## NYISO CEO/COO Report

#### **Rob Fernandez**

Interim President & Chief Executive Officer

#### **Rick Gonzales**

Senior Vice President & Chief Operating Officer

#### **Management Committee Meeting**

March 27, 2019 Rensselaer, NY



## NYISO CEO/COO Report

### **CEO Report**

### **COO** Report

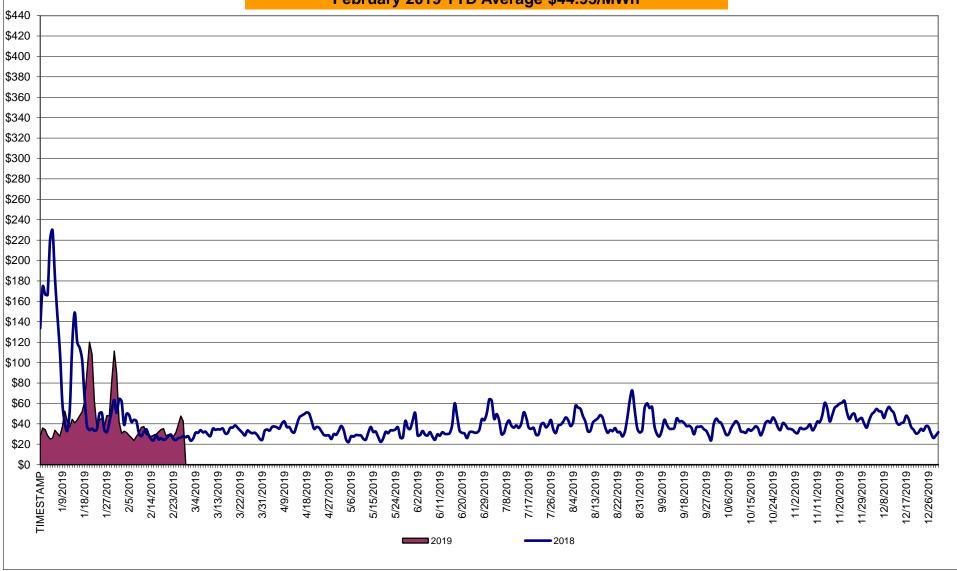
- Market Performance Highlights For Information Only
- Operations Performance Metrics Monthly Report



## Market Performance Highlights February 2019

- LBMP for February is \$33.51/MWh; lower than \$50.93/MWh in January 2019 and \$33.83/MWh in February 2018.
  - Day Ahead and Real Time Load Weighted LBMPs are lower compared to January.
- February 2019 average year-to-date monthly cost of \$44.93/MWh is a 38% decrease from \$72.85/MWh in February 2018.
- Average daily sendout is 436 GWh/day in February; lower than 449 GWh/day in January 2019 and higher than 426 GWh/day in February 2018.
- Natural gas were lower and distillate prices were higher compared to the previous month.
  - Natural Gas (Transco Z6 NY) was \$2.75/MMBtu, down from \$6.11/MMBtu in January.
  - Natural gas prices are down 12.4% year-over-year.
  - Jet Kerosene Gulf Coast was \$14.21/MMBtu, up from \$13.25/MMBtu in January.
  - Ultra Low Sulfur No.2 Diesel NY Harbor was \$14.02/MMBtu, up from \$13.20/MMBtu in January.
  - Distillate prices are up 2.4% year-over-year.
- Uplift per MWh is lower compared to the previous month.
  - Uplift (not including NYISO cost of operations) is (\$0.44)/MWh; lower than (\$0.25)/MWh in January.
    - Local Reliability Share is \$0.11/MWh, lower than \$0.32/MWh in January.
    - Statewide Share is (\$0.55)/MWh, higher than (\$0.57)/MWh in January.
  - TSA \$ per NYC MWh is \$0.00/MWh.
  - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are lower than January.

## Daily NYISO Average Cost/MWh (Energy & Ancillary Services)\* 2018 Annual Average \$44.92/MWh February 2018 YTD Average \$72.85/MWh February 2019 YTD Average \$44.93/MWh

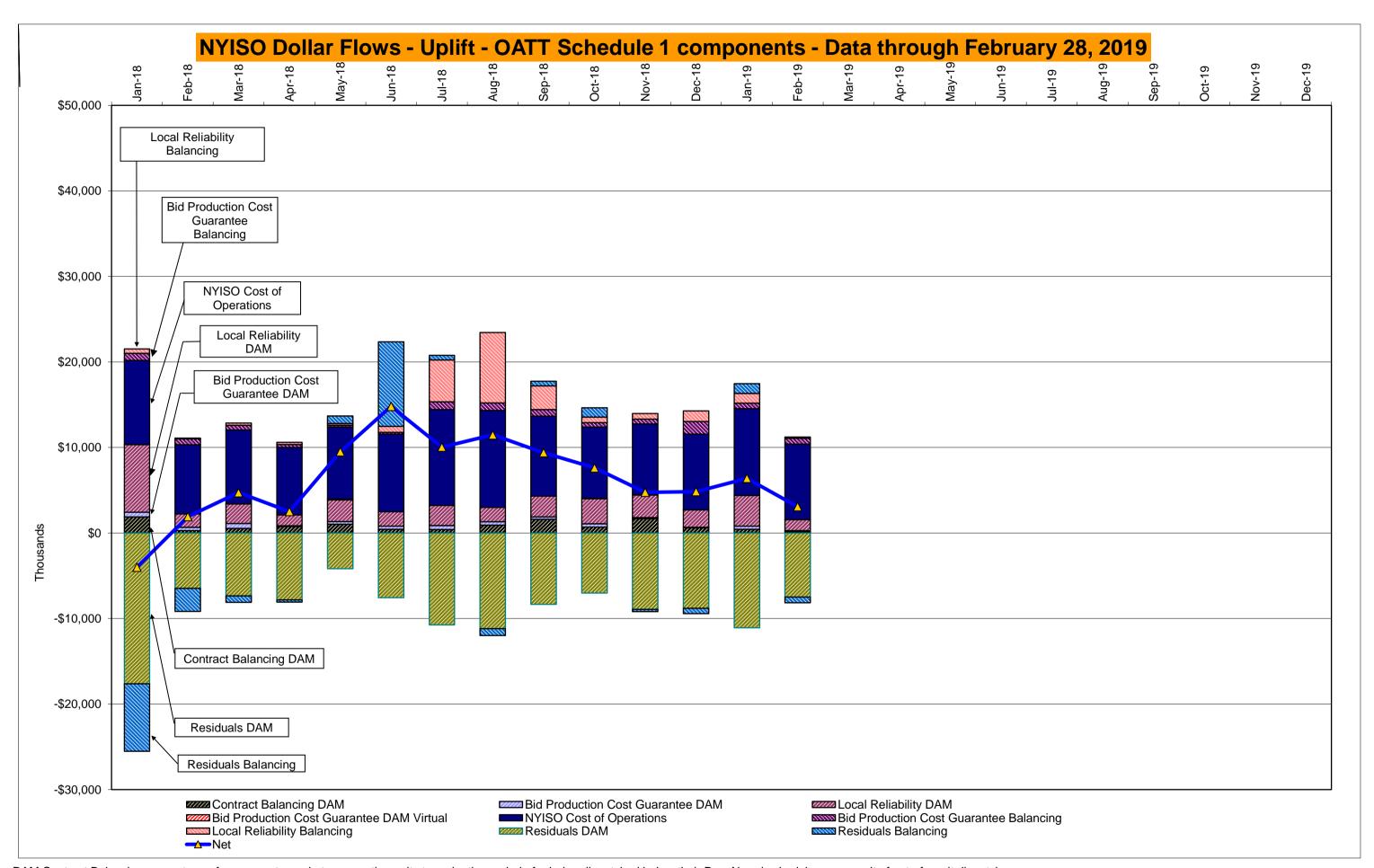


<sup>\*</sup> Excludes ICAP payments.

## NYISO Average Cost/MWh (Energy and Ancillary Services) \* from the LBMP Customer point of view

2019	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
LBMP	50.93	33.51										
NTAC	0.51	0.69										
Reserve	0.54	0.51										
Regulation	0.13	0.11										
NYISO Cost of Operations	0.68	0.68										
FERC Fee Recovery	0.08	0.09										
Uplift	(0.25)	(0.44)										
Uplift: Local Reliability Share	0.32	0.11										
Uplift: Statewide Share	(0.57)	(0.55)										
Voltage Support and Black Start _	0.37	0.37										
Avg Monthly Cost	52.99	35.51										
Avg YTD Cost	52.99	44.93										
TSA \$ per NYC MWh	0.00	0.00										
2018	Januarv	February	March	April	Mav	June	Julv	August	September	October	November	December
<b>2018</b> LBMP	<u>January</u> 99.55	February 33.83	<u>March</u> 29.91	<u>April</u> 35.00	<u>May</u> 28.78	<u>June</u> 32.53	<u>July</u> 39.58	<u>August</u> 42.56	September 38.70	October 35.85	November 43.15	December 40.31
LBMP	99.55	33.83	29.91	35.00	28.78	32.53	39.58	42.56	38.70	35.85	43.15	40.31
LBMP NTAC	99.55 0.71	33.83 0.58	29.91 0.88	35.00 1.09	28.78 0.88	32.53 1.00	39.58 0.93	42.56 0.72	38.70 0.40	35.85 0.36	43.15 1.18	40.31 0.93
LBMP NTAC Reserve	99.55	33.83	29.91	35.00	28.78	32.53	39.58	42.56	38.70	35.85	43.15	40.31
LBMP NTAC	99.55 0.71 0.92	33.83 0.58 0.65	29.91 0.88 0.64	35.00 1.09 0.81	28.78 0.88 0.68	32.53 1.00 0.57	39.58 0.93 0.49	42.56 0.72 0.51	38.70 0.40 0.52	35.85 0.36 0.80	43.15 1.18 0.66	40.31 0.93 0.54
LBMP NTAC Reserve Regulation	99.55 0.71 0.92 0.15	33.83 0.58 0.65 0.15	29.91 0.88 0.64 0.16	35.00 1.09 0.81 0.12	28.78 0.88 0.68 0.14	32.53 1.00 0.57 0.16	39.58 0.93 0.49 0.09	42.56 0.72 0.51 0.09	38.70 0.40 0.52 0.09	35.85 0.36 0.80 0.16	43.15 1.18 0.66 0.17	40.31 0.93 0.54 0.17
LBMP NTAC Reserve Regulation NYISO Cost of Operations	99.55 0.71 0.92 0.15 0.65	33.83 0.58 0.65 0.15 0.65	29.91 0.88 0.64 0.16 0.66	35.00 1.09 0.81 0.12 0.65	28.78 0.88 0.68 0.14 0.66	32.53 1.00 0.57 0.16 0.67	39.58 0.93 0.49 0.09 0.67	42.56 0.72 0.51 0.09 0.66	38.70 0.40 0.52 0.09 0.66	35.85 0.36 0.80 0.16 0.63	43.15 1.18 0.66 0.17 0.63	40.31 0.93 0.54 0.17 0.63
LBMP NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery	99.55 0.71 0.92 0.15 0.65 0.08	33.83 0.58 0.65 0.15 0.65 0.10	29.91 0.88 0.64 0.16 0.66 0.09	35.00 1.09 0.81 0.12 0.65 0.10	28.78 0.88 0.68 0.14 0.66 0.09	32.53 1.00 0.57 0.16 0.67 0.09	39.58 0.93 0.49 0.09 0.67 0.06	42.56 0.72 0.51 0.09 0.66 0.06	38.70 0.40 0.52 0.09 0.66 0.08	35.85 0.36 0.80 0.16 0.63 0.09	43.15 1.18 0.66 0.17 0.63 0.09	40.31 0.93 0.54 0.17 0.63 0.08
LBMP NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery Uplift	99.55 0.71 0.92 0.15 0.65 0.08 (0.92)	33.83 0.58 0.65 0.15 0.65 0.10 (0.50)	29.91 0.88 0.64 0.16 0.66 0.09 (0.31)	35.00 1.09 0.81 0.12 0.65 0.10 (0.45)	28.78 0.88 0.68 0.14 0.66 0.09	32.53 1.00 0.57 0.16 0.67 0.09 0.30	39.58 0.93 0.49 0.09 0.67 0.06 (0.13)	42.56 0.72 0.51 0.09 0.66 0.06 (0.02)	38.70 0.40 0.52 0.09 0.66 0.08 (0.11)	35.85 0.36 0.80 0.16 0.63 0.09 (0.30)	43.15 1.18 0.66 0.17 0.63 0.09 (0.27)	40.31 0.93 0.54 0.17 0.63 0.08 (0.29)
LBMP NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery Uplift Uplift: Local Reliability Share	99.55 0.71 0.92 0.15 0.65 0.08 (0.92) 0.59	33.83 0.58 0.65 0.15 0.65 0.10 (0.50) 0.14	29.91 0.88 0.64 0.16 0.66 0.09 (0.31) 0.19	35.00 1.09 0.81 0.12 0.65 0.10 (0.45) 0.12	28.78 0.88 0.68 0.14 0.66 0.09 0.05 0.22	32.53 1.00 0.57 0.16 0.67 0.09 0.30 0.18	39.58 0.93 0.49 0.09 0.67 0.06 (0.13) 0.44	42.56 0.72 0.51 0.09 0.66 0.06 (0.02) 0.59	38.70 0.40 0.52 0.09 0.66 0.08 (0.11) 0.37	35.85 0.36 0.80 0.16 0.63 0.09 (0.30) 0.27	43.15 1.18 0.66 0.17 0.63 0.09 (0.27) 0.25	40.31 0.93 0.54 0.17 0.63 0.08 (0.29) 0.23
LBMP NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery Uplift Uplift: Local Reliability Share Uplift: Statewide Share	99.55 0.71 0.92 0.15 0.65 0.08 (0.92) 0.59 (1.52)	33.83 0.58 0.65 0.15 0.65 0.10 (0.50) 0.14 (0.64)	29.91 0.88 0.64 0.16 0.66 0.09 (0.31) 0.19 (0.51)	35.00 1.09 0.81 0.12 0.65 0.10 (0.45) 0.12 (0.57)	28.78 0.88 0.68 0.14 0.66 0.09 0.05 0.22 (0.17)	32.53 1.00 0.57 0.16 0.67 0.09 0.30 0.18 0.12	39.58 0.93 0.49 0.09 0.67 0.06 (0.13) 0.44 (0.57)	42.56 0.72 0.51 0.09 0.66 0.06 (0.02) 0.59 (0.61)	38.70 0.40 0.52 0.09 0.66 0.08 (0.11) 0.37 (0.48)	35.85 0.36 0.80 0.16 0.63 0.09 (0.30) 0.27 (0.56)	43.15 1.18 0.66 0.17 0.63 0.09 (0.27) 0.25 (0.52)	40.31 0.93 0.54 0.17 0.63 0.08 (0.29) 0.23 (0.52)
LBMP NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery Uplift Uplift: Local Reliability Share Uplift: Statewide Share Voltage Support and Black Start	99.55 0.71 0.92 0.15 0.65 0.08 (0.92) 0.59 (1.52) 0.40	33.83 0.58 0.65 0.15 0.65 0.10 (0.50) 0.14 (0.64) 0.41	29.91 0.88 0.64 0.16 0.66 0.09 (0.31) 0.19 (0.51) 0.42	35.00 1.09 0.81 0.12 0.65 0.10 (0.45) 0.12 (0.57) 0.41	28.78 0.88 0.68 0.14 0.66 0.09 0.05 0.22 (0.17) 0.42	32.53 1.00 0.57 0.16 0.67 0.09 0.30 0.18 0.12 0.42	39.58 0.93 0.49 0.09 0.67 0.06 (0.13) 0.44 (0.57) 0.42	42.56 0.72 0.51 0.09 0.66 0.06 (0.02) 0.59 (0.61) 0.42	38.70 0.40 0.52 0.09 0.66 0.08 (0.11) 0.37 (0.48) 0.42	35.85 0.36 0.80 0.16 0.63 0.09 (0.30) 0.27 (0.56) 0.40	43.15 1.18 0.66 0.17 0.63 0.09 (0.27) 0.25 (0.52) 0.40	40.31 0.93 0.54 0.17 0.63 0.08 (0.29) 0.23 (0.52) 0.40

<sup>\*</sup> Excludes ICAP payments. Market Mitigation and Analysis Prepared: 3/8/2019 2:23 PM



DAM Contract Balancing amounts are for payments made to generating units to make them whole for being dispatched below their Day-Ahead schedule, as a result of out-of-merit dispatches.

DAM Bid Production Cost Guarantees for Virtual Transactions are included in the chart and are shown from the inception of Virtual Transactions. These values are small and cannot be identified on the chart.

DAM residuals consist of both energy and loss revenue collections and payments. By design, there is a net over collection of revenues due to the difference between the marginal losses paid to generation and the average losses charged to loads.

#### **NYISO Markets Transactions**

<u>2019</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
Day Ahead Market MWh	15,299,458	13,391,383										
DAM LSE Internal LBMP Energy Sales	57%	57%										
DAM External TC LBMP Energy Sales	6%	5%										
DAM Bilateral - Internal Bilaterals	29%	30%										
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	5%	5%										
DAM Bilateral - Export/Non-LBMP Market Bilaterals	1%	1%										
DAM Bilateral - Wheel Through Bilaterals	2%	2%										
Balancing Energy Market MWh	-322,442	-323,188										
Balancing Energy LSE Internal LBMP Energy Sales	-120%	-126%										
Balancing Energy External TC LBMP Energy Sales	65%	67%										
Balancing Energy Bilateral - Internal Bilaterals	-4%	-1%										
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	0%	0%										
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	3%	7%										
Balancing Energy Bilateral - Wheel Through Bilaterals	-45%	-47%										
Transactions Summary												
LBMP	63%	62%										
Internal Bilaterals	29%	30%										
Import Bilaterals	5%	5%										
Export Bilaterals	1%	2%										
Wheels Through	1%	1%										
Market Share of Total Load												
Day Ahead Market	102.2%	102.5%										
Balancing Energy +	-2.2%	-2.5%										
Total MWH												
Average Daily Energy Sendout/Month GWh	449	436										
Average Daily Ellergy Selidod/Month SWIT	443	430										
<u>2018</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
2018 Day Ahead Market MWh	<u>January</u> 15,153,751	<u>February</u> 12,643,854	<u>March</u> 13,521,386	<u>April</u> 12,158,686	<u>May</u> 12,721,073	<u>June</u> 13,983,384	<u>July</u> 16,839,994	<u>August</u> 17,195,447	<u>September</u> 14,432,632	October 13,548,828	<u>November</u> 13,506,134	<u>December</u> 14,450,460
	<u></u> _	<u></u>	·			<u> </u>	-					<u> </u>
Day Ahead Market MWh	15,153,751	12,643,854	13,521,386	12,158,686	12,721,073	13,983,384	16,839,994	17,195,447	14,432,632	13,548,828	13,506,134	14,450,460
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales	15,153,751 59%	12,643,854 57%	13,521,386 58%	12,158,686 60%	12,721,073 61%	13,983,384 61%	16,839,994 65%	17,195,447 65%	14,432,632 61%	13,548,828 57%	13,506,134 58%	14,450,460 56%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales	15,153,751 59% 4%	12,643,854 57% 3%	13,521,386 58% 2%	12,158,686 60% 2%	12,721,073 61% 2%	13,983,384 61% 1%	16,839,994 65% 1%	17,195,447 65% 2%	14,432,632 61% 3%	13,548,828 57% 6%	13,506,134 58% 6%	14,450,460 56% 6%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals	15,153,751 59% 4% 29%	12,643,854 57% 3% 31%	13,521,386 58% 2% 32%	12,158,686 60% 2% 30%	12,721,073 61% 2% 29%	13,983,384 61% 1% 30%	16,839,994 65% 1% 26%	17,195,447 65% 2% 25%	14,432,632 61% 3% 28%	13,548,828 57% 6% 29%	13,506,134 58% 6% 30%	14,450,460 56% 6% 30%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals	15,153,751 59% 4% 29% 5%	12,643,854 57% 3% 31% 5%	13,521,386 58% 2% 32% 5%	12,158,686 60% 2% 30% 5%	12,721,073 61% 2% 29% 5%	13,983,384 61% 1% 30% 5%	16,839,994 65% 1% 26% 4%	17,195,447 65% 2% 25% 4%	14,432,632 61% 3% 28% 5%	13,548,828 57% 6% 29% 5%	13,506,134 58% 6% 30% 2%	14,450,460 56% 6% 30% 5% 2%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals	15,153,751 59% 4% 29% 5% 2% 1%	12,643,854 57% 3% 31% 5% 2% 2%	13,521,386 58% 2% 32% 5% 2% 2%	12,158,686 60% 2% 30% 5% 2% 2%	12,721,073 61% 2% 29% 5% 2% 2%	13,983,384 61% 1% 30% 5% 1% 2%	16,839,994 65% 1% 26% 4% 1% 2%	17,195,447 65% 2% 25% 4% 1% 2%	14,432,632 61% 3% 28% 5% 1% 2%	13,548,828 57% 6% 29% 5% 2% 1%	13,506,134 58% 6% 30% 2% 2% 1%	14,450,460 56% 6% 30% 5% 2% 2%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh	15,153,751 59% 4% 29% 5% 2% 1% -149,619	12,643,854 57% 3% 31% 5% 2% 2% -299,377	13,521,386 58% 2% 32% 5% 2% 2% -386,811	12,158,686 60% 2% 30% 5% 2% 2% -72,862	12,721,073 61% 2% 29% 5% 2% 2% -29,539	13,983,384 61% 1% 30% 5% 1% 2% -354,112	16,839,994 65% 1% 26% 4% 1% 2% -80,438	17,195,447 65% 2% 25% 4% 1% 2% -44,732	14,432,632 61% 3% 28% 5% 1% 2% -210,436	13,548,828 57% 6% 29% 5% 2% 1% -314,885	13,506,134 58% 6% 30% 2% 2% 1% -304,277	14,450,460 56% 6% 30% 5% 2% 2% -428,748
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales	15,153,751 59% 4% 29% 5% 2% 1% -149,619 -147%	12,643,854 57% 3% 31% 5% 2% 2% -299,377 -101%	13,521,386 58% 2% 32% 5% 2% 2% -386,811 -128%	12,158,686 60% 2% 30% 5% 2% 2% -72,862 -208%	12,721,073 61% 2% 29% 5% 2% 2% -29,539 -458%	13,983,384 61% 1% 30% 5% 1% 2% -354,112 -113%	16,839,994 65% 1% 26% 4% 1% 2% -80,438 -123%	17,195,447 65% 2% 25% 4% 1% 2% -44,732 -75%	14,432,632 61% 3% 28% 5% 1% 2% -210,436 -82%	13,548,828 57% 6% 29% 5% 2% 1% -314,885 -105%	13,506,134 58% 6% 30% 2% 2% 1% -304,277 -100%	14,450,460 56% 6% 30% 5% 2% 2% -428,748 -94%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales	15,153,751 59% 4% 29% 5% 2% 1% -149,619 -147% 74%	12,643,854 57% 3% 31% 5% 2% 2% -299,377 -101% 24%	13,521,386 58% 2% 32% 5% 2% 2% -386,811 -128% 37%	12,158,686 60% 2% 30% 5% 2% 2% -72,862 -208% 189%	12,721,073 61% 2% 29% 5% 2% 2% -29,539 -458% 564%	13,983,384 61% 1% 30% 5% 1% 2% -354,112 -113% 29%	16,839,994 65% 1% 26% 4% 1% 2% -80,438 -123% 129%	17,195,447 65% 2% 25% 4% 1% 2% -44,732 -75% 209%	14,432,632 61% 3% 28% 5% 1% 2% -210,436 -82% 14%	13,548,828 57% 6% 29% 5% 2% 1% -314,885 -105% 30%	13,506,134 58% 6% 30% 2% 2% 1% -304,277 -100% 18%	14,450,460 56% 6% 30% 5% 2% 2% -428,748 -94% 27%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals	15,153,751 59% 4% 29% 5% 2% 1% -149,619 -147% 74% 9%	12,643,854 57% 3% 31% 5% 2% 2% -299,377 -101% 24% 5%	13,521,386 58% 2% 32% 5% 2% 2% -386,811 -128% 37% 0%	12,158,686 60% 2% 30% 5% 2% 2% -72,862 -208% 189% -11%	12,721,073 61% 2% 29% 5% 2% 2% -29,539 -458% 564% 29%	13,983,384 61% 1% 30% 5% 1% 2% -354,112 -113% 29% 5%	16,839,994 65% 1% 26% 4% 1% 2% -80,438 -123% 129% 18%	17,195,447 65% 2% 25% 4% 1% 2% -44,732 -75% 209% 23%	14,432,632 61% 3% 28% 5% 1% 2% -210,436 -82% 14% 7%	13,548,828 57% 6% 29% 5% 2% 1% -314,885 -105% 30% 2%	13,506,134 58% 6% 30% 2% 2% 1% -304,277 -100% 18% 3%	14,450,460 56% 6% 30% 5% 2% 2% -428,748 -94% 27% 3%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	15,153,751 59% 4% 29% 5% 2% 1% -149,619 -147% 74% 9% 0%	12,643,854 57% 3% 31% 5% 2% 2% -299,377 -101% 24% 5% 0%	13,521,386 58% 2% 32% 5% 2% 2% -386,811 -128% 37% 0% 0%	12,158,686 60% 2% 30% 5% 2% 2% -72,862 -208% 189% -11% 0%	12,721,073 61% 2% 29% 5% 2% 2% -29,539 -458% 564% 29% 0%	13,983,384 61% 1% 30% 5% 1% 2% -354,112 -113% 29% 5% 0%	16,839,994 65% 1% 26% 4% 1% 2% -80,438 -123% 129% 18% 0%	17,195,447 65% 2% 25% 4% 1% 2% -44,732 -75% 209% 23% 0%	14,432,632 61% 3% 28% 5% 1% 2% -210,436 -82% 14% 7% 0%	13,548,828 57% 6% 29% 5% 2% 1% -314,885 -105% 30% 2% 0%	13,506,134 58% 6% 30% 2% 2% 1% -304,277 -100% 18% 3% 10%	14,450,460 56% 6% 30% 5% 2% 2% -428,748 -94% 27% 3% 0%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	15,153,751 59% 4% 29% 5% 2% 1% -149,619 -147% 74% 9% 0% 22%	12,643,854 57% 3% 31% 5% 2% 2% -299,377 -101% 24% 5% 0% 9%	13,521,386 58% 2% 32% 5% 2% 2% -386,811 -128% 37% 0% 0% 6%	12,158,686 60% 2% 30% 5% 2% 2% -72,862 -208% 189% -11% 0% 34%	12,721,073 61% 2% 29% 5% 2% 2% -29,539 -458% 564% 29% 0% 51%	13,983,384 61% 1% 30% 5% 1% 2% -354,112 -113% 29% 5% 0% 3%	16,839,994 65% 1% 26% 4% 1% 2% -80,438 -123% 129% 18% 0% 14%	17,195,447 65% 2% 25% 4% 1% 2% -44,732 -75% 209% 23% 0% 25%	14,432,632 61% 3% 28% 5% 1% 2% -210,436 -82% 14% 7% 0% 3%	13,548,828 57% 6% 29% 5% 2% 1% -314,885 -105% 30% 2% 0% 0%	13,506,134 58% 6% 30% 2% 2% 1% -304,277 -100% 18% 3% 10% 0%	14,450,460 56% 6% 30% 5% 2% 2% -428,748 -94% 27% 3% 0% 0%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals	15,153,751 59% 4% 29% 5% 2% 1% -149,619 -147% 74% 9% 0%	12,643,854 57% 3% 31% 5% 2% 2% -299,377 -101% 24% 5% 0%	13,521,386 58% 2% 32% 5% 2% 2% -386,811 -128% 37% 0% 0%	12,158,686 60% 2% 30% 5% 2% 2% -72,862 -208% 189% -11% 0%	12,721,073 61% 2% 29% 5% 2% 2% -29,539 -458% 564% 29% 0%	13,983,384 61% 1% 30% 5% 1% 2% -354,112 -113% 29% 5% 0%	16,839,994 65% 1% 26% 4% 1% 2% -80,438 -123% 129% 18% 0%	17,195,447 65% 2% 25% 4% 1% 2% -44,732 -75% 209% 23% 0%	14,432,632 61% 3% 28% 5% 1% 2% -210,436 -82% 14% 7% 0%	13,548,828 57% 6% 29% 5% 2% 1% -314,885 -105% 30% 2% 0%	13,506,134 58% 6% 30% 2% 2% 1% -304,277 -100% 18% 3% 10%	14,450,460 56% 6% 30% 5% 2% 2% -428,748 -94% 27% 3% 0%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary	15,153,751 59% 4% 29% 5% 2% 1% -149,619 -147% 74% 9% 0% 22% -58%	12,643,854 57% 3% 31% 5% 2% 2% -299,377 -101% 24% 5% 0% 9% -36%	13,521,386 58% 2% 32% 5% 2% 2% -386,811 -128% 37% 0% 6% -15%	12,158,686 60% 2% 30% 5% 2% 2% -72,862 -208% 189% -11% 0% 34% -103%	12,721,073 61% 2% 29% 5% 2% 2% -29,539 -458% 564% 29% 0% 51% -287%	13,983,384 61% 1% 30% 5% 1% 2% -354,112 -113% 29% 5% 0% 3% -23%	16,839,994 65% 1% 26% 4% 1% 2% -80,438 -123% 129% 18% 0% 14% -138%	17,195,447 65% 2% 25% 4% 1% 2% -44,732 -75% 209% 23% 0% 25% -281%	14,432,632 61% 3% 28% 5% 1% 2% -210,436 -82% 14% 7% 0% 3% -42%	13,548,828 57% 6% 29% 5% 2% 1% -314,885 -105% 30% 2% 0% 0% -27%	13,506,134 58% 6% 30% 2% 2% 1% -304,277 -100% 18% 3% 10% 0% -31%	14,450,460 56% 6% 30% 5% 2% 2% -428,748 -94% 27% 3% 0% 0% -36%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP	15,153,751 59% 4% 29% 5% 2% 1% -149,619 -147% 74% 9% 0% 22% -58%	12,643,854 57% 3% 31% 5% 2% 2% -299,377 -101% 24% 5% 0% 9% -36%	13,521,386 58% 2% 32% 5% 2% 2% -386,811 -128% 37% 0% 6% -15%	12,158,686 60% 2% 30% 5% 2% 2% -72,862 -208% 189% -11% 0% 34% -103%	12,721,073 61% 2% 29% 5% 2% 2% -29,539 -458% 564% 29% 0% 51% -287%	13,983,384 61% 1% 30% 5% 1% 2% -354,112 -113% 29% 5% 0% 3% -23%	16,839,994 65% 1% 26% 4% 1% 2% -80,438 -123% 129% 18% 0% 14% -138%	17,195,447 65% 2% 25% 4% 1% 2% -44,732 -75% 209% 23% 0% 25% -281%	14,432,632 61% 3% 28% 5% 1% 22% -210,436 -82% 14% 7% 0% 3% -42%	13,548,828 57% 6% 29% 5% 2% 1% -314,885 -105% 30% 2% 0% 0% 0% -27%	13,506,134 58% 6% 30% 2% 2% 1% -304,277 -100% 18% 3% 10% 0% -31%	14,450,460 56% 6% 30% 5% 2% 2% -428,748 -94% 27% 3% 0% 0% -36%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP  Internal Bilaterals	15,153,751 59% 4% 29% 5% 2% 1% -149,619 -147% 74% 9% 0% 22% -58%	12,643,854 57% 3% 31% 5% 2% 2% -299,377 -101% 24% 5% 0% 9% -36% 59% 32%	13,521,386 58% 2% 32% 5% 2% 2% -386,811 -128% 37% 0% 6% -15%	12,158,686 60% 2% 30% 5% 2% 2% -72,862 -208% 189% -11% 0% 34% -103%	12,721,073 61% 2% 29% 5% 2% 2% -29,539 -458% 564% 29% 0% 51% -287%	13,983,384 61% 1% 30% 5% 1% 2% -354,112 -113% 29% 5% 0% 3% -23% 61% 31%	16,839,994 65% 1% 26% 4% 1% 2% -80,438 -123% 129% 18% 0% 14% -138%	17,195,447 65% 2% 25% 4% 1% 2% -44,732 -75% 209% 23% 0% 25% -281%	14,432,632 61% 3% 28% 5% 1% 2% -210,436 -82% 14% 7% 0% 3% -42%	13,548,828 57% 6% 29% 5% 2% 1% -314,885 -105% 30% 2% 0% 0% -27% 63% 30%	13,506,134 58% 6% 30% 2% 2% 1% -304,277 -100% 18% 3% 10% 0% -31%	14,450,460 56% 6% 30% 5% 2% 2% -428,748 -94% 27% 3% 0% -36%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP  Internal Bilaterals  Import Bilaterals	15,153,751 59% 4% 29% 5% 2% 1% -149,619 -147% 74% 9% 0% 22% -58%	12,643,854 57% 3% 31% 5% 2% 2% -299,377 -101% 24% 5% 0% 9% -36% 59% 32% 5%	13,521,386 58% 2% 32% 5% 2% 2% -386,811 -128% 37% 0% 6% -15% 59% 33% 6%	12,158,686 60% 2% 30% 5% 2% 2% -72,862 -208% 189% -11% 0% 34% -103% 62% 30% 5%	12,721,073 61% 2% 29% 5% 2% 2% -29,539 -458% 564% 29% 0% 51% -287%	13,983,384 61% 1% 30% 5% 1% 2% -354,112 -113% 29% 5% 0% 3% -23% 61% 31% 5%	16,839,994 65% 1% 26% 4% 1% 2% -80,438 -123% 129% 18% 0% 14% -138%	17,195,447 65% 2% 25% 4% 1% 2% -44,732 -75% 209% 23% 0% 25% -281% 68% 25% 4%	14,432,632 61% 3% 28% 5% 1% 22% -210,436 -82% 14% 7% 0% 3% -42% 64% 28% 5%	13,548,828 57% 6% 29% 5% 2% 1% -314,885 -105% 30% 2% 0% 0% 0% -27% 63% 30% 5%	13,506,134 58% 6% 30% 2% 2% 1% -304,277 -100% 18% 3% 10% 0% -31% 64% 31% 3%	14,450,460 56% 6% 30% 5% 2% 2% -428,748 -94% 27% 3% 0% 0% -36% 61% 31% 5%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP Internal Bilaterals Import Bilaterals Export Bilaterals	15,153,751 59% 4% 29% 5% 2% 1% -149,619 -147% 74% 9% 0% 22% -58% 63% 30% 5% 2%	12,643,854 57% 3% 31% 5% 2% 2% -299,377 -101% 24% 5% 0% 9% -36% 59% 32% 5% 2%	13,521,386 58% 2% 32% 5% 2% 2% 2% -386,811 -128% 37% 0% 6% -15% 59% 33% 6% 2%	12,158,686 60% 2% 30% 5% 2% 2% -72,862 -208% 189% -11% 0% 34% -103% 62% 30% 5% 2%	12,721,073 61% 2% 29% 5% 2% 2% -29,539 -458% 564% 29% 0% 51% -287%	13,983,384 61% 1% 30% 5% 1% 2% -354,112 -113% 29% 5% 0% 3% -23% 61% 31% 5% 1%	16,839,994 65% 1% 26% 4% 1% 2% -80,438 -123% 129% 18% 0% 14% -138% 66% 27% 4% 1%	17,195,447 65% 2% 25% 4% 1% 2% -44,732 -75% 209% 23% 0% 25% -281% 68% 25% 4% 1%	14,432,632 61% 3% 28% 5% 1% 22% -210,436 -82% 14% 7% 0% 3% -42% 64% 28% 5% 1%	13,548,828 57% 6% 29% 5% 2% 1% -314,885 -105% 30% 2% 0% 0% -27% 63% 30% 5% 2%	13,506,134 58% 6% 30% 2% 2% 1% -304,277 -100% 18% 3% 10% 0% -31% 64% 31% 3% 2%	14,450,460 56% 6% 30% 5% 2% 2% -428,748 -94% 27% 3% 0% -36% 61% 31% 5% 2%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary LBMP Internal Bilaterals Import Bilaterals Export Bilaterals Wheels Through	15,153,751 59% 4% 29% 5% 2% 1% -149,619 -147% 74% 9% 0% 22% -58%	12,643,854 57% 3% 31% 5% 2% 2% -299,377 -101% 24% 5% 0% 9% -36% 59% 32% 5%	13,521,386 58% 2% 32% 5% 2% 2% -386,811 -128% 37% 0% 6% -15% 59% 33% 6%	12,158,686 60% 2% 30% 5% 2% 2% -72,862 -208% 189% -11% 0% 34% -103% 62% 30% 5%	12,721,073 61% 2% 29% 5% 2% 2% -29,539 -458% 564% 29% 0% 51% -287%	13,983,384 61% 1% 30% 5% 1% 2% -354,112 -113% 29% 5% 0% 3% -23% 61% 31% 5%	16,839,994 65% 1% 26% 4% 1% 2% -80,438 -123% 129% 18% 0% 14% -138%	17,195,447 65% 2% 25% 4% 1% 2% -44,732 -75% 209% 23% 0% 25% -281% 68% 25% 4%	14,432,632 61% 3% 28% 5% 1% 22% -210,436 -82% 14% 7% 0% 3% -42% 64% 28% 5%	13,548,828 57% 6% 29% 5% 2% 1% -314,885 -105% 30% 2% 0% 0% 0% -27% 63% 30% 5%	13,506,134 58% 6% 30% 2% 2% 1% -304,277 -100% 18% 3% 10% 0% -31% 64% 31% 3%	14,450,460 56% 6% 30% 5% 2% 2% -428,748 -94% 27% 3% 0% 0% -36% 61% 31% 5%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary LBMP Internal Bilaterals Import Bilaterals Export Bilaterals Wheels Through  Market Share of Total Load	15,153,751 59% 4% 29% 5% 2% 1% -149,619 -147% 74% 9% 0% 22% -58% 63% 30% 5% 2% 1%	12,643,854 57% 3% 31% 5% 2% 2% -299,377 -101% 24% 5% 0% 9% -36% 59% 32% 5% 2% 1%	13,521,386 58% 2% 32% 5% 2% 2% -386,811 -128% 37% 0% 6% -15% 59% 33% 6% 2% 1%	12,158,686 60% 2% 30% 5% 2% 2% -72,862 -208% 189% -11% 0% 34% -103% 62% 30% 5% 2% 1%	12,721,073 61% 29% 5% 29% -29,539 -458% 564% 29% 0% 51% -287% 63% 29% 5% 2% 1%	13,983,384 61% 1% 30% 5% 1% 2% -354,112 -113% 29% 5% 0% 3% -23% 61% 31% 5% 1% 2%	16,839,994 65% 1% 26% 4% 1% 2% -80,438 -123% 129% 18% 0% 14% -138% 66% 27% 4% 1%	17,195,447 65% 2% 25% 4% 1% 2% -44,732 -75% 209% 23% 0% 25% -281% 68% 25% 4% 1% 1%	14,432,632 61% 3% 28% 5% 1% 22% -210,436 -82% 14% 7% 0% 3% -42% 64% 28% 5% 1% 2%	13,548,828 57% 6% 29% 5% 2% 1% -314,885 -105% 30% 2% 0% 0% -27% 63% 30% 5% 2% 1%	13,506,134 58% 6% 30% 2% 2% 1% -304,277 -100% 18% 3% 10% 0% -31% 64% 31% 3% 2% 1%	14,450,460 56% 6% 30% 5% 2% 2% -428,748 -94% 27% 3% 0% 0% -36% 61% 31% 5% 2% 1%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP  Internal Bilaterals  Import Bilaterals  Export Bilaterals  Export Bilaterals  Mheels Through  Market Share of Total Load  Day Ahead Market	15,153,751 59% 4% 29% 5% 2% 1% -149,619 -147% 74% 9% 0% 22% -58% 63% 30% 5% 2% 1%	12,643,854 57% 3% 31% 5% 2% 2% -299,377 -101% 24% 5% 0% 9% -36% 59% 32% 5% 2% 1%	13,521,386 58% 2% 32% 5% 2% 2% -386,811 -128% 37% 0% 6% -15% 59% 33% 6% 2% 1%	12,158,686 60% 2% 30% 5% 2% 2% -72,862 -208% 189% -11% 0% 34% -103% 62% 30% 5% 2% 1%	12,721,073 61% 2% 29% 5% 2% 2% -29,539 -458% 564% 29% 0% 51% -287% 63% 29% 5% 2% 1%	13,983,384 61% 1% 30% 5% 1% 2% -354,112 -113% 29% 5% 0% 3% -23% 61% 31% 5% 1% 2%	16,839,994 65% 1% 26% 4% 1% 2% -80,438 -123% 129% 18% 0% 14% -138% 66% 27% 4% 1% 1%	17,195,447 65% 2% 25% 4% 1% 2% -44,732 -75% 209% 23% 0% 25% -281% 68% 25% 4% 1% 1%	14,432,632 61% 3% 28% 5% 1% 2% -210,436 -82% 14% 7% 0% 3% -42% 64% 28% 5% 1% 2%	13,548,828 57% 6% 29% 5% 2% 1% -314,885 -105% 30% 2% 0% 0% -27% 63% 30% 5% 2% 1%	13,506,134 58% 6% 30% 2% 2% 1% -304,277 -100% 18% 3% 10% 0% -31% 64% 31% 3% 2% 1%	14,450,460 56% 6% 30% 5% 2% 2% -428,748 -94% 27% 3% 0% -36% 61% 31% 5% 2% 1%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP  Internal Bilaterals  Import Bilaterals  Export Bilaterals  Export Bilaterals  Wheels Through  Market Share of Total Load  Day Ahead Market  Balancing Energy +	15,153,751 59% 4% 29% 5% 2% 1% -149,619 -147% 74% 9% 0% 22% -58% 63% 30% 5% 2% 1%	12,643,854 57% 3% 31% 5% 2% 2% -299,377 -101% 24% 5% 0% 9% -36% 59% 32% 5% 2% 1% 102.4% -2.4%	13,521,386 58% 2% 32% 5% 2% 2% -386,811 -128% 37% 0% 6% -15% 59% 33% 6% 2% 1% 102.9% -2.9%	12,158,686 60% 2% 30% 5% 2% 2% -72,862 -208% 189% -11% 0% 34% -103% 62% 30% 5% 2% 1% 100.6% -0.6%	12,721,073 61% 29% 5% 29% -29,539 -458% 564% 29% 0% 51% -287% 63% 29% 5% 2% 1% 100.2% -0.2%	13,983,384 61% 1% 30% 5% 1% 2% -354,112 -113% 29% 5% 0% 3% -23% 61% 31% 5% 1% 2%  102.6% -2.6%	16,839,994 65% 1% 26% 4% 1% 2% -80,438 -123% 129% 18% 0% 14% -138% 66% 27% 4% 1% 1% 1% 100.5% -0.5%	17,195,447 65% 2% 25% 4% 1% 2% -44,732 -75% 209% 23% 0% 25% -281% 68% 25% 4% 1% 1% 1%	14,432,632 61% 3% 28% 5% 1% 22% -210,436 -82% 14% 7% 0% 3% -42% 64% 28% 5% 1% 2%	13,548,828 57% 6% 29% 5% 2% 1% -314,885 -105% 30% 2% 0% 0% -27% 63% 30% 5% 2% 1% 102.4% -2.4%	13,506,134 58% 6% 30% 2% 2% 1% -304,277 -100% 18% 3% 10% 0% -31% 64% 31% 34% 24% 1% 102.3% -2.3%	14,450,460 56% 6% 30% 5% 2% 2% -428,748 -94% 27% 3% 0% 0% -36% 61% 31% 5% 2% 1% 103.1% -3.1%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP  Internal Bilaterals  Import Bilaterals  Export Bilaterals  Export Bilaterals  Mheels Through  Market Share of Total Load  Day Ahead Market	15,153,751 59% 4% 29% 5% 2% 1% -149,619 -147% 74% 9% 0% 22% -58% 63% 30% 5% 2% 1%	12,643,854 57% 3% 31% 5% 2% 2% -299,377 -101% 24% 5% 0% 9% -36% 59% 32% 5% 2% 1%	13,521,386 58% 2% 32% 5% 2% 2% -386,811 -128% 37% 0% 6% -15% 59% 33% 6% 2% 1%	12,158,686 60% 2% 30% 5% 2% 2% -72,862 -208% 189% -11% 0% 34% -103% 62% 30% 5% 2% 1%	12,721,073 61% 2% 29% 5% 2% 2% -29,539 -458% 564% 29% 0% 51% -287% 63% 29% 5% 2% 1%	13,983,384 61% 1% 30% 5% 1% 2% -354,112 -113% 29% 5% 0% 3% -23% 61% 31% 5% 1% 2%	16,839,994 65% 1% 26% 4% 1% 2% -80,438 -123% 129% 18% 0% 14% -138% 66% 27% 4% 1% 1%	17,195,447 65% 2% 25% 4% 1% 2% -44,732 -75% 209% 23% 0% 25% -281% 68% 25% 4% 1% 1%	14,432,632 61% 3% 28% 5% 1% 22% -210,436 -82% 14% 7% 0% 3% -42% 64% 28% 5% 1% 2%	13,548,828 57% 6% 29% 5% 2% 1% -314,885 -105% 30% 2% 0% 0% -27% 63% 30% 5% 2% 1%	13,506,134 58% 6% 30% 2% 2% 1% -304,277 -100% 18% 3% 10% 0% -31% 64% 31% 3% 2% 1%	14,450,460 56% 6% 30% 5% 2% 2% -428,748 -94% 27% 3% 0% -36% 61% 31% 5% 2% 1%

<sup>+</sup> Balancing Energy: Load(MW) purchased at Real Time LBMP.

Market Mitigation and Analysis Prepared: 3/8/2019 2:24 PM Notes: Percent totals may not equal 100% due to rounding.
Virtual Transactions are not reflected in this chart.

<sup>\*</sup> The signs for the detail section intuitively reflect the direction of power flow eliminating the use of double negatives when Balancing Energy is negative.

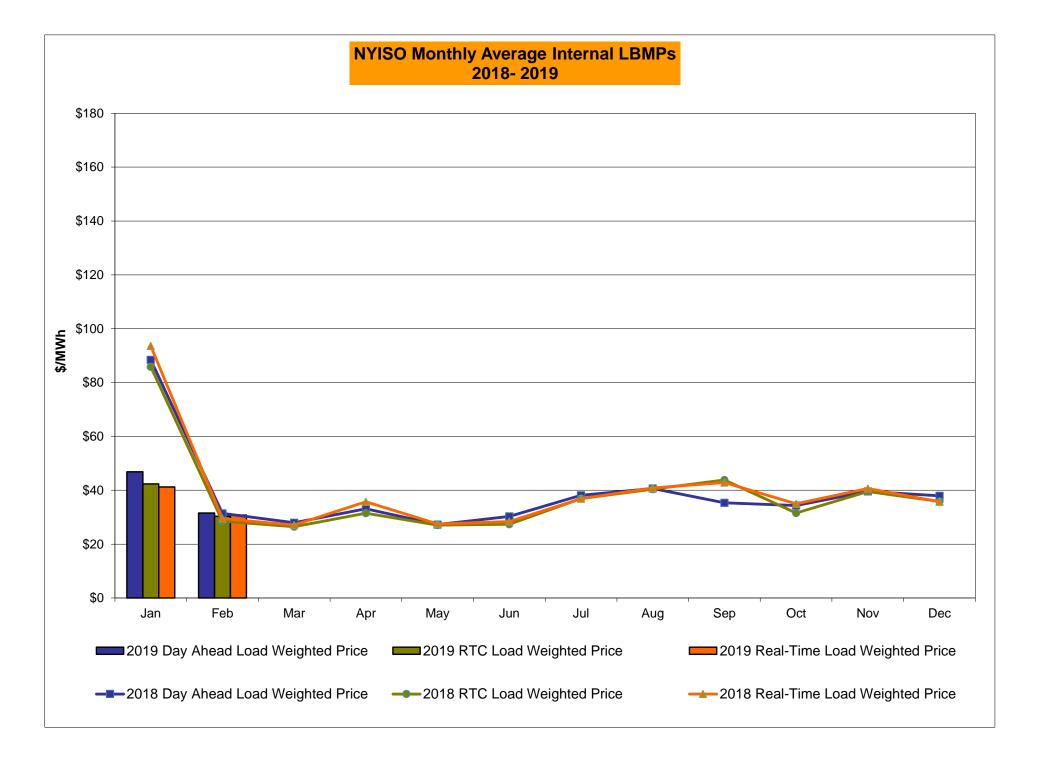
#### NYISO Markets 2019 Energy Statistics

	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August September	October N	ove	<u>mt</u>	<u>mbe</u>	<u>ember</u>	<u>mber</u> <u>De</u>	ember Dece	ember Decer	ember Decem	ember Decem	ember Decem	ember Decemb
DAY AHEAD LBMP																				
Price *	\$45.01	\$30.66																		
Standard Deviation	\$25.67	\$12.86																		
Load Weighted Price **	\$46.88	\$31.53																		
RTC LBMP																				
Price *	\$40.86	\$29.74																		
Standard Deviation	\$23.02	\$10.79																		
Load Weighted Price **	\$42.39	\$30.32																		
REAL TIME LBMP																				
Price *	\$39.54	\$30.13																		
Standard Deviation	\$26.03	\$13.77																		
Load Weighted Price **	\$41.24	\$30.80																		
Average Deily Energy Condent/Month CIMb	440	400																		
Average Daily Energy Sendout/Month GWh	449	436																		

#### NYISO Markets 2018 Energy Statistics

	<u>January</u>	February	March	<u>April</u>	May	<u>June</u>	<u>July</u>	August S	September	October	November [	<u>December</u>
DAY AHEAD LBMP	<b>***</b>	<b>400.0</b>	<b>407.07</b>	000.40	405.05	<b>#</b> 00 44	<b>405 50</b>	400.00	400.00	<b>*</b>	<b>#</b> 00.00	<b>#</b> 00.00
Price *	\$83.53	\$30.37	\$27.37	\$32.40	\$25.97	\$28.41	\$35.73	\$38.00	\$33.28	\$33.27	\$38.36	\$36.88
Standard Deviation	\$58.94	\$12.38	\$6.34	\$9.06	\$9.22	\$11.42	\$15.25	\$16.51	\$12.01	\$9.24	\$11.36	\$11.61
Load Weighted Price **	\$88.42	\$31.44	\$27.95	\$33.14	\$27.26	\$30.27	\$38.14	\$40.64	\$35.33	\$34.33	\$39.55	\$37.96
RTC LBMP												
Price *	\$81.65	\$27.73	\$25.99	\$30.80	\$25.40	\$26.06	\$34.65	\$38.13	\$39.52	\$30.92	\$38.37	\$35.01
Standard Deviation	\$60.83	\$11.96	\$8.99	\$14.30	\$20.37	\$12.78	\$17.44	\$20.05	\$61.50	\$13.43	\$17.24	\$12.27
Load Weighted Price **	\$85.85	\$28.54	\$26.46	\$31.47	\$27.08	\$27.35	\$36.93	\$40.40	\$43.83	\$31.55	\$39.53	\$35.84
REAL TIME LBMP												
Price *	\$87.94	\$28.50	\$26.49	\$34.53	\$25.57	\$26.31	\$34.34	\$38.07	\$38.15	\$33.88	\$39.18	\$34.74
Standard Deviation	\$87.41	\$17.36	\$12.25	\$26.57	\$23.49	\$24.34	\$18.44	\$27.21	\$46.81	\$37.42	\$26.15	\$17.44
Load Weighted Price **	\$93.59	\$29.49	\$27.09	\$35.72	\$27.47	\$28.38	\$36.84	\$40.87	\$42.87	\$34.94	\$40.63	\$35.70
Average Daily Energy Sendout/Month GWh	463	426	413	390	397	445	529	537	458	399	411	425

<sup>\*</sup> Average zonal load weighted prices.
\*\* Average zonal load weighted prices, load weighted in each hour.

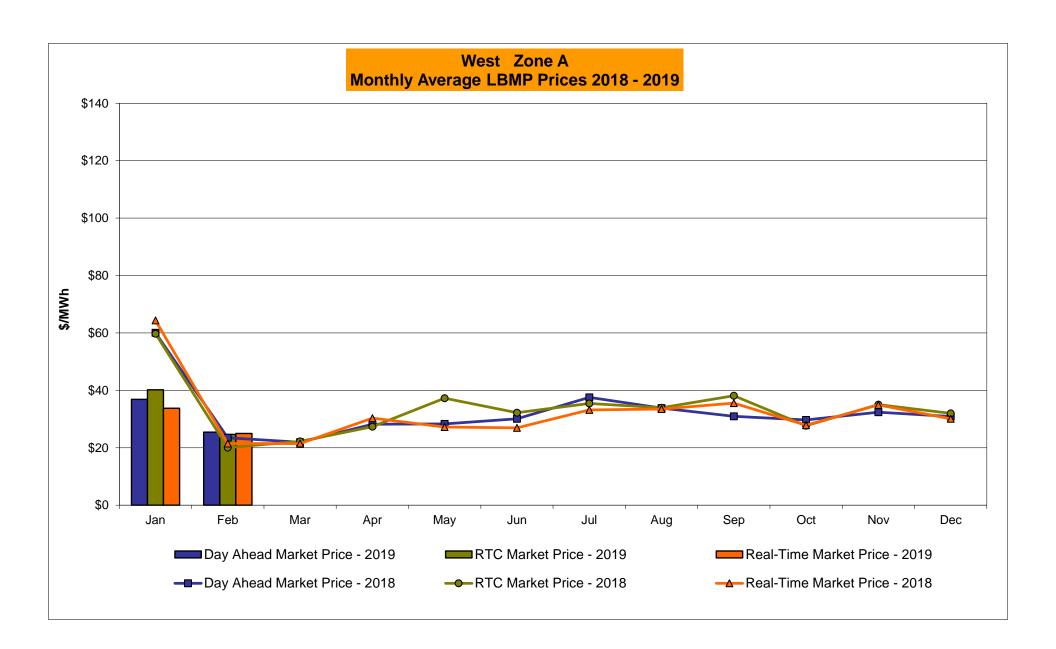


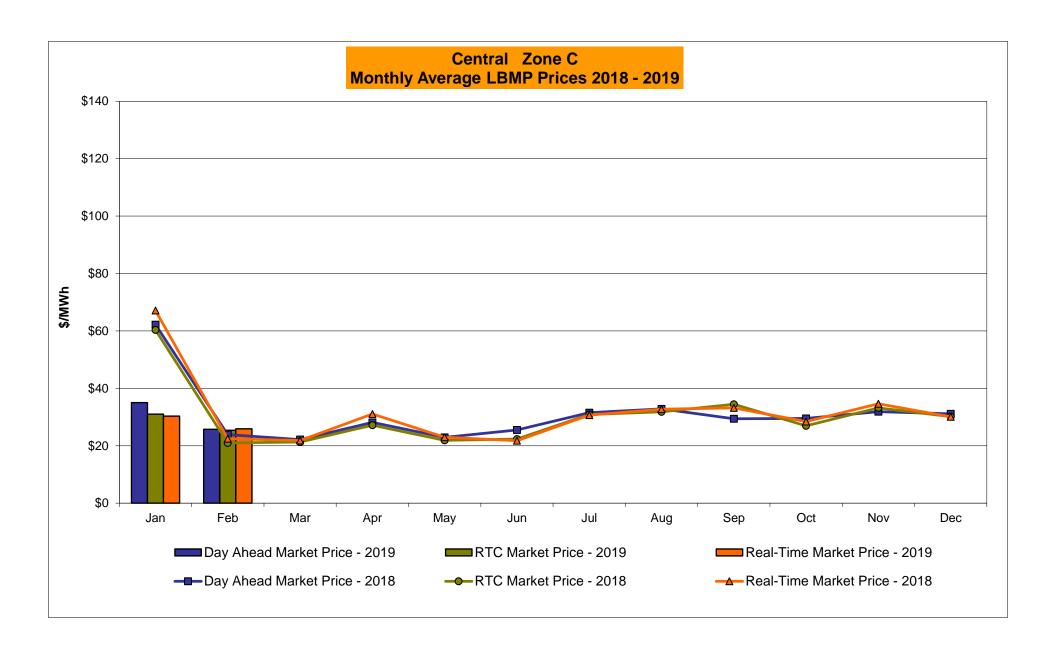
#### February 2019 Zonal LBMP Statistics for NYISO (\$/MWh)

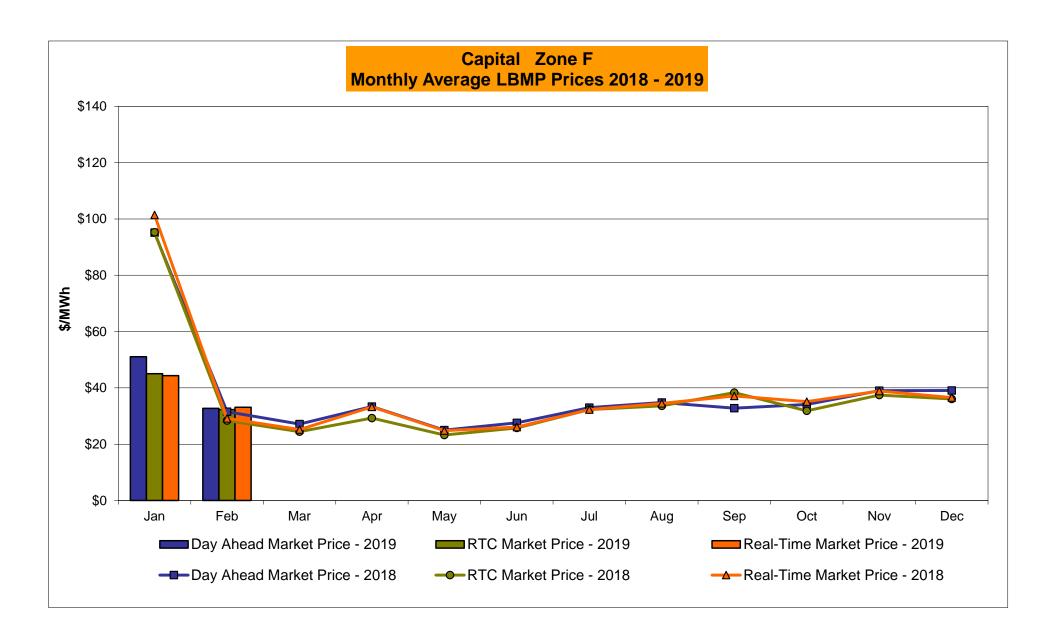
	WEST	GENESEE	NORTH	CENTRAL	MOHAWK VALLEY	CAPITAL	HUDSON VALLEY	MILLWOOD	DUNWOODIE	NEW YORK CITY	LONG ISLAND
	Zone A	Zone B	Zone D	Zone C	Zone E	Zone F	Zone G	Zone H	Zone I	Zone J	Zone K
DAY AHEAD LBMP											
Unweighted Price *	25.43	24.80	22.84	25.74	26.08	32.72	31.34	31.61	31.61	33.07	37.41
Standard Deviation	10.02	9.27	9.51	9.71	9.99	11.29	10.82	10.92	10.89	16.20	18.74
RTC LBMP											
Unweighted Price *	24.66	24.40	21.83	25.40	25.75	32.26	31.18	31.41	31.40	31.73	35.67
Standard Deviation	9.85	10.03	31.04	10.29	10.84	11.68	11.50	11.83	11.81	11.89	20.79
REAL TIME LBMP											
Unweighted Price *	24.95	24.90	21.51	25.87	26.21	33.09	31.87	32.10	32.08	32.43	35.34
Standard Deviation	12.66	12.92	52.74	13.20	13.90	15.69	14.84	15.09	15.05	15.19	17.05
		HADDO	HADBO			CDOSS					
	ONTARIO	HYDRO	HYDRO		NEW	CROSS	NORTHPORT-				
	ONTARIO IFSO	QUEBEC	QUEBEC	P.IM	NEW FNGI AND	SOUND	NORTHPORT-	NEPTUNE	I INDEN VET	HUDSON	Dennison
	ONTARIO IESO	QUEBEC		РЈМ	NEW ENGLAND	SOUND CABLE	NORWALK	NEPTUNE Controllable	LINDEN VFT	HUDSON Controllable	Dennison Controllable
	IESO	QUEBEC (Wheel)	QUEBEC (Import/Export)		ENGLAND	SOUND CABLE Controllable	NORWALK Controllable	Controllable	<u>Controllable</u>	Controllable	<u>Controllable</u>
DAY AHEAD LBMP		QUEBEC	QUEBEC	PJM Zone P		SOUND CABLE	NORWALK				
<b>DAY AHEAD LBMP</b> Unweighted Price *	IESO	QUEBEC (Wheel)	QUEBEC (Import/Export)		ENGLAND	SOUND CABLE Controllable	NORWALK Controllable	Controllable	<u>Controllable</u>	Controllable	<u>Controllable</u>
	IESO  Zone O	QUEBEC (Wheel) Zone M	QUEBEC (Import/Export) Zone M	Zone P	ENGLAND  Zone N	SOUND CABLE Controllable Line	NORWALK Controllable Line	Controllable Line	Controllable Line	Controllable Line	Controllable Line
Unweighted Price *	<b>Zone O</b> 24.52	QUEBEC (Wheel)  Zone M  23.25	QUEBEC (Import/Export)  Zone M  23.25	<b>Zone P</b> 27.82	ENGLAND  Zone N  33.30	SOUND CABLE Controllable Line	NORWALK Controllable Line 35.38	Controllable Line 34.65	Controllable Line 32.36	Controllable Line 32.57	Controllable Line 22.37
Unweighted Price * Standard Deviation	Zone O 24.52 8.89	QUEBEC (Wheel)  Zone M  23.25 9.41	QUEBEC (Import/Export)  Zone M  23.25 9.41	<b>Zone P</b> 27.82 9.95	Zone N 33.30 11.53	SOUND CABLE Controllable Line 36.67 17.91	NORWALK Controllable Line 35.38 14.51	24.65 17.25 33.80	23.36 15.68	22.57 14.48	Controllable Line 22.37 9.36
Unweighted Price * Standard Deviation  RTC LBMP	Zone O 24.52 8.89	QUEBEC (Wheel)  Zone M  23.25 9.41	QUEBEC (Import/Export)  Zone M  23.25 9.41	<b>Zone P</b> 27.82 9.95	Zone N  33.30 11.53	SOUND CABLE Controllable Line 36.67 17.91	NORWALK Controllable Line 35.38 14.51	Controllable Line 34.65 17.25	Controllable Line 32.36 15.68	Controllable Line 32.57 14.48	Controllable Line 22.37 9.36
Unweighted Price * Standard Deviation  RTC LBMP Unweighted Price * Standard Deviation  REAL TIME LBMP	24.52 8.89 23.77 9.29	QUEBEC (Wheel)  Zone M  23.25 9.41  21.87 11.96	QUEBEC (Import/Export)  Zone M  23.25 9.41  21.87 11.96	<b>Zone P</b> 27.82 9.95 27.40 9.29	Zone N  33.30 11.53  34.49 13.82	SOUND CABLE Controllable Line 36.67 17.91 35.19 20.27	NORWALK Controllable Line 35.38 14.51 34.71 20.14	20.07 Controllable Line 34.65 17.25	22.36 15.68 31.35 11.63	2.57 14.48 31.27 11.39	22.37 9.36 21.64 27.64
Unweighted Price * Standard Deviation  RTC LBMP  Unweighted Price * Standard Deviation	Zone O 24.52 8.89	QUEBEC (Wheel)  Zone M  23.25 9.41	QUEBEC (Import/Export)  Zone M  23.25 9.41	<b>Zone P</b> 27.82 9.95	Zone N 33.30 11.53	SOUND CABLE Controllable Line 36.67 17.91	NORWALK Controllable Line 35.38 14.51	24.65 17.25 33.80	23.36 15.68	22.57 14.48	Controllable Line 22.37 9.36

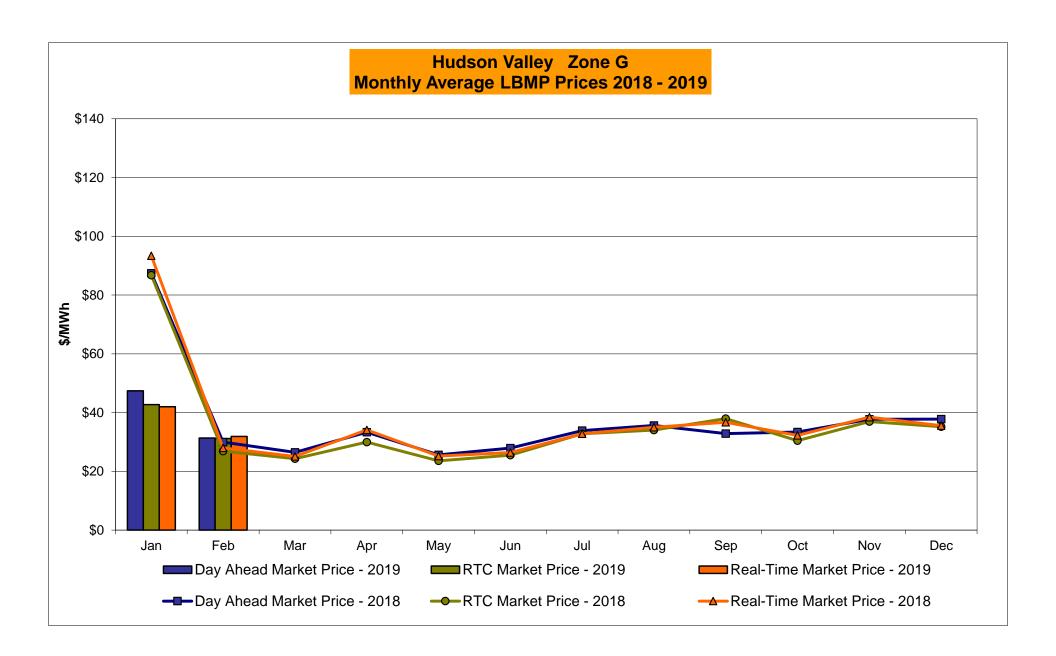
Market Mitigation and Analysis Prepared: 3/8/2019 2:19 PM

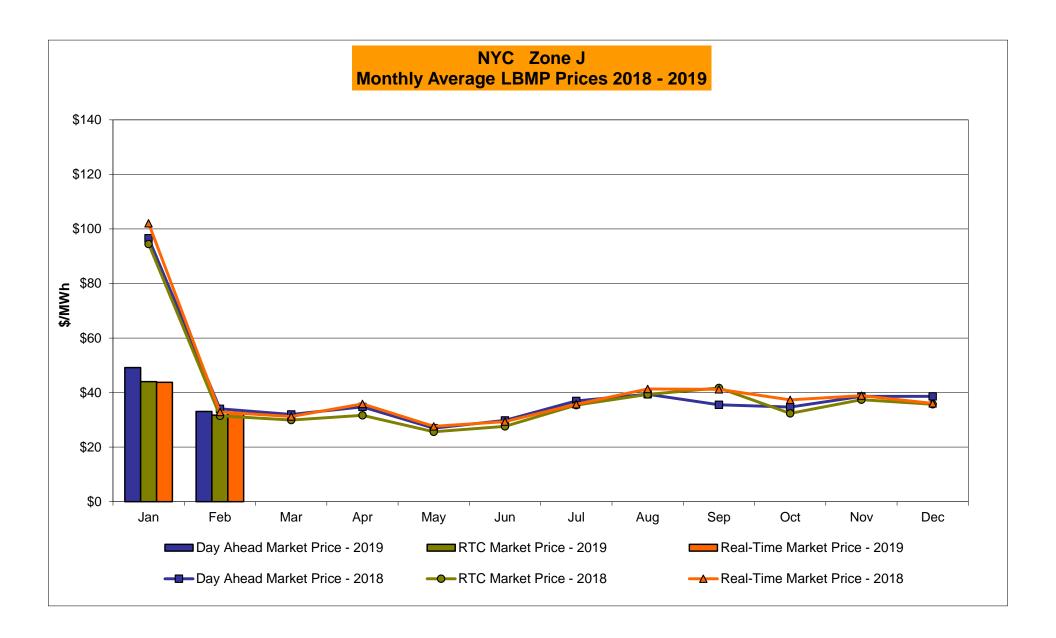
<sup>\*</sup> Straight LBMP averages

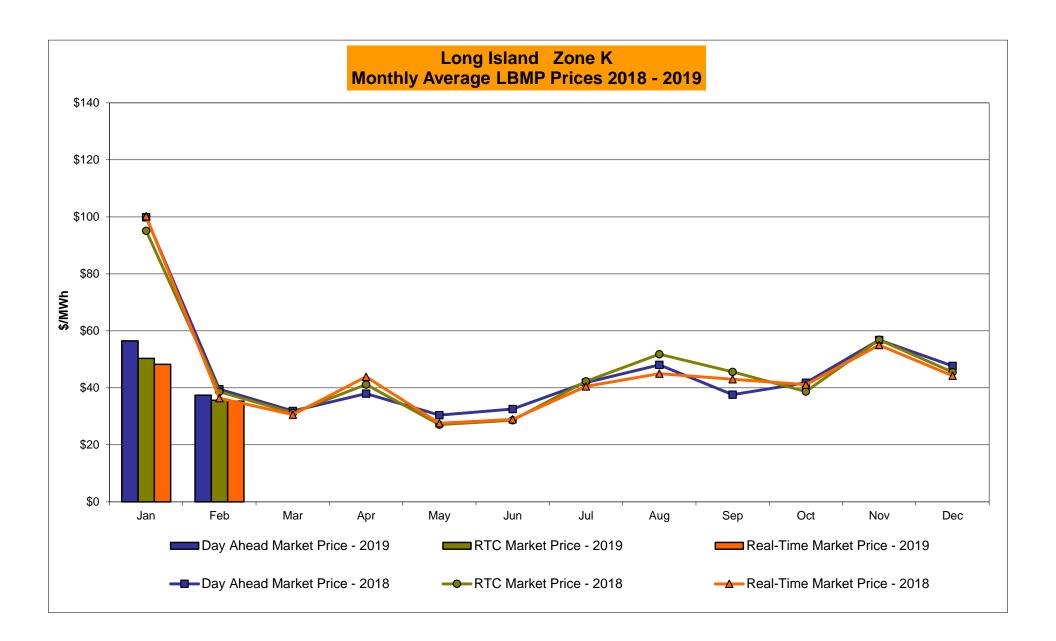


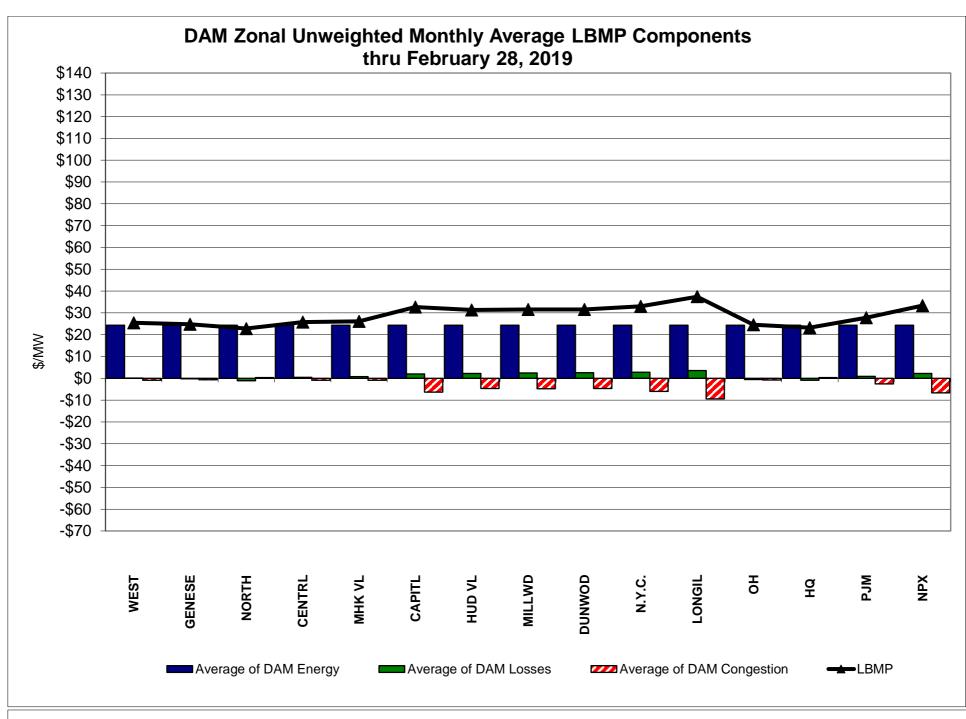


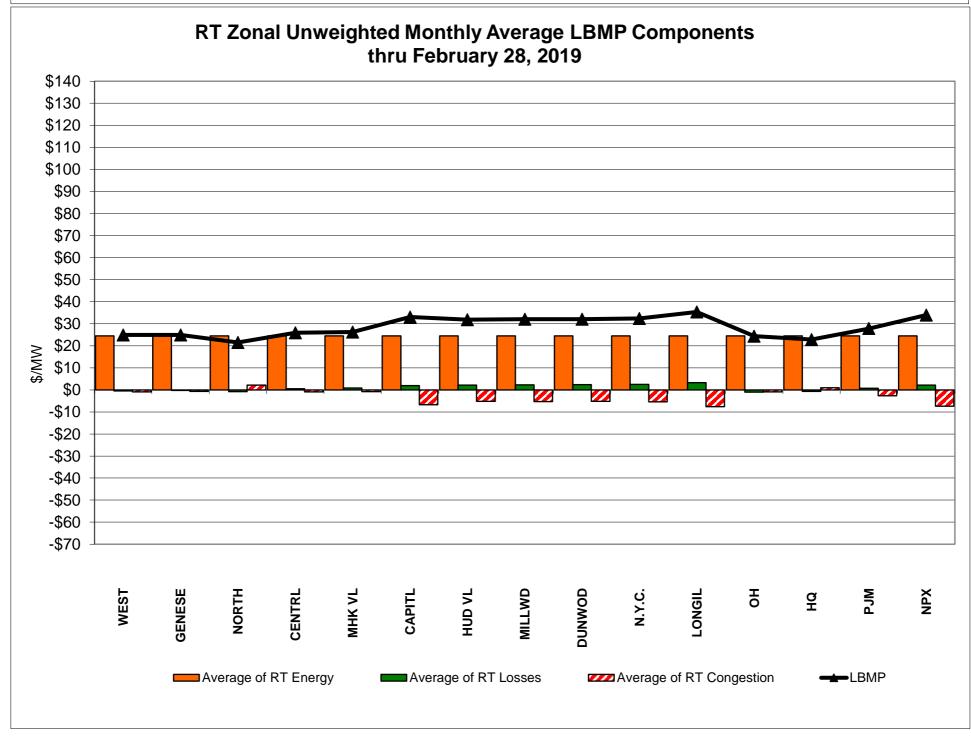




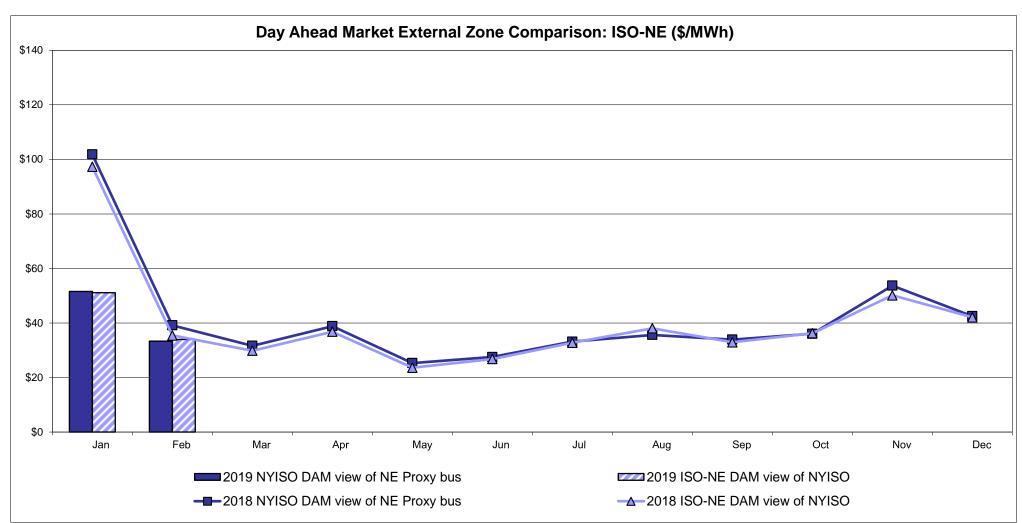


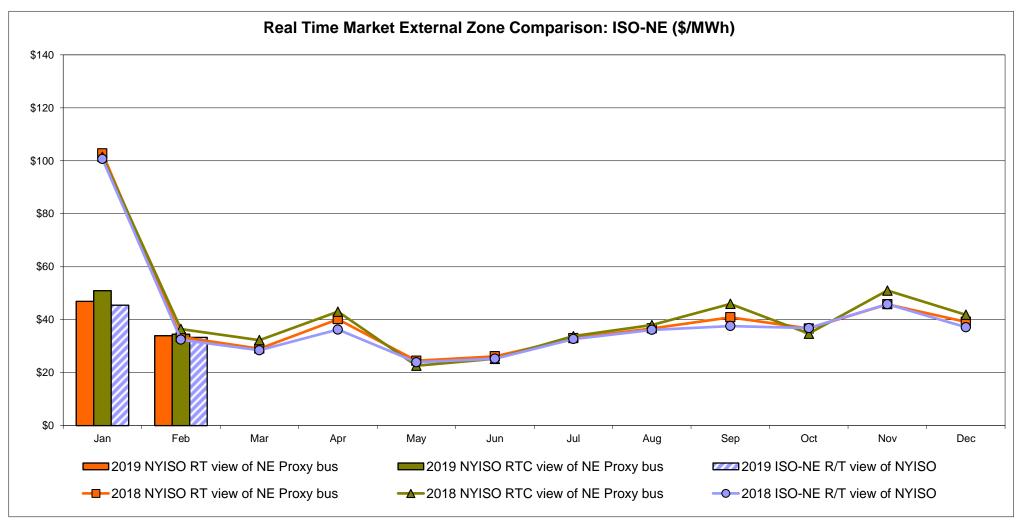




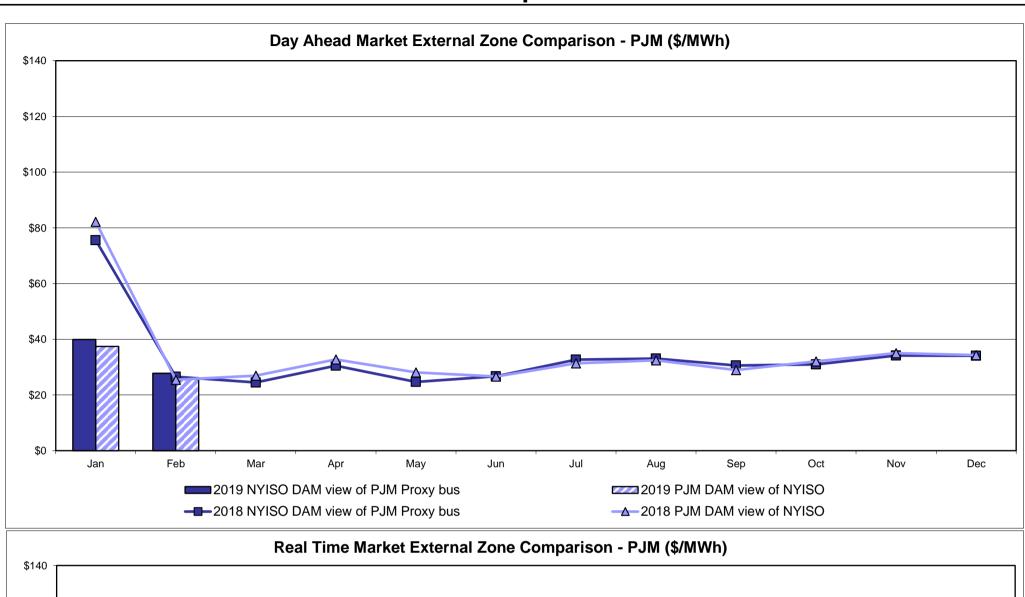


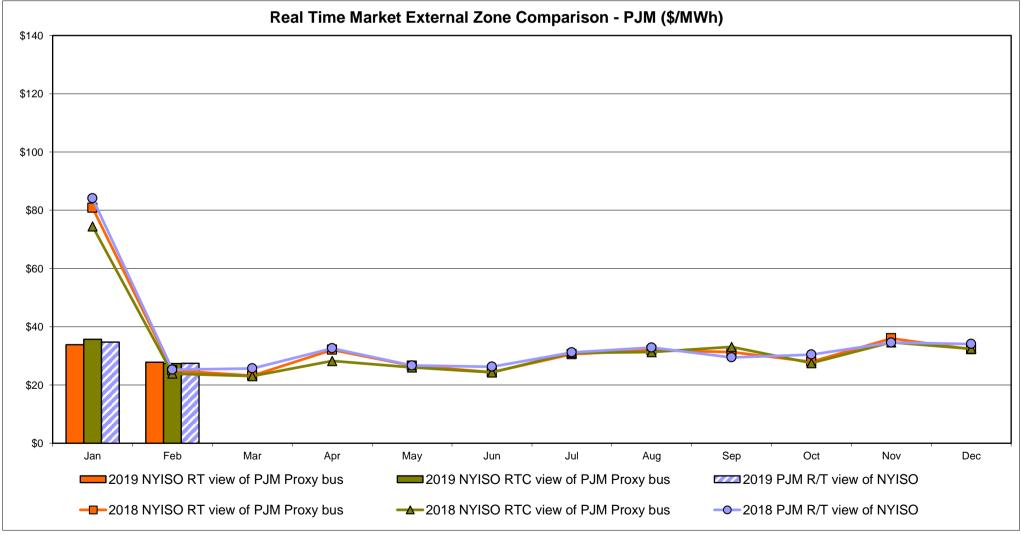
### **External Comparison ISO-New England**



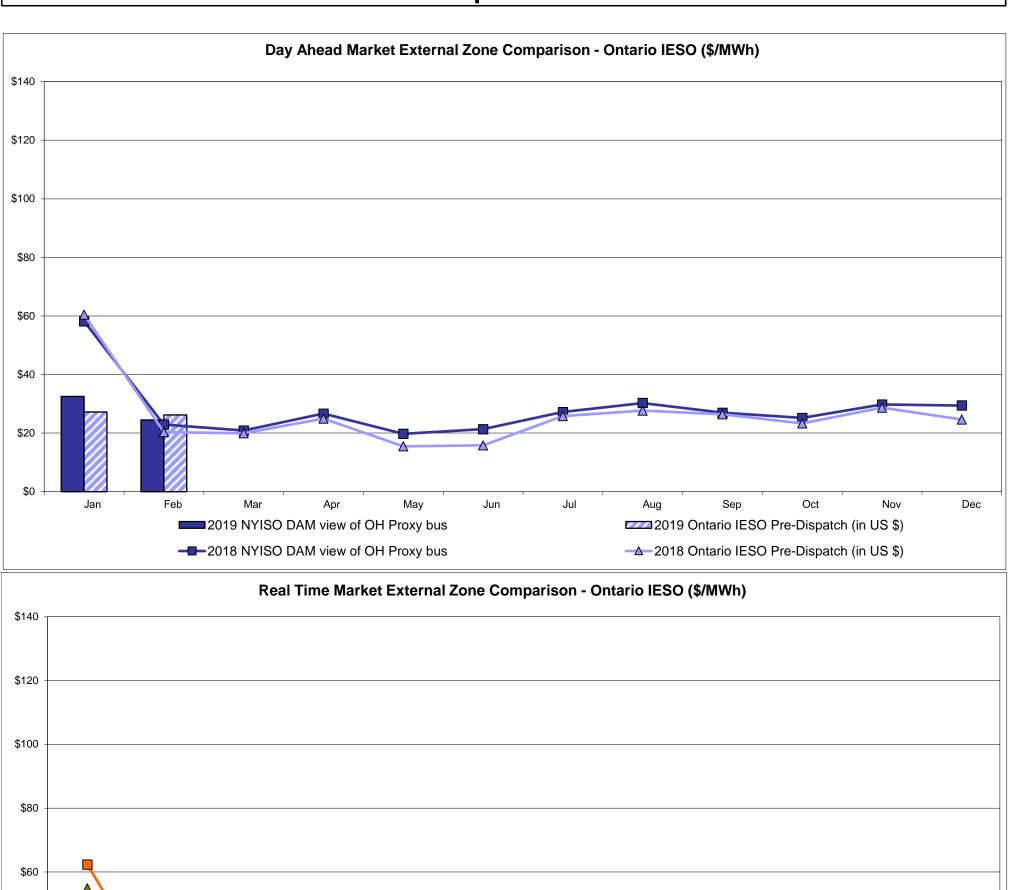


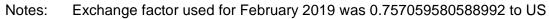
#### **External Comparison PJM**





#### **External Comparison Ontario IESO**





HOEP: Hourly Ontario Energy Price Pre-Dispatch: Projected Energy Price

2019 NYISO RT view of OH Proxy bus

**—**2018 NYISO RT view of OH Proxy bus

\$40

\$20

Jan

2019 NYISO RTC view of OH Proxy bus

→ 2018 NYISO RTC view of OH Proxy bus

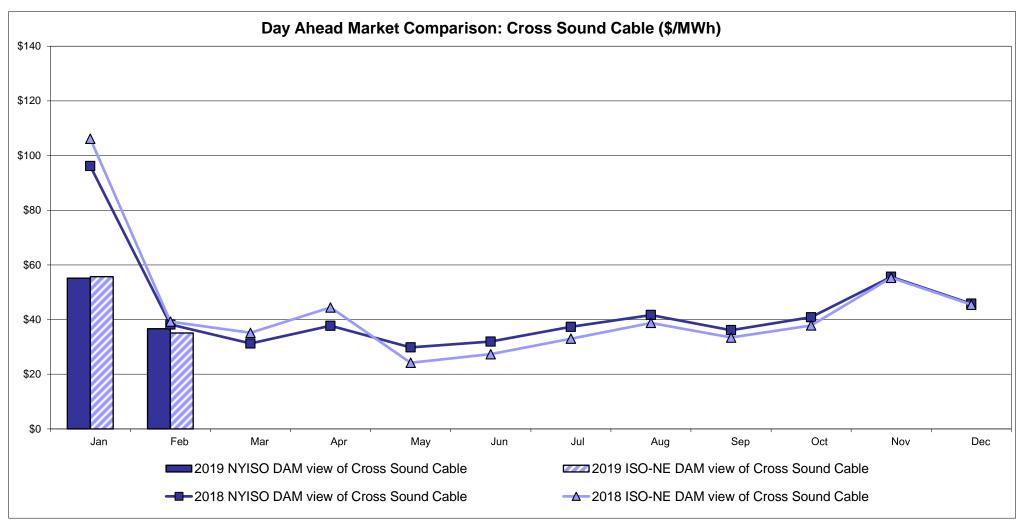
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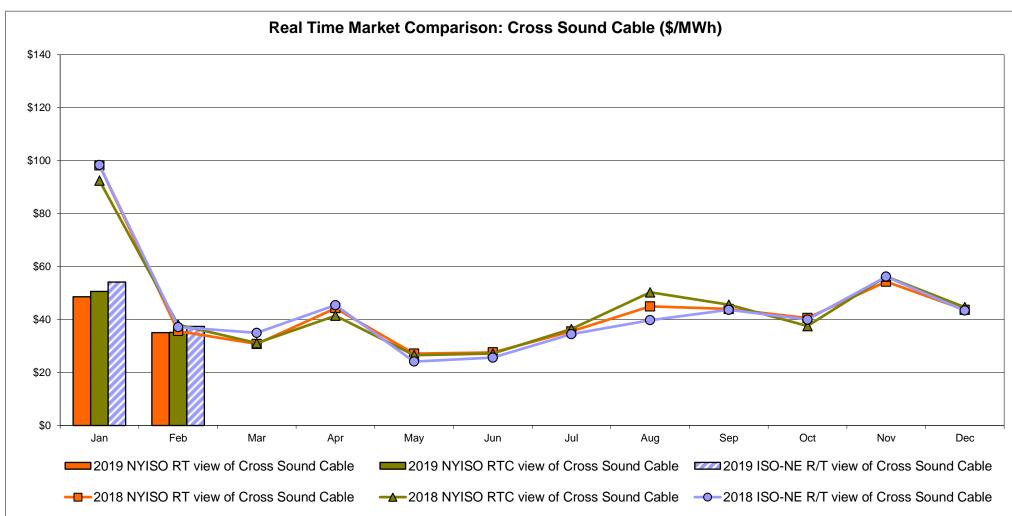
2019 Ontario IESO HOEP (in US \$)

-0-2018 Ontario IESO HOEP (in US \$)

Dec

#### **External Controllable Line: Cross Sound Cable (New England)**





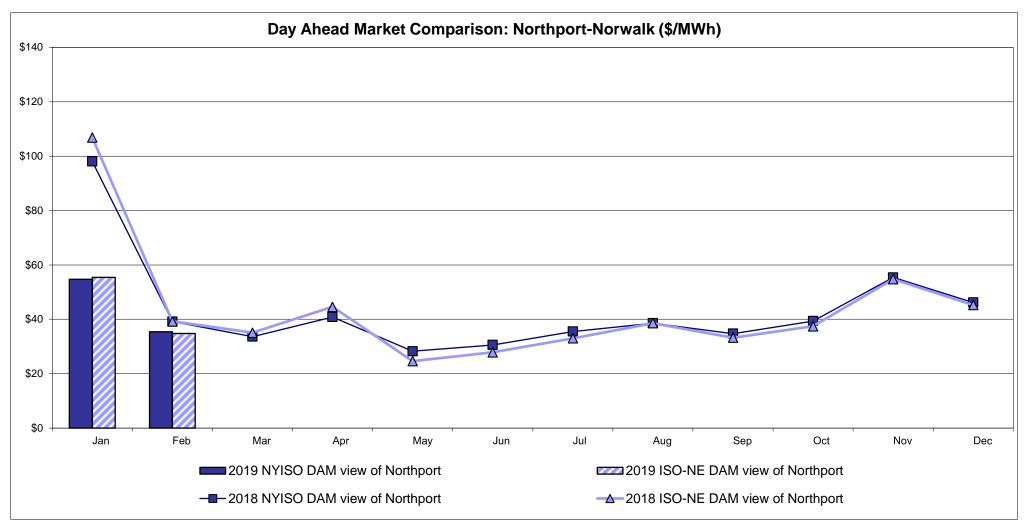
#### Note:

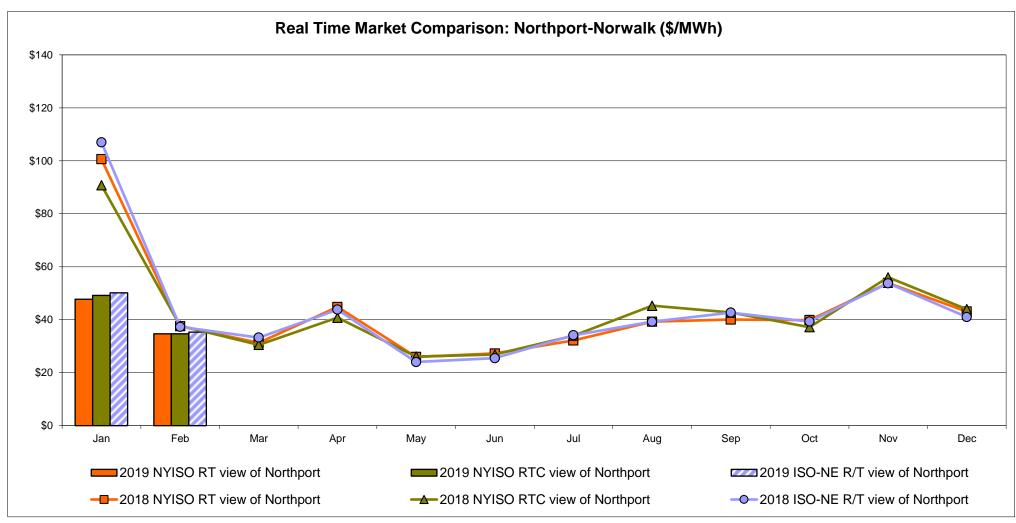
ISO-NE Forecast is an advisory posting @ 18:00 day before.

The DAM and R/T prices at the Shorham 13899 interface are used for ISO-NE.

The DAM and R/T prices at the CSC interface are used for NYISO.

#### **External Controllable Line: Northport - Norwalk (New England)**





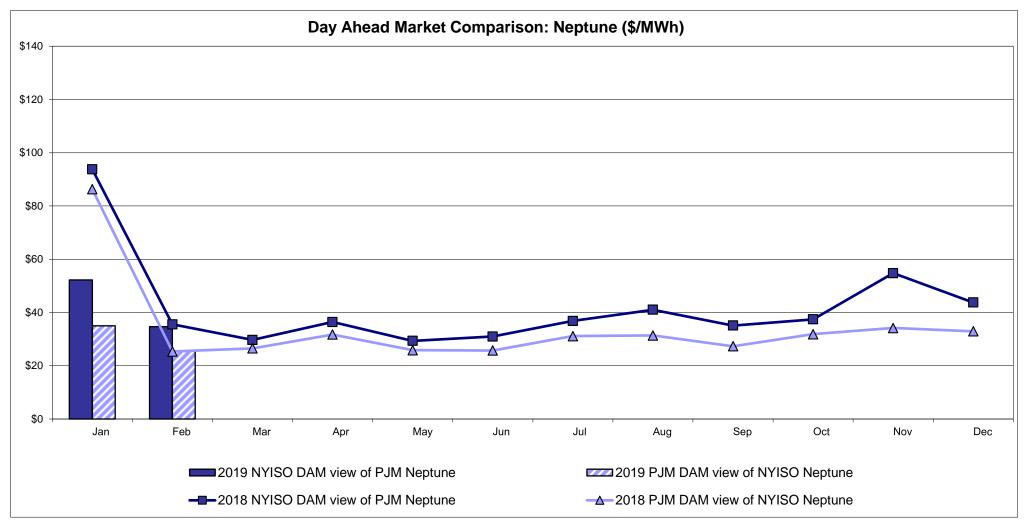
#### Note:

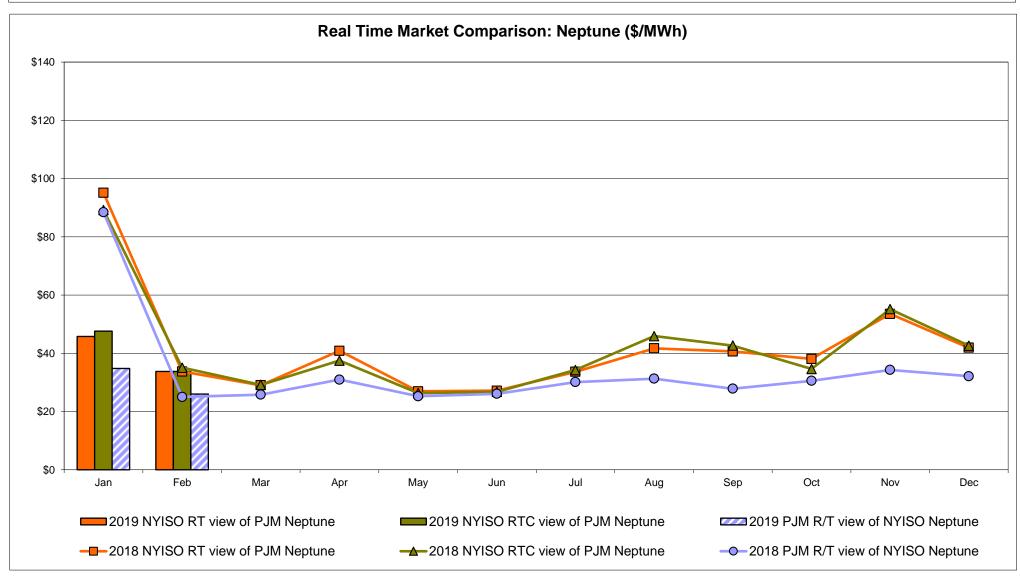
ISO-NE Forecast is an advisory posting @ 18:00 day before.

The DAM and R/T prices at the Northport 138 interface are used for ISO-NE.

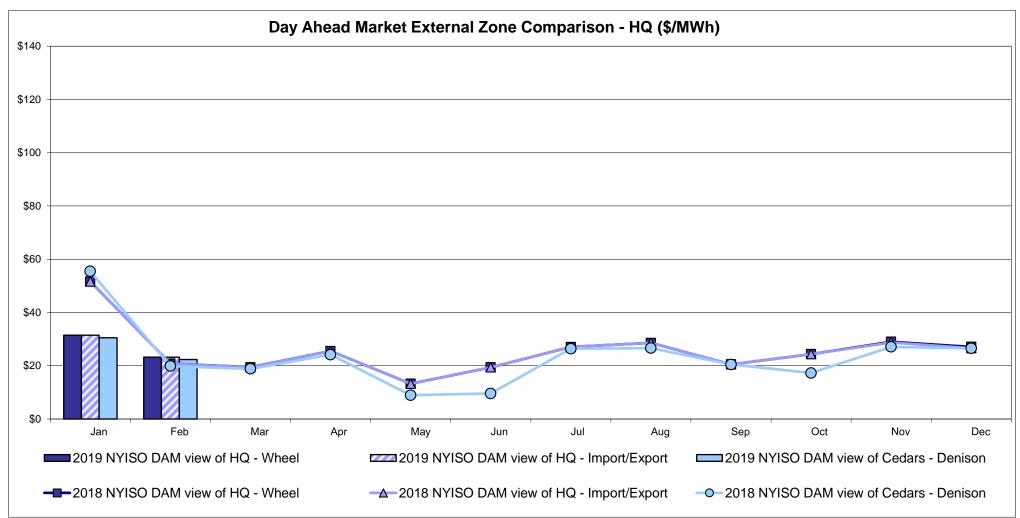
The DAM and R/T prices at the 1385 interface are used for NYISO.

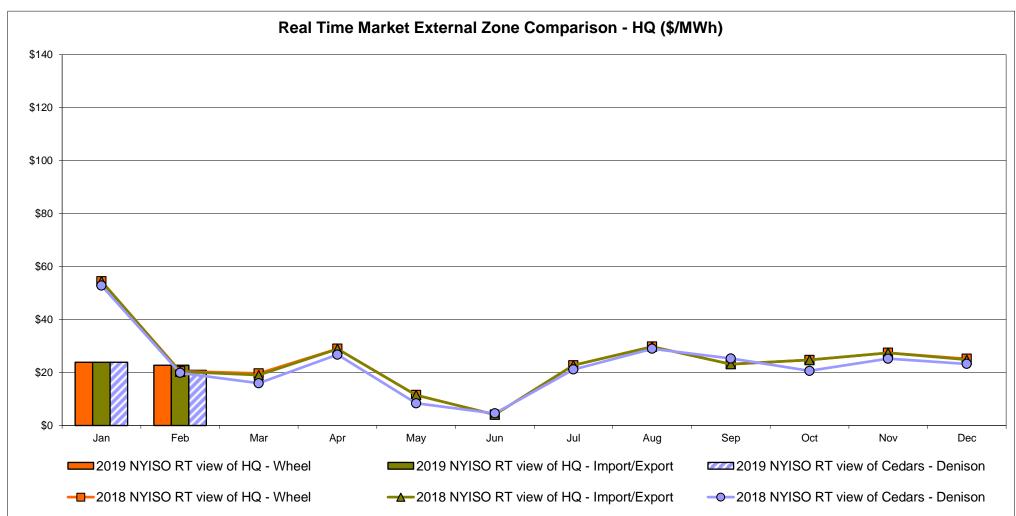
### **External Controllable Line: Neptune (PJM)**





### **External Comparison Hydro-Quebec**

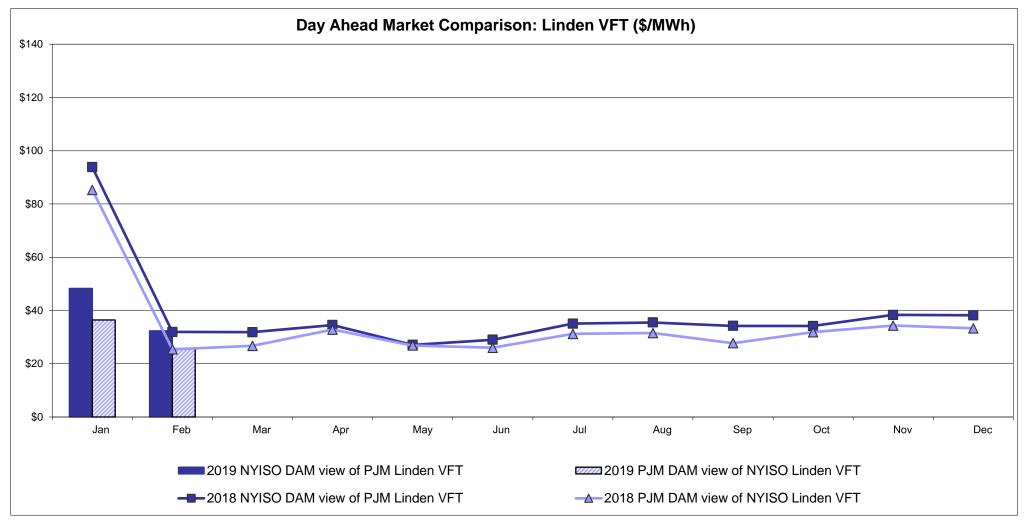


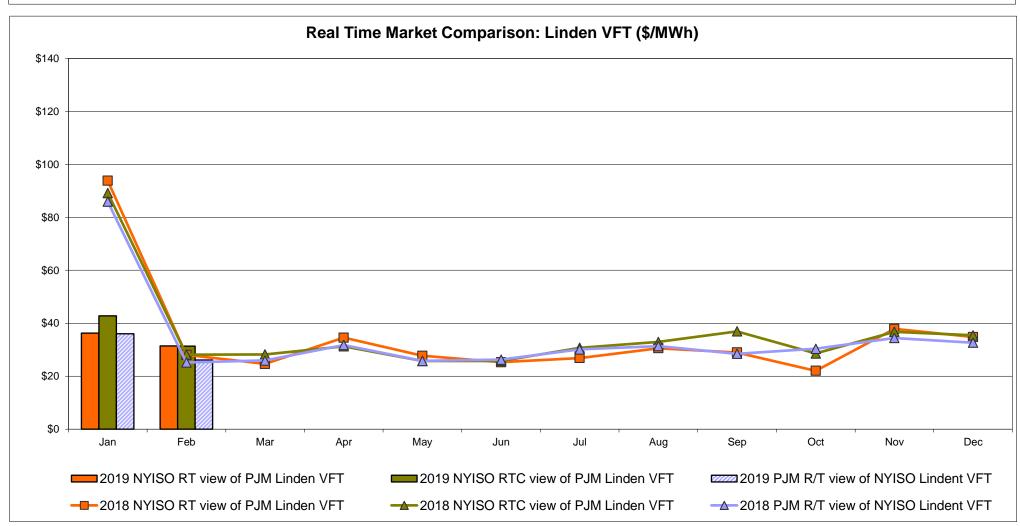


Note:

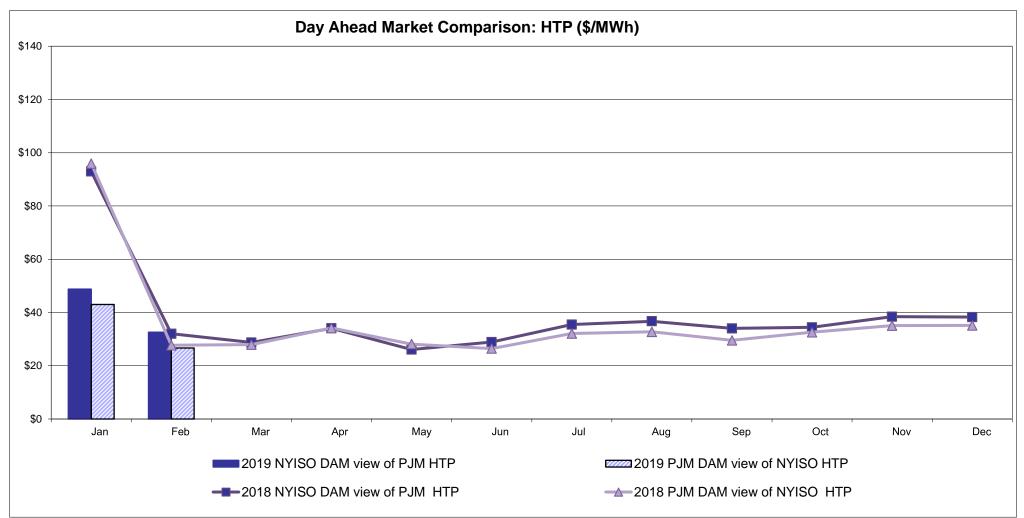
Hydro-Quebec Prices are unavailable.

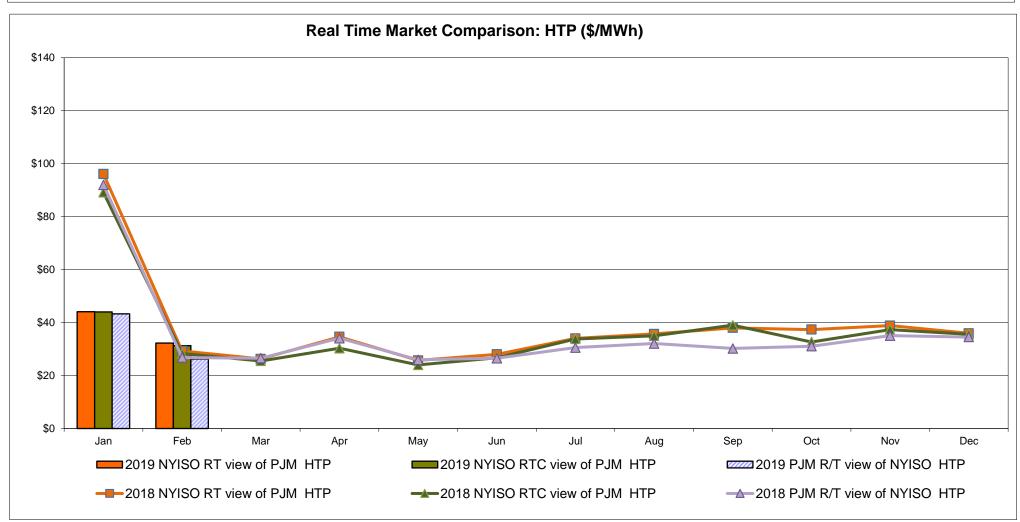
#### **External Controllable Line: Linden VFT (PJM)**





#### **External Controllable Line: Hudson (PJM)**

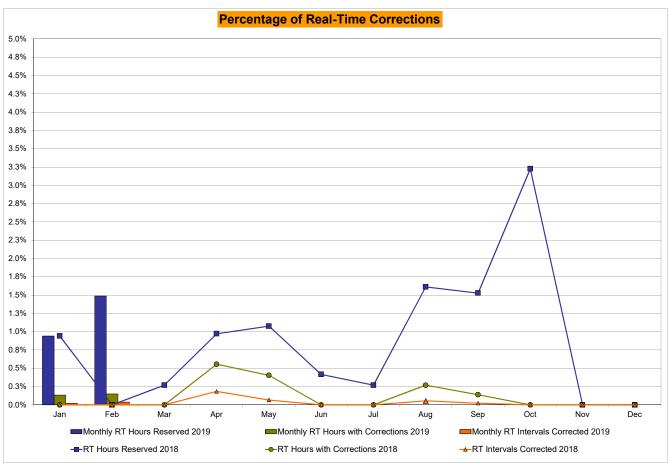


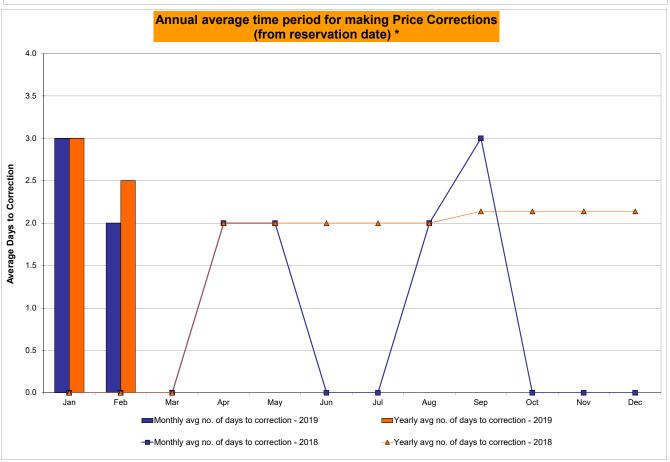


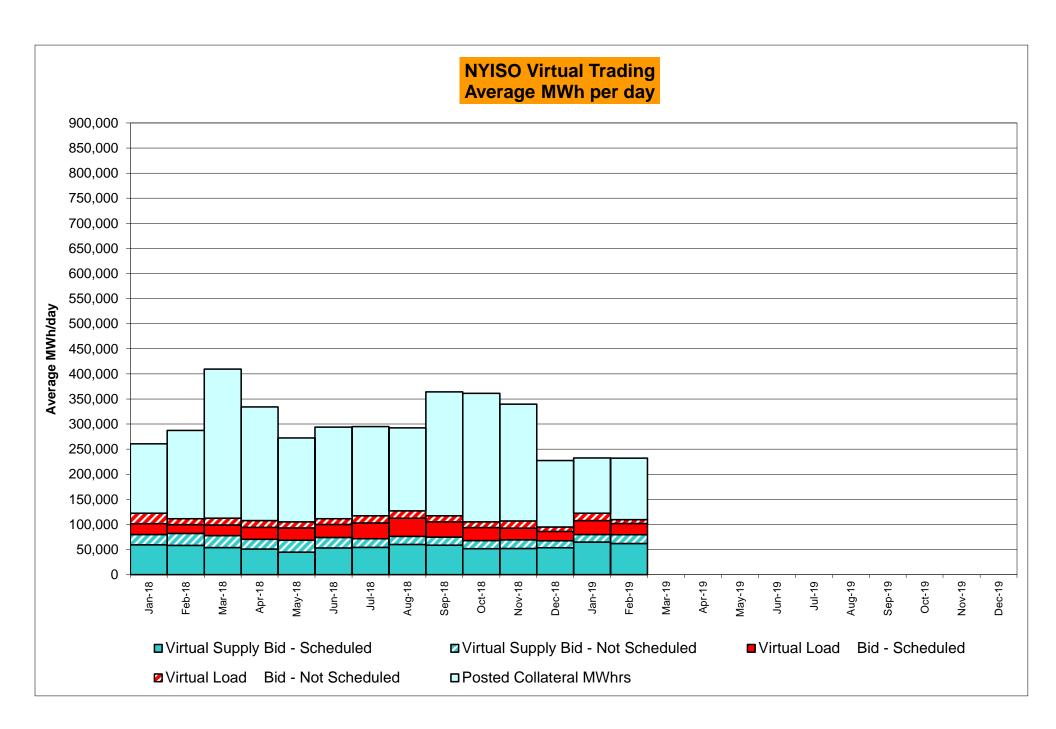
#### **NYISO Real Time Price Correction Statistics**

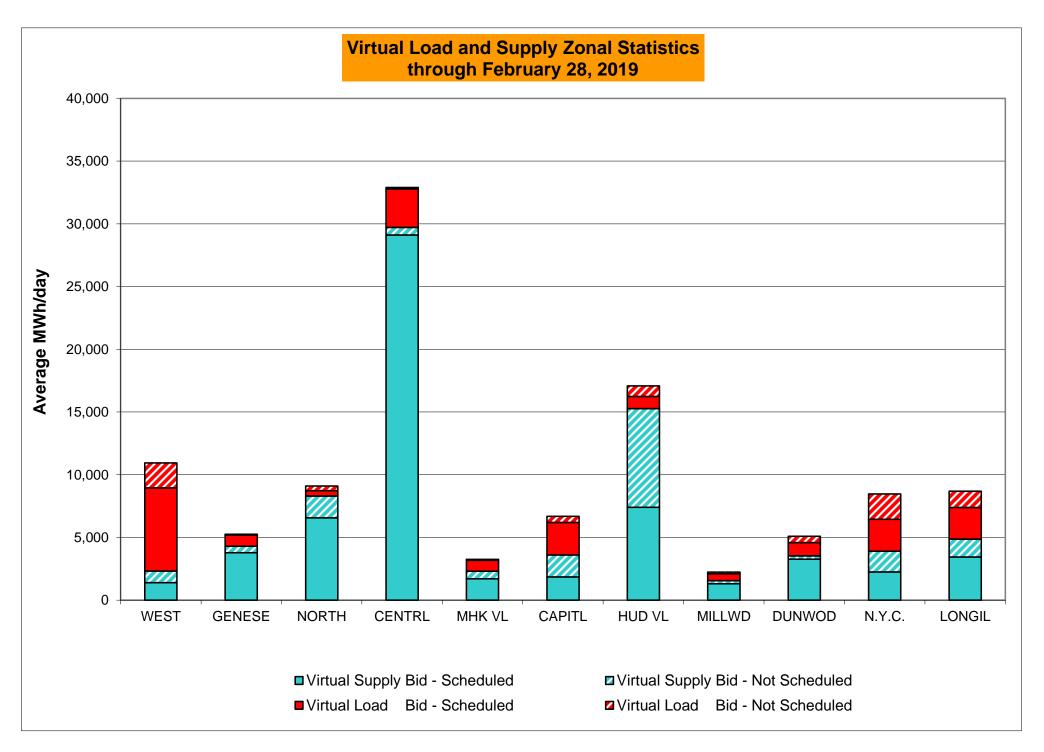
2019		<u>January</u>	<u>February</u>	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August	September	October	November	December
Hour Corrections													
Number of hours with corrections	in the month	1	1										
Number of hours	in the month	744	672										
% of hours with corrections	in the month	0.13%	0.15%										
% of hours with corrections	year-to-date	0.13%	0.14%										
Interval Corrections													
Number of intervals corrected	in the month	2	3										
Number of intervals	in the month	9,071	8,131										
% of intervals corrected	in the month	0.02%	0.04%										
% of intervals corrected	year-to-date	0.02%	0.03%										
<u>Hours Reserved</u>													
Number of hours reserved	in the month	7	10										
Number of hours	in the month	744	672										
% of hours reserved	in the month	0.94%	1.49%										
% of hours reserved	year-to-date	0.94%	1.20%										
Days to Correction *													
Avg. number of days to correction	in the month	3.00	2.00										
Avg. number of days to correction	year-to-date	3.00	2.50										
Days Without Corrections													
Days without corrections	in the month	30	27										
Days without corrections	year-to-date	30	57										
2018		January	February	March	April	May	June	July	August	September	October	November	December
2018 Hour Corrections		<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	September	<u>October</u>	November	<u>December</u>
	in the month	<u>January</u> 0	<u>February</u> 0	March 0	<u>April</u> 4	<u>Мау</u> 3	<u>June</u> 0	<u>July</u> 0	August 2	September 1	October 0	November 0	December 0
Hour Corrections	in the month		<del></del>			<del></del>							
Hour Corrections  Number of hours with corrections		0	0	0	4	3	0	0	2	1	0	0	0
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections	in the month in the month	0 744 0.00%	0 672 0.00%	0 743 0.00%	4 720 0.56%	3 744 0.40%	0 720 0.00%	0 744 0.00%	2 744 0.27%	1 720 0.14%	0 744 0.00%	0 721 0.00%	0 744 0.00%
Hour Corrections  Number of hours with corrections  Number of hours	in the month	0 744	0 672	0 743	4 720	3 744	0 720	0 744	2 744	1 720	0 744	0 721	0 744
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections	in the month in the month	0 744 0.00%	0 672 0.00%	0 743 0.00%	4 720 0.56%	3 744 0.40%	0 720 0.00%	0 744 0.00%	2 744 0.27%	1 720 0.14%	0 744 0.00%	0 721 0.00%	0 744 0.00%
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections	in the month in the month year-to-date	0 744 0.00% 0.00%	0 672 0.00%	0 743 0.00% 0.00%	4 720 0.56% 0.14%	3 744 0.40% 0.19%	0 720 0.00% 0.16%	0 744 0.00% 0.14%	2 744 0.27% 0.15%	1 720 0.14% 0.15%	0 744 0.00% 0.14%	0 721 0.00% 0.12%	0 744 0.00% 0.11%
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected	in the month in the month year-to-date	0 744 0.00% 0.00%	0 672 0.00% 0.00%	0 743 0.00% 0.00%	4 720 0.56% 0.14%	3 744 0.40% 0.19%	0 720 0.00% 0.16%	0 744 0.00% 0.14%	2 744 0.27% 0.15%	1 720 0.14% 0.15%	0 744 0.00% 0.14%	0 721 0.00% 0.12%	0 744 0.00% 0.11%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected	in the month in the month year-to-date in the month in the month in the month	0 744 0.00% 0.00% 0 9,021 0.00%	0 672 0.00% 0.00% 0 8,112 0.00%	0 743 0.00% 0.00% 0 9,002 0.00%	4 720 0.56% 0.14% 16 8,717 0.18%	3 744 0.40% 0.19% 6 9,033 0.07%	0 720 0.00% 0.16% 0 8,723 0.00%	0 744 0.00% 0.14% 0 9,021 0.00%	2 744 0.27% 0.15% 5 9,071 0.06%	1 720 0.14% 0.15% 2 8,723 0.02%	0 744 0.00% 0.14% 0 8,990 0.00%	0 721 0.00% 0.12% 0 8,763 0.00%	0 744 0.00% 0.11% 0 8,993 0.00%
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals	in the month in the month year-to-date in the month in the month	0 744 0.00% 0.00%	0 672 0.00% 0.00%	0 743 0.00% 0.00% 0 9,002	4 720 0.56% 0.14% 16 8,717	3 744 0.40% 0.19%	0 720 0.00% 0.16% 0 8,723	0 744 0.00% 0.14% 0 9,021	2 744 0.27% 0.15% 5 9,071	1 720 0.14% 0.15% 2 8,723	0 744 0.00% 0.14%	0 721 0.00% 0.12% 0 8,763	0 744 0.00% 0.11% 0 8,993
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved	in the month in the month year-to-date in the month in the month in the month year-to-date	0 744 0.00% 0.00% 0 9,021 0.00% 0.00%	0 672 0.00% 0.00% 0 8,112 0.00%	0 743 0.00% 0.00% 0 9,002 0.00%	4 720 0.56% 0.14% 16 8,717 0.18% 0.05%	3 744 0.40% 0.19% 6 9,033 0.07% 0.05%	0 720 0.00% 0.16% 0 8,723 0.00% 0.04%	0 744 0.00% 0.14% 0 9,021 0.00% 0.04%	2 744 0.27% 0.15% 5 9,071 0.06% 0.04%	1 720 0.14% 0.15% 2 8,723 0.02% 0.04%	0 744 0.00% 0.14% 0 8,990 0.00% 0.03%	0 721 0.00% 0.12% 0 8,763 0.00% 0.03%	0 744 0.00% 0.11% 0 8,993 0.00% 0.03%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved	in the month in the month year-to-date in the month in the month in the month year-to-date in the month	0 744 0.00% 0.00% 0 9,021 0.00% 0.00%	0 672 0.00% 0.00% 0 8,112 0.00% 0.00%	0 743 0.00% 0.00% 0 9,002 0.00% 0.00%	4 720 0.56% 0.14% 16 8,717 0.18% 0.05%	3 744 0.40% 0.19% 6 9,033 0.07% 0.05%	0 720 0.00% 0.16% 0 8,723 0.00% 0.04%	0 744 0.00% 0.14% 0 9,021 0.00% 0.04%	2 744 0.27% 0.15% 5 9,071 0.06% 0.04%	1 720 0.14% 0.15% 2 8,723 0.02% 0.04%	0 744 0.00% 0.14% 0 8,990 0.00% 0.03%	0 721 0.00% 0.12% 0 8,763 0.00% 0.03%	0 744 0.00% 0.11% 0 8,993 0.00% 0.03%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours	in the month in the month year-to-date  in the month in the month in the month year-to-date  in the month the month year-to-date	0 744 0.00% 0.00% 0 9,021 0.00% 0.00%	0 672 0.00% 0.00% 0 8,112 0.00% 0.00%	0 743 0.00% 0.00% 0 9,002 0.00% 0.00%	4 720 0.56% 0.14% 16 8,717 0.18% 0.05%	3 744 0.40% 0.19% 6 9,033 0.07% 0.05%	0 720 0.00% 0.16% 0 8,723 0.00% 0.04%	0 744 0.00% 0.14% 0 9,021 0.00% 0.04%	2 744 0.27% 0.15% 5 9,071 0.06% 0.04%	1 720 0.14% 0.15% 2 8,723 0.02% 0.04%	0 744 0.00% 0.14% 0 8,990 0.00% 0.03%	0 721 0.00% 0.12% 0 8,763 0.00% 0.03%	0 744 0.00% 0.11% 0 8,993 0.00% 0.03%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved	in the month in the month year-to-date in the month in the month in the month year-to-date in the month	0 744 0.00% 0.00% 0 9,021 0.00% 0.00% 7 744 0.94%	0 672 0.00% 0.00% 0 8,112 0.00% 0.00%	0 743 0.00% 0.00% 0 9,002 0.00% 0.00% 2 743 0.27%	4 720 0.56% 0.14% 16 8,717 0.18% 0.05% 7 720 0.97%	3 744 0.40% 0.19% 6 9,033 0.07% 0.05% 8 744 1.08%	0 720 0.00% 0.16% 0 8,723 0.00% 0.04% 3 720 0.42%	0 744 0.00% 0.14% 0 9,021 0.00% 0.04% 2 744 0.27%	2 744 0.27% 0.15% 5 9,071 0.06% 0.04% 12 744 1.61%	1 720 0.14% 0.15% 2 8,723 0.02% 0.04% 11 720 1.53%	0 744 0.00% 0.14% 0 8,990 0.00% 0.03% 24 744 3.23%	0 721 0.00% 0.12% 0 8,763 0.00% 0.03% 0 721 0.00%	0 744 0.00% 0.11% 0 8,993 0.00% 0.03% 0 744 0.00%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved	in the month in the month year-to-date  in the month in the month in the month year-to-date  in the month the month year-to-date	0 744 0.00% 0.00% 0 9,021 0.00% 0.00%	0 672 0.00% 0.00% 0 8,112 0.00% 0.00%	0 743 0.00% 0.00% 0 9,002 0.00% 0.00%	4 720 0.56% 0.14% 16 8,717 0.18% 0.05%	3 744 0.40% 0.19% 6 9,033 0.07% 0.05%	0 720 0.00% 0.16% 0 8,723 0.00% 0.04%	0 744 0.00% 0.14% 0 9,021 0.00% 0.04%	2 744 0.27% 0.15% 5 9,071 0.06% 0.04%	1 720 0.14% 0.15% 2 8,723 0.02% 0.04%	0 744 0.00% 0.14% 0 8,990 0.00% 0.03%	0 721 0.00% 0.12% 0 8,763 0.00% 0.03%	0 744 0.00% 0.11% 0 8,993 0.00% 0.03%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved Days to Correction *	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month in the month in the month year-to-date	0 744 0.00% 0.00% 0 9,021 0.00% 0.00% 7 744 0.94%	0 672 0.00% 0.00% 0 8,112 0.00% 0.00% 0.00%	0 743 0.00% 0.00% 0 9,002 0.00% 0.00% 2 743 0.27% 0.42%	4 720 0.56% 0.14% 16 8,717 0.18% 0.05% 7 720 0.97% 0.56%	3 744 0.40% 0.19% 6 9,033 0.07% 0.05% 8 744 1.08% 0.66%	0 720 0.00% 0.16% 0 8,723 0.00% 0.04% 3 720 0.42% 0.62%	0 744 0.00% 0.14% 0 9,021 0.00% 0.04% 2 744 0.27% 0.57%	2 744 0.27% 0.15% 5 9,071 0.06% 0.04% 12 744 1.61% 0.70%	1 720 0.14% 0.15% 2 8,723 0.02% 0.04% 11 720 1.53% 0.79%	0 744 0.00% 0.14% 0 8,990 0.00% 0.03% 24 744 3.23% 1.04%	0 721 0.00% 0.12% 0 8,763 0.00% 0.03% 0 721 0.00% 0.95%	0 744 0.00% 0.11% 0 8,993 0.00% 0.03% 0 744 0.00% 0.87%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved Days to Correction * Avg. number of days to corrections	in the month in the month year-to-date in the month in the month in the month year-to-date in the month year-to-date in the month	0 744 0.00% 0.00% 0 9,021 0.00% 0.00% 7 744 0.94% 0.94%	0 672 0.00% 0.00% 0 8,112 0.00% 0.00% 0 672 0.00% 0.49%	0 743 0.00% 0.00% 0 9,002 0.00% 0.00% 2 743 0.27% 0.42%	4 720 0.56% 0.14% 16 8,717 0.18% 0.05% 7 720 0.97% 0.56%	3 744 0.40% 0.19% 6 9,033 0.07% 0.05% 8 744 1.08% 0.66%	0 720 0.00% 0.16% 0 8,723 0.00% 0.04% 3 720 0.42% 0.62%	0 744 0.00% 0.14% 0 9,021 0.00% 0.04% 2 744 0.27% 0.57%	2 744 0.27% 0.15% 5 9,071 0.06% 0.04% 12 744 1.61% 0.70%	1 720 0.14% 0.15% 2 8,723 0.02% 0.04% 11 720 1.53% 0.79%	0 744 0.00% 0.14% 0 8,990 0.00% 0.03% 24 744 3.23% 1.04%	0 721 0.00% 0.12% 0 8,763 0.00% 0.03% 0 721 0.00% 0.95%	0 744 0.00% 0.11% 0 8,993 0.00% 0.03% 0 744 0.00% 0.87%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved Days to Correction Avg. number of days to correction	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month in the month in the month year-to-date	0 744 0.00% 0.00% 0 9,021 0.00% 0.00% 7 744 0.94%	0 672 0.00% 0.00% 0 8,112 0.00% 0.00% 0.00%	0 743 0.00% 0.00% 0 9,002 0.00% 0.00% 2 743 0.27% 0.42%	4 720 0.56% 0.14% 16 8,717 0.18% 0.05% 7 720 0.97% 0.56%	3 744 0.40% 0.19% 6 9,033 0.07% 0.05% 8 744 1.08% 0.66%	0 720 0.00% 0.16% 0 8,723 0.00% 0.04% 3 720 0.42% 0.62%	0 744 0.00% 0.14% 0 9,021 0.00% 0.04% 2 744 0.27% 0.57%	2 744 0.27% 0.15% 5 9,071 0.06% 0.04% 12 744 1.61% 0.70%	1 720 0.14% 0.15% 2 8,723 0.02% 0.04% 11 720 1.53% 0.79%	0 744 0.00% 0.14% 0 8,990 0.00% 0.03% 24 744 3.23% 1.04%	0 721 0.00% 0.12% 0 8,763 0.00% 0.03% 0 721 0.00% 0.95%	0 744 0.00% 0.11% 0 8,993 0.00% 0.03% 0 744 0.00% 0.87%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved Yof hours reserved Days to Correction Avg. number of days to correction Days Without Corrections	in the month in the month year-to-date in the month in the month in the month year-to-date in the month year-to-date in the month year-to-date	0 744 0.00% 0.00% 0 9,021 0.00% 0.00% 7 744 0.94% 0.94%	0 672 0.00% 0.00% 0 8,112 0.00% 0.00% 0 672 0.00% 0.49%	0 743 0.00% 0.00% 0 9,002 0.00% 0.00% 2 743 0.27% 0.42% 0.00 0.00	4 720 0.56% 0.14% 16 8,717 0.18% 0.05% 7 720 0.97% 0.56% 2.00 2.00	3 744 0.40% 0.19% 6 9,033 0.07% 0.05% 8 744 1.08% 0.66% 2.00 2.00	0 720 0.00% 0.16% 0 8,723 0.00% 0.04% 3 720 0.42% 0.62%	0 744 0.00% 0.14% 0 9,021 0.00% 0.04% 2 744 0.27% 0.57%	2 744 0.27% 0.15% 5 9,071 0.06% 0.04% 12 744 1.61% 0.70% 2.00 2.00	1 720 0.14% 0.15% 2 8,723 0.02% 0.04% 11 720 1.53% 0.79% 3.00 2.14	0 744 0.00% 0.14% 0 8,990 0.00% 0.03% 24 744 3.23% 1.04% 0.00 2.14	0 721 0.00% 0.12% 0 8,763 0.00% 0.03% 0 721 0.00% 0.95%	0 744 0.00% 0.11% 0 8,993 0.00% 0.03% 0 744 0.00% 0.87%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved Days to Correction Avg. number of days to correction	in the month in the month year-to-date in the month in the month in the month year-to-date in the month year-to-date in the month	0 744 0.00% 0.00% 0 9,021 0.00% 0.00% 7 744 0.94% 0.94%	0 672 0.00% 0.00% 0 8,112 0.00% 0.00% 0 672 0.00% 0.49%	0 743 0.00% 0.00% 0 9,002 0.00% 0.00% 2 743 0.27% 0.42%	4 720 0.56% 0.14% 16 8,717 0.18% 0.05% 7 720 0.97% 0.56%	3 744 0.40% 0.19% 6 9,033 0.07% 0.05% 8 744 1.08% 0.66%	0 720 0.00% 0.16% 0 8,723 0.00% 0.04% 3 720 0.42% 0.62%	0 744 0.00% 0.14% 0 9,021 0.00% 0.04% 2 744 0.27% 0.57%	2 744 0.27% 0.15% 5 9,071 0.06% 0.04% 12 744 1.61% 0.70%	1 720 0.14% 0.15% 2 8,723 0.02% 0.04% 11 720 1.53% 0.79%	0 744 0.00% 0.14% 0 8,990 0.00% 0.03% 24 744 3.23% 1.04%	0 721 0.00% 0.12% 0 8,763 0.00% 0.03% 0 721 0.00% 0.95%	0 744 0.00% 0.11% 0 8,993 0.00% 0.03% 0 744 0.00% 0.87%

<sup>\*</sup>Calendar days from reservation date; for June 2018 forward, business days from market date

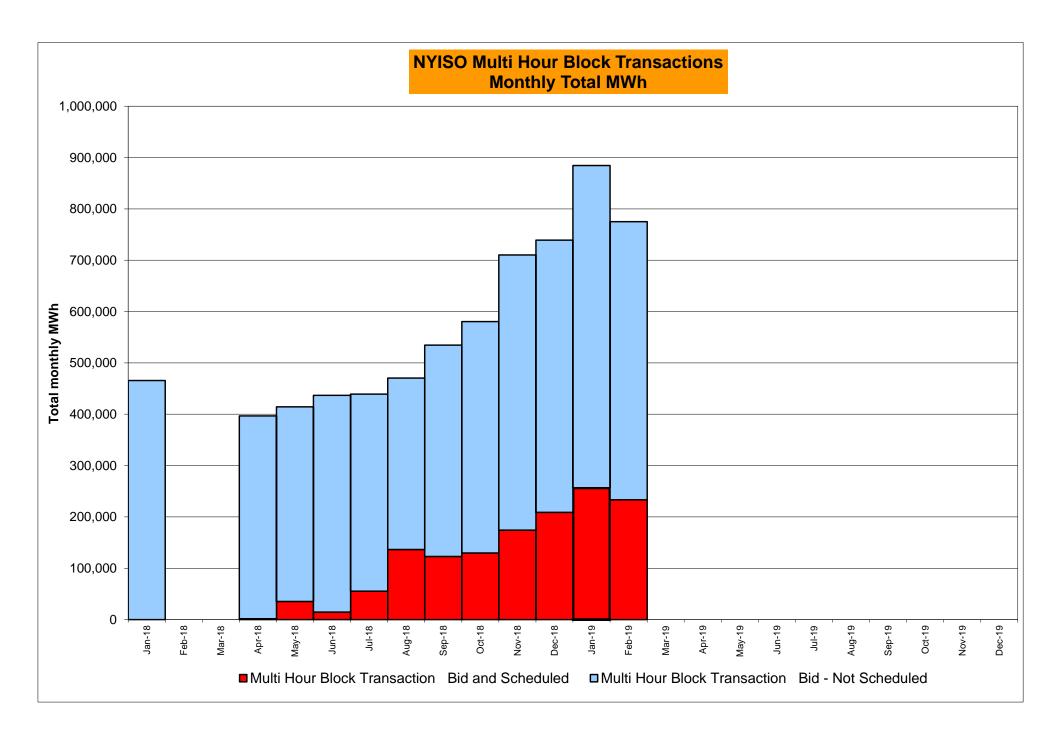


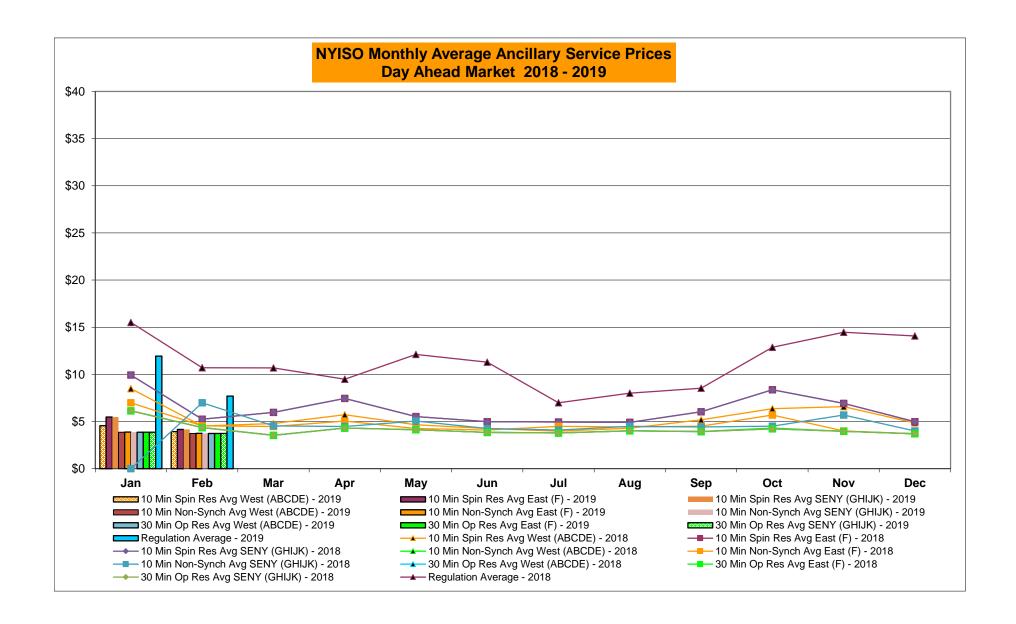


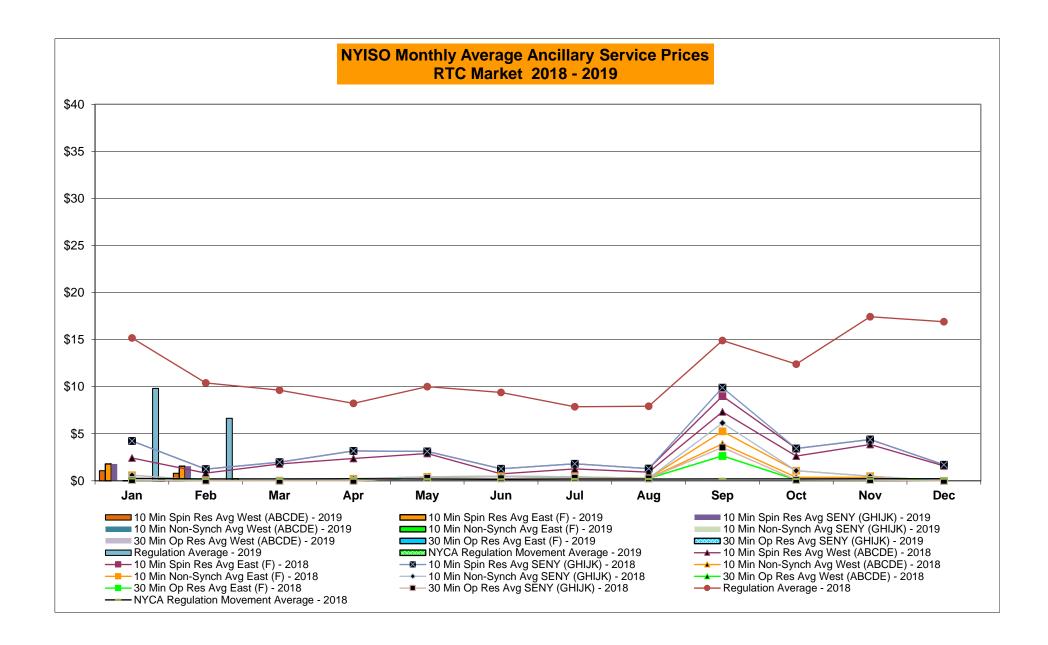


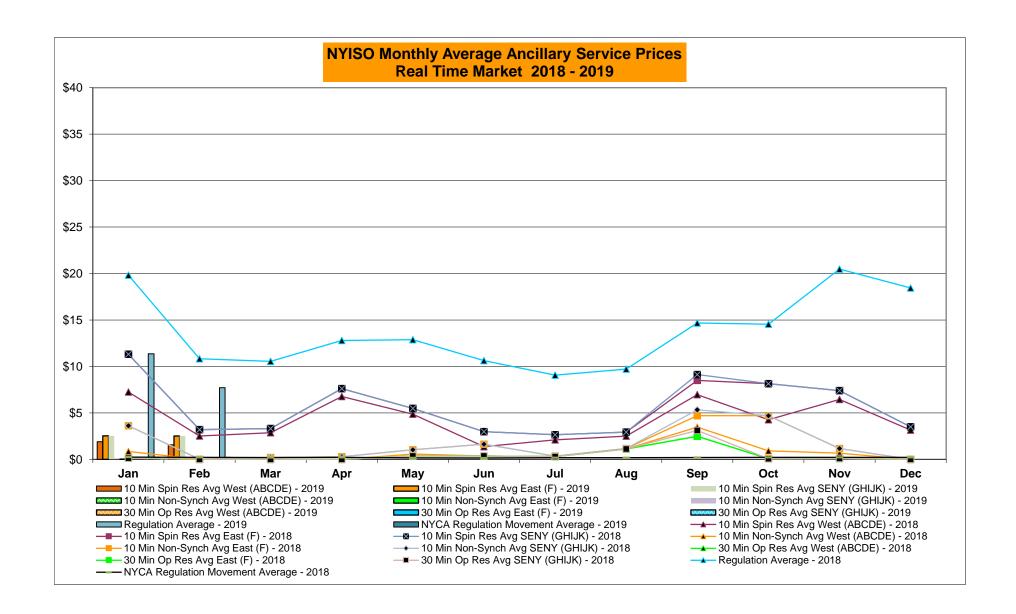


#### Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2019 **Virtual Supply Bid Virtual Load Bid Virtual Supply Bid Virtual Load Bid Virtual Supply Bid Virtual Load Bid** Not Not Not Not Not Not Zone Date Scheduled Scheduled Scheduled Scheduled Zone Date Scheduled Scheduled Scheduled Scheduled Zone Date Scheduled Scheduled Scheduled Scheduled DUNWOD WEST MHK VL 9,007 1,609 797 Jan-19 Jan-19 2,651 Jan-19 5,211 1,171 117 1,965 471 1,370 798 203 Feb-19 6,628 2,000 1,397 921 Feb-19 872 1,709 596 Feb-19 1,064 494 3,273 259 Mar-19 Mar-19 Mar-19 Apr-19 Apr-19 Apr-19 May-19 May-19 May-19 Jun-19 Jun-19 Jun-19 Jul-19 Jul-19 Jul-19 Aug-19 Aug-19 Aug-19 Sep-19 Sep-19 Sep-19 Oct-19 Oct-19 Oct-19 Nov-19 Nov-19 Nov-19 Dec-19 Dec-19 Dec-19 GENESE Jan-19 527 153 3,560 529 CAPITL 962 1,550 N.Y.C. Jan-19 3,061 2,599 Jan-19 3,042 1,424 3,665 1,366 Feb-19 896 3,776 520 Feb-19 2,591 485 Feb-19 2,545 2,025 2,248 1,851 1,756 1,648 Mar-19 Mar-19 Mar-19 Apr-19 Apr-19 Apr-19 May-19 May-19 May-19 Jun-19 Jun-19 Jun-19 Jul-19 Jul-19 Jul-19 Aug-19 Aug-19 Aug-19 Sep-19 Sep-19 Sep-19 Oct-19 Oct-19 Oct-19 Nov-19 Nov-19 Nov-19 Dec-19 Dec-19 Dec-19 NORTH 484 6,406 HUD VL 856 980 7,130 LONGIL Jan-19 540 1,553 Jan-19 9,176 Jan-19 3,362 2,135 3,091 1,056 Feb-19 431 359 6,559 1,743 Feb-19 977 843 7,408 7,858 Feb-19 2,514 1,297 3,446 1,425 Mar-19 Mar-19 Mar-19 Apr-19 Apr-19 Apr-19 May-19 May-19 May-19 Jun-19 Jun-19 Jun-19 Jul-19 Jul-19 Jul-19 Aug-19 Aug-19 Aug-19 Sep-19 Sep-19 Sep-19 Oct-19 Oct-19 Oct-19 Nov-19 Nov-19 Nov-19 Dec-19 Dec-19 Dec-19 CENTRL Jan-19 3,795 374 30,145 507 MILLWD Jan-19 405 386 2,051 169 NYISO Jan-19 27,683 14,720 64,802 15,203 Feb-19 3.059 123 29,111 609 Feb-19 540 138 1,311 247 Feb-19 22,118 7,905 62,089 17,582 Mar-19 Mar-19 Mar-19 Apr-19 Apr-19 Apr-19 May-19 May-19 May-19 Jun-19 Jun-19 Jun-19 Jul-19 Jul-19 Jul-19 Aug-19 Aug-19 Aug-19 Sep-19 Sep-19 Sep-19 Oct-19 Oct-19 Oct-19 Nov-19 Nov-19 Nov-19 Dec-19 Dec-19 Dec-19





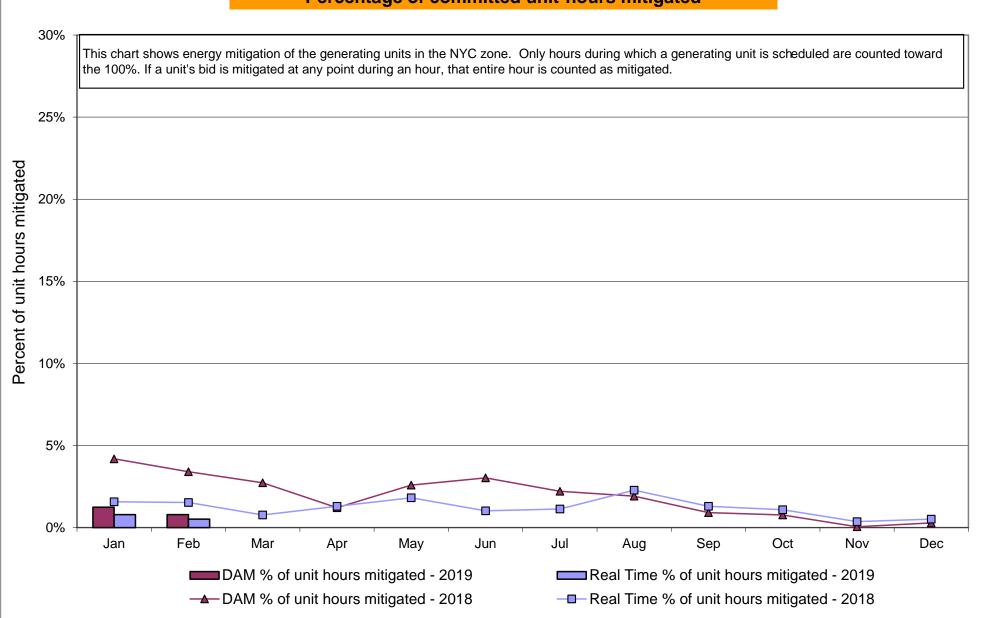


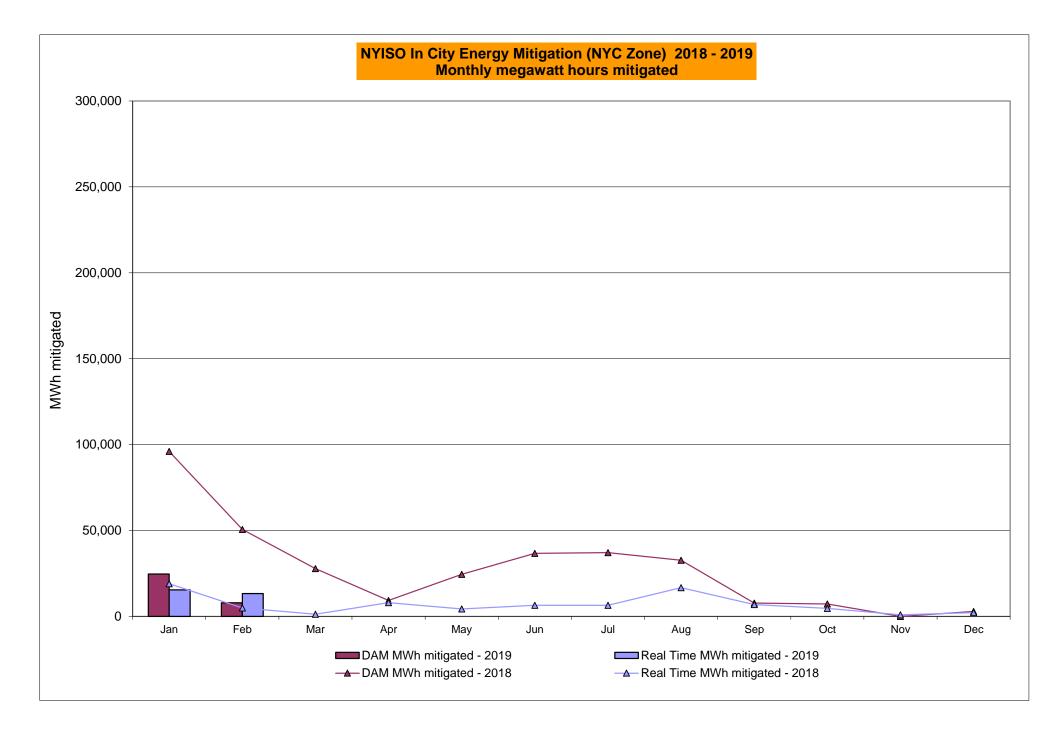


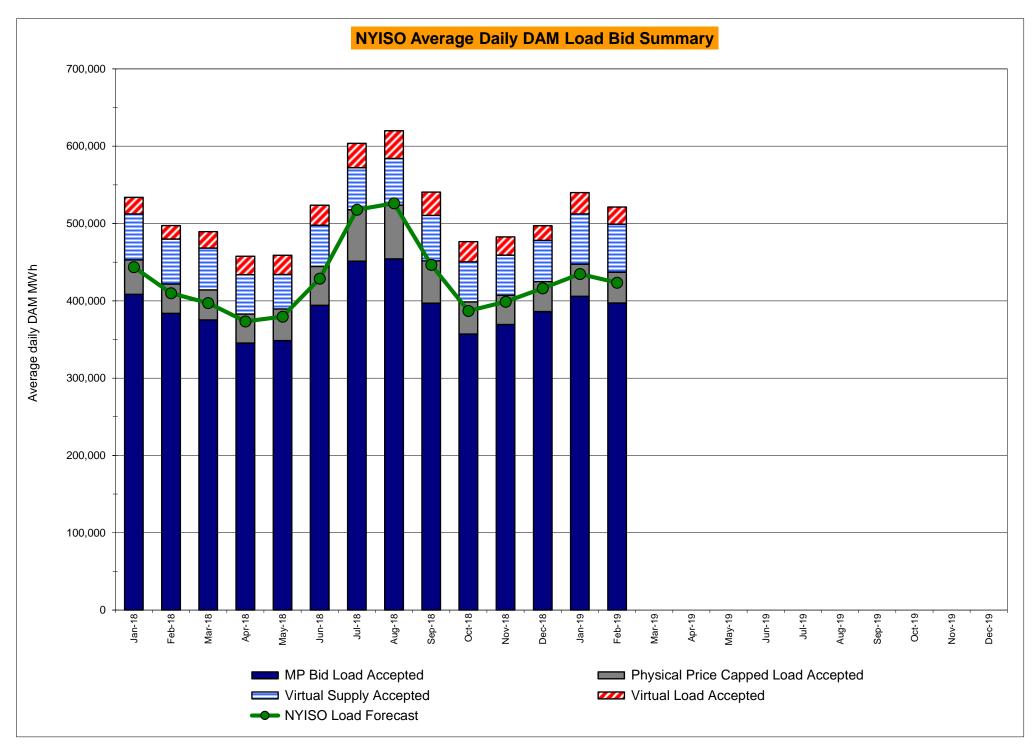
### NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH)

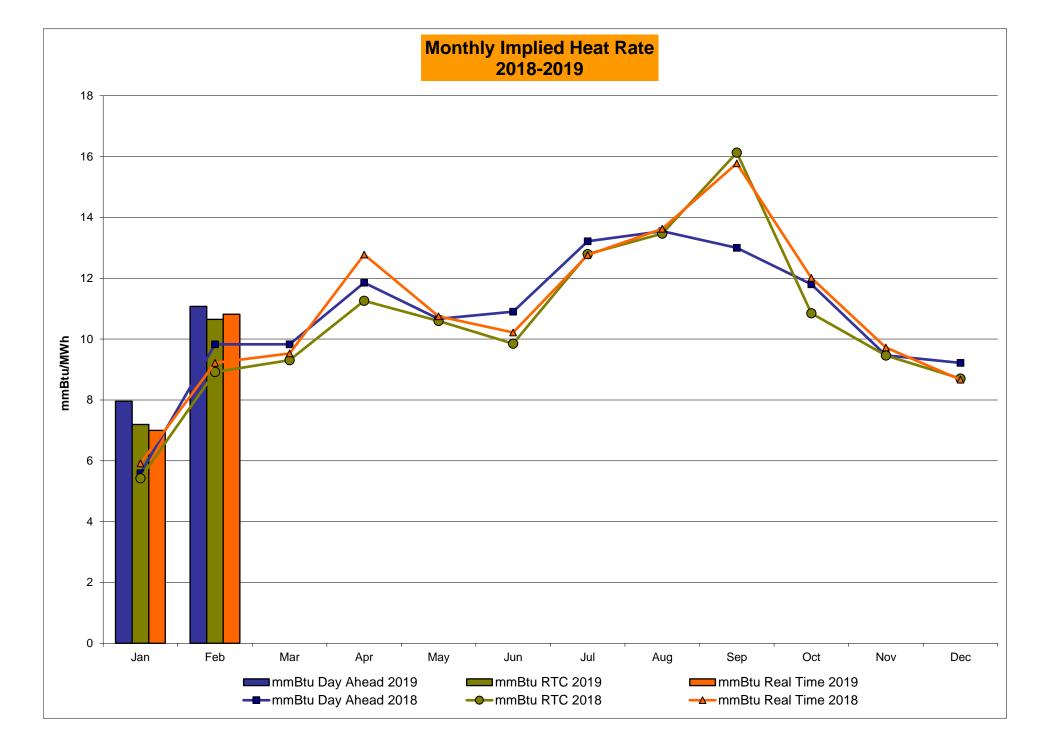
<u>2019</u>	January	February	March	<u>April</u>	<u>May</u>	<u>June</u>	July	August	September	<u>October</u>	November	December
Day Ahead Market	<u>January</u>	<u>r ebruary</u>	<u>iviai Ci i</u>	Арш	iviay	<u>Julie</u>	<u>July</u>	August	<u>September</u>	<u>October</u>	November	December
10 Min Spin SENY (GHIJK)	5.47	4.17										
10 Min Spin East (F)	5.47	4.17										
10 Min Spin West (ABCDE)	4.56	3.94										
10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F)	3.88 3.88	3.75 3.75										
10 Min Non Synch West (ABCDE)	3.86	3.74										
30 Min SENY (GHIJK)	3.86	3.74										
30 Min East (F)	3.86	3.74										
30 Min West (ABCDE)	3.86	3.74 7.69										
Regulation	11.94	7.09										
RTC Market 10 Min Spin SENY (GHIJK)	1 90	1.55										
10 Min Spin SENT (GHISK)	1.80 1.80	1.55										
10 Min Spin West (ABCDE)	1.08	0.80										
10 Min Non Synch SENY (GHIJK)	0.01	0.08										
10 Min Non Synch East (F)	0.01	0.08										
10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK)	0.00 0.00	0.01 0.01										
30 Min East (F)	0.00	0.01										
30 Min West (ABCDE)	0.00	0.01										
Regulation	9.81	6.64										
NYCA Regulation Movement	0.23	0.22										
Real Time Market		0 = 4										
10 Min Spin SENY (GHIJK) 10 Min Spin East (F)	2.53 2.53	2.51 2.51										
10 Min Spin West (ABCDE)	1.89	1.57										
10 Min Non Synch SENY (GHIJK)	0.03	0.18										
10 Min Non Synch East (F)	0.03	0.18										
10 Min Non Synch West (ABCDE)	0.00	0.01										
30 Min SENY (GHIJK) 30 Min East (F)	0.00 0.00	0.01 0.01										
30 Min West (ABCDE)	0.00	0.01										
Regulation	11.36	7.72										
NYCA Regulation Movement	0.22	0.22										
<u>2018</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	May	<u>June</u>	<u>July</u>	<u>August</u>	September	October	November	December
Day Ahead Market	<del></del>			<u>April</u>			<u>July</u>					
<u>Day Ahead Market</u> 10 Min Spin SENY (GHIJK)	9.93	5.24	5.97	7.45	5.52	4.98	4.95	4.91	6.04	8.37	6.93	4.99
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)	9.93 9.93	5.24 5.24	5.97 5.97	7.45 7.45	5.52 5.52	4.98 4.98	4.95 4.95	4.91 4.91	6.04 6.04	8.37 8.37	6.93 6.93	4.99 4.99
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)	9.93 9.93 8.49	5.24 5.24 4.53	5.97 5.97 4.78	7.45 7.45 5.73	5.52 5.52 4.65	4.98 4.98 4.26	4.95 4.95 3.98	4.91 4.91 4.30	6.04 6.04 5.18	8.37 8.37 6.36	6.93 6.93 6.57	4.99 4.99 4.86
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)	9.93 9.93	5.24 5.24	5.97 5.97	7.45 7.45	5.52 5.52	4.98 4.98	4.95 4.95	4.91 4.91	6.04 6.04	8.37 8.37	6.93 6.93	4.99 4.99 4.86 3.71 3.71
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)	9.93 9.93 8.49 6.99 6.99 6.15	5.24 5.24 4.53 4.54 4.54 4.36	5.97 5.97 4.78 4.48 4.48 3.54	7.45 7.45 5.73 5.05 5.05 4.31	5.52 5.52 4.65 4.26 4.26 4.13	4.98 4.98 4.26 4.09 4.09 3.85	4.95 4.95 3.98 4.49 4.49 3.80	4.91 4.91 4.30 4.43 4.43 4.03	6.04 6.04 5.18 4.51 4.51 3.95	8.37 8.37 6.36 5.69 5.69 4.31	6.93 6.93 6.57 4.00 4.00 3.97	4.99 4.99 4.86 3.71 3.71 3.70
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)	9.93 9.93 8.49 6.99 6.99 6.15 6.14	5.24 5.24 4.53 4.54 4.54 4.36 4.36	5.97 5.97 4.78 4.48 4.48 3.54 3.54	7.45 7.45 5.73 5.05 5.05 4.31 4.31	5.52 5.52 4.65 4.26 4.26 4.13 4.13	4.98 4.98 4.26 4.09 4.09 3.85 3.85	4.95 4.95 3.98 4.49 4.49 3.80 3.79	4.91 4.91 4.30 4.43 4.43 4.03 4.02	6.04 6.04 5.18 4.51 4.51 3.95 3.94	8.37 8.37 6.36 5.69 5.69 4.31 4.22	6.93 6.93 6.57 4.00 4.00 3.97 3.97	4.99 4.99 4.86 3.71 3.71 3.70 3.70
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)	9.93 9.93 8.49 6.99 6.15 6.14 6.14	5.24 5.24 4.53 4.54 4.54 4.36 4.36	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54	7.45 7.45 5.73 5.05 5.05 4.31 4.31	5.52 5.52 4.65 4.26 4.26 4.13 4.13	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22	6.93 6.93 6.57 4.00 4.00 3.97 3.97	4.99 4.99 4.86 3.71 3.71 3.70 3.70
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)	9.93 9.93 8.49 6.99 6.99 6.15 6.14	5.24 5.24 4.53 4.54 4.54 4.36 4.36	5.97 5.97 4.78 4.48 4.48 3.54 3.54	7.45 7.45 5.73 5.05 5.05 4.31 4.31	5.52 5.52 4.65 4.26 4.26 4.13 4.13	4.98 4.98 4.26 4.09 4.09 3.85 3.85	4.95 4.95 3.98 4.49 4.49 3.80 3.79	4.91 4.91 4.30 4.43 4.43 4.03 4.02	6.04 6.04 5.18 4.51 4.51 3.95 3.94	8.37 8.37 6.36 5.69 5.69 4.31 4.22	6.93 6.93 6.57 4.00 4.00 3.97 3.97	4.99 4.99 4.86 3.71 3.71 3.70 3.70
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min East (F)	9.93 9.93 8.49 6.99 6.15 6.14 6.14	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31	5.52 5.52 4.65 4.26 4.26 4.13 4.13 4.13	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 3.85	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97	4.99 4.99 4.86 3.71 3.70 3.70 3.70 3.70
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  RTC Market  10 Min Spin SENY (GHIJK)	9.93 9.93 8.49 6.99 6.99 6.15 6.14 6.14 15.51	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 9.49	5.52 5.52 4.65 4.26 4.26 4.13 4.13 4.13 4.13 12.11	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 11.30	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 6.99	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 12.88	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47	4.99 4.86 3.71 3.70 3.70 3.70 3.70 14.07
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  RTC Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)	9.93 9.93 8.49 6.99 6.99 6.15 6.14 6.14 15.51	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 9.49	5.52 5.52 4.65 4.26 4.26 4.13 4.13 4.13 4.13 12.11	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 11.30	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 6.99	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47	4.99 4.99 4.86 3.71 3.70 3.70 3.70 3.70 14.07
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  RTC Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)	9.93 9.93 8.49 6.99 6.15 6.14 6.14 15.51 4.23 4.23 2.43	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 9.49	5.52 5.52 4.65 4.26 4.26 4.13 4.13 4.13 4.13 12.11	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 11.30	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 6.99	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 1.29 0.93	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47 4.39 4.39 3.85	4.99 4.99 4.86 3.71 3.70 3.70 3.70 3.70 14.07
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  RTC Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Spin West (ABCDE)	9.93 9.93 8.49 6.99 6.99 6.15 6.14 6.14 15.51 4.23 4.23 2.43 0.59	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.98 1.79 0.01	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 9.49 3.17 3.17 2.38 0.22	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 6.99 1.81 1.27 0.42	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 1.29 0.93 0.27	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88 3.43 3.43 2.63 1.07	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50	4.99 4.99 4.86 3.71 3.70 3.70 3.70 3.70 14.07
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  RTC Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)	9.93 9.93 8.49 6.99 6.15 6.14 6.14 15.51 4.23 4.23 2.43	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 9.49	5.52 5.52 4.65 4.26 4.26 4.13 4.13 4.13 4.13 12.11	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 11.30	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 6.99	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 1.29 0.93	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47 4.39 4.39 3.85	4.99 4.86 3.71 3.70 3.70 3.70 3.70 14.07 1.71 1.58 0.00 0.00 0.00
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  RTC Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min Non Synch West (ABCDE)	9.93 9.93 8.49 6.99 6.99 6.15 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.08	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.03 0.02 0.02	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.98 1.79 0.01 0.01 0.00 0.00	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 9.49 3.17 3.17 2.38 0.22 0.22 0.00 0.00	5.52 5.52 4.65 4.26 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.33 0.32	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.49 0.27 0.27	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 6.99  1.81 1.81 1.27 0.42 0.42 0.33 0.33	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 1.29 0.93 0.27 0.27 0.25 0.25	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92 3.55	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88 3.43 3.43 2.63 1.07 1.07 0.38 0.11	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50 0.50 0.38 0.09	4.99 4.86 3.71 3.71 3.70 3.70 3.70 14.07  1.71 1.58 0.00 0.00 0.00 0.00
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  RTC Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min SENY (GHIJK)	9.93 9.93 8.49 6.99 6.99 6.15 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.08 0.08	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 4.36 4.36 2.000 0.000 0.000 0.000 0.000 0.000	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.98 1.79 0.01 0.01 0.00 0.00 0.00	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 9.49 3.17 3.17 2.38 0.22 0.22 0.00 0.00	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.33 0.32 0.32	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 11.30  1.28 1.28 0.74 0.49 0.49 0.27 0.27 0.27	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 3.79 6.99  1.81 1.81 1.27 0.42 0.42 0.42 0.33 0.33 0.33	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 1.29 0.93 0.27 0.25 0.25 0.25	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92 3.55 2.65	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88 3.43 2.63 1.07 1.07 0.38 0.11 0.11	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50 0.50 0.38 0.09 0.09	4.99 4.86 3.71 3.70 3.70 3.70 3.70 3.70 14.07  1.71 1.58 0.00 0.00 0.00 0.00 0.00
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  RTC Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch West (ABCDE)  30 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min SENY (GHIJK)	9.93 9.93 8.49 6.99 6.15 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.08 0.08 0.08	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.03 0.02 0.02 0.02 0.02	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.01 0.00 0.00 0.00	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 9.49 3.17 3.17 2.38 0.22 0.22 0.00 0.00 0.00	5.52 5.52 4.65 4.26 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 11.30  1.28 1.28 0.74 0.49 0.49 0.27 0.27 0.27 0.27	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 3.79 6.99  1.81 1.27 0.42 0.42 0.42 0.33 0.33 0.33 0.33	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 1.29 0.93 0.27 0.25 0.25 0.25 0.25	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92 3.55 2.65 2.65	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88 3.43 2.63 1.07 1.07 0.38 0.11 0.11	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50 0.50 0.38 0.09 0.09	4.99 4.86 3.71 3.70 3.70 3.70 3.70 3.70 14.07  1.71 1.58 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  RTC Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min SENY (GHIJK)	9.93 9.93 8.49 6.99 6.99 6.15 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.08 0.08	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 4.36 4.36 2.000 0.000 0.000 0.000 0.000 0.000	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.98 1.79 0.01 0.01 0.00 0.00 0.00	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 9.49 3.17 3.17 2.38 0.22 0.22 0.00 0.00	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.33 0.32 0.32	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 11.30  1.28 1.28 0.74 0.49 0.49 0.27 0.27 0.27	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 3.79 6.99  1.81 1.81 1.27 0.42 0.42 0.42 0.33 0.33 0.33	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 1.29 0.93 0.27 0.25 0.25 0.25	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92 3.55 2.65	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88 3.43 2.63 1.07 1.07 0.38 0.11 0.11	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50 0.50 0.38 0.09 0.09	4.99 4.86 3.71 3.70 3.70 3.70 3.70 3.70 14.07  1.71 1.58 0.00 0.00 0.00 0.00 0.00
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  RTC Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation	9.93 9.93 8.49 6.99 6.15 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.08 0.08 0.08 0.08 15.17	5.24 5.24 4.53 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.03 0.02 0.02 0.02 0.02 10.40	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.01 0.00 0.00 0.00 0.00 9.63	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 9.49 3.17 3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 8.22	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32 10.01	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 11.30  1.28 1.28 0.74 0.49 0.49 0.49 0.27 0.27 0.27 0.27 9.39	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 3.79 6.99  1.81 1.27 0.42 0.42 0.42 0.33 0.33 0.33 0.33 7.87	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 0.93 0.27 0.27 0.25 0.25 0.25 7.92	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92 3.55 2.65 2.65 14.90	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88 3.43 2.63 1.07 1.07 0.38 0.11 0.11 0.11	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50 0.50 0.50 0.38 0.09 0.09 17.43	4.99 4.86 3.71 3.70 3.70 3.70 3.70 14.07  1.71 1.58 0.00 0.00 0.00 0.00 0.00 0.00 0.00 16.90
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  RTC Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min SENY (GHIJK)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  NYCA Regulation Movement  Real Time Market  10 Min Spin SENY (GHIJK)	9.93 9.93 8.49 6.99 6.15 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.08 0.08 0.08 0.08 15.17 0.26	5.24 5.24 4.53 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.03 0.02 0.02 0.02 0.02 10.40 0.21	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.01 0.00 0.00 0.00 0.00 9.63 0.20	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 9.49  3.17 3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 0.00 8.22 0.22 7.62	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32 10.01 0.19	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 11.30  1.28 1.28 0.74 0.49 0.49 0.27 0.27 0.27 0.27 0.27 0.27 9.39 0.16	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 3.79 6.99  1.81 1.27 0.42 0.42 0.33 0.33 0.33 0.33 7.87 0.19	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 0.93 0.27 0.27 0.25 0.25 0.25 7.92 0.19	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92 3.55 2.65 2.65 14.90 0.20	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88 3.43 2.63 1.07 1.07 0.38 0.11 0.11 0.11 12.40 0.21	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50 0.50 0.50 0.38 0.09 0.09 17.43 0.22	4.99 4.86 3.71 3.70 3.70 3.70 3.70 14.07  1.71 1.58 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  RTC Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min SENY (GHIJK)  30 Min SENY (GHIJK)  30 Min West (ABCDE)  Regulation  NYCA Regulation Movement  Real Time Market  10 Min Spin SENY (GHIJK)  10 Min Spin SENY (GHIJK)	9.93 9.93 8.49 6.99 6.15 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.08 0.08 0.08 15.17 0.26	5.24 5.24 4.53 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.03 0.02 0.02 0.02 0.02 10.40 0.21	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.01 0.00 0.00 0.00 0.00 9.63 0.20	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 4.31 9.49  3.17 3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.0	5.52 5.52 4.65 4.26 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32 10.01 0.19	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 3.85 11.30  1.28 1.28 0.74 0.49 0.49 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 3.79 6.99  1.81 1.81 1.27 0.42 0.42 0.33 0.33 0.33 0.33 7.87 0.19  2.65 2.65	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 1.29 0.93 0.27 0.27 0.25 0.25 0.25 0.25 7.92 0.19	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92 3.55 2.65 2.65 14.90 0.20	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88 3.43 2.63 1.07 1.07 0.38 0.11 0.11 0.11 12.40 0.21	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50 0.50 0.50 0.38 0.09 0.09 17.43 0.22	4.99 4.86 3.71 3.70 3.70 3.70 3.70 14.07  1.71 1.58 0.00 0.00 0.00 0.00 0.00 0.00 0.00 16.90 0.22
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  RTC Market  10 Min Spin SENY (GHIJK)  10 Min Spin SENY (GHIJK)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  NYCA Regulation Movement  Real Time Market  10 Min Spin SENY (GHIJK)  10 Min Spin SENY (GHIJK)  10 Min Spin SENY (GHIJK)	9.93 9.93 8.49 6.99 6.15 6.14 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.08 0.08 0.08 15.17 0.26	5.24 5.24 4.53 4.54 4.36 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.03 0.02 0.02 0.02 0.02 0.02 10.40 0.21	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.00 0.00 0.00 0.00 0.00 9.63 0.20	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 4.31 9.49  3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.0	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32 10.01 0.19	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 3.85 11.30  1.28 1.28 0.74 0.49 0.49 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 3.79 6.99  1.81 1.81 1.27 0.42 0.42 0.42 0.33 0.33 0.33 0.33 7.87 0.19  2.65 2.65 2.10	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 1.29 0.93 0.27 0.25 0.25 0.25 0.25 7.92 0.19	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92 3.55 2.65 2.65 14.90 0.20	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88 3.43 2.63 1.07 1.07 0.38 0.11 0.11 0.11 12.40 0.21	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50 0.50 0.50 0.38 0.09 0.09 17.43 0.22	4.99 4.86 3.71 3.70 3.70 3.70 3.70 3.70 14.07  1.71 1.58 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  RTC Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min SENY (GHIJK)  30 Min SENY (GHIJK)  30 Min West (ABCDE)  Regulation  NYCA Regulation Movement  Real Time Market  10 Min Spin SENY (GHIJK)  10 Min Spin SENY (GHIJK)	9.93 9.93 8.49 6.99 6.15 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.08 0.08 0.08 15.17 0.26	5.24 5.24 4.53 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.03 0.02 0.02 0.02 0.02 10.40 0.21	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.01 0.00 0.00 0.00 0.00 9.63 0.20	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 4.31 9.49  3.17 3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.0	5.52 5.52 4.65 4.26 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32 10.01 0.19	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 3.85 11.30  1.28 1.28 0.74 0.49 0.49 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 3.79 6.99  1.81 1.81 1.27 0.42 0.42 0.33 0.33 0.33 0.33 7.87 0.19  2.65 2.65	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 1.29 0.93 0.27 0.27 0.25 0.25 0.25 0.25 7.92 0.19	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92 3.55 2.65 2.65 14.90 0.20	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88 3.43 2.63 1.07 1.07 0.38 0.11 0.11 0.11 12.40 0.21	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50 0.50 0.50 0.38 0.09 0.09 17.43 0.22	4.99 4.86 3.71 3.70 3.70 3.70 3.70 3.70 14.07  1.71 1.58 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  RTC Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  NYCA Regulation Movement  Real Time Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Spin West (ABCDE)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch SENY (GHIJK)	9.93 9.93 8.49 6.99 6.15 6.14 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.08 0.08 0.08 15.17 0.26 11.31 11.31 7.24 3.61 3.61 0.85	5.24 5.24 4.53 4.54 4.36 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.03 0.02 0.02 0.02 0.02 10.40 0.21 3.19 3.19 2.52 0.01 0.01 0.00	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.00 0.00 0.00 0.00 0.00 0.00 9.63 0.20 3.31 3.31 2.86 0.19 0.19 0.019	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 4.31 9.49  3.17 3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.0	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.33 0.32 0.32 0.32 10.01 0.19 5.48 5.48 4.86 1.03 1.03 0.57	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 3.85 11.30  1.28 1.28 0.74 0.49 0.49 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 3.79 6.99  1.81 1.81 1.27 0.42 0.42 0.33 0.33 0.33 0.33 7.87 0.19  2.65 2.65 2.10 0.35 0.35 0.29	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 1.29 0.93 0.27 0.25 0.25 0.25 0.25 7.92 0.19 2.93 2.93 2.50 1.16 1.16 1.12	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92 3.55 2.65 2.65 14.90 0.20 9.13 8.50 6.96 5.33 4.70 3.47	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88 3.43 2.63 1.07 1.07 0.38 0.11 0.11 12.40 0.21 8.14 8.14 4.26 4.70 4.70 0.92	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50 0.50 0.38 0.09 0.09 0.09 17.43 0.22 7.39 7.39 6.45 1.16 1.16 0.67	4.99 4.86 3.71 3.70 3.70 3.70 3.70 3.70 14.07  1.71 1.58 0.00 0.00 0.00 0.00 0.00 0.00 0.00 16.90 0.22  3.49 3.49 3.15 0.00 0.00 0.00 0.00 0.00
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  RTC Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  NYCA Regulation Movement  Real Time Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin East (F)  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)	9.93 9.93 8.49 6.99 6.15 6.14 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.08 0.08 0.08 15.17 0.26 11.31 11.31 7.24 3.61 3.61 0.85 0.13	5.24 5.24 4.53 4.54 4.36 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.02 0.02 0.02 0.02 0.02 10.40 0.21 3.19 3.19 2.52 0.01 0.00 0.00 0.00	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.00 0.00 0.00 0.00 0.00 9.63 0.20 3.31 3.31 2.86 0.19 0.19 0.09 0.19 0.00 0.00	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 4.31 9.49  3.17 2.38 0.22 0.02 0.00 0.00 0.00 0.00 0.00 0.0	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32 10.01 0.19 5.48 5.48 4.86 1.03 1.03 0.57 0.37	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 3.85 11.30  1.28 1.28 0.74 0.49 0.49 0.27 0.27 0.27 0.27 0.27 0.27 0.27 1.63 1.63 1.63 0.37 0.37	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 3.79 6.99  1.81 1.81 1.27 0.42 0.42 0.33 0.33 0.33 0.33 0.33 7.87 0.19  2.65 2.65 2.10 0.35 0.29 0.29	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 1.29 0.93 0.27 0.25 0.25 0.25 0.25 7.92 0.19 2.93 2.93 2.50 1.16 1.16 1.12 1.12	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92 3.55 2.65 2.65 14.90 0.20 9.13 8.50 6.96 5.33 4.70 3.47 3.11	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88 3.43 2.63 1.07 1.07 0.38 0.11 0.11 12.40 0.21 8.14 8.14 4.26 4.70 4.70 0.92 0.06	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47 4.39 4.39 4.39 3.85 0.50 0.50 0.50 0.38 0.09 0.09 17.43 0.22 7.39 7.39 6.45 1.16 1.16 0.67 0.10	4.99 4.86 3.71 3.70 3.70 3.70 3.70 3.70 14.07  1.71 1.58 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  RTC Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  NYCA Regulation Movement  Real Time Market  10 Min Spin SENY (GHIJK)  10 Min Spin SENY (GHIJK)  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Spin West (ABCDE)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min SENY (GHIJK)	9.93 9.93 8.49 6.99 6.15 6.14 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.08 0.08 0.08 15.17 0.26 11.31 11.31 7.24 3.61 3.61 0.85 0.13 0.13	5.24 5.24 4.53 4.54 4.36 4.36 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.02 0.02 0.02 0.02 0.02 10.40 0.21 3.19 3.19 2.52 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.0	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.00 0.00 0.00 0.00 0.00 0.00 9.63 0.20 3.31 3.31 2.86 0.19 0.19 0.00 0.00 0.00 0.00 0.00	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 4.31 9.49  3.17 3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.0	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32 10.01 0.19 5.48 5.48 4.86 1.03 1.03 0.57 0.37 0.37	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 3.85 11.30  1.28 1.28 0.74 0.49 0.49 0.27 0.27 0.27 0.27 0.27 0.27 0.27 1.63 1.63 1.63 1.63 0.37 0.37 0.37	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 3.79 6.99  1.81 1.81 1.27 0.42 0.42 0.42 0.33 0.33 0.33 0.33 7.87 0.19  2.65 2.65 2.10 0.35 0.29 0.29 0.29 0.29	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 1.29 0.93 0.27 0.25 0.25 0.25 0.25 7.92 0.19 2.93 2.93 2.50 1.16 1.12 1.12 1.12	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92 3.55 2.65 2.65 14.90 0.20 9.13 8.50 6.96 5.33 4.70 3.47 3.11 2.48	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88 3.43 2.63 1.07 1.07 0.38 0.11 0.11 12.40 0.21 8.14 8.14 4.26 4.70 4.70 0.92 0.06 0.06	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50 0.50 0.50 0.38 0.09 0.09 17.43 0.22 7.39 7.39 6.45 1.16 1.16 0.67 0.10	4.99 4.86 3.71 3.70 3.70 3.70 3.70 3.70 3.70 14.07  1.71 1.58 0.00 0.00 0.00 0.00 0.00 0.00 0.00 16.90 0.22  3.49 3.49 3.15 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  RTC Market  10 Min Spin SENY (GHIJK)  10 Min Spin West (ABCDE)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  NYCA Regulation Movement  Real Time Market  10 Min Spin SENY (GHIJK)  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  Regulation  NYCA Regulation Movement  Real Time Market  10 Min Spin SENY (GHIJK)  10 Min Spin SENY (GHIJK)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min SENY (GHIJK)	9.93 9.93 8.49 6.99 6.15 6.14 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.08 0.08 0.08 15.17 0.26 11.31 11.31 7.24 3.61 3.61 0.85 0.13 0.13	5.24 5.24 4.53 4.54 4.36 4.36 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.02 0.02 0.02 0.02 0.02 10.40 0.21 3.19 3.19 2.52 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.0	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.00 0.00 0.00 0.00 0.00 0.00 9.63 0.20 3.31 3.31 2.86 0.19 0.19 0.09 0.00 0.00 0.00 0.00 0.00	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 4.31 9.49  3.17 3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.0	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32 10.01 0.19 5.48 5.48 4.86 1.03 1.03 0.57 0.37 0.37 0.37 0.37	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 3.85 11.30  1.28 1.28 0.74 0.49 0.49 0.27 0.27 0.27 0.27 0.27 0.27 0.27 1.63 1.63 1.63 1.63 0.37 0.37 0.37 0.37	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 3.79 6.99  1.81 1.81 1.27 0.42 0.42 0.33 0.33 0.33 0.33 7.87 0.19  2.65 2.65 2.10 0.35 0.29 0.29 0.29 0.29 0.29	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 1.29 0.93 0.27 0.25 0.25 0.25 0.25 7.92 0.19 2.93 2.93 2.50 1.16 1.12 1.12 1.12	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92 3.55 2.65 2.65 14.90 0.20 9.13 8.50 6.96 5.33 4.70 3.47 3.11 2.48 2.48	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88 3.43 3.43 2.63 1.07 1.07 0.38 0.11 0.11 12.40 0.21 8.14 8.14 4.26 4.70 4.70 0.92 0.06 0.06 0.06	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50 0.50 0.38 0.09 0.09 17.43 0.22 7.39 7.39 6.45 1.16 1.16 0.67 0.10 0.10	4.99 4.86 3.71 3.70 3.70 3.70 3.70 3.70 3.70 14.07  1.71 1.58 0.00 0.00 0.00 0.00 0.00 0.00 16.90 0.22  3.49 3.49 3.15 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  RTC Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch West (ABCDE)  30 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  NYCA Regulation Movement  Real Time Market  10 Min Spin SENY (GHIJK)  10 Min Spin SENY (GHIJK)  10 Min Spin West (ABCDE)  10 Min Spin West (ABCDE)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch Beast (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min SENY (GHIJK)	9.93 9.93 8.49 6.99 6.15 6.14 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.08 0.08 0.08 15.17 0.26 11.31 11.31 7.24 3.61 3.61 0.85 0.13 0.13	5.24 5.24 4.53 4.54 4.36 4.36 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.02 0.02 0.02 0.02 0.02 10.40 0.21 3.19 3.19 2.52 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.0	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.00 0.00 0.00 0.00 0.00 0.00 9.63 0.20 3.31 3.31 2.86 0.19 0.19 0.00 0.00 0.00 0.00 0.00	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 4.31 9.49  3.17 3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.0	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32 10.01 0.19 5.48 5.48 4.86 1.03 1.03 0.57 0.37 0.37	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 3.85 11.30  1.28 1.28 0.74 0.49 0.49 0.27 0.27 0.27 0.27 0.27 0.27 0.27 1.63 1.63 1.63 1.63 0.37 0.37 0.37	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 3.79 6.99  1.81 1.81 1.27 0.42 0.42 0.42 0.33 0.33 0.33 0.33 7.87 0.19  2.65 2.65 2.10 0.35 0.29 0.29 0.29 0.29	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 1.29 0.93 0.27 0.25 0.25 0.25 0.25 7.92 0.19 2.93 2.93 2.50 1.16 1.12 1.12 1.12	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92 3.55 2.65 2.65 14.90 0.20 9.13 8.50 6.96 5.33 4.70 3.47 3.11 2.48	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88 3.43 2.63 1.07 1.07 0.38 0.11 0.11 12.40 0.21 8.14 8.14 4.26 4.70 4.70 0.92 0.06 0.06	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50 0.50 0.50 0.38 0.09 0.09 17.43 0.22 7.39 7.39 6.45 1.16 1.16 0.67 0.10	4.99 4.86 3.71 3.70 3.70 3.70 3.70 3.70 3.70 14.07  1.71 1.58 0.00 0.00 0.00 0.00 0.00 0.00 0.00 16.90 0.22  3.49 3.49 3.15 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0

## NYISO In City Energy Mitigation - AMP (NYC Zone) 2018 - 2019 Percentage of committed unit-hours mitigated

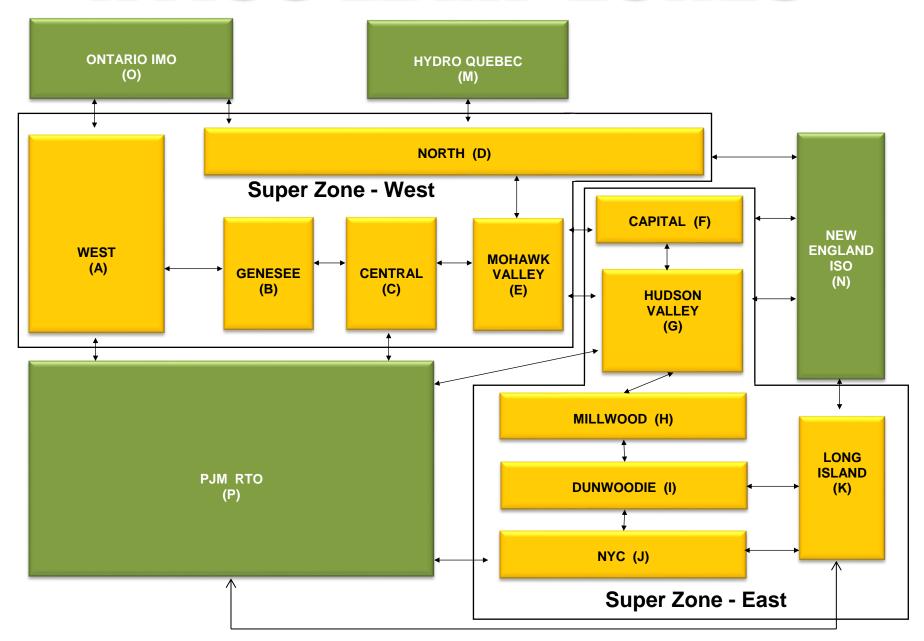








## NYISO LBMP ZONES



#### **Billing Codes for Chart C**

Chart - C Category Name	<b>Billing Code</b>	Billing Category Name
Bid Production Cost Guarantee Balancing	81203	Balancing NYISO Bid Production Cost Guarantee - Internal Units
Bid Production Cost Guarantee Balancing	81204	Balancing NYISO Bid Production Cost Guarantee - External Units
Bid Production Cost Guarantee Balancing	81205	Balancing NYISO Bid Production Cost Guarantee Expenditure due to Curtailed Imports
Bid Production Cost Guarantee Balancing	81208	Balancing NYISO Bid Production Cost Guarantee - Internal Units
Bid Production Cost Guarantee Balancing	81209	Balancing NYISO Bid Production Cost Guarantee - External Units
Bid Production Cost Guarantee Balancing	81213	Balancing NYISO Bid Production Cost Guarantee Expenditure due to Curtailed Imports
Bid Production Cost Guarantee DAM	81201	DAM NYISO Bid Production Cost Guarantee - Internal Units
Bid Production Cost Guarantee DAM	84001	EDRP/SCR Demand Response - Local
Bid Production Cost Guarantee DAM	84101	EDRP/SCR Demand Response - NYISO Wide
Bid Production Cost Guarantee DAM	81401	DAM Price Responsive Load Program
Bid Production Cost Guarantee DAM	81202	DAM NYISO Bid Production Cost Guarantee - External Units
Bid Production Cost Guarantee DAM	81206	DAM NYISO Bid Production Cost Guarantee - Internal Units
Bid Production Cost Guarantee DAM	81207	DAM NYISO Bid Production Cost Guarantee - External Units
Bid Production Cost Guarantee DAM Virtual	81501	DAM Virtual Bid Production Cost Guarantee
DAM Contract Balancing	81315	DAM Contract Balancing
DAM Contract Balancing	81317	DAM Contract Balancing
Local Reliability Balancing	81002	Balancing Local Reliability Bid Production Cost Guarantee
Local Reliability Balancing	83901	Margin Restoration (MOB) Revenue
Local Reliability DAM	81001	DAM Local Reliability Bid Production Cost Guarantee
NYISO Cost of Operations	80901	NYISO Cost Of Operations
NYISO Cost of Operations	80902	NYISO Cost Of Operations
NYISO Cost of Operations	83501	NYISO Cost Of Operations
NYISO Cost of Operations	83502	NYISO Cost Of Operations
Residuals Balancing	81302	Balancing Market Energy Residual
Residuals Balancing	81304	Balancing Market Loss Residual
Residuals Balancing	81305	Balancing Market Congestion Balancing
Residuals Balancing	81306	Emergency Energy Purchases
Residuals Balancing	81307	Emergency Energy Sales
Residuals Balancing	81309	Balancing Market Energy Residual
Residuals Balancing	81311	Balancing Market Loss Residual
Residuals Balancing	81312	Balancing Market Congestion Balancing
Residuals Balancing	81313	Emergency Energy Purchases
Residuals Balancing	81314	Emergency Energy Sales
Residuals DAM	81301	Day Ahead Market Energy Residual
Residuals DAM	81303	Day Ahead Market Loss Residual
Residuals DAM	81308	Day Ahead Market Energy Residual
Residuals DAM	81310	Day Ahead Market Loss Residual

Market Mitigation and Analysis Prepared: 3/8/2019 2:19 PM

# 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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