0.0	0.0	0.0				
<b>Transmission District Total Load</b>		1,437.5	14.1		1,451.6	1.0%						
<b>Totals</b>		<b>29,666.8</b>	<b>746.8</b>	<b>60.1</b>	<b>30,473.7</b>	<b>2.5%</b>	<b>29,726.9</b>	<b>746.8</b>	<b>30,473.7</b>	<b>1,684.0</b>	<b>83.4</b>	<b>32,241.1</b>

2019 Load Reconciliation	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	
	7/20/2019, Hour Beginning 4 PM V1 - 10/31/19	TOs' W/N MW With DR	Reallocation of Losses				Proportional Allocation of Losses	Adj. W/N Load Less Losses	2019 Adjusted Actual Load (MW)	2019 BTM:NG (1 + WNE)	2019 Adj Load Prior to Loss Adjustment
			W/N Losses	Station Power	Adj. W/N Load Less Losses	Percent Loss Allocation					
<b>Consolidated Edison</b>											
Con-Ed LSE Load	12,967.8	185.0		12,782.8	40.66%	319.9	12,782.8	13,102.7			
<b>Transmission District Load Served</b>	<b>12,967.8</b>	185.0		12,782.8	40.66%	319.9	12,782.8	<b>13,102.7</b>	<b>1.0250</b>	<b>12,967.8</b>	
Deduction for BTM:NG											
<b>Transmission District Total Load</b>											
<b>Central Hudson</b>											
Central Hudson LSE Load	1,126.1	32.1		1,094.0	3.48%	27.4	1,094.0	1,121.4			
<b>Transmission District Load Served</b>	<b>1,126.1</b>	32.1		1,094.0	3.48%	27.4	1,094.0	<b>1,121.4</b>	<b>1.0250</b>	<b>1,126.1</b>	
Deduction for BTM:NG											
<b>Transmission District Total Load</b>											
<b>Long Island Power Authority</b>											
LIPA LSE Load	4,965.8	66.4		4,899.4	15.59%	122.70	4,899.40	5,022.1			
NYPA Load & Greenport Load	95.7	1.3		94.4	0.30%	2.40	94.40	96.8			
Freeport & Rockville Centre Load	109.9	1.5		108.4	0.34%	2.70	108.40	111.1			
<b>Transmission District Load Served</b>	<b>5,171.4</b>	69.2		5,102.2	16.23%	127.8	5,102.2	<b>5,230.0</b>	<b>1.0250</b>	<b>5,171.4</b>	
Deduction for BTM:NG											
<b>Transmission District Total Load</b>											
<b>National Grid</b>											
National Grid LSE	6,484.7	386.0	13.5	6,085.2	19.36%	152.3	6,085.2	6,237.5			
NYPA Load	40.8	2.4		38.4	0.12%	0.9	38.4	39.3			
NYMPA Load	295.0	17.6		277.4	0.88%	6.9	277.4	284.3			
Jamestown Load	75.7	4.5		71.2	0.23%	1.8	71.2	73.0			
Green Island Load	6.9	0.4		6.5	0.02%	0.2	6.5	6.7			
<b>Transmission District Load Served</b>	<b>6,903.1</b>	410.9	13.5	6,478.7	20.61%	162.1	6,478.7	<b>6,640.8</b>	<b>1.0250</b>	<b>6,889.6</b>	
Deduction for BTM:NG											
<b>Transmission District Total Load</b>											
<b>Totals</b>	<b>32,241.1</b>	<b>786.80</b>	<b>13.5</b>	<b>31,435.90</b>	<b>100.00%</b>	<b>786.80</b>	<b>31,435.90</b>	<b>32,222.7</b>	<b>1.0250</b>	<b>32,227.6</b>	

2019 Load Reconciliation	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	
	7/20/2019, Hour Beginning 4 PM V1 - 10/31/19	TOs' W/N MW With DR	Reallocation of Losses				Proportional Allocation of Losses	Adj. W/N Load Loss Losses	2019 Adjusted Actual Load (MW)	2019 BTM:NG (1 + WNF)	2019 Adj Load Prior to Loss Adjustment
			W/N Losses	Station Power	Adj. W/N Load Less Losses	Percent Loss Allocation					
<b>New York Power Authority</b>											
NYPA LSE Load	278.4	3.0		275.4	0.88%	6.9	275.4	282.3			
NYMPA Load	83.8	0.9		82.9	0.26%	2.0	82.9	84.9			
<b>Transmission District Load Served</b>	<b>367.1</b>	<b>3.9</b>		<b>358.3</b>	<b>1.14%</b>	<b>8.9</b>	<b>358.3</b>	<b>367.2</b>	<b>1.0250</b>	<b>367.1</b>	
Deduction for BTM:NG											
<b>Transmission District Total Load</b>											
<b>New York State Electric &amp; Gas</b>											
NYSEGLSE Load	3,037.1	60.1		2,977.0	9.47%	74.5	2,977.0	3,051.5			
NYPA Load	47.4	0.9		46.5	0.15%	1.2	46.5	47.7			
NYMPA Load	65.0	1.3		63.7	0.20%	1.6	63.7	65.3			
<b>Transmission District Load Served</b>	<b>3,149.5</b>	<b>62.3</b>		<b>3,087.2</b>	<b>9.82%</b>	<b>77.3</b>	<b>3,087.2</b>	<b>3,164.5</b>	<b>1.0250</b>	<b>3,149.5</b>	
Deduction for BTM:NG											
<b>Transmission District Total Load</b>											
<b>Orange &amp; Rockland Utilities</b>											
O&R LSE Load	1,045.4	8.7		1,036.7	3.30%	26.0	1,036.7	1,062.7			
<b>Transmission District Load Served</b>	<b>1,045.4</b>	<b>8.7</b>		<b>1,036.7</b>	<b>3.30%</b>	<b>26.0</b>	<b>1,036.7</b>	<b>1,062.7</b>	<b>1.0250</b>	<b>1,045.4</b>	
Deduction for BTM:NG											
<b>Transmission District Total Load</b>											
<b>Rochester Gas &amp; Electric</b>											
RG&E LSE Load	1,499.3	14.6		1,484.7	4.72%	37.1	1,484.7	1,521.8			
NYMPA Load	11.4	0.1		11.3	0.04%	0.3	11.3	11.6			
<b>Transmission District Load Served</b>	<b>1,510.7</b>	<b>14.7</b>		<b>1,496.0</b>	<b>4.76%</b>	<b>37.4</b>	<b>1,496.0</b>	<b>1,533.4</b>	<b>1.0250</b>	<b>1,510.7</b>	
Deduction for BTM:NG											
<b>Transmission District Total Load</b>											
<b>Totals</b>	<b>32,241.1</b>	<b>786.80</b>	<b>13.5</b>	<b>31,435.90</b>	<b>100.00%</b>	<b>786.80</b>	<b>31,435.90</b>	<b>32,222.7</b>	<b>1.0250</b>	<b>32,227.6</b>	

# Additional Forecast Information – Locality Data



# G-to-J Locality Peaks

G-to-J Peaks

Year	G-to-J Date	G-to-J Hr Beg	NCP MW	NYCA Date	NYCA Hr Beg	CP MW	Delta	Ratio
2010	7/6/2010	17	16,186	7/6/2010	17	16,186	-	1.0000
2011	7/22/2011	16	16,546	7/22/2011	16	16,546	-	1.0000
2012	7/18/2012	13	15,783	7/17/2012	14	15,769	14	1.0009
2013	7/19/2013	17	16,373	7/19/2013	17	16,373	-	1.0000
2014	9/2/2014	17	14,551	9/2/2014	16	14,520	32	1.0022
2015	7/20/2015	16	14,730	7/29/2015	16	14,455	275	1.0190
2016	8/11/2016	16	15,068	8/11/2016	16	15,068	-	1.0000
2017	7/20/2017	16	14,704	7/19/2017	17	14,158	546	1.0385
2018	8/29/2018	16	15,192	8/29/2018	16	15,192	-	1.0000
2019	7/17/2019	17	14,572	7/20/2019	16	14,114	458	1.0325

DSS Load Data

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

## G-to-J Locality Peak Statistics - 2010 to 2019

Period	Average NCP	Average CP	Delta	Ratio
3 Yr Avg	14,823	14,488	335	1.0231
5 Yr Avg	14,853	14,597	256	1.0175
10 Yr Avg	15,371	15,238	132	<b>1.0087</b>

Calculation:  $15,371 / 15,238 = 1.0087$

# Zone J Locality Peaks

Zone J Peaks

Year	Zone J Date	Zone J Hr Beg	NCP MW	NYCA Date	NYCA Hr Beg	CP MW	Delta	Ratio
2010	7/6/2010	17	11,600	7/6/2010	17	11,600	-	1.0000
2011	7/22/2011	12	11,876	7/22/2011	16	11,826	50	1.0042
2012	7/18/2012	15	11,438	7/17/2012	14	11,405	33	1.0028
2013	7/19/2013	17	11,736	7/19/2013	17	11,736	-	1.0000
2014	9/2/2014	17	10,572	9/2/2014	16	10,567	5	1.0005
2015	7/20/2015	16	10,675	7/29/2015	16	10,455	220	1.0210
2016	8/11/2016	16	11,006	8/11/2016	16	11,006	-	1.0000
2017	7/20/2017	17	10,722	7/19/2017	17	10,249	473	1.0461
2018	8/29/2018	16	11,037	8/29/2018	16	11,037	-	1.0000
2019	7/17/2019	17	10,756	7/20/2019	16	9,980	776	1.0778

DSS Load Data

# Zone J Locality NCP/CP Ratio Calculation

Zone J Locality Peak Statistics - 2010 to 2019

Period	Average NCP	Average CP	Delta	Ratio
3 Yr Avg	10,838	10,422	416	1.0399
5 Yr Avg	10,839	10,545	294	1.0279
10 Yr Avg	11,142	10,986	156	<b>1.0142</b>

Calculation:  $11,142 / 10,986 = 1.0142$

# Zone K Locality Peaks

Zone K Peaks

Year	Zone K Date	Zone K Hr Beg	NCP MW	NYCA Date	NYCA Hr Beg	CP MW	Delta	Ratio
2010	7/6/2010	16	5,822	7/6/2010	17	5,755	66	1.0115
2011	7/22/2011	15	5,914	7/22/2011	16	5,896	18	1.0030
2012	6/21/2012	16	5,510	7/17/2012	14	5,079	431	1.0848
2013	7/18/2013	16	5,764	7/19/2013	17	5,589	175	1.0314
2014	9/2/2014	16	5,054	9/2/2014	16	5,054	-	1.0000
2015	7/20/2015	16	5,247	7/29/2015	16	5,136	111	1.0216
2016	8/12/2016	16	5,411	8/11/2016	16	5,190	221	1.0426
2017	7/20/2017	16	5,137	7/19/2017	17	4,989	148	1.0297
2018	8/29/2018	16	5,412	8/29/2018	16	5,412	-	1.0000
2019	7/21/2019	17	5,452	7/20/2019	16	5,323	129	1.0242

DSS Load Data

# Zone K Locality NCP/CP Ratio Calculation

## Zone K Locality Peak Statistics - 2010 to 2019

Period	Average NCP	Average CP	Delta	Ratio
3 Yr Avg	5,334	5,241	92	1.0176
5 Yr Avg	5,332	5,210	122	1.0234
10 Yr Avg	5,472	5,342	130	<b>1.0243</b>

Calculation:  $5,472 / 5,342 = 1.0243$

# Daily Locality Data – July 17 to July 21

Date	NYCA		G-to-J		Zone J		Zone K	
	CTHI	Peak MW	CTHI	Peak MW	CTHI	Peak MW	CTHI	Peak MW
7/17/2019	80.62	29,384.6	83.96	14,601.5	84.21	10,756.0	83.06	5,056.9
7/18/2019	78.93	26,922.6	79.50	12,168.5	80.10	9,190.6	81.12	4,233.0
7/19/2019	81.86	29,349.5	83.35	14,083.3	83.36	10,056.8	80.76	4,625.3
7/20/2019	84.96	30,427.7	86.61	14,113.5	86.82	9,980.0	86.74	5,322.8
7/21/2019	85.23	30,347.7	88.43	14,576.6	88.60	10,337.2	89.06	5,451.9

DSS Load Data

# Locality Peak-Producing CTHI Statistics

## Peak - Producing CTHI

Locality:	NYCA	G-to-J	Zone J	Zone K
20 Yr Avg PP CTHI	83.79	86.49	86.82	84.74
St Dev PP CTHI	2.52	2.41	2.44	2.91
Design Percentile	57%	65%	67%	50%
Design CTHI	84.23	87.45	87.88	84.74



# 2019 Economic Data

# Summary of Economic Data (1 of 2)

Variable & TD	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Con-Ed_Employment	1,000	4,208	4,306	4,395	4,513	4,657	4,773	4,856	4,933	5,010	5,058	5,061	5,065
Con-Ed_GDP	\$ Millions	711,853	733,529	760,094	764,458	783,337	797,297	813,347	830,207	849,704	863,982	873,879	890,739
Con-Ed_Households	1,000	3,491	3,539	3,576	3,612	3,644	3,673	3,684	3,689	3,702	3,719	3,736	3,751
Con-Ed_Income-Real	\$ Millions	535,781	558,709	571,703	583,761	608,492	629,738	651,617	685,522	701,756	700,953	704,055	713,744
Con-Ed_Population	1,000	9,180	9,268	9,336	9,384	9,421	9,446	9,433	9,386	9,360	9,362	9,371	9,383
Cen-Hud_Employment	1,000	190	190	190	191	192	194	195	197	199	201	202	202
Cen-Hud_GDP	\$ Millions	22,364	22,345	22,635	22,606	22,626	22,684	22,776	23,232	23,951	24,392	24,653	25,249
Cen-Hud_Households	1,000	200	200	200	201	201	202	202	203	204	204	205	205
Cen-Hud_Income-Real	\$ Millions	22,448	22,824	22,966	22,995	23,696	24,341	24,896	25,606	25,744	25,876	26,042	26,341
Cen-Hud_Population	1,000	530	529	526	524	523	520	519	520	519	518	517	516
LIPA_Employment	1,000	1,238	1,254	1,273	1,289	1,302	1,320	1,338	1,346	1,351	1,359	1,361	1,363
LIPA_GDP	\$ Millions	164,725	166,482	169,085	169,704	173,761	175,130	175,179	176,184	177,990	180,153	182,509	186,285
LIPA_Households	1,000	954	959	962	966	969	972	973	975	979	984	988	991
LIPA_Income-Real	\$ Millions	173,552	179,524	182,646	181,681	188,676	194,100	198,389	202,955	203,352	203,696	203,186	204,141
LIPA_Population	1,000	2,841	2,846	2,848	2,851	2,850	2,846	2,842	2,840	2,839	2,838	2,837	2,836
N-Grid_Employment	1,000	1,781	1,798	1,810	1,819	1,825	1,839	1,855	1,866	1,879	1,889	1,888	1,890
N-Grid_GDP	\$ Millions	222,297	223,662	225,144	225,590	230,584	232,480	233,737	236,642	242,135	245,396	247,224	252,104
N-Grid_Households	1,000	1,627	1,635	1,641	1,648	1,652	1,655	1,659	1,663	1,667	1,672	1,676	1,680
N-Grid_Income-Real	\$ Millions	163,505	165,381	166,389	167,070	171,675	175,125	177,058	181,079	181,642	181,701	181,995	183,394
N-Grid_Population	1,000	4,012	4,011	4,009	4,005	3,995	3,979	3,968	3,964	3,957	3,946	3,937	3,929

Data is from Moody's Analytics, August 2019.



# Summary of Economic Data (2 of 2)

Variable & TD	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
NYPA_Employment	1,000	32	33	33	34	33	33	34	35	35	35	35	35
NYPA_GDP	\$ Millions	4,117	3,812	3,697	3,729	3,694	3,720	3,797	3,880	3,995	4,031	4,045	4,092
NYPA_Households	1,000	32	32	32	32	32	32	33	33	33	33	33	33
NYPA_Income-Real	\$ Millions	3,015	2,986	3,022	3,030	3,128	3,194	3,204	3,279	3,275	3,280	3,294	3,316
NYPA_Population	1,000	82	82	82	82	81	81	81	81	81	80	80	80
NYSEG_Employment	1,000	411	417	419	420	417	417	420	422	426	428	428	428
NYSEG_GDP	\$ Millions	48,939	48,853	49,052	48,870	48,744	48,539	48,616	49,250	50,445	51,110	51,463	52,389
NYSEG_Households	1,000	418	419	420	420	420	419	419	419	420	420	421	421
NYSEG_Income-Real	\$ Millions	40,036	40,829	41,087	40,637	41,624	42,076	42,425	43,379	43,507	43,671	43,751	44,079
NYSEG_Population	1,000	1,058	1,056	1,054	1,050	1,043	1,036	1,030	1,026	1,023	1,019	1,015	1,012
OR_Employment	1,000	254	257	258	263	268	273	278	285	291	294	296	297
OR_GDP	\$ Millions	32,468	32,015	32,086	32,391	33,147	33,782	34,292	35,466	36,738	37,410	38,034	38,948
OR_Households	1,000	227	228	228	229	231	232	233	235	237	239	241	243
OR_Income-Real	\$ Millions	31,901	32,602	32,844	32,948	34,080	34,801	35,323	36,312	36,863	37,571	37,743	38,146
OR_Population	1,000	688	690	692	695	698	700	703	706	708	709	712	716
RGE_Employment	1,000	491	497	500	502	505	509	513	516	519	521	521	522
RGE_GDP	\$ Millions	62,001	61,991	62,376	62,220	63,188	64,280	64,572	64,941	66,673	67,726	68,518	70,153
RGE_Households	1,000	422	424	426	428	429	430	431	432	433	435	436	437
RGE_Income-Real	\$ Millions	43,715	44,799	45,051	44,450	45,794	46,895	47,209	48,153	48,079	48,032	48,096	48,503
RGE_Population	1,000	1,055	1,055	1,055	1,054	1,051	1,047	1,044	1,043	1,042	1,040	1,038	1,037
Employment_NYCA	1,000	8,605	8,752	8,879	9,031	9,200	9,359	9,490	9,600	9,710	9,786	9,791	9,804
GDP_NYCA	\$ Millions	1,268,764	1,292,688	1,324,169	1,329,569	1,359,081	1,377,912	1,396,315	1,419,803	1,451,629	1,474,201	1,490,325	1,519,960
Households_NYCA	1,000	7,369	7,435	7,484	7,537	7,578	7,614	7,633	7,648	7,676	7,705	7,735	7,762
Income_NYCA	\$ Millions	1,013,952	1,047,654	1,065,708	1,076,573	1,117,166	1,150,270	1,180,122	1,226,284	1,244,217	1,244,781	1,248,162	1,261,662
Population_NYCA	1,000	19,446	19,536	19,602	19,644	19,661	19,656	19,621	19,567	19,528	19,512	19,507	19,508

Data is from Moody's Analytics, August 2019.



# Questions?

# The Mission of the New York Independent System Operator, in collaboration with its stakeholders, is to serve the public interest and provide benefits 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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