

Monthly Report

February 2019



Table of Contents

- Operations Performance Metrics Report
- Market Operation's Report
- Daily Loads
- Regulatory Filings

Operations Performance Metrics Monthly Report



February 2019 Report

Operations & Reliability Department New York Independent System Operator



Table of Contents

- Highlights
 - Operations Performance
- Reliability Performance Metrics
 - Alert State Declarations
 - Major Emergency State Declarations
 - IROL Exceedance Times
 - Balancing Area Control Performance
 - Reserve Activations
 - Disturbance Recovery Times
 - Load Forecasting Performance
 - Wind Forecasting Performance
 - Wind Performance and Curtailments
 - Lake Erie Circulation and ISO Schedules

• Broader Regional Market Performance Metrics

- PAR Interconnection Congestion Coordination Monthly Value
- PAR Interconnection Congestion Coordination Daily Value
- Regional Generation Congestion Coordination Monthly Value
- Regional Generation Congestion Coordination Daily Value
- Regional RT Scheduling PJM Monthly Value
- Regional RT Scheduling PJM Daily Value

Market Performance Metrics

- Monthly Statewide Uplift Components and Rate
- RTM Congestion Residuals Monthly Trend
- RTM Congestion Residuals Daily Costs
- RTM Congestion Residuals Event Summary
- RTM Congestion Residuals Cost Categories
- DAM Congestion Residuals Monthly Trend
- DAM Congestion Residuals Daily Costs
- DAM Congestion Residuals Cost Categories
- NYCA Unit Uplift Components Monthly Trend
- NYCA Unit Uplift Components Daily Costs
- Local Reliability Costs Monthly Trend & Commitment Hours
- TCC Monthly Clearing Price with DAM Congestion
- ICAP Spot Market Clearing Price
- UCAP Awards



February 2019 Operations Performance Highlights

- Peak load of 23,158 MW occurred on 02/01/2019 HB 18
- All-time winter capability period peak load of 25,738 MW occurred on 1/7/2014 HB 18
- 0 hours of Thunder Storm Alerts were declared
- 8.5 hours of NERC TLR level 3 curtailment
- NYISO achieved a wind energy record of 1,625MW on 02/08/2019 HB23 providing 9% of the state's electrical demand in that hour.
- The sustained high wind event forecasted for 02/24/2019-02/25/2019 resulted in additional local reliability commitments, various115kV transmission outages, approximately 75,000 distribution customer outages, and wind turbine cut-outs.
- The following table identifies the estimated production cost savings associated with the Broader Regional Market initiatives.

| | Current Month | Year-to-Date |
|---|---------------|--------------|
| | Value (\$M) | Value (\$M) |
| NY Savings from PJM-NY Congestion Coordination | \$1.01 | \$4.50 |
| NY Savings from PJM-NY Coordinated Transaction Scheduling | \$0.25 | \$0.41 |
| NY Savings from NE-NY Coordinated Transaction Scheduling | (\$0.17) | (\$0.21) |
| Total NY Savings | \$1.09 | \$4.70 |
| | | |
| Regional Savings from PJM-NY Coordinated Transaction Scheduling | \$0.30 | \$0.86 |
| Regional Savings from NE-NY Coordinated Transaction Scheduling | \$0.04 | \$0.15 |
| Total Regional Savings | \$0.34 | \$1.01 |

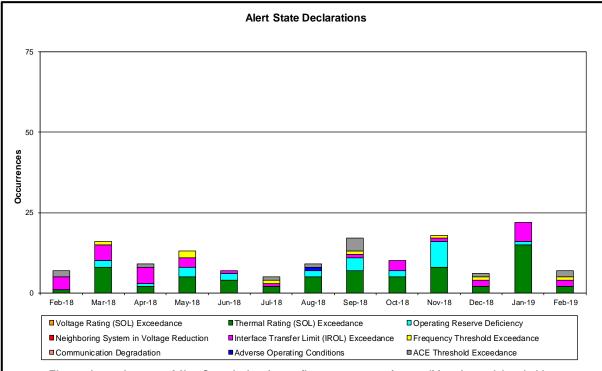
- Statewide uplift cost monthly average was (\$0.55)/MWh
- The following table identifies the Monthly ICAP spot market prices and the price delta.

| Spot Auction Price Results | NYCA | Lower Hudson Valley Zones | New York City Zone | Long Island Zone |
|----------------------------|--------|---------------------------|--------------------|------------------|
| March 2019 Spot Price | \$1.09 | \$1.54 | \$1.54 | \$1.09 |
| February 2019 Spot Price | \$0.84 | \$1.51 | \$1.51 | \$0.84 |
| Delta | \$0.25 | \$0.03 | \$0.03 | \$0.25 |

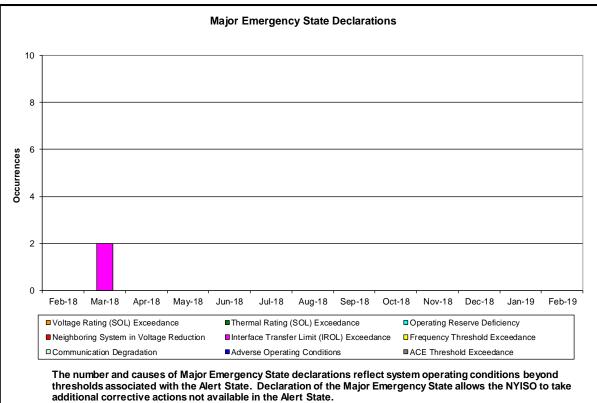
- NYCA Price increase by \$0.25 due to a decrease in Total Capacity Sold from NYCA Resources
- LI Price increase by \$0.25 due to a ROS decrease in Total Capacity Sold from NYCA resources, which set the price in LI.



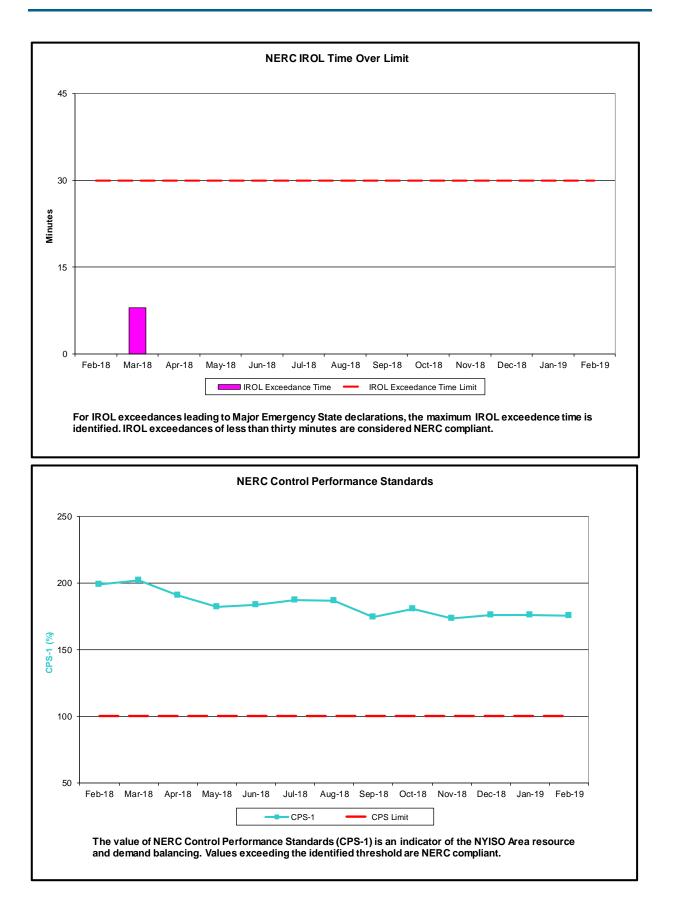
Reliability Performance Metrics



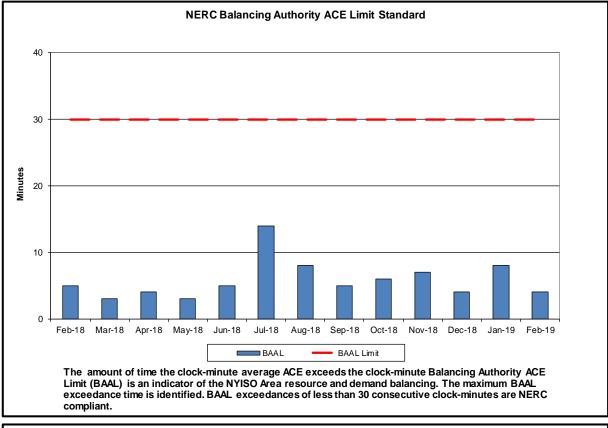
The number and causes of Alert State declarations reflect system operating conditions beyond thresholds associated with Normal and Warning States. Declaration of the Alert State allows the NYISO to take corrective actions not available in the Normal and Warning States.

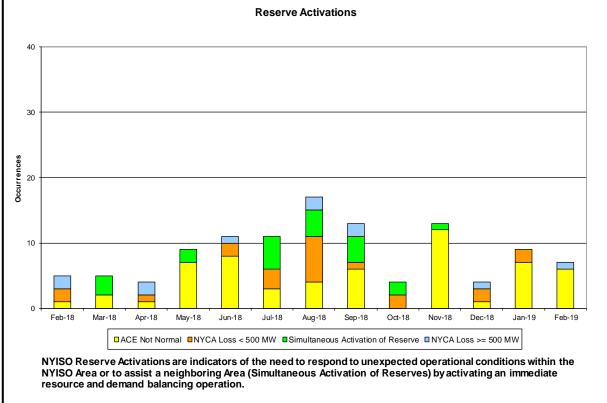




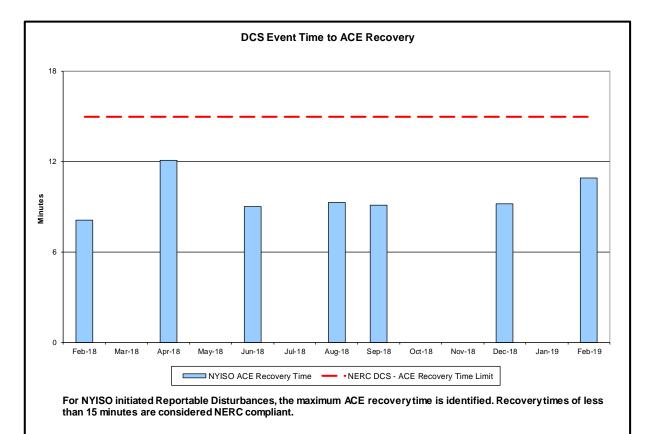


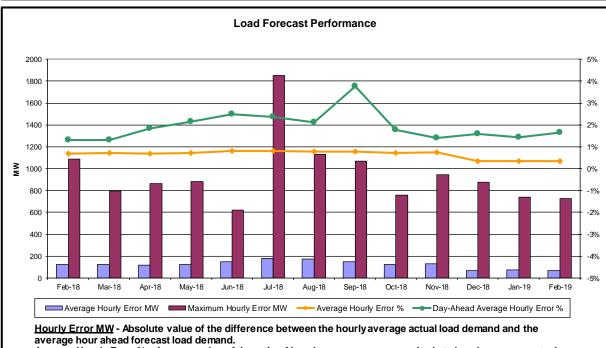












<u>Average Hourly Error %</u> - Average value of the ratio of hourly average error magnitude to hourly average actual load demand.

Day-Ahead Average Hourly Error % - Average across all hours of the month of the absolute value of the difference between actual load demand and the Day-Ahead forecast load demand, divided by the actual load demand.



1

feb.18

Marile

APTIN

Maying

Jun 18

Jult 18

AUGIN

<u>MAE Forecast</u> - Avg |actual wind generation - hour ahead forecast wind generation|/ Wind Capacity <u>MAE Persistence</u> - Avg |actual wind generation - hour ahead actual wind generation|/ Wind Capacity <u>Bias</u> - Avg (actual wind generation - hour ahead forecast wind generation)/ Wind Capacity

Sept 18

MAE Forecast MAE Persistence -Bias

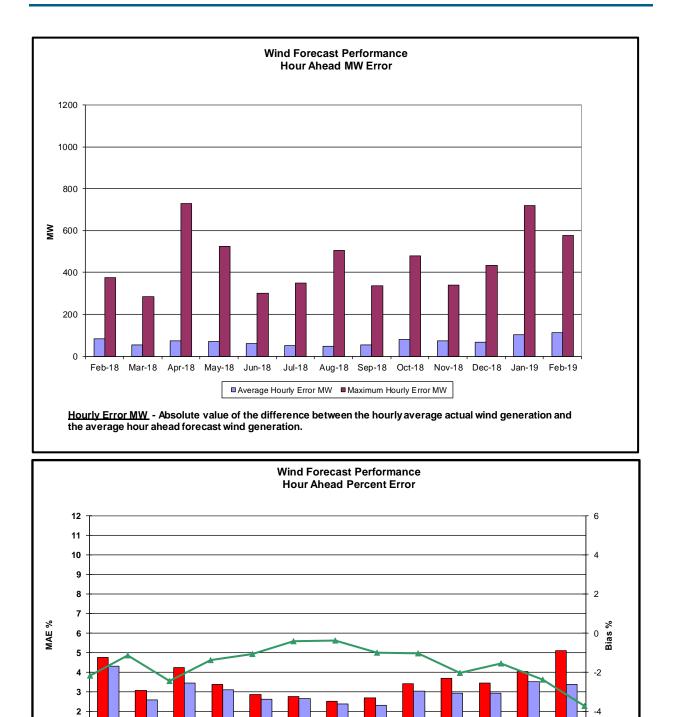
Oct^{r18}

H04.18

Decryo

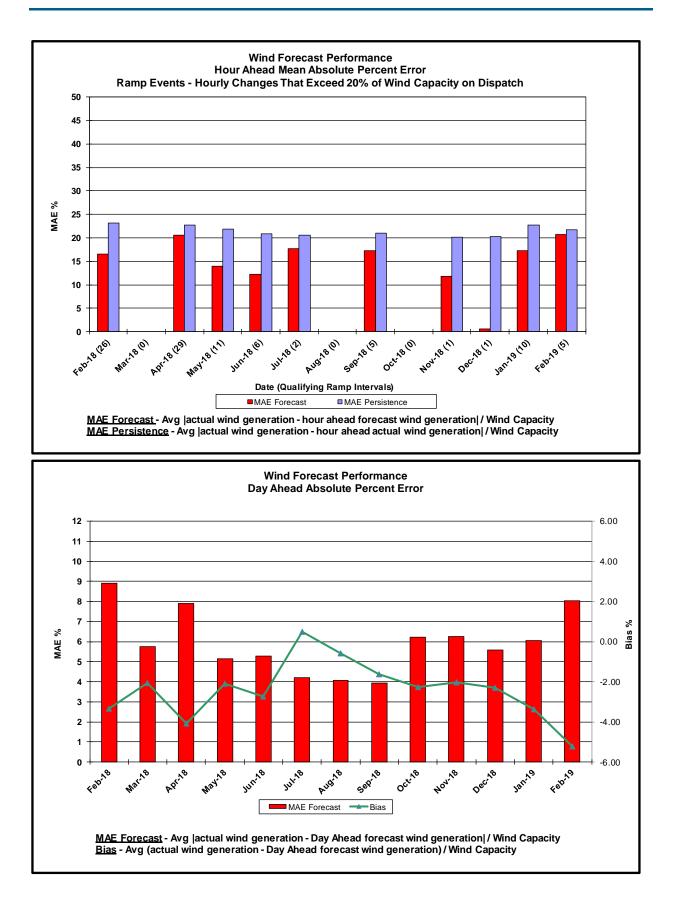
Jan 19

feb.19

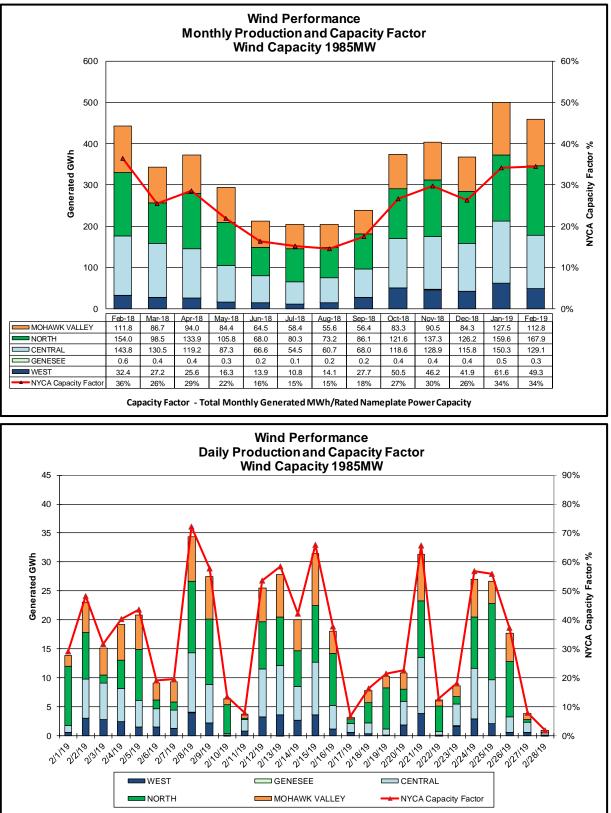


-6



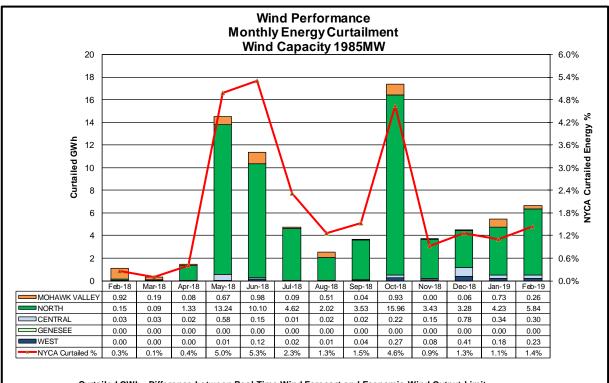




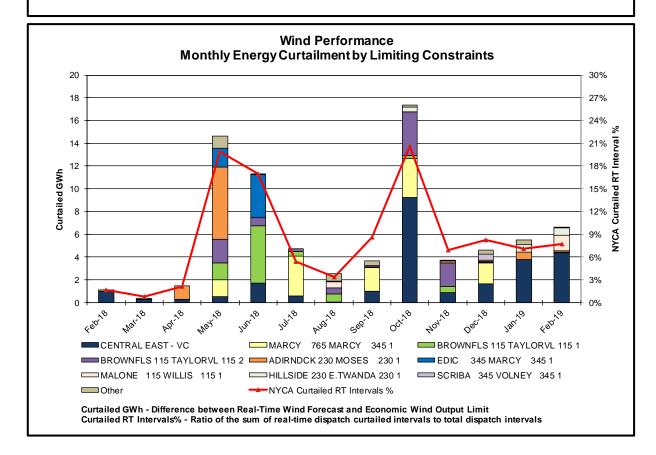


Capacity Factor - Total Daily Generated MWh/Rated Nameplate Power Capacity

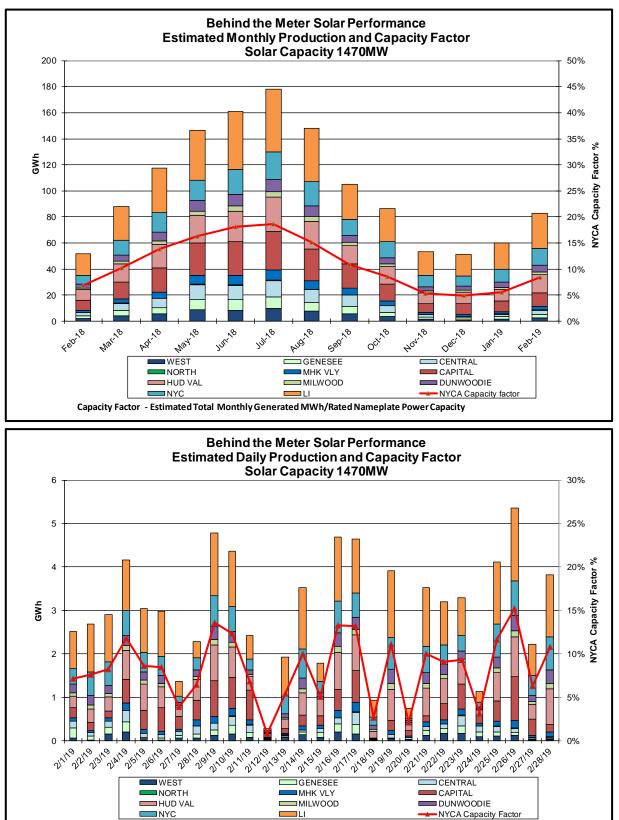


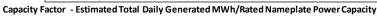


Curtailed GWh - Difference between Real-Time Wind Forecast and Economic Wind Output Limit Curtailed % - Ratio of Curtailed Energy to Total Production

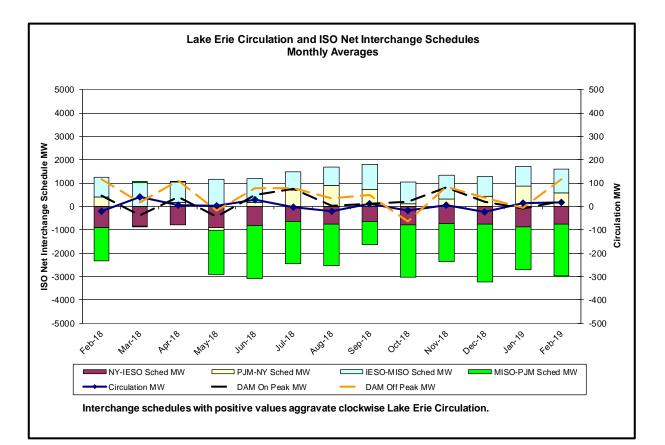


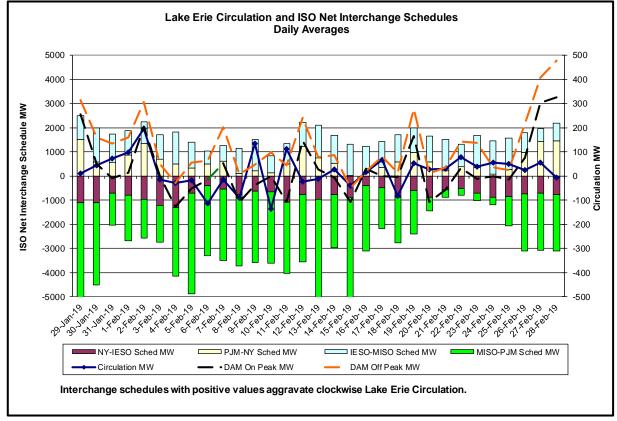






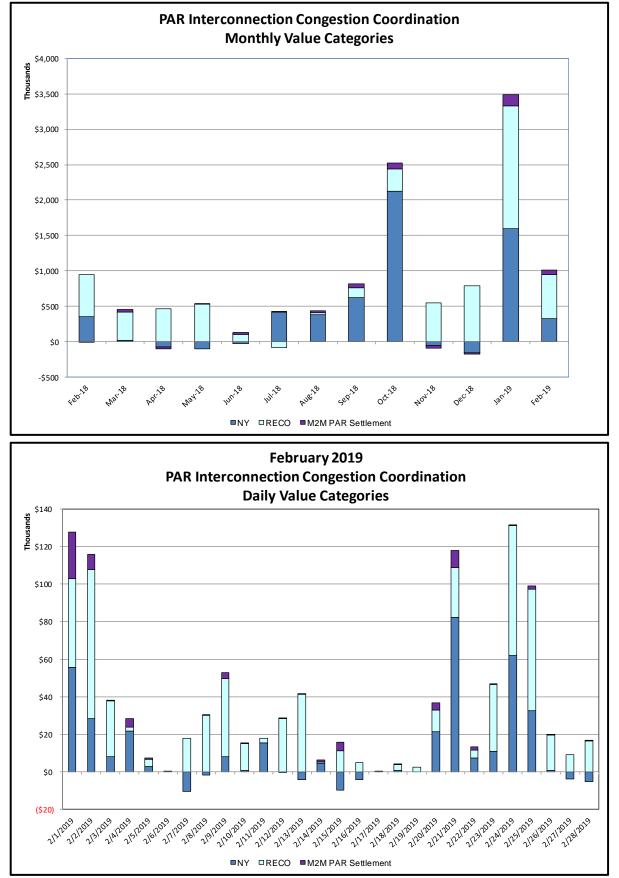














| PAR Interconnection Congestion Coordination | | | | | |
|---|--|--|--|--|--|
| <u>Category</u> NY | <u>Description</u> Represents the value NY realizes from Market-to-Market PAR Coordination when experiencing congestion. This is the estimated savings to NY for additional deliveries into NY | | | | |
| RECO | Represents the value of PJM's obligation to deliver 80% of service to RECO load over Ramapo 5018. This is the estimated reduction in NYCA congestion due to the PJM delivery of RECO over Ramapo 5018. | | | | |
| M2M PAR Settlement | Market-to-Market PAR Coordination settlement on coordinated flowgates. Through April 2017 this value was included in the NY and RECO categories. The positive sign convention indicates settlement to NY while the negative indicates settlement to PJM. | | | | |





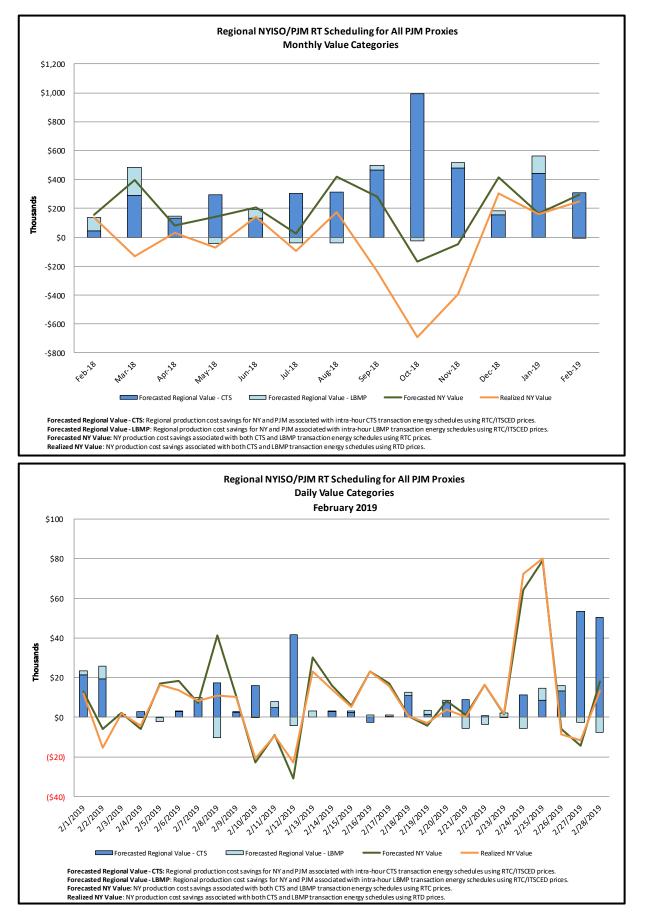


Regional Generation Congestion Coordination

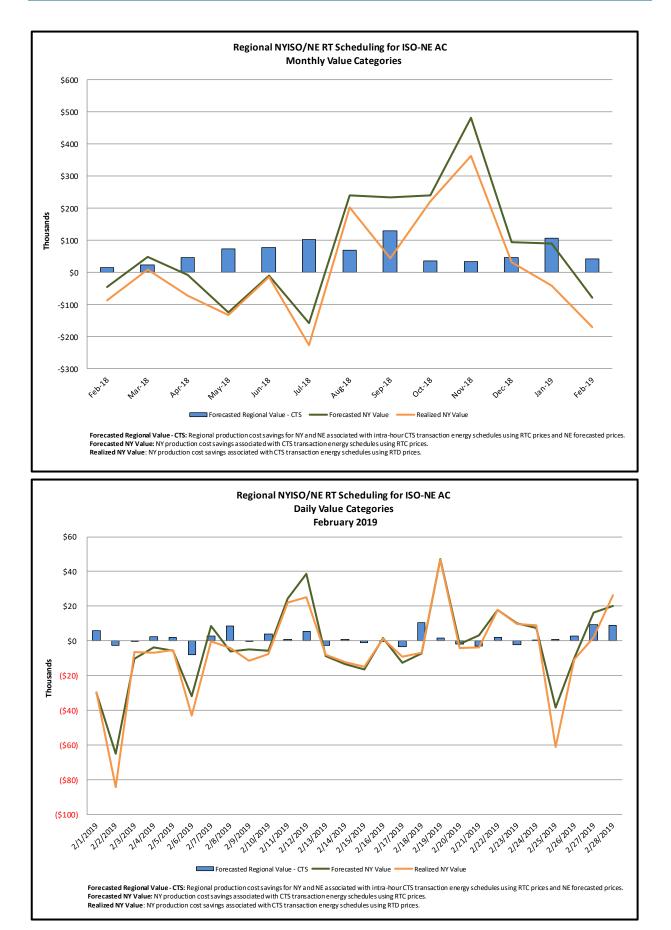
<u>Category</u> NY

<u>Description</u> NYISO savings that result from PJM payments to NYISO when PJM's transmission use (PJM's market flow) is greater than PJM's entitlement of the NY transmission system and NYISO is incurring Western or Central NY congestion. Additionally, NYISO savings may result from the more efficient regional utilization of PJM's generation resources to directly address Western or Central NY transmission congestion.



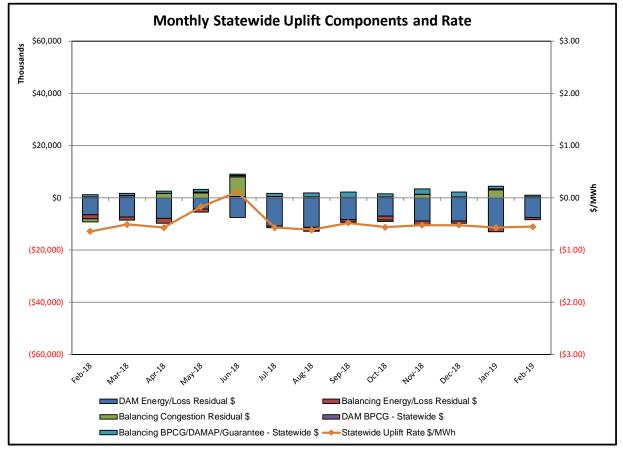




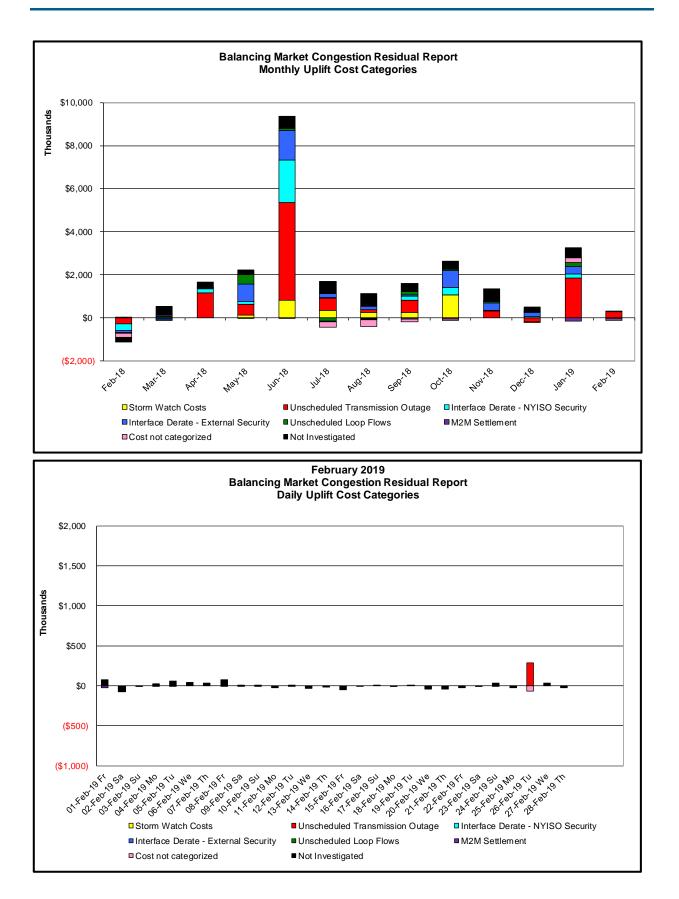




Market Performance Metrics







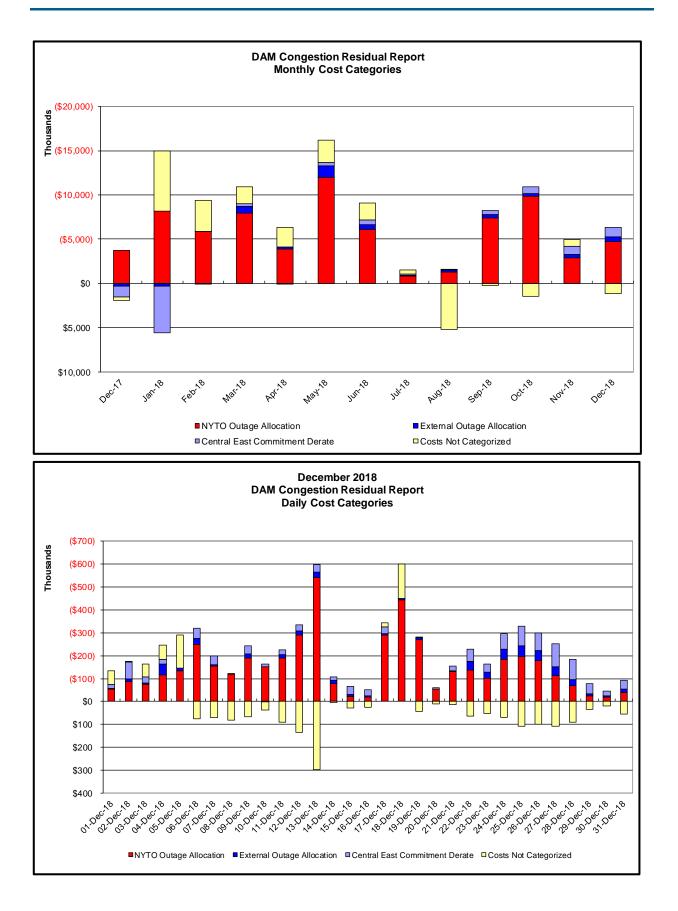


Day's investigated in February:26 Event Date (yyyymmdd) Hours 2/26/2019

Description 11 Forced outage Moses-Willis 230kV (#MW2), Moses 230/115kV banks (#AT1 & #AT3)

| Real-Time Balan | cing Market Con | gestion Residual (Uplift Cost) Cate | egories | | | | | | |
|--|--|--|--|--|--|--|--|--|--|
| <u>Category</u> Storm Watch | <u>Cost Assignment</u> Zone J | <u>Events Types</u> Thunderstorm Alert (TSA) | <u>Event Examples</u> TSA Activations | | | | | | |
| Unscheduled Transmission Outage | Market-wide | Reduction in DAM to RTM transfers related to unscheduled transmission outage | Forced Line Outage, Unit AVR Outages | | | | | | |
| Interface Derate - NYISO Security | Market-wide | Reduction in DAM to RTM transfers not related to transmission outage | Interface Derates due to RTM voltages | | | | | | |
| Interface Derate - External Security | Market-wide | Reduction in DAM to RTM transfers related to External Control Area Security Events | TLR Events, External Transaction Curtailments | | | | | | |
| Unscheduled Loop Flows | Market-wide | Changes in DAM to RTM unscheduled loop flows impacting NYISO Interface transmission constraints | DAM to RTM Lake Erie Loop Flows exceeding +/- 125 MW | | | | | | |
| M2M Settlement | Market-wide | Settlement result inclusive of coordinated redispatch and Ramapo flowgates | | | | | | | |
| Monthly Balancing Market Congestic | Monthly Balancing Market Congestion Report Assumptions/Notes | | | | | | | | |
| Storm Watch Costs are identified as daily total uplift costs Days with a value of BMCR less M2M Settlement of \$100K/HR, shortfall of \$200K/Day or more, or surplus of \$100K/Day or more are investigated. Uplift costs associated with multiple event types are apportioned equally by hour | | | | | | | | | |



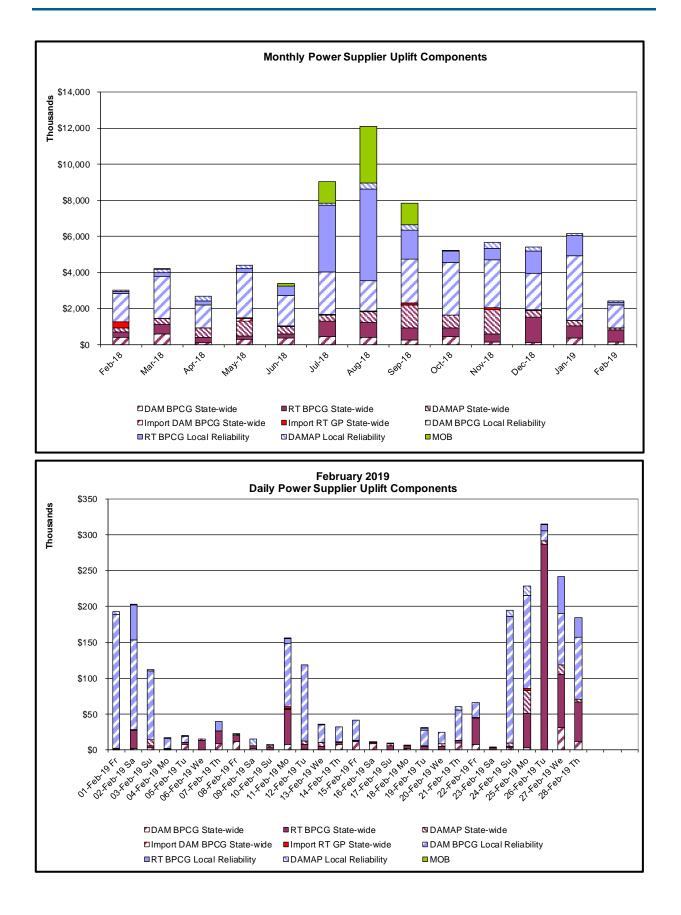




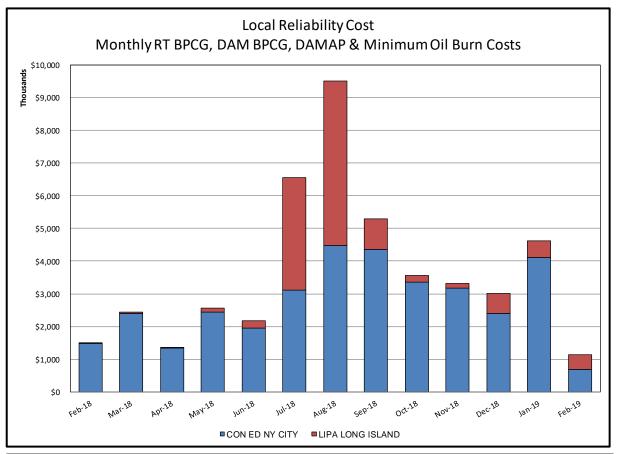
Day-Ahead Market Congestion Residual Categories

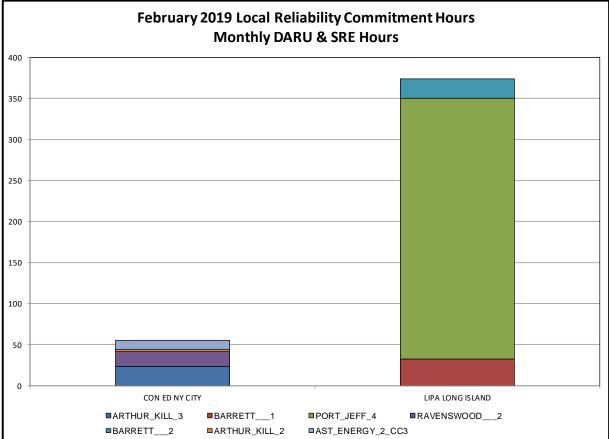
| <u>Category</u> NYTO Outage Allocation | <u>Cost Assignment</u> Responsible TO | <u>Events Types</u> Direct allocation to NYTO's responsible for transmission equipment status change. | <u>Event Examples</u> DAM scheduled outage for equipment modeled in- service for the TCC Auction. |
|---|--|--|---|
| External Outage Allocation | All TO by Monthly Allocation Factor | Direct allocation to transmission equipment status change caused by change in status of external equipment. | Tie line required out-of- service by TO of neighboring control area. |
| Central East Commitment Derate | All TO by Monthly Allocation Factor | Reductions in the DAM Central East_VC limit as compared to the TCC Auction limit, which are not associated with transmission line outages. | |













10

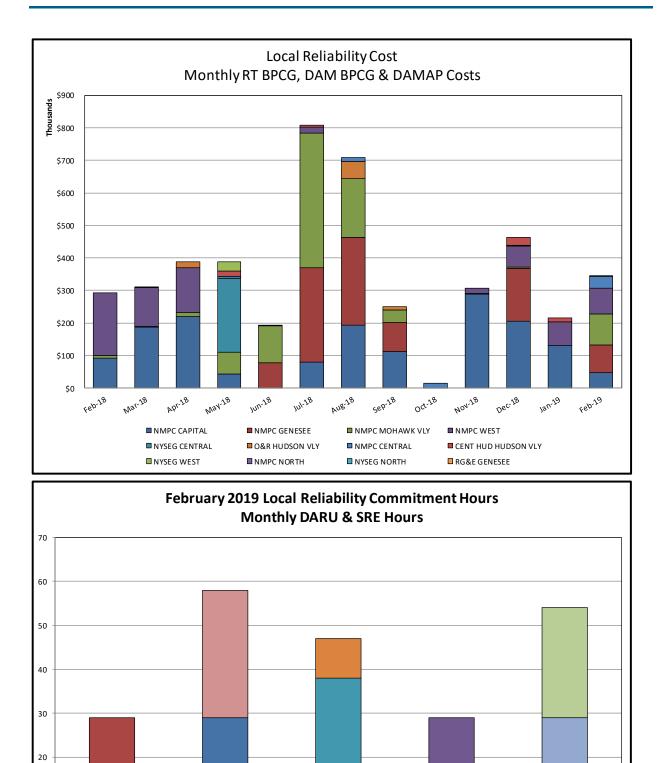
0

NMPC GENESEE

NMPC WEST

■INDECK__OLEAN - ARR-

SITHE___STERLING - ARR-



NMPC CAPITAL

SITHE___BATAVIA - ARR-

■ INDECK___CORINTH - ARR-

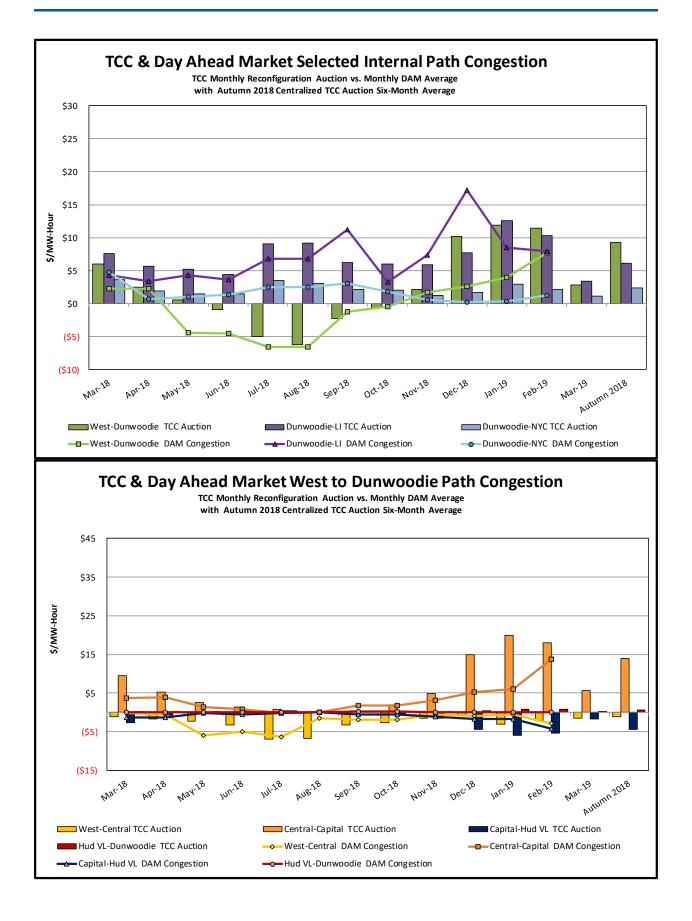
NMPC MOHAWK VLY

EMPIRE_CC_1 - ARR-

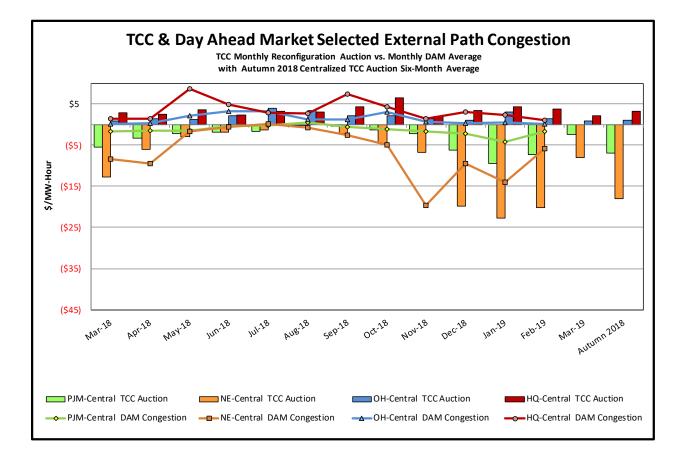
EMPIRE_CC_2 - ARR-

NMPC CENTRAL

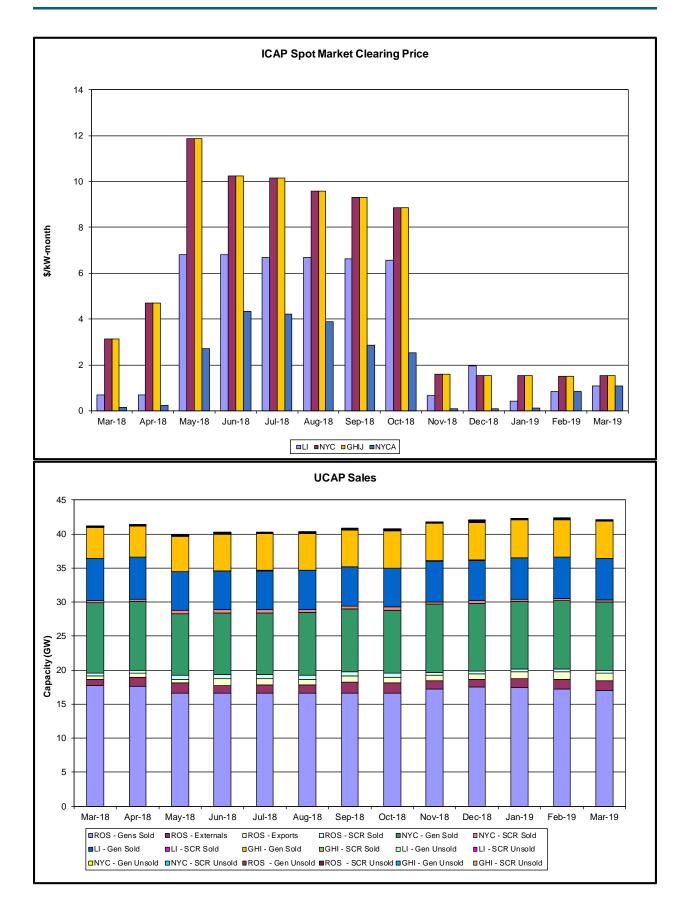






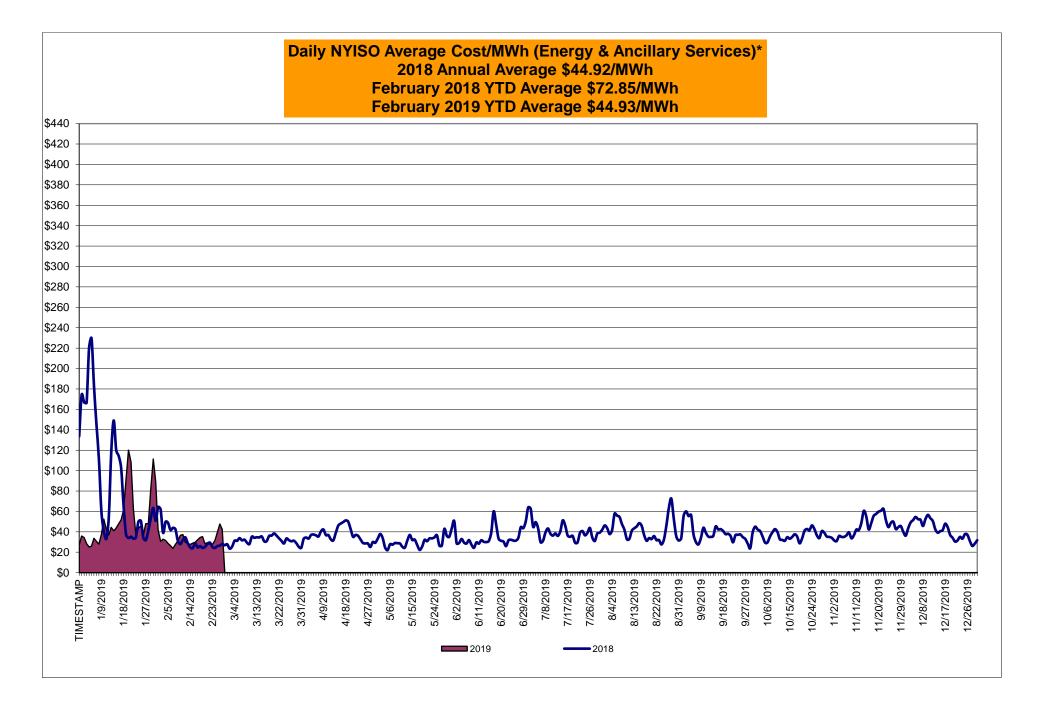






Market Performance Highlights February 2019

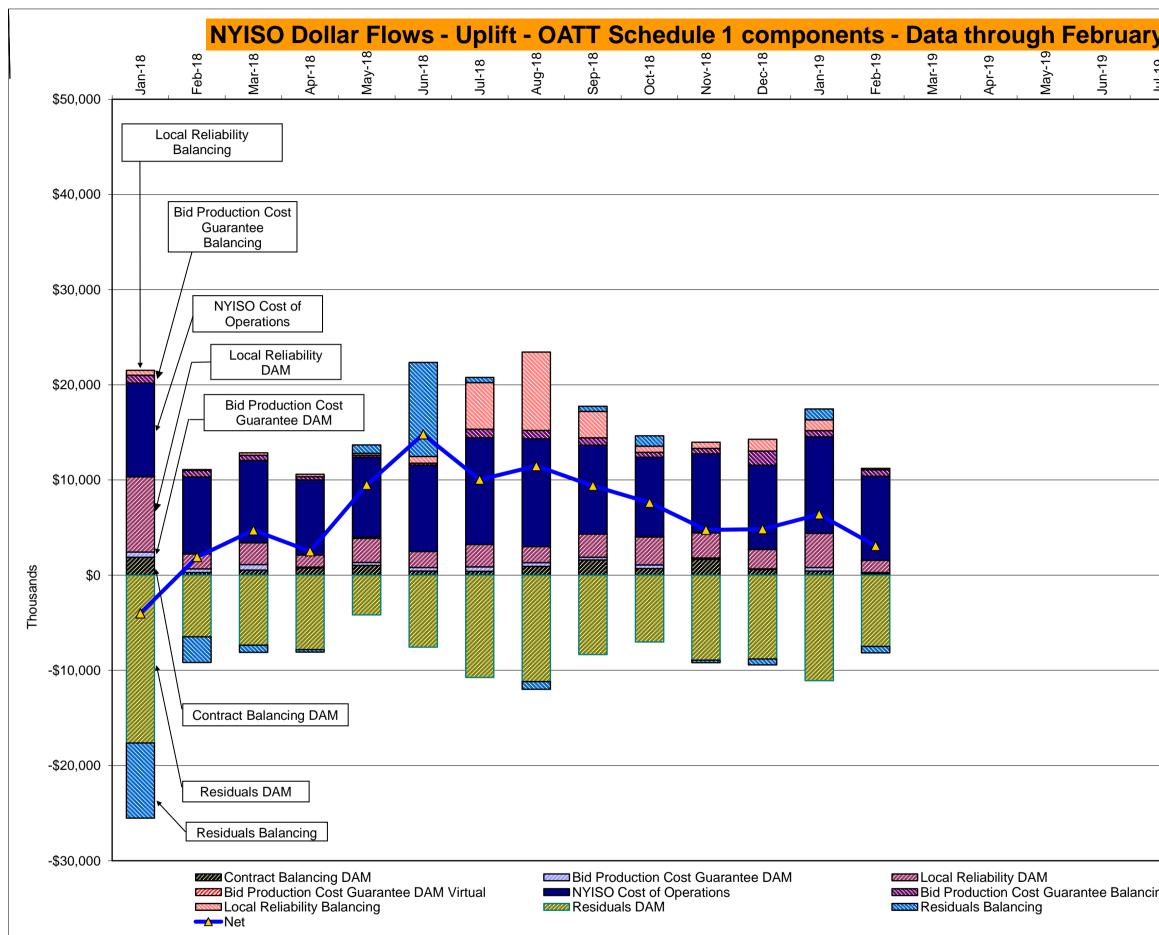
- LBMP for February is \$33.51/MWh; lower than \$50.93/MWh in January 2019 and \$33.83/MWh in February 2018.
 - Day Ahead and Real Time Load Weighted LBMPs are lower compared to January.
- February 2019 average year-to-date monthly cost of \$44.93/MWh is a 38% decrease from \$72.85/MWh in February 2018.
- 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.



* Excludes ICAP payments.

<u>NYISO Average Cost/MWh (Energy and Ancillary Services)</u> * <u>from the LBMP Customer point of view</u>

| 2019 | <u>January</u> | <u>February</u> | March | <u>April</u> | May | <u>June</u> | <u>July</u> | <u>August</u> | <u>September</u> | <u>October</u> | <u>November</u> | December |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | January | February | March | April | May | June | July | August | September | October | November | December |
| 2018 LBMP | <u>January</u> 99.55 | <u>February</u> 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 | <u>September</u> 38.70 | <u>October</u> 35.85 | <u>November</u> 43.15 | <u>December</u> 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 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 0.05 | 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 |



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.

| 12 | 8 201 | Q | | | | |
|----------|-------------------|--------|--------|----------|--------|--|
| y | 0, 20 ග | o o | o | 0 | o | |
| ul-19 | 8, 201 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | |
| <u>ر</u> | < | S | 0 | Z | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| ng | | | | | | |
| | | | | | | |
| | | | | | | |

NYISO Markets Transactions

| <u>19</u> | <u>January</u> | February | <u>March</u> | <u>April</u> | May | <u>June</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 | 14,977,016 | 13,068,195 | | | | |
| Average Daily Energy Sendout/Month GWh | 449 | 436 | | | | |

| <u>2018</u> | <u>January</u> | <u>February</u> | March | <u>April</u> | May | <u>June</u> | <u>July</u> | <u>August</u> | <u>September</u> | <u>October</u> | <u>November</u> | <u>December</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 |
| DAM LSE Internal LBMP Energy Sales | 59% | 57% | 58% | 60% | 61% | 61% | 65% | 65% | 61% | 57% | 58% | 56% |
| DAM External TC LBMP Energy Sales | 4% | 3% | 2% | 2% | 2% | 1% | 1% | 2% | 3% | 6% | 6% | 6% |
| DAM Bilateral - Internal Bilaterals | 29% | 31% | 32% | 30% | 29% | 30% | 26% | 25% | 28% | 29% | 30% | 30% |
| DAM Bilateral - Importl/Non-LBMP Market Bilaterals | 5% | 5% | 5% | 5% | 5% | 5% | 4% | 4% | 5% | 5% | 2% | 5% |
| DAM Bilateral - Export/Non-LBMP Market Bilaterals | 2% | 2% | 2% | 2% | 2% | 1% | 1% | 1% | 1% | 2% | 2% | 2% |
| DAM Bilateral - Wheel Through Bilaterals | 1% | 2% | 2% | 2% | 2% | 2% | 2% | 2% | 2% | 1% | 1% | 2% |
| Balancing Energy Market MWh | -149,619 | -299,377 | -386,811 | -72,862 | -29,539 | -354,112 | -80,438 | -44,732 | -210,436 | -314,885 | -304,277 | -428,748 |
| Balancing Energy LSE Internal LBMP Energy Sales | -147% | -101% | -128% | -208% | -458% | -113% | -123% | -75% | -82% | -105% | -100% | -94% |
| Balancing Energy External TC LBMP Energy Sales | 74% | 24% | 37% | 189% | 564% | 29% | 129% | 209% | 14% | 30% | 18% | 27% |
| Balancing Energy Bilateral - Internal Bilaterals | 9% | 5% | 0% | -11% | 29% | 5% | 18% | 23% | 7% | 2% | 3% | 3% |
| Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 10% | 0% |
| Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals | 22% | 9% | 6% | 34% | 51% | 3% | 14% | 25% | 3% | 0% | 0% | 0% |
| Balancing Energy Bilateral - Wheel Through Bilaterals | -58% | -36% | -15% | -103% | -287% | -23% | -138% | -281% | -42% | -27% | -31% | -36% |
| Transactions Summary | | | | | | | | | | | | |
| LBMP | 63% | 59% | 59% | 62% | 63% | 61% | 66% | 68% | 64% | 63% | 64% | 61% |
| Internal Bilaterals | 30% | 32% | 33% | 30% | 29% | 31% | 27% | 25% | 28% | 30% | 31% | 31% |
| Import Bilaterals | 5% | 5% | 6% | 5% | 5% | 5% | 4% | 4% | 5% | 5% | 3% | 5% |
| Export Bilaterals | 2% | 2% | 2% | 2% | 2% | 1% | 1% | 1% | 1% | 2% | 2% | 2% |
| Wheels Through | 1% | 1% | 1% | 1% | 1% | 2% | 1% | 1% | 2% | 1% | 1% | 1% |
| Market Share of Total Load | | | | | | | | | | | | |
| Day Ahead Market | 101.0% | 102.4% | 102.9% | 100.6% | 100.2% | 102.6% | 100.5% | 100.3% | 101.5% | 102.4% | 102.3% | 103.1% |
| Balancing Energy + | -1.0% | -2.4% | -2.9% | -0.6% | -0.2% | -2.6% | -0.5% | -0.3% | -1.5% | -2.4% | -2.3% | -3.1% |
| Total MWH | 15,004,132 | 12,344,477 | 13,134,575 | 12,085,824 | 12,691,534 | 13,629,272 | 16,759,556 | 17,150,715 | 14,222,196 | 13,233,943 | 13,201,857 | 14,021,712 |
| Average Daily Energy Sendout/Month GWh | 463 | 426 | 413 | 390 | 397 | 445 | 529 | 537 | 458 | 399 | 411 | 425 |

+ Balancing Energy: Load(MW) purchased at Real Time LBMP.

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

| <u>July</u> | <u>August</u> | <u>September</u> | <u>October</u> | <u>November</u> | <u>December</u> |
|-------------|---------------|------------------|----------------|-----------------|-----------------|
|-------------|---------------|------------------|----------------|-----------------|-----------------|

Notes: Percent totals may not equal 100% due to rounding. Virtual Transactions are not reflected in this chart.

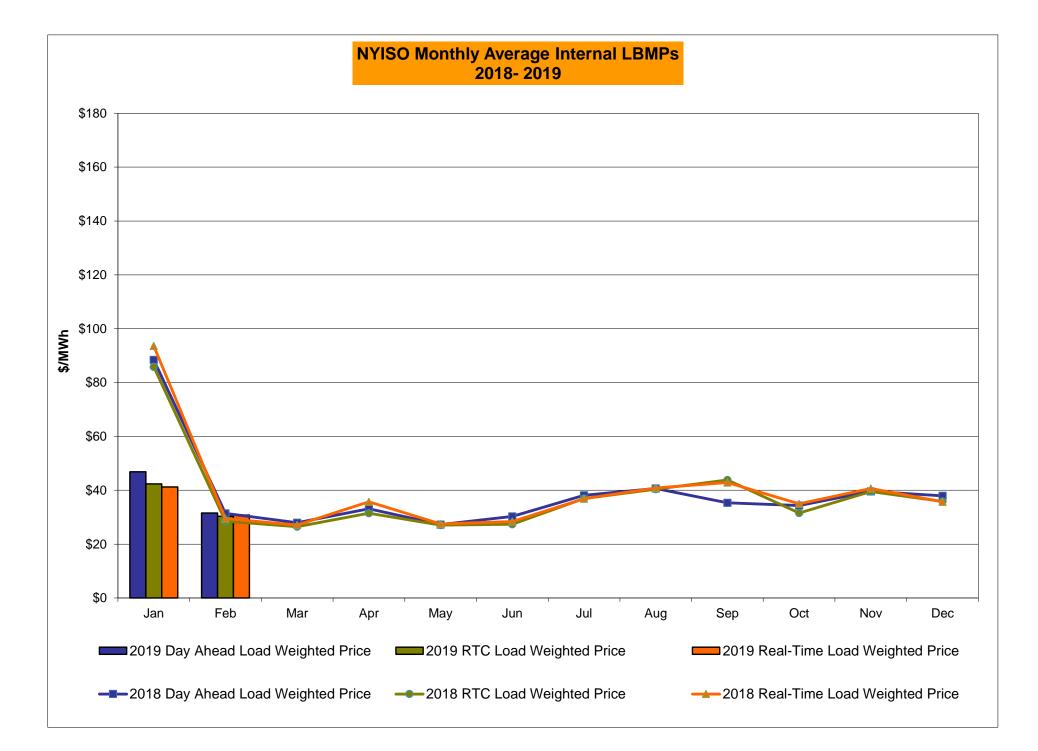
NYISO Markets 2019 Energy Statistics

| | <u>January</u> | February | March | <u>April</u> | May | <u>June</u> | July | August September | October November December |
|--|----------------|----------|-------|--------------|-----|-------------|------|------------------|---------------------------|
| 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 Daily Energy Sendout/Month GWh | 449 | 436 | | | | | | | |

NYISO Markets 2018 Energy Statistics

| | <u>January</u> | February | March | <u>April</u> | May | June | <u>July</u> | August S | <u>September</u> | <u>October</u> | November [| <u>December</u> |
|--|----------------|----------|---------|--------------|---------|---------|-------------|----------|------------------|----------------|------------|-----------------|
| DAY AHEAD LBMP 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 |

* Average zonal load weighted prices.
** Average zonal load weighted prices, load weighted in each hour.

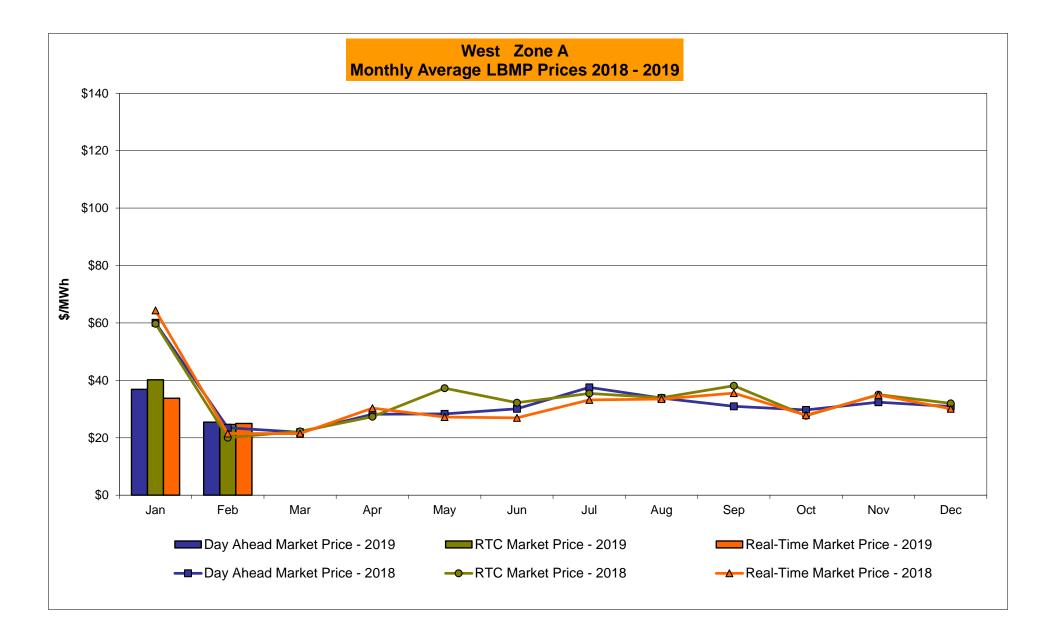


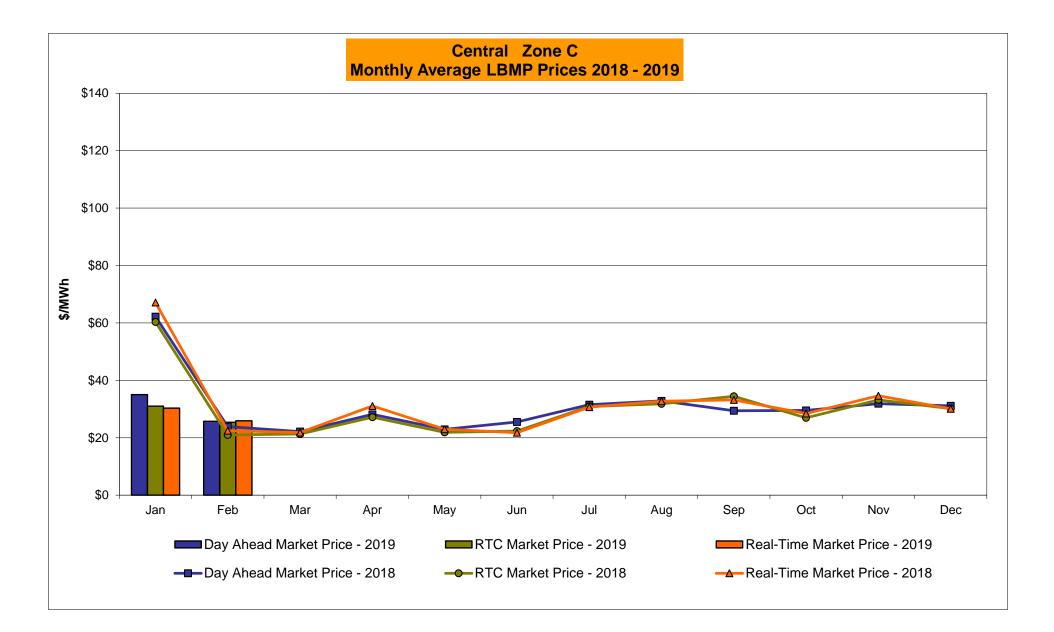
February 2019 Zonal LBMP Statistics for NYISO (\$/MWh)

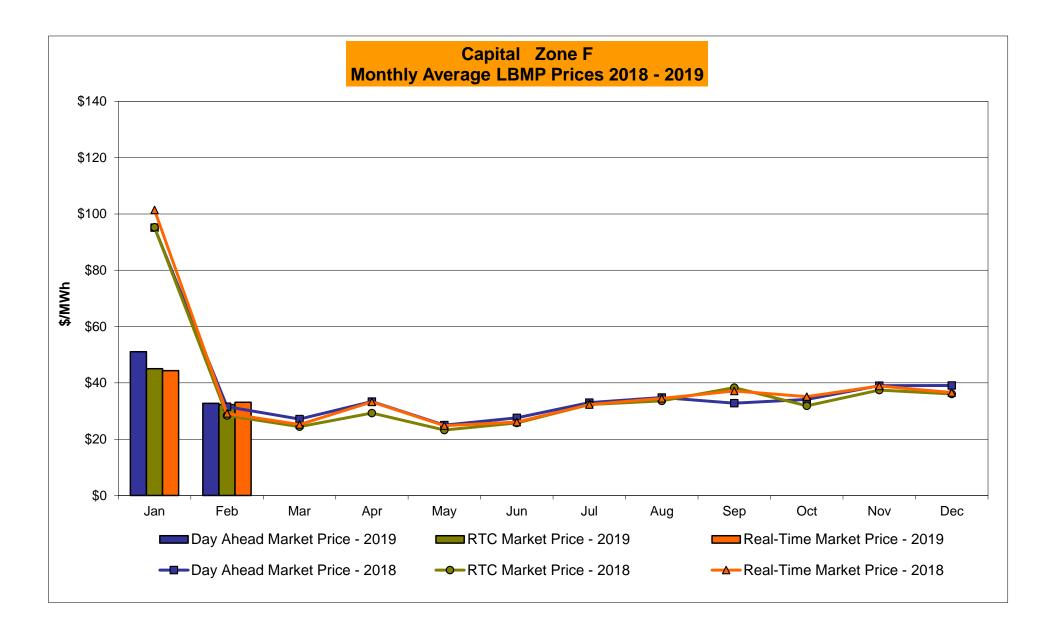
| | | | | | MOHAWK | | HUDSON | | | NEW YORK | LONG |
|--------------------|--------|---------|--------|---------|--------|---------|--------|------------|---------------|---------------|---------------|
| | WEST | GENESEE | NORTH | CENTRAL | VALLEY | CAPITAL | VALLEY | MILLWOOD I | DUNWOODIE | CITY | ISLAND |
| | Zone A | Zone B | Zone D | Zone C | Zone E | Zone F | Zone G | Zone H | <u>Zone I</u> | <u>Zone J</u> | <u>Zone K</u> |
| 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 |

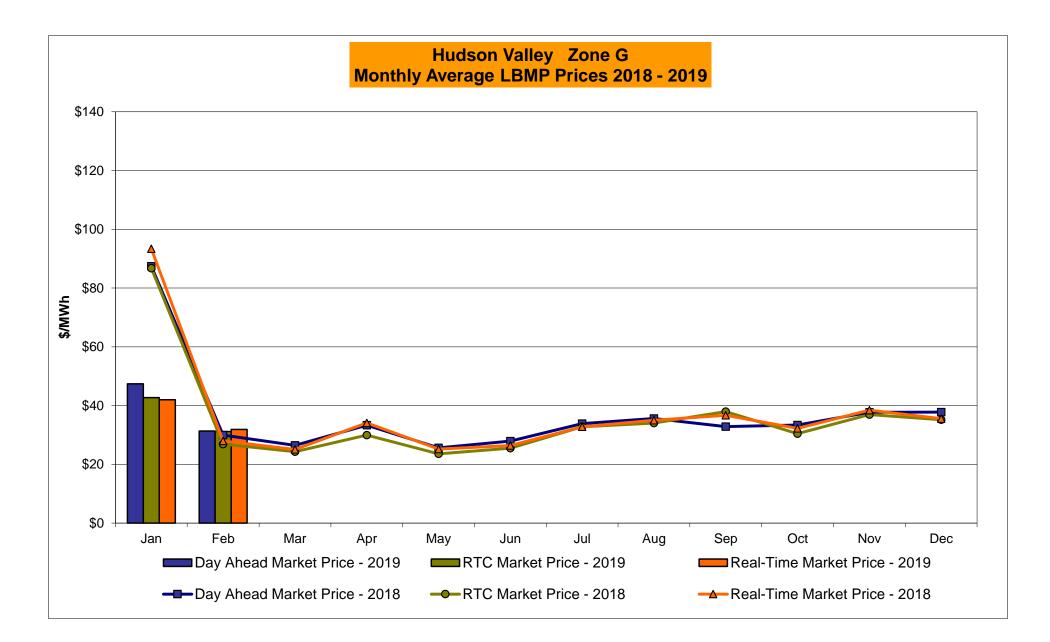
| | ONTARIO IESO | HYDRO QUEBEC (Wheel) | HYDRO QUEBEC (Import/Export) | PJM | NEW ENGLAND | CROSS SOUND CABLE | NORTHPORT- NORWALK | NEPTUNE | LINDEN VFT | HUDSON | Dennison |
|--------------------|-----------------|----------------------------|------------------------------------|---------------|----------------|-------------------------|-----------------------|---------------------|---------------------|---------------------|---------------------|
| | | | | | | <u>Controllable</u> | <u>Controllable</u> | <u>Controllable</u> | <u>Controllable</u> | <u>Controllable</u> | <u>Controllable</u> |
| | <u>Zone O</u> | Zone M | <u>Zone M</u> | <u>Zone P</u> | <u>Zone N</u> | Line | Line | Line | Line | <u>Line</u> | Line |
| DAY AHEAD LBMP | 04.50 | 00.05 | 00.05 | 07.00 | ~~~~ | 00 0 7 | 05.00 | 04.05 | | 00 - 7 | 00.07 |
| Unweighted Price * | 24.52 | 23.25 | 23.25 | 27.82 | 33.30 | 36.67 | 35.38 | 34.65 | 32.36 | 32.57 | 22.37 |
| Standard Deviation | 8.89 | 9.41 | 9.41 | 9.95 | 11.53 | 17.91 | 14.51 | 17.25 | 15.68 | 14.48 | 9.36 |
| RTC LBMP | | | | | | | | | | | |
| Unweighted Price * | 23.77 | 21.87 | 21.87 | 27.40 | 34.49 | 35.19 | 34.71 | 33.80 | 31.35 | 31.27 | 21.64 |
| Standard Deviation | 9.29 | 11.96 | 11.96 | 9.29 | 13.82 | 20.27 | 20.14 | 20.07 | 11.63 | 11.39 | 27.64 |
| REAL TIME LBMP | | | | | | | | | | | |
| Unweighted Price * | 24.34 | 22.79 | 22.77 | 27.83 | 33.97 | 35.07 | 34.67 | 33.73 | 31.42 | 32.23 | 20.80 |
| Standard Deviation | 12.37 | 13.47 | 13.47 | 12.60 | 15.78 | 17.05 | 16.89 | 16.64 | 17.76 | 15.02 | 41.69 |

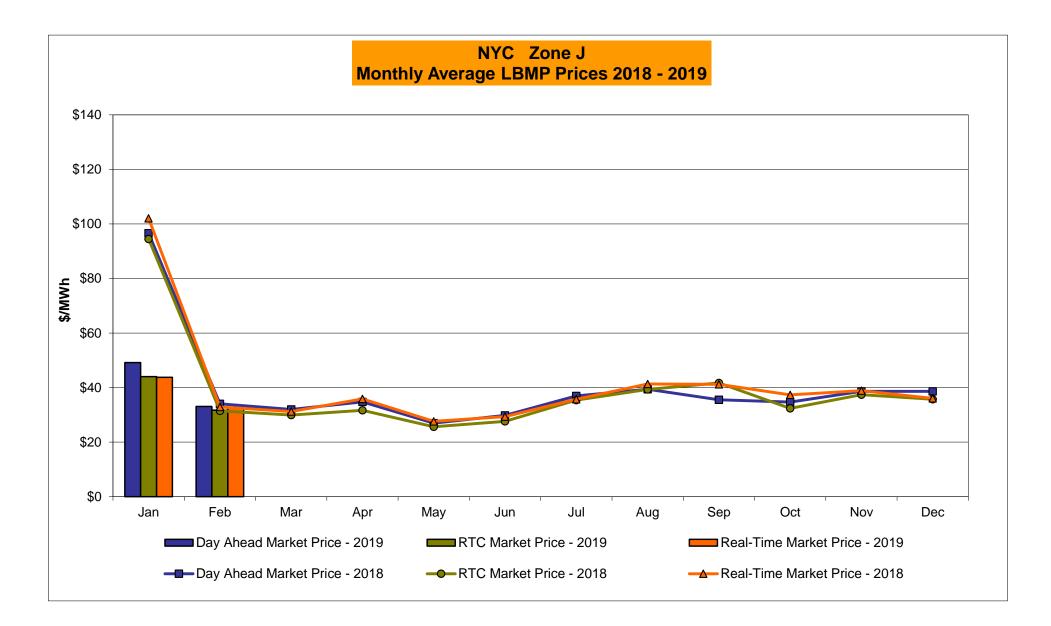
* Straight LBMP averages

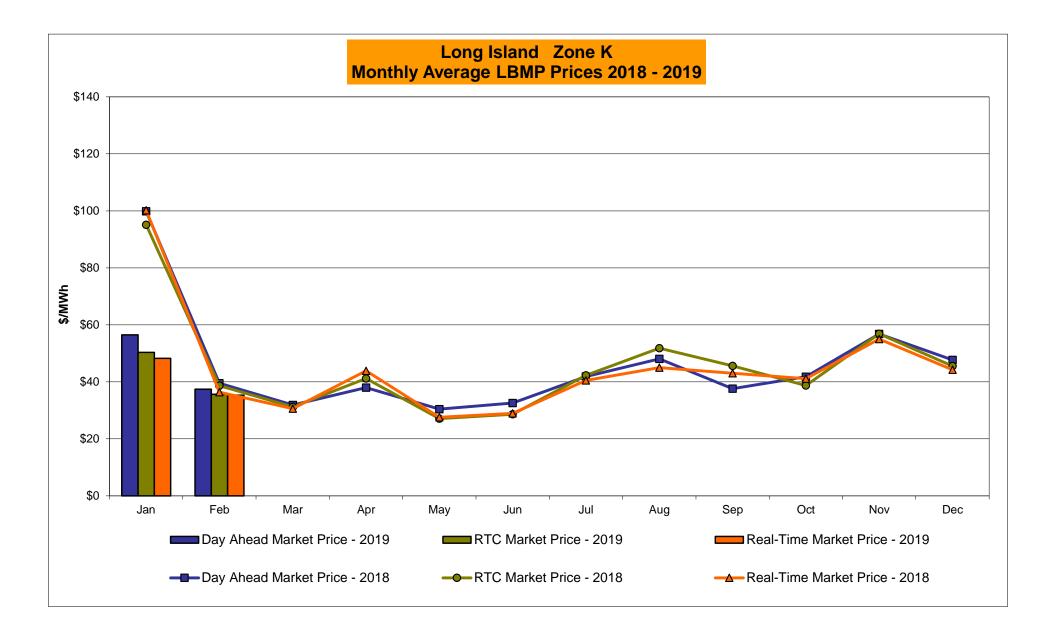


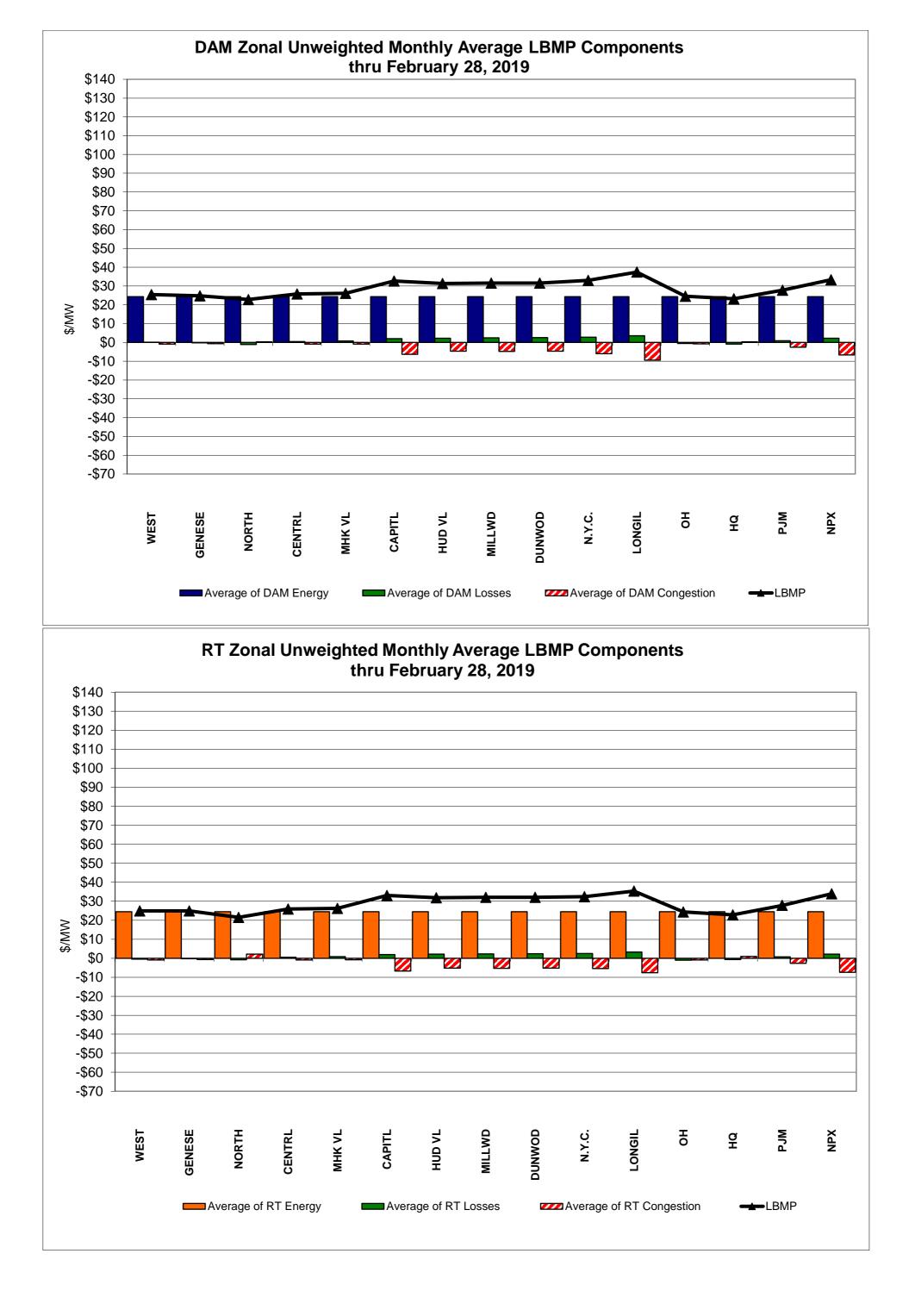




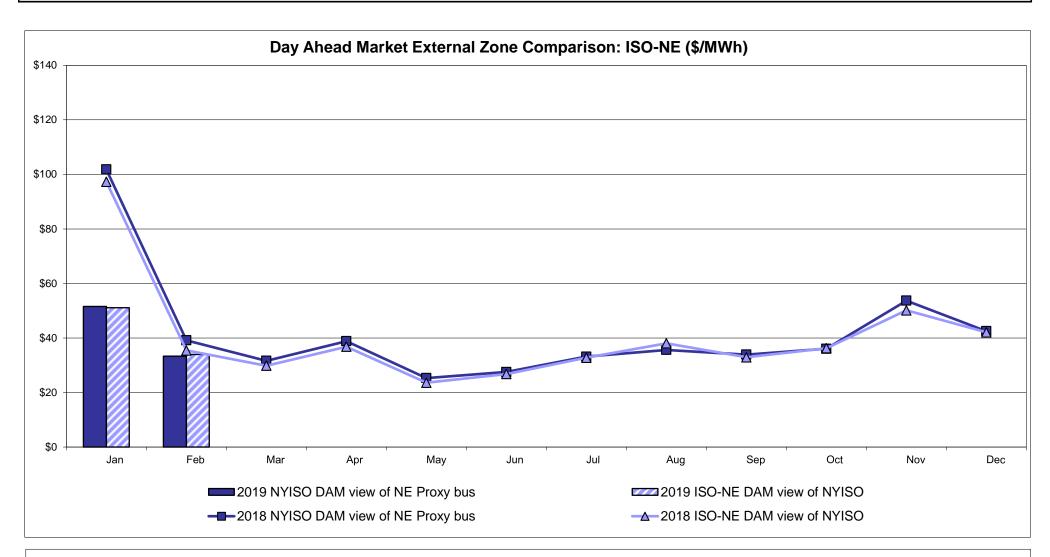


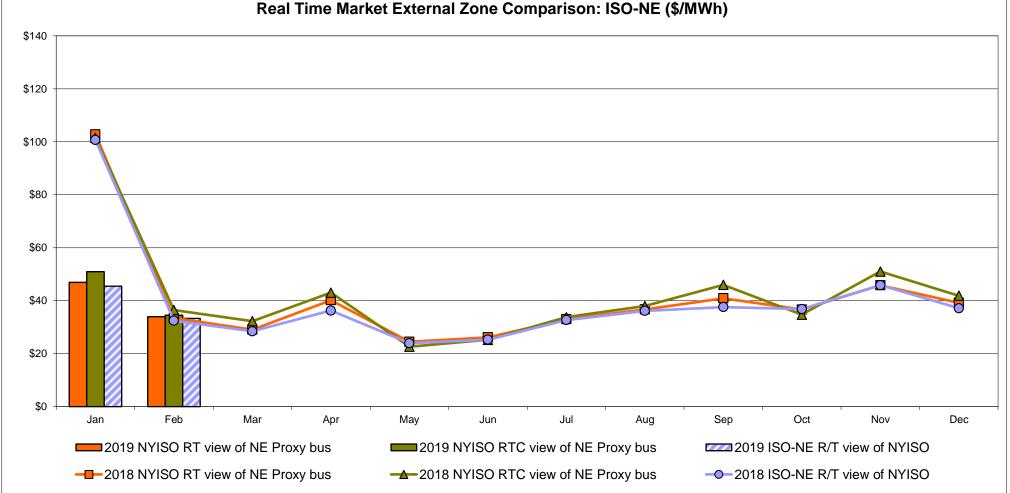


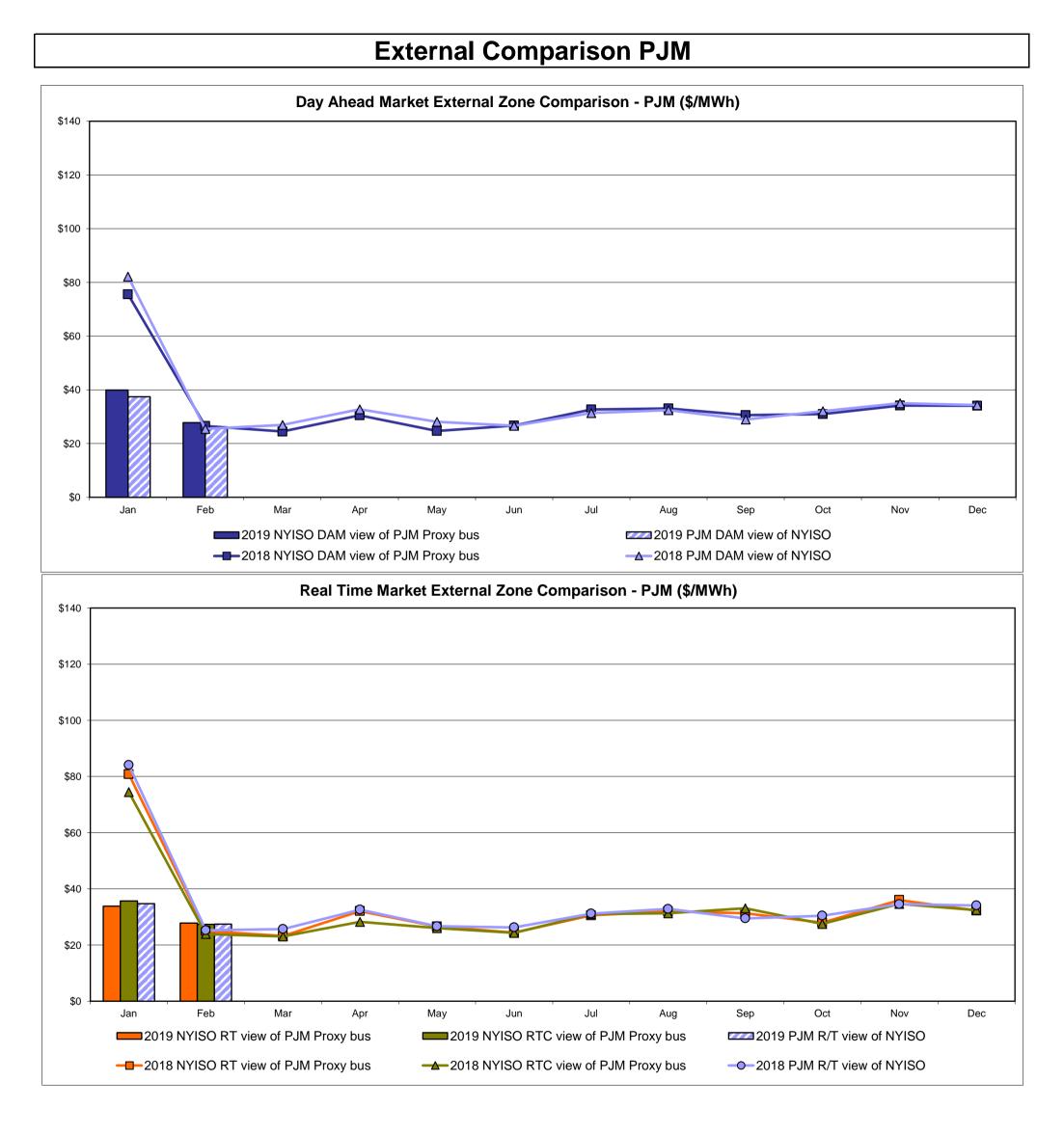




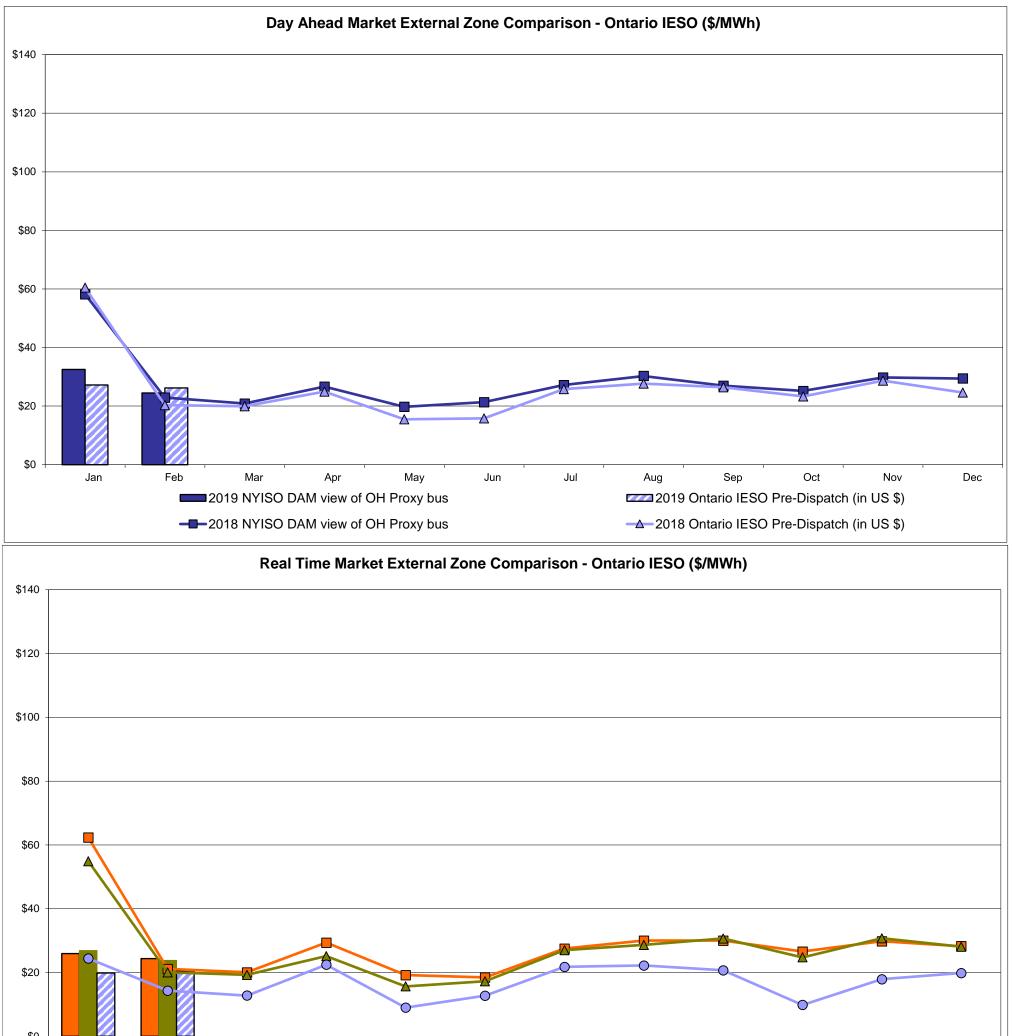
External Comparison ISO-New England







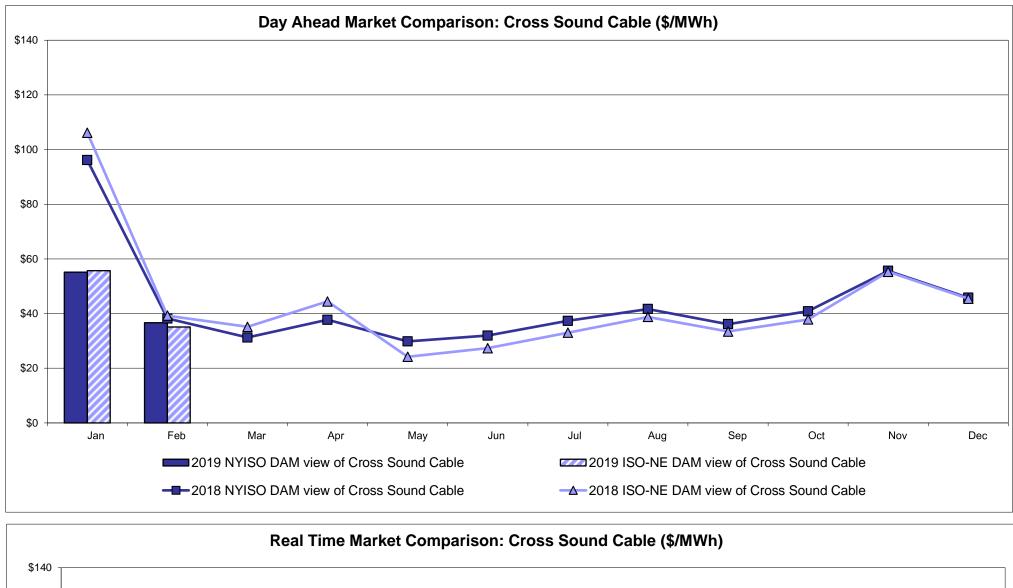
External Comparison Ontario IESO



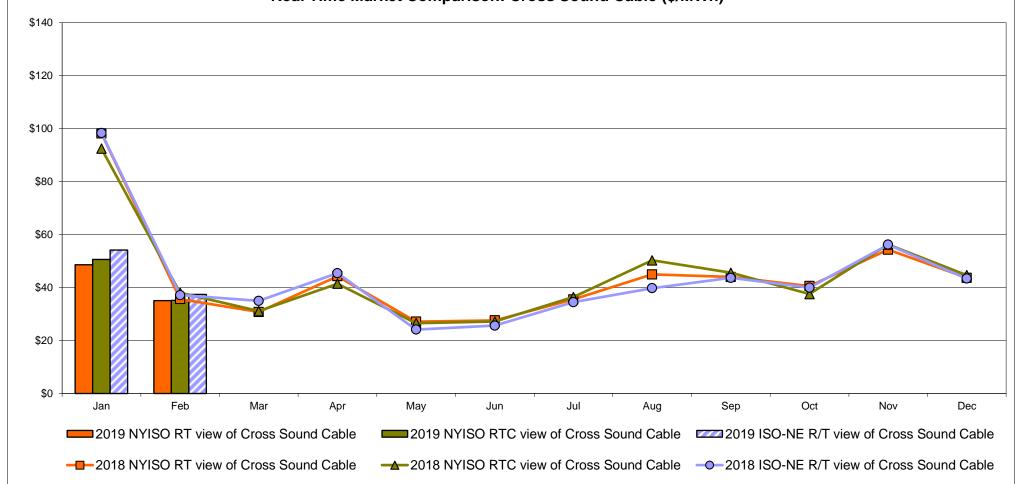
| \$0 + | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|-------|--------------|--------------|---------------|---------|--------------|-----------|--------------|-----------|---------|--------------|-------------|-------|
| | — 201 | 9 NYISO RT v | riew of OH Pr | oxy bus | 2019 | NYISO RTC | view of OH F | Proxy bus | 2019 | Ontario IESC | HOEP (in US | S \$) |
| | 201 | 8 NYISO RT v | view of OH Pr | oxy bus | 2018 | NYISO RTC | view of OH F | Proxy bus | -0-2018 | Ontario IESC | HOEP (in US | S \$) |

Notes: Exchange factor used for February 2019 was 0.757059580588992 to US HOEP: Hourly Ontario Energy Price Pre-Dispatch: Projected Energy Price

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



External Controllable Line: Cross Sound Cable (New England)

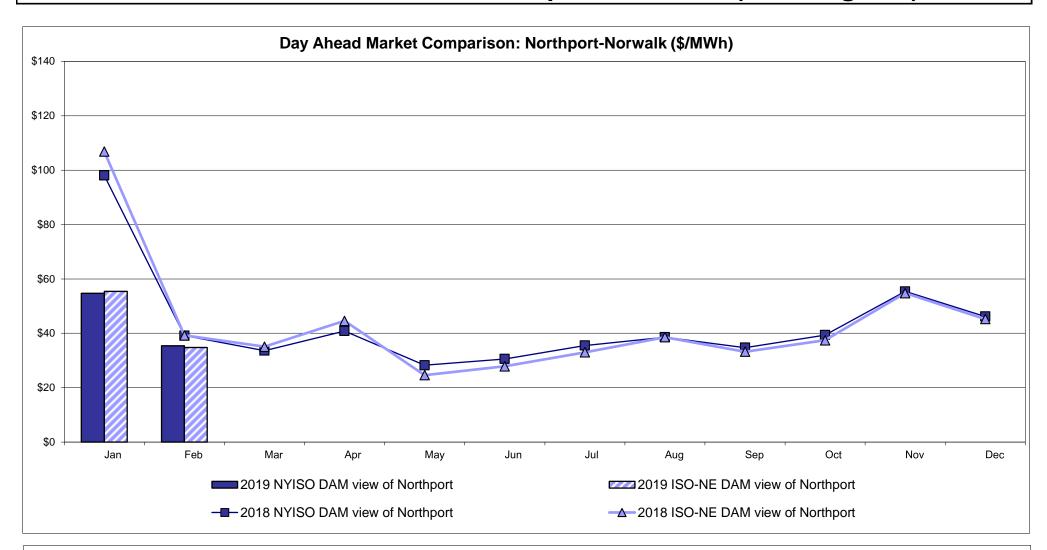


Note:

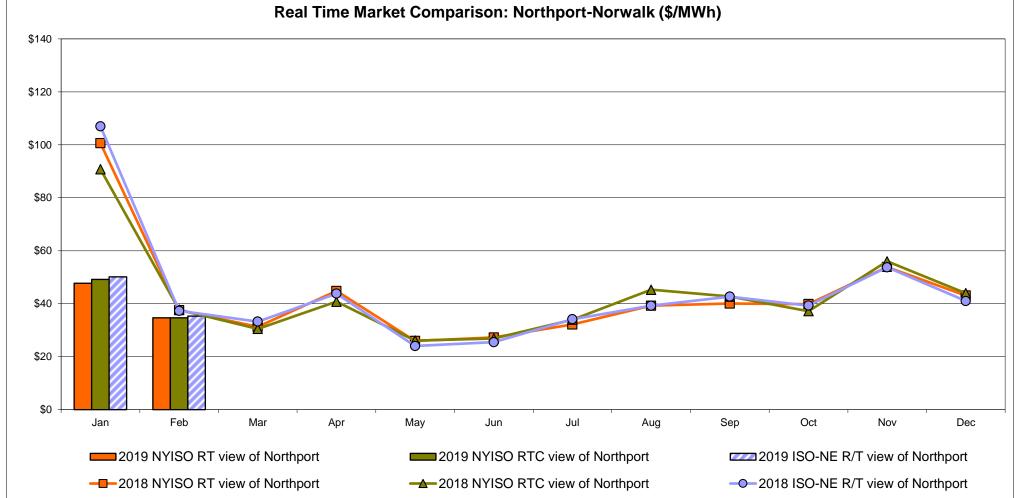
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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)

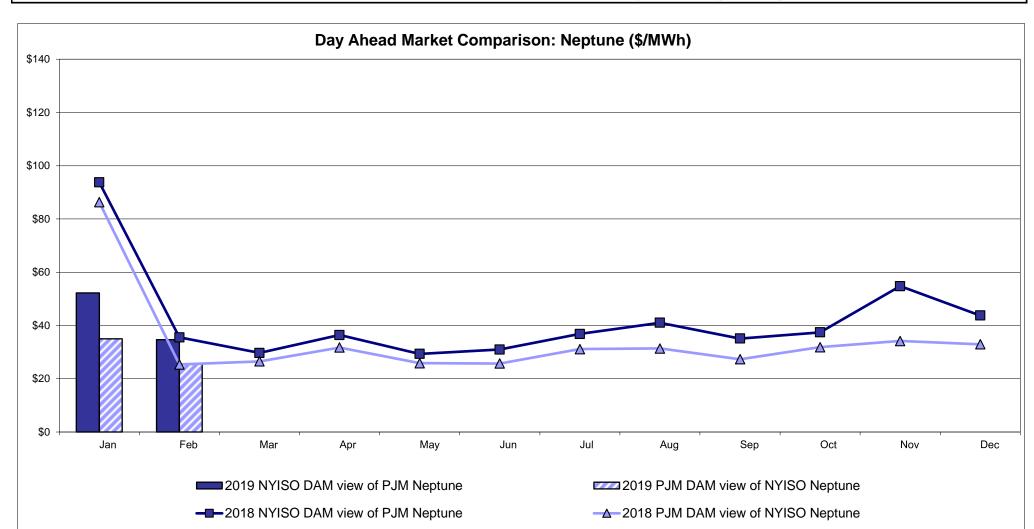


Note:

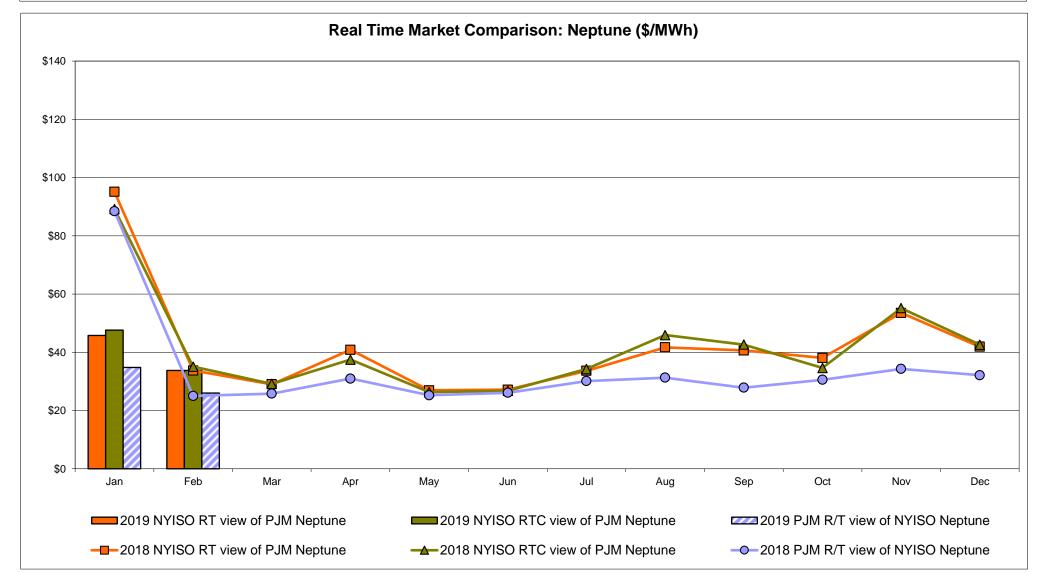
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

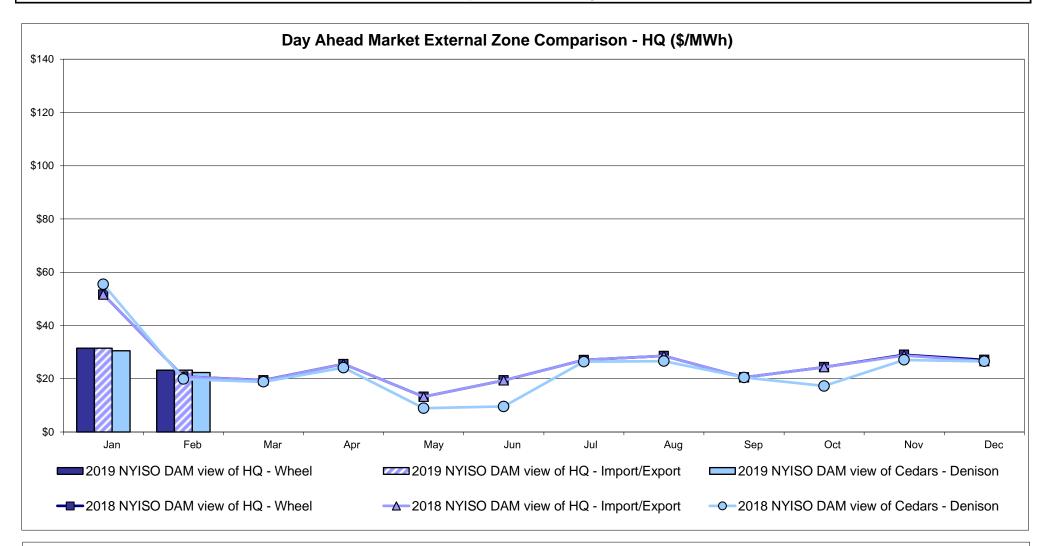
The DAM and R/T prices at the 1385 interface are used for NYISO.

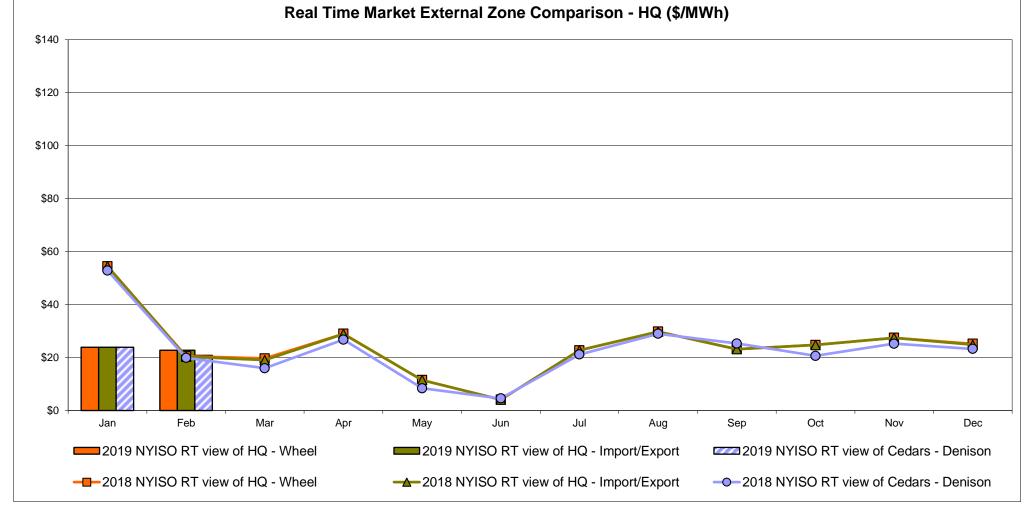


External Controllable Line: Neptune (PJM)



External Comparison Hydro-Quebec

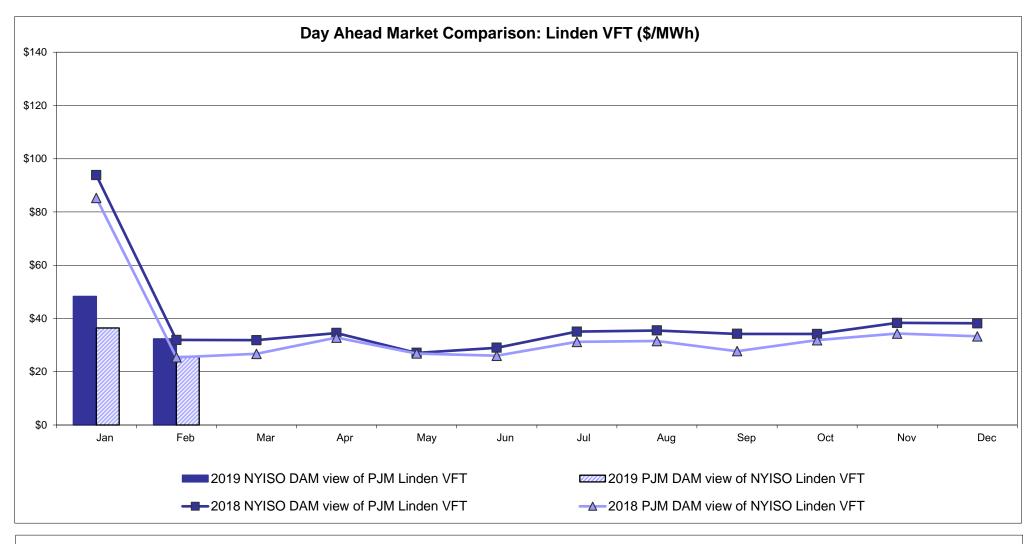


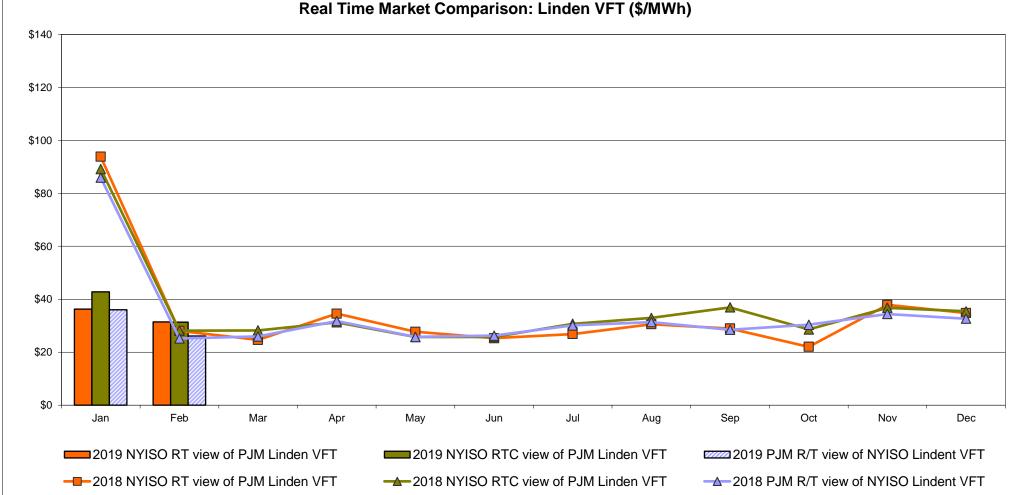


Note:

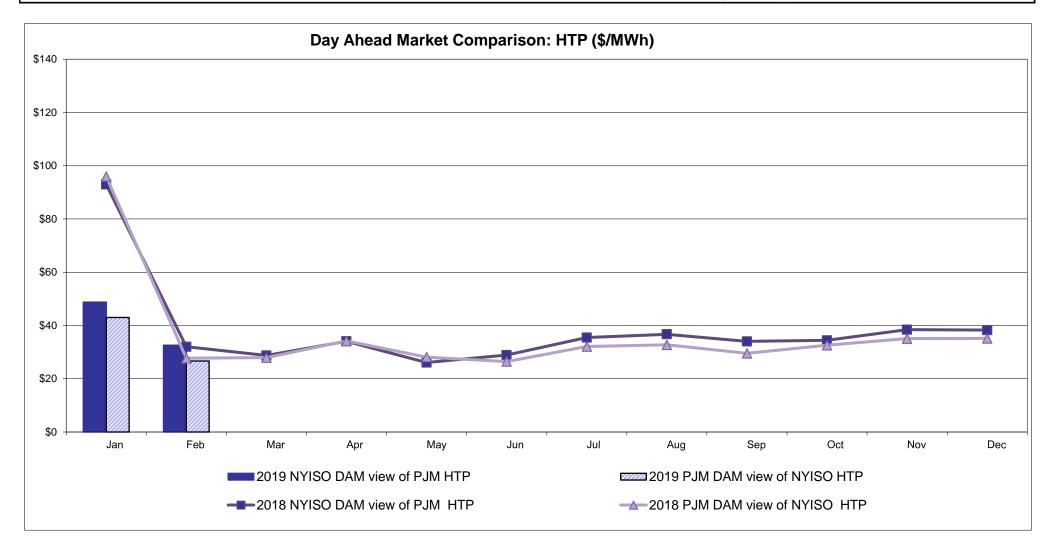
Hydro-Quebec Prices are unavailable.

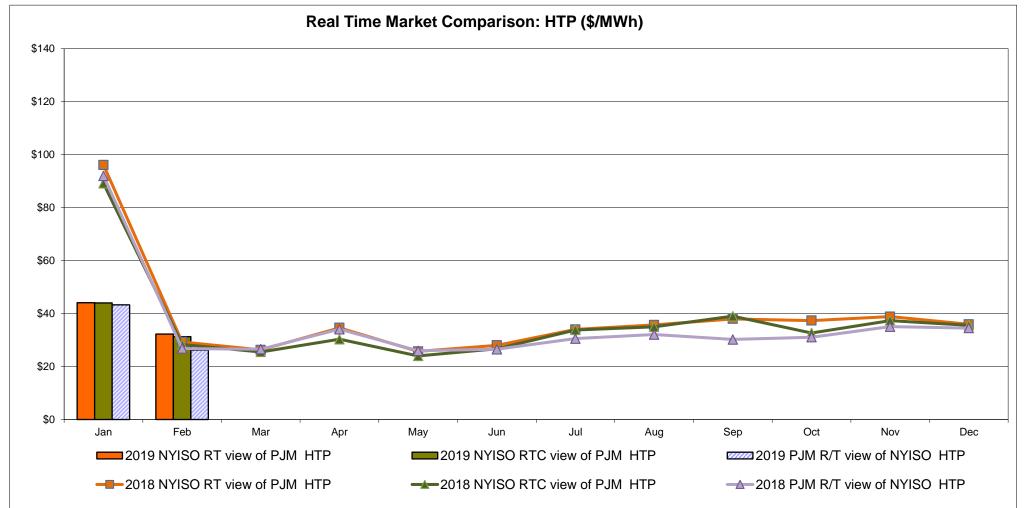






External Controllable Line: Hudson (PJM)

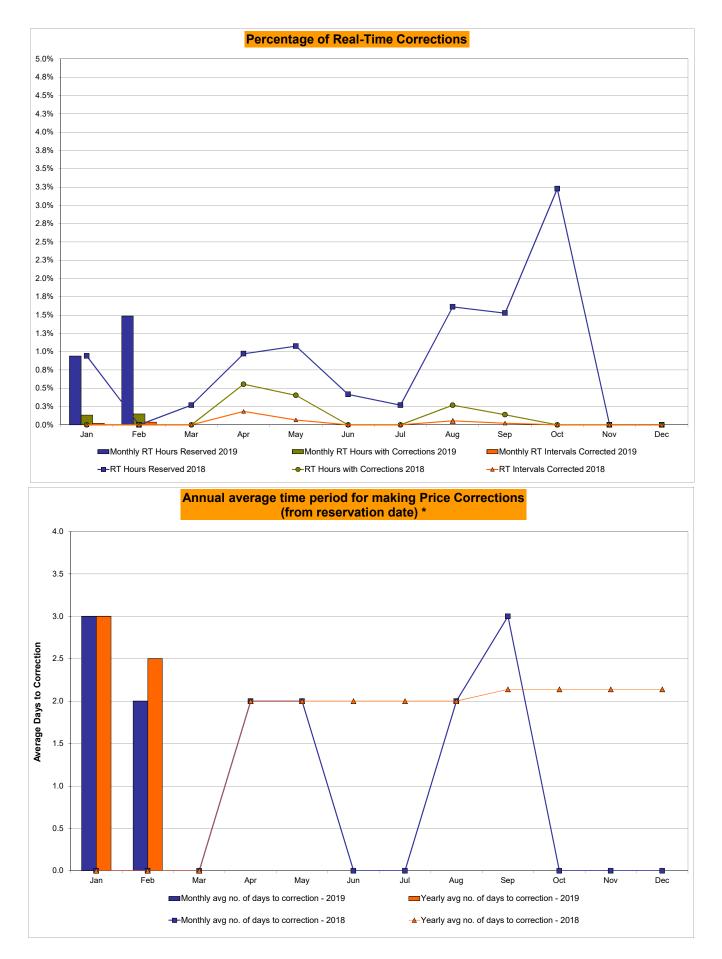




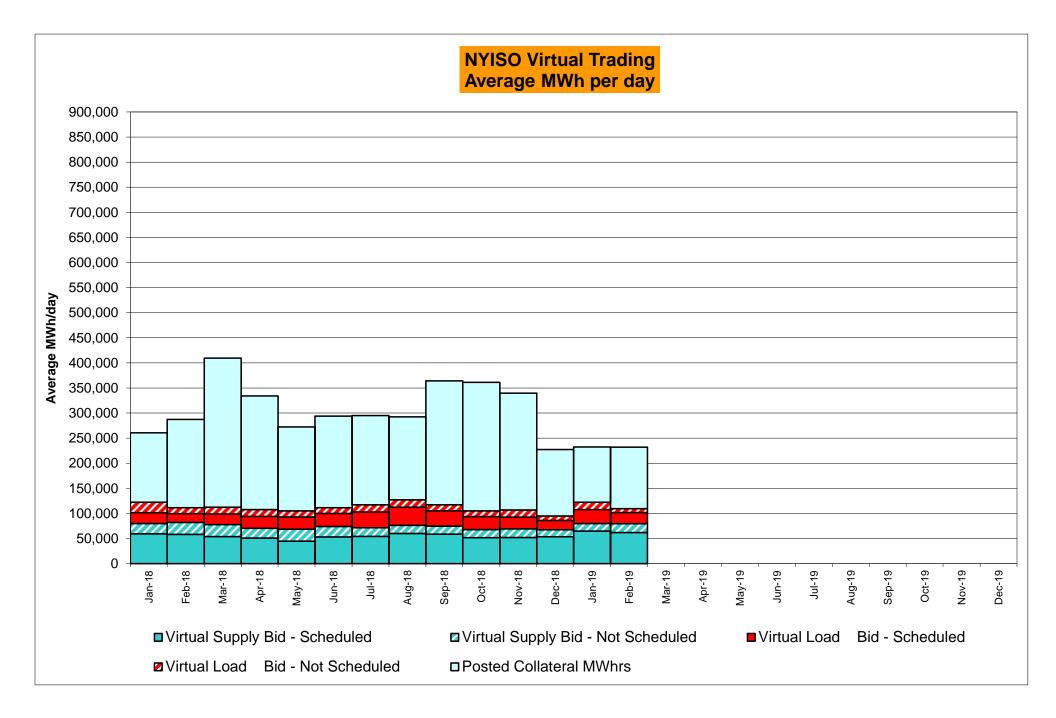
NYISO Real Time Price Correction Statistics

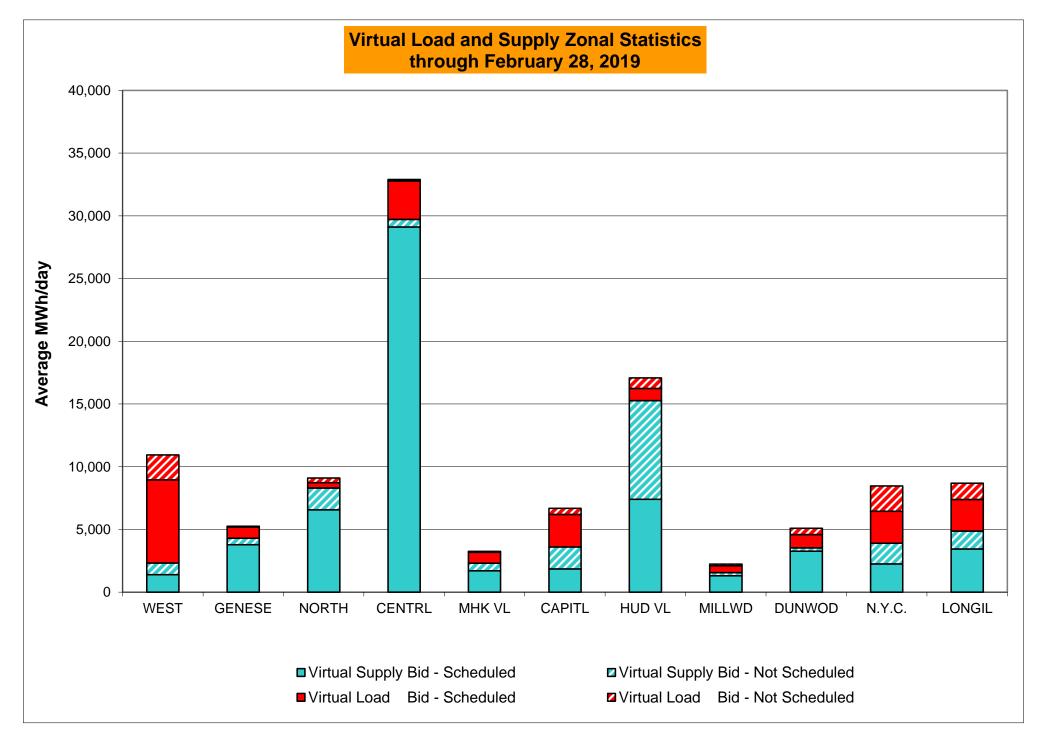
| <u>2019</u> | | <u>January</u> | <u>February</u> | <u>March</u> | <u>April</u> | May | June | <u>July</u> | <u>August</u> | <u>September</u> | <u>October</u> | November | <u>December</u> |
|---|--|--|--|---|---|--|--|---|---|---|--|--|--|
| Hour Corrections | | | | | | | | | | | | | |
| Number of hours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

*Calendar days from reservation date; for June 2018 forward, business days from market date



*Calendar days from reservation date; for June 2018 forward, business days from market date

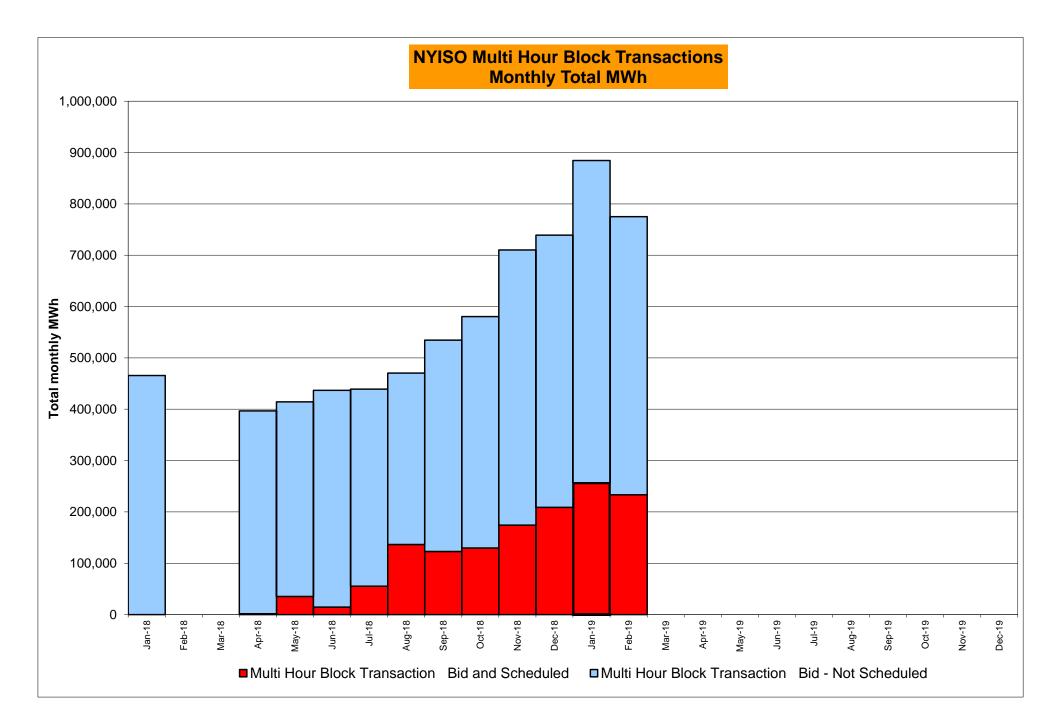


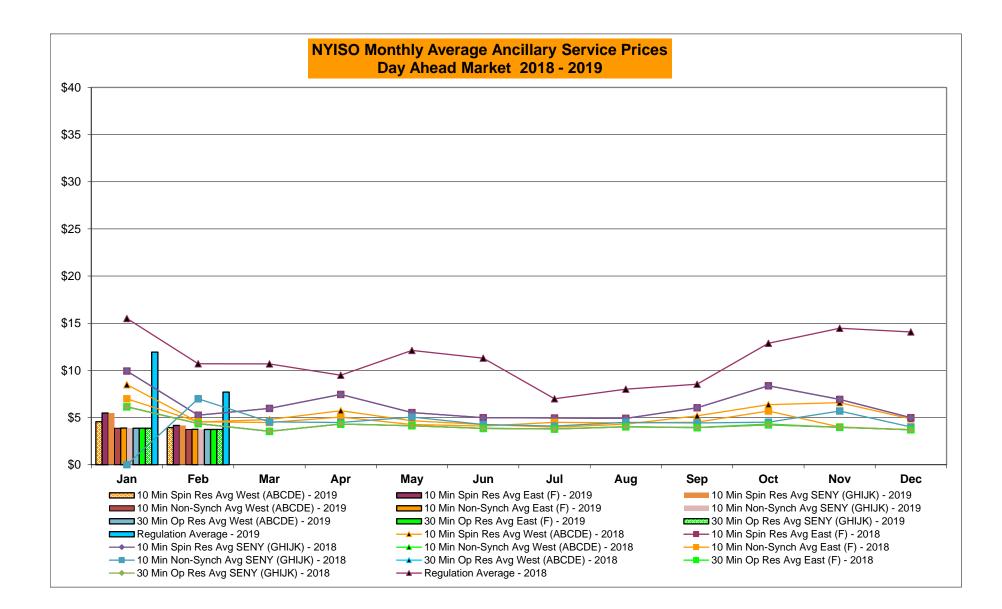


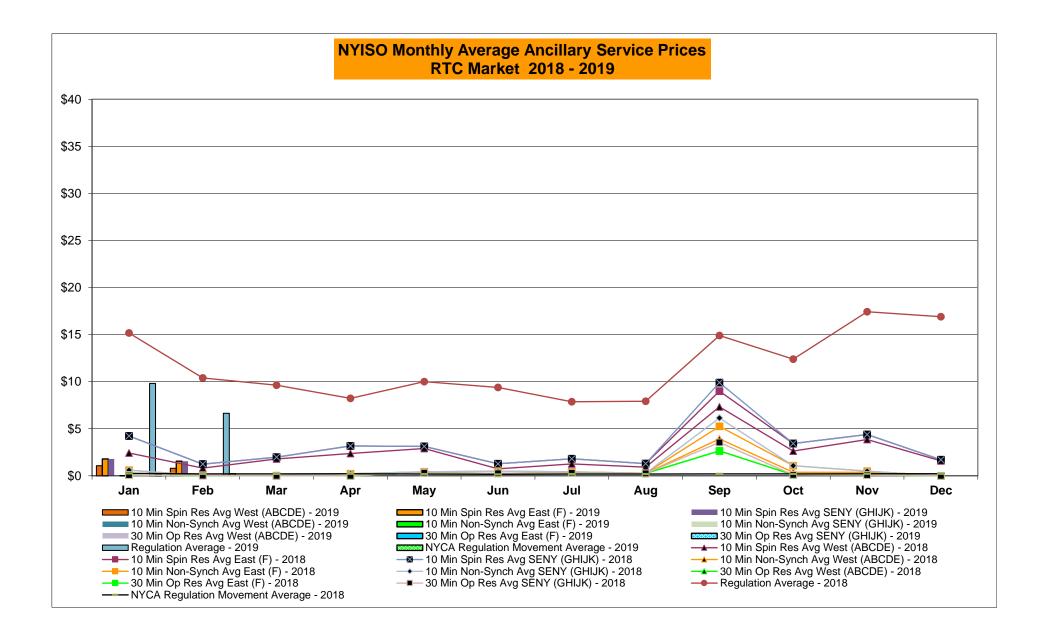
Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2019

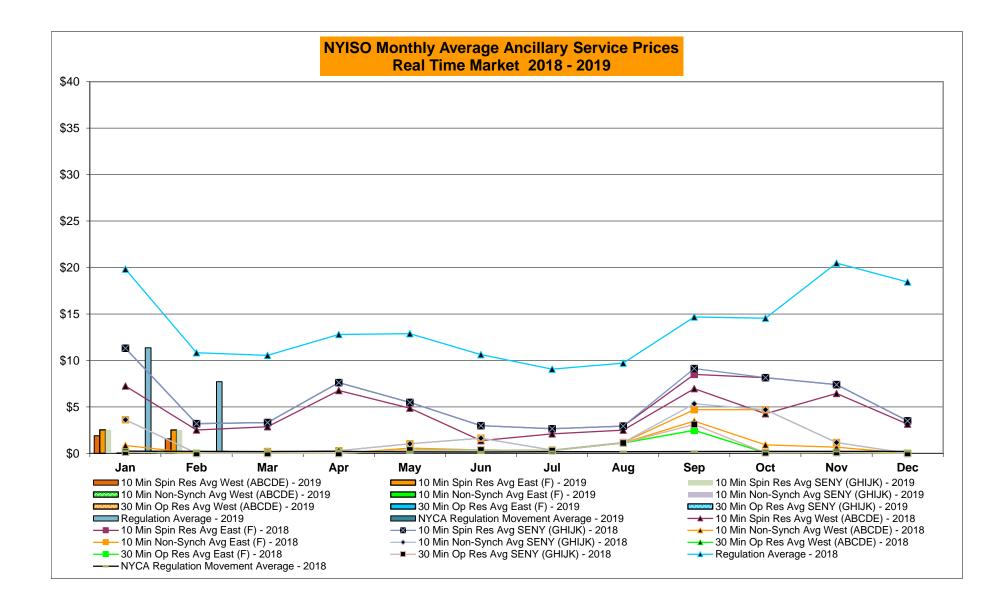
| | | Virtual L | | Virtual Su | | | | Virtual L | oad Bid | Virtual Su | | | 1 | \ |
|--------|--------|-----------|-----------|------------|-----------|--------|--------|-----------|-----------|------------|-----------|--------|--------|-----|
| | | | Not | | Not | | | | Not | | Not | | | |
| Zone | Date | Scheduled | Scheduled | Scheduled | Scheduled | Zone | Date | Scheduled | Scheduled | Scheduled | Scheduled | Zone | Date | Sch |
| WEST | Jan-19 | 9,007 | 5,211 | 1,609 | 797 | MHK VL | | 1,171 | | | | DUNWOD | Jan-19 | _ |
| | Feb-19 | 6,628 | 2,000 | 1,397 | 921 | | Feb-19 | 872 | 75 | 1,709 | 596 | | Feb-19 | |
| | 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 | 9 |
| | Dec-19 | | | | | | Dec-19 | | | | | | Dec-19 | 9 |
| GENESE | Jan-19 | 527 | 153 | 3,560 | 529 | CAPITL | Jan-19 | 3,042 | 962 | 1,550 | 1,424 | N.Y.C. | Jan-19 | 9 |
| | Feb-19 | 896 | 66 | 3,776 | 520 | | Feb-19 | 2,591 | 485 | 1,851 | 1,756 | | Feb-19 | 9 |
| | Mar-19 | | | | | | Mar-19 | | | | | | Mar-19 | 9 |
| | Apr-19 | | | | | | Apr-19 | | | | | | Apr-19 | 9 |
| | 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 | Jan-19 | 484 | 540 | 6,406 | 1,553 | HUD VL | Jan-19 | 856 | 980 | 9,176 | 7,130 | LONGIL | Jan-19 | 9 |
| | Feb-19 | 431 | 359 | 6,559 | 1,743 | | Feb-19 | 977 | 843 | 7,408 | 7,858 | | Feb-19 | 9 |
| | Mar-19 | | | | | | Mar-19 | | | | | | Mar-19 | 9 |
| | Apr-19 | | | | | | Apr-19 | | | | | | Apr-19 | 9 |
| | May-19 | | | | | | May-19 | | | | | | May-19 | 9 |
| | Jun-19 | | | | | | Jun-19 | | | | | | Jun-19 | |
| | Jul-19 | | | | | | Jul-19 | | | | | | Jul-19 | 9 |
| | Aug-19 | | | | | | Aug-19 | | | | | | Aug-19 | 9 |
| | Sep-19 | | | | | | Sep-19 | | | | | | Sep-19 | 9 |
| | Oct-19 | | | | | | Oct-19 | | | | | | Oct-19 | |
| | Nov-19 | | | | | | Nov-19 | | | | | | Nov-19 | 9 |
| | Dec-19 | | | | | | Dec-19 | | | | | | Dec-19 | 9 |
| CENTRL | Jan-19 | 3,795 | 374 | 30,145 | 507 | MILLWD | Jan-19 | 405 | 386 | 2,051 | 169 | NYISO | Jan-19 | 9 |
| | Feb-19 | 3,059 | 123 | | 609 | | Feb-19 | 540 | | | 247 | | Feb-19 | |
| | Mar-19 | | | | | | Mar-19 | | | | | | Mar-19 | |
| | Apr-19 | | | | | | Apr-19 | | | | | | Apr-19 | |
| | May-19 | | | | | | May-19 | | | | | | May-19 | 9 |
| | 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 | |
| 1 | Nov-19 | | | | | | Nov-19 | | | | | | Nov-19 | |
| 1 | Dec-19 | | | | | | Dec-19 | | | | | | Dec-19 | 9 |

| Virtual L | oad Bid | Virtual Su | |
|-----------|-----------|------------|-----------|
| | Not | | Not |
| cheduled | Scheduled | Scheduled | Scheduled |
| 1,370 | 798 | 2,651 | 203 |
| 1,064 | 494 | 3,273 | 259 |
| 1,004 | | 5,275 | 200 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| 0.005 | 0.004 | 0.500 | 4 000 |
| 3,665 | 3,061 | 2,599 | 1,366 |
| 2,545 | 2,025 | 2,248 | 1,648 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| 3,362 | 2,135 | 3,091 | 1,056 |
| 2,514 | 1,297 | 3,446 | 1,425 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| 27,683 | 14,720 | 64,802 | 15,203 |
| 22,118 | 7,905 | 62,089 | 17,582 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |









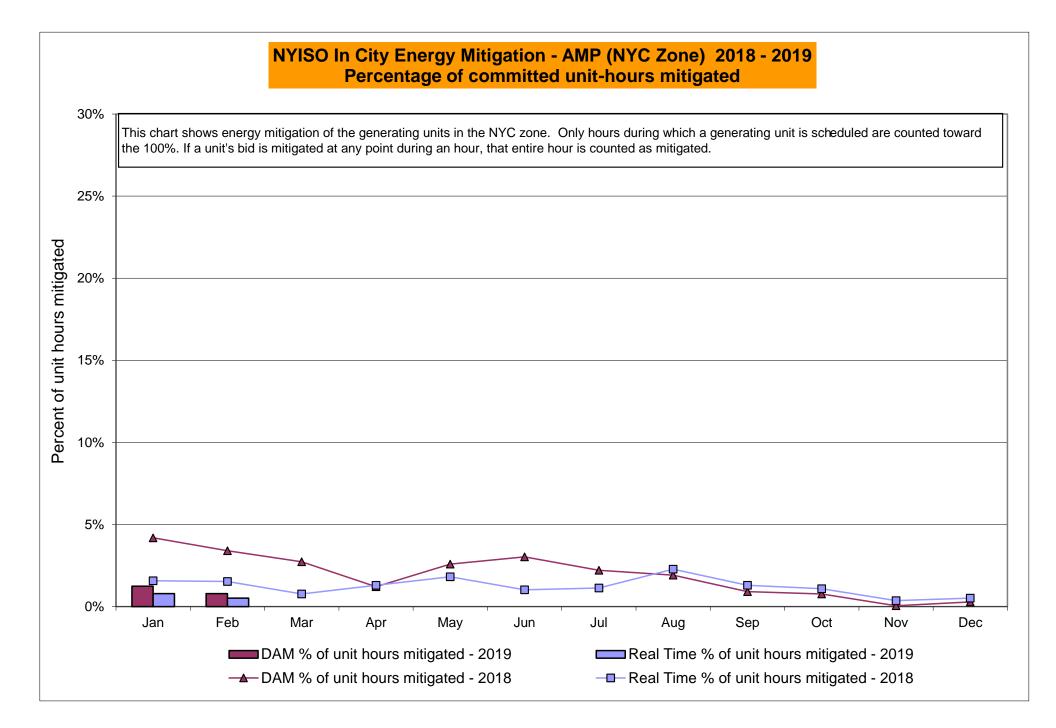
NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH)

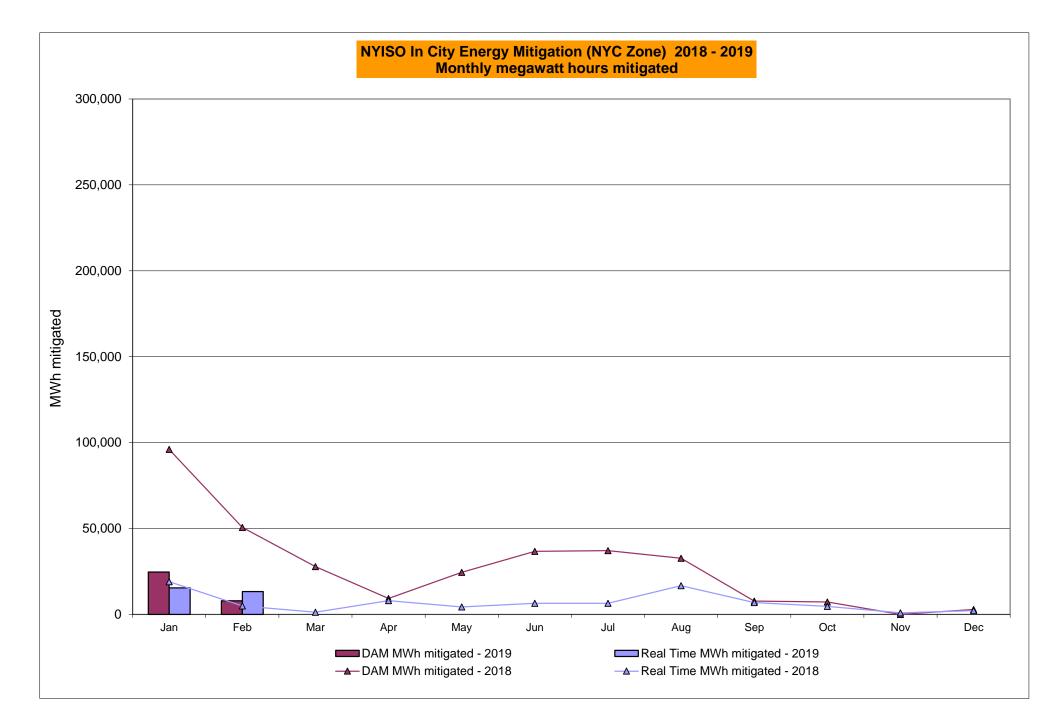
| <u>2019</u> | January | February | March | <u>April</u> | May | <u>June</u> | <u>July</u> |
|---|---|---|--|--|--|---|--|
| Day Ahead Market | <u>••••••••</u> | <u> </u> | <u></u> | <u></u> | <u></u> | <u></u> | <u></u> |
| 10 Min Spin SENY (GHIJK) | 5.47 | 4.17 | | | | | |
| 10 Min Spin East (F) | 5.47 | 4.17 | | | | | |
| 10 Min Spin West (ABCDE) | 4.56 | 3.94 | | | | | |
| 10 Min Non Synch SENY (GHIJK) | 3.88 | 3.75 | | | | | |
| 10 Min Non Synch East (F) | 3.88 | 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 | | | | | |
| Regulation | 11.94 | 7.69 | | | | | |
| RTC Market | | | | | | | |
| 10 Min Spin SENY (GHIJK) | 1.80 | 1.55 | | | | | |
| 10 Min Spin East (F) | 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) | 0.00 | 0.08 | | | | | |
| , | | | | | | | |
| 30 Min SENY (GHIJK) | 0.00 | 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 | | | | | | | |
| 10 Min Spin SENY (GHIJK) | 2.53 | 2.51 | | | | | |
| 10 Min Spin East (F) | 2.53 | 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) | 0.00 | 0.01 | | | | | |
| 30 Min East (F) | 0.00 | 0.01 | | | | | |
| 30 Min West (ABCDE) | 0.00 | 0.01 | | | | | |
| Regulation | 11.36 | 7.72 | | | | | |
| NYCA Regulation Movement | 0.22 | 0.22 | | | | | |
| | | | | | | | L.L. |
| 2010 | lonuoni | Lehruger, | Marah | A | Mari | | |
| 2018 Day Algorid Market | <u>January</u> | <u>February</u> | March | <u>April</u> | <u>May</u> | <u>June</u> | <u>July</u> |
| Day Ahead Market | | | | | | | |
| Day Ahead Market 10 Min Spin SENY (GHIJK) | 9.93 | 5.24 | 5.97 | 7.45 | 5.52 | 4.98 | 4.95 |
| 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 |
| 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 |
| Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) | 9.93 9.93 8.49 6.99 | 5.24 5.24 4.53 4.54 | 5.97 5.97 4.78 4.48 | 7.45 7.45 5.73 5.05 | 5.52 5.52 4.65 4.26 | 4.98 4.98 4.26 4.09 | 4.95 4.95 3.98 4.49 |
| 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) | 9.93 9.93 8.49 6.99 6.99 | 5.24 5.24 4.53 4.54 4.54 | 5.97 5.97 4.78 4.48 4.48 | 7.45 7.45 5.73 5.05 5.05 | 5.52 5.52 4.65 4.26 4.26 | 4.98 4.98 4.26 4.09 4.09 | 4.95 4.95 3.98 4.49 4.49 |
| 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 |
| 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 |
| 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 6.99 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 | 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 | 4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 |
| 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) | 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 |
| 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 6.99 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 | 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 | 4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 |
| 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 West (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation | 9.93 9.93 8.49 6.99 6.99 6.15 6.14 6.14 6.14 | 5.24 5.24 4.53 4.54 4.54 4.36 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 4.31 | 5.52 5.52 4.65 4.26 4.26 4.13 4.13 4.13 4.13 4.13 | 4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 3.85 3.85 | 4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 3.79 3.79 |
| Day Ahead Market10 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)RegulationRTC Market | 9.93 9.93 8.49 6.99 6.99 6.15 6.14 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 4.31 9.49 | 5.52 5.52 4.65 4.26 4.26 4.13 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 3.85 3.85 11.30 | 4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 3.79 3.79 6.99 |
| Day Ahead Market10 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 West (ABCDE)RegulationRTC Market10 Min Spin SENY (GHIJK) | 9.93 9.93 8.49 6.99 6.99 6.15 6.14 6.14 6.14 15.51 4.23 | 5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70 1.24 | 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 4.31 9.49 3.17 | 5.52 5.52 4.65 4.26 4.26 4.13 4.13 4.13 4.13 12.11 3.13 | 4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 3.85 11.30 | 4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 3.79 6.99 |
| Day Ahead Market10 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 West (ABCDE)RegulationRTC Market10 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 6.14 15.51 4.23 4.23 | 5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 | 5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 | 7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 4.31 9.49 3.17 3.17 | 5.52 5.52 4.65 4.26 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 | 4.98 4.98 4.26 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 | 4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 3.79 6.99 1.81 1.81 |
| Day Ahead Market10 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)RegulationRTC Market10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE) | 9.93 9.93 8.49 6.99 6.15 6.14 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 10.70 1.24 1.24 1.24 0.82 | 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 | 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 | 5.52 5.52 4.65 4.26 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 | 4.98 4.98 4.26 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 0.74 | 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 |
| Day Ahead Market10 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)RegulationRTC Market10 Min Spin East (F)10 Min Spin Kest (ABCDE)10 Min Spin Kest (ABCDE)10 Min Spin Kest (ABCDE)10 Min Spin Kest (ABCDE)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 | 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 4.31 9.49 3.17 3.17 2.38 0.22 | 5.52 5.52 4.65 4.26 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 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 3.79 6.99 1.81 1.81 1.27 0.42 |
| Day Ahead Market10 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)RegulationRTC Market10 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 SENY (GHIJK)10 Min Non Synch East (F) | $\begin{array}{c} 9.93\\ 9.93\\ 9.93\\ 8.49\\ 6.99\\ 6.99\\ 6.15\\ 6.14\\ 6.14\\ 6.14\\ 15.51\\ \end{array}$ | 5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 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 0.01 | 7.45 7.45 5.73 5.05 4.31 4.31 4.31 4.31 9.49 3.17 3.17 2.38 0.22 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 0.42 | 4.98 4.98 4.26 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.49 | 4.95 4.95 3.98 4.49 3.80 3.79 3.79 3.79 6.99 1.81 1.81 1.27 0.42 0.42 |
| Day Ahead Market10 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)RegulationRTC Market10 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 SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)10 Min Non Synch West (ABCDE) | $\begin{array}{c} 9.93\\ 9.93\\ 9.93\\ 8.49\\ 6.99\\ 6.99\\ 6.15\\ 6.14\\ 6.14\\ 6.14\\ 15.51\\ 4.23\\ 4.23\\ 2.43\\ 0.59\\ 0.59\\ 0.59\\ 0.08\end{array}$ | 5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 10.70 1.24 1.24 1.24 0.82 0.03 0.03 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 | 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 | 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 | $\begin{array}{c} 4.98\\ 4.98\\ 4.26\\ 4.09\\ 4.09\\ 3.85\\ 3.85\\ 3.85\\ 3.85\\ 11.30\\ 1.28\\ 1.28\\ 0.74\\ 0.49\\ 0.49\\ 0.27\\ \end{array}$ | 4.95 4.95 3.98 4.49 3.80 3.79 3.79 3.79 6.99 1.81 1.81 1.27 0.42 0.42 0.33 |
| Day Ahead Market10 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)RegulationRTC Market10 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 East (F)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min SENY (GHIJK)30 Min SENY (GHIJK) | $\begin{array}{c} 9.93\\ 9.93\\ 9.93\\ 8.49\\ 6.99\\ 6.99\\ 6.15\\ 6.14\\ 6.14\\ 15.51\\ \end{array}$ | 5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 10.70 1.24 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 0.01 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 | 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 | $\begin{array}{c} 4.98\\ 4.98\\ 4.26\\ 4.09\\ 4.09\\ 3.85\\ 3.85\\ 3.85\\ 3.85\\ 11.30\\ 1.28\\ 1.28\\ 0.74\\ 0.49\\ 0.49\\ 0.27$ | 4.95 4.95 3.98 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 |
| Day Ahead Market10 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)RegulationRTC Market10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)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) | $\begin{array}{c} 9.93\\ 9.93\\ 8.49\\ 6.99\\ 6.99\\ 6.15\\ 6.14\\ 6.14\\ 15.51\\ \end{array}$ | 5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 10.70 1.24 1.24 0.82 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 1.98 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 4.31 9.49 3.17 3.17 2.38 0.22 0.22 0.22 0.00 0.00 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 | $\begin{array}{c} 4.98\\ 4.98\\ 4.26\\ 4.09\\ 4.09\\ 3.85\\ 3.85\\ 3.85\\ 3.85\\ 11.30\\ \end{array}$ | 4.95 4.95 3.98 4.49 3.80 3.79 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 |
| Day Ahead Market10 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)RegulationRTC Market10 Min Spin SENY (GHIJK)10 Min Spin East (F)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 SENY (GHIJK)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min SENY (ABCDE) | $\begin{array}{c} 9.93\\ 9.93\\ 8.49\\ 6.99\\ 6.99\\ 6.15\\ 6.14\\ 6.14\\ 15.51\\ 4.23\\ 4.23\\ 2.43\\ 0.59\\ 0.59\\ 0.59\\ 0.08$ | 5.24 5.24 4.53 4.54 4.54 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 | 5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 1.68 1.98 1.98 1.79 0.01 0.01 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 0.22 0.22 0.00 0.00 0.00 0.00 0.00 | 5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.32 0.32 0.32 | 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 | 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 |
| Day Ahead Market10 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 West (ABCDE)RegulationRTC Market10 Min Spin SENY (GHIJK)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 SENY (GHIJK)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min West (ABCDE)30 Min West (ABCDE)30 Min West (ABCDE)30 Min West (ABCDE)30 Min West (ABCDE) | $\begin{array}{c} 9.93\\ 9.93\\ 9.93\\ 8.49\\ 6.99\\ 6.99\\ 6.15\\ 6.14\\ 6.14\\ 15.51\\ \end{array}$ | 5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 10.70 1.24 1.24 1.24 0.82 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 10.68 1.98 1.98 1.98 1.79 0.01 0.01 0.01 0.00 0.0 | 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 0.22 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 0.32 10.01 | 4.98 4.98 4.26 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 1.28 0.74 0.49 0.49 0.49 0.27 0.27 0.27 0.27 0.27 9.39 | $\begin{array}{c} 4.95\\ 4.95\\ 3.98\\ 4.49\\ 3.80\\ 3.79\\ 3.79\\ 3.79\\ 6.99\\ \end{array}$ $\begin{array}{c} 1.81\\ 1.81\\ 1.27\\ 0.42\\ 0.42\\ 0.42\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 7.87\\ \end{array}$ |
| Day Ahead Market10 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)RegulationRTC Market10 Min Spin SENY (GHIJK)10 Min Spin East (F)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 SENY (GHIJK)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min SENY (ABCDE) | $\begin{array}{c} 9.93\\ 9.93\\ 8.49\\ 6.99\\ 6.99\\ 6.15\\ 6.14\\ 6.14\\ 15.51\\ \end{array}$ | 5.24 5.24 4.53 4.54 4.54 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 | 5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 1.68 1.98 1.79 0.01 0.01 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 0.22 0.22 0.00 0.00 0.00 0.00 0.00 | 5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.32 0.32 0.32 | 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 | 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 |
| Day Ahead Market10 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 West (ABCDE)RegulationRTC Market10 Min Spin SENY (GHIJK)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 SENY (GHIJK)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min West (ABCDE)30 Min West (ABCDE)30 Min West (ABCDE)30 Min West (ABCDE)30 Min West (ABCDE) | $\begin{array}{c} 9.93\\ 9.93\\ 9.93\\ 8.49\\ 6.99\\ 6.99\\ 6.15\\ 6.14\\ 6.14\\ 15.51\\ \end{array}$ | 5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 10.70 1.24 1.24 1.24 0.82 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 10.68 1.98 1.98 1.98 1.79 0.01 0.01 0.01 0.00 0.0 | 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 0.22 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 0.32 10.01 | 4.98 4.98 4.26 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 1.28 0.74 0.49 0.49 0.49 0.27 0.27 0.27 0.27 0.27 9.39 | $\begin{array}{c} 4.95\\ 4.95\\ 3.98\\ 4.49\\ 3.80\\ 3.79\\ 3.79\\ 3.79\\ 6.99\\ \end{array}$ $\begin{array}{c} 1.81\\ 1.81\\ 1.27\\ 0.42\\ 0.42\\ 0.42\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 7.87\\ \end{array}$ |
| Day Ahead Market10 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 Spin West (ABCDE)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)30 Min Kest (ABCDE)RegulationNYCA Regulation Movement | $\begin{array}{c} 9.93\\ 9.93\\ 9.93\\ 8.49\\ 6.99\\ 6.99\\ 6.15\\ 6.14\\ 6.14\\ 15.51\\ \end{array}$ | 5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 10.70 1.24 1.24 1.24 0.82 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 10.68 1.98 1.98 1.98 1.79 0.01 0.01 0.01 0.00 0.0 | 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 0.22 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 0.32 10.01 | 4.98 4.98 4.26 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 1.28 0.74 0.49 0.49 0.49 0.27 0.27 0.27 0.27 0.27 9.39 | $\begin{array}{c} 4.95\\ 4.95\\ 3.98\\ 4.49\\ 3.80\\ 3.79\\ 3.79\\ 3.79\\ 6.99\\ \end{array}$ $\begin{array}{c} 1.81\\ 1.81\\ 1.27\\ 0.42\\ 0.42\\ 0.42\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 7.87\\ \end{array}$ |
| Day Ahead Market10 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)RegulationRTC Market10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin East (F)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 Kest (ABCDE)30 Min East (F)30 Min SENY (GHIJK)30 Min Kest (ABCDE)30 Min Kest (ABCDE)RegulationNYCA Regulation MovementReal Time Market | $\begin{array}{c} 9.93\\ 9.93\\ 8.49\\ 6.99\\ 6.99\\ 6.15\\ 6.14\\ 6.14\\ 15.51\\ 4.23\\ 4.23\\ 2.43\\ 0.59\\ 0.59\\ 0.59\\ 0.08\\ 0.08\\ 0.08\\ 0.08\\ 15.17\\ 0.26\\ \end{array}$ | 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 0.02 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 10.68 1.98 1.98 1.79 0.01 0.01 0.00 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 \\ 0.22 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 8.22 \\ 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 0.42 0.32 0.32 0.32 0.32 10.01 0.19 | $\begin{array}{c} 4.98\\ 4.98\\ 4.26\\ 4.09\\ 4.09\\ 3.85\\ 3.85\\ 3.85\\ 3.85\\ 3.85\\ 11.30\\ \end{array}$ | $\begin{array}{c} 4.95\\ 4.95\\ 3.98\\ 4.49\\ 4.49\\ 3.80\\ 3.79\\ 3.79\\ 3.79\\ 3.79\\ 6.99\\ \end{array}$ |
| Day Ahead Market10 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)RegulationRTC Market10 Min Spin SENY (GHIJK)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 East (F)30 Min SENY (GHIJK)30 Min SENY (GHIJK)30 Min SENY (GHIJK)30 Min SENY (GHIJK)30 Min West (ABCDE)30 Min West (ABCDE)30 Min West (ABCDE)30 Min West (ABCDE)RegulationNYCA Regulation MovementReal Time Market10 Min Spin SENY (GHIJK) | $\begin{array}{c} 9.93\\ 9.93\\ 9.93\\ 8.49\\ 6.99\\ 6.99\\ 6.15\\ 6.14\\ 6.14\\ 15.51\\ \end{array}$ | 5.24 5.24 4.53 4.54 4.54 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 3.19 | 5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 10.68 1.98 1.98 1.79 0.01 0.01 0.00 0.20 0.20 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 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 5.48 | 4.98 4.98 4.26 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 9.39 0.16 2.98 | $\begin{array}{c} 4.95\\ 4.95\\ 3.98\\ 4.49\\ 3.80\\ 3.79\\ 3.79\\ 3.79\\ 6.99\\ \end{array}$ $\begin{array}{c} 1.81\\ 1.81\\ 1.27\\ 0.42\\ 0.42\\ 0.42\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 7.87\\ 0.19\\ \end{array}$ |
| Day Ahead Market10 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 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)30 Min SENY (GHIJK)30 Min SENY (GHIJK)30 Min West (ABCDE)30 Min West (ABCDE)30 Min West (ABCDE)30 Min SENY (GHIJK)30 Min Spin SENY (GHIJK)30 Min Sp | $\begin{array}{c} 9.93\\ 9.93\\ 9.93\\ 8.49\\ 6.99\\ 6.99\\ 6.15\\ 6.14\\ 6.14\\ 15.51\\ \end{array}$ | 5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70 1.24 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 | 5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 1.98 1.98 1.98 1.79 0.01 0.01 0.00 0.331 3.31 | 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 0.00 0.00 0.00 0.00 0.00 0.00 8.22 0.22 7.62 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 0.33 0.32 0.3 | $\begin{array}{c} 4.98\\ 4.98\\ 4.26\\ 4.09\\ 4.09\\ 3.85\\ 3.85\\ 3.85\\ 3.85\\ 3.85\\ 11.30\\ \end{array}$ | $\begin{array}{c} 4.95\\ 4.95\\ 3.98\\ 4.49\\ 4.49\\ 3.80\\ 3.79\\ 3.79\\ 3.79\\ 6.99\\ \end{array}$ $\begin{array}{c} 1.81\\ 1.81\\ 1.27\\ 0.42\\ 0.42\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 7.87\\ 0.19\\ \end{array}$ |
| Day Ahead Market10 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 East (F)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)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)30 Min West (ABCDE)30 Min West (ABCDE)30 Min SENY (GHIJK)30 Min SENY (GHIJK)30 Min Spin SENY (GH | $\begin{array}{c} 9.93\\ 9.93\\ 9.93\\ 8.49\\ 6.99\\ 6.99\\ 6.15\\ 6.14\\ 6.14\\ 15.51\\ \end{array}$ | 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 0.02 0.02 0.02 0.02 0.02 0.02 10.40 0.21 3.19 3.19 3.19 2.52 | 5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 1.98 1.98 1.79 0.01 0.01 0.00 0.20 3.31 3.31 3.31 2.86 | $\begin{array}{c} 7.45\\ 7.45\\ 5.73\\ 5.05\\ 5.05\\ 4.31\\ 4.31\\ 4.31\\ 4.31\\ 4.31\\ 9.49\\ \end{array}\\ \begin{array}{c} 3.17\\ 3.17\\ 2.38\\ 0.22\\ 0.22\\ 0.22\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.22\\ \end{array}$ | 5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 2.91 0.42 0.42 0.33 0.32 0.33 0.32 0.32 0.32 0.32 0.32 0.33 0.32 0.32 0.32 0.32 0.32 0.33 0.32 0.32 0.32 0.32 0.33 0.32 0.32 0.33 0.32 0.32 0.33 0.32 0.32 0.33 0.32 0.32 0.33 0.32 0.33 0.32 0.32 0.33 0.32 0.32 0.33 0.32 0.32 0.33 0.32 0.32 0.33 0.32 0.33 0.32 0.33 0.32 0.33 0.32 0.33 0.32 0.33 0.32 0.33 0.32 0.33 0.33 0.32 0.33 0.32 0.33 0.32 0.33 0.32 0.33 0.33 0.32 0.33 0.33 0.33 0.34 0.33 0.35 0.3 | $\begin{array}{c} 4.98\\ 4.98\\ 4.26\\ 4.09\\ 4.09\\ 3.85\\ 3.85\\ 3.85\\ 3.85\\ 3.85\\ 11.30\\ \end{array}$ | $\begin{array}{c} 4.95\\ 4.95\\ 3.98\\ 4.49\\ 3.80\\ 3.79\\ 3.79\\ 3.79\\ 3.79\\ 6.99\\ \end{array}$ $\begin{array}{c} 1.81\\ 1.81\\ 1.27\\ 0.42\\ 0.42\\ 0.42\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 7.87\\ 0.19\\ \end{array}$ |
| Day Ahead Market10 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 Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)30 Min East (F)30 Min SENY (GHIJK)30 Min SENY (GHIJK)30 Min SENY (GHIJK)30 Min SENY (GHIJK)30 Min West (ABCDE)30 Min West (ABCDE)RegulationNYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK)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 Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK) | $\begin{array}{c} 9.93\\ 9.93\\ 9.93\\ 8.49\\ 6.99\\ 6.99\\ 6.15\\ 6.14\\ 6.14\\ 15.51\\ \end{array}$ | 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 0.02 0.02 0.02 0.02 0.02 0.02 10.40 0.21 3.19 3.19 3.19 2.52 0.01 | 5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 3.54 1.98 1.98 1.79 0.01 0.01 0.00 0.120 3.31 3.31 3.31 2.86 0.19 | 7.45 7.45 5.73 5.05 4.31 4.31 4.31 4.31 4.31 4.31 4.31 9.49 3.17 2.38 0.22 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.22 | 5.52 5.52 4.65 4.26 4.26 4.13 4.13 4.13 4.13 12.11 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32 0.32 0.32 10.01 0.19 5.48 5.48 4.86 1.03 1.03 | $\begin{array}{c} 4.98\\ 4.98\\ 4.26\\ 4.09\\ 4.09\\ 3.85\\ 3.85\\ 3.85\\ 3.85\\ 3.85\\ 11.30\\ \end{array}$ | 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 0.33 0.33 0.33 0.33 0.33 0.33 7.87 0.19 2.65 2.65 2.10 0.35 0.35 |
| Day Ahead Market10 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 West (ABCDE)Regulation RTC Market 10 Min Spin SENY (GHIJK)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 SENY (GHIJK)10 Min Non Synch West (ABCDE)30 Min East (F)30 Min East (F)30 Min SENY (GHIJK)30 Min SENY (GHIJK)30 Min SENY (GHIJK)30 Min SENY (GHIJK)30 Min Spin West (ABCDE)30 Min Non Synch SENY (GHIJK)30 Min Non Synch SENY (GHIJ | $\begin{array}{c} 9.93\\ 9.93\\ 9.93\\ 8.49\\ 6.99\\ 6.99\\ 6.15\\ 6.14\\ 6.14\\ 6.14\\ 15.51\\ \end{array}$ | 5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 10.70 1.24 1.24 1.24 0.82 0.03 0.03 0.02 0.02 0.02 0.02 0.02 10.40 0.21 3.19 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 1.98 1.98 1.98 1.98 1.79 0.01 0.01 0.00 0.19 0.00 | 7.45 7.45 5.73 5.05 4.31 4.31 4.31 4.31 4.31 9.49 3.17 2.38 0.22 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.22 0.28 0.28 0.00 | 5.52 5.52 4.65 4.26 4.26 4.13 4.13 4.13 4.13 12.11 3.13 2.91 0.42 0.42 0.32 0.57 | $\begin{array}{c} 4.98\\ 4.98\\ 4.98\\ 4.26\\ 4.09\\ 3.85\\ 3.85\\ 3.85\\ 3.85\\ 3.85\\ 11.30\\ \end{array}$ | $\begin{array}{c} 4.95\\ 4.95\\ 3.98\\ 4.49\\ 3.80\\ 3.79\\ 3.79\\ 3.79\\ 3.79\\ 6.99\\ \end{array}$ $\begin{array}{c} 1.81\\ 1.81\\ 1.27\\ 0.42\\ 0.42\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 7.87\\ 0.19\\ \end{array}$ $\begin{array}{c} 2.65\\ 2.65\\ 2.65\\ 2.10\\ 0.35\\ 0.35\\ 0.29\\ \end{array}$ |
| Day Ahead Market10 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 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 East (F)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch Kest (ABCDE)30 Min East (F)30 Min SENY (GHIJK)30 Min West (ABCDE)RegulationNYCA Regulation Movement Real Time Market 10 Min Spin East (F)10 Min Spin East (F)10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch West (ABCDE)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min SENY (GHIJK) | $\begin{array}{c} 9.93\\ 9.93\\ 9.93\\ 8.49\\ 6.99\\ 6.99\\ 6.15\\ 6.14\\ 6.14\\ 6.14\\ 15.51\\ \end{array}$ | 5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 1.24 0.82 0.03 0.03 0.02 0.02 0.02 0.02 0.02 0.02 10.40 0.21 3.19 3.19 3.19 3.19 2.52 0.01 0.00 0.00 | 5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 1.98 1.98 1.79 0.01 0.01 0.00 | 7.45 7.45 5.73 5.05 4.31 4.31 4.31 4.31 4.31 9.49 3.17 3.17 2.38 0.22 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.22 0.28 0.28 0.00 0.00 0.00 | 5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 2.91 0.42 0.42 0.33 0.32 0.57 0.37 | $\begin{array}{c} 4.98\\ 4.98\\ 4.26\\ 4.09\\ 4.09\\ 3.85\\ 3.85\\ 3.85\\ 3.85\\ 3.85\\ 11.30\\ \end{array}$ | $\begin{array}{c} 4.95\\ 4.95\\ 3.98\\ 4.49\\ 4.49\\ 3.80\\ 3.79\\ 3.79\\ 3.79\\ 3.79\\ 6.99\\ \end{array}$ $\begin{array}{c} 1.81\\ 1.81\\ 1.27\\ 0.42\\ 0.42\\ 0.33\\ 0.35\\ 0.29\\ 0.$ |
| Day Ahead Market10 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 SENY (GHIJK)30 Min East (F)30 Min West (ABCDE)RegulationRTC Market10 Min Spin SENY (GHIJK)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 SENY (GHIJK)10 Min Non Synch Kest (ABCDE)30 Min East (F)30 Min SENY (GHIJK)30 Min Sent (ABCDE)RegulationNYCA Regulation MovementReal Time Market10 Min Spin SENY (GHIJK)10 Min Spin East (F)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 SENY (GHIJK)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min SENY (GHIJ | $\begin{array}{c} 9.93\\ 9.93\\ 9.93\\ 8.49\\ 6.99\\ 6.99\\ 6.15\\ 6.14\\ 6.14\\ 15.51\\ \end{array}$ | 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 0.02 0.01 0.00 0.00 0.00 0.00 | 5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 1.98 1.98 1.79 0.01 0.00 | 7.45 7.45 5.73 5.05 4.31 4.31 4.31 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 0.00 0.00 0.22 7.62 7.62 7.62 6.77 0.28 0.28 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 0.42 0.33 0.32 0.32 0.32 10.01 0.19 5.48 5.48 5.48 4.86 1.03 1.03 0.57 0.37 0.37 | $\begin{array}{c} 4.98\\ 4.98\\ 4.98\\ 4.26\\ 4.09\\ 3.85\\ 3.85\\ 3.85\\ 3.85\\ 3.85\\ 3.85\\ 11.30\\ \end{array}$ | $\begin{array}{c} 4.95\\ 4.95\\ 3.98\\ 4.49\\ 3.80\\ 3.79\\ 3.79\\ 3.79\\ 3.79\\ 6.99\\ \end{array}$ $\begin{array}{c} 1.81\\ 1.81\\ 1.27\\ 0.42\\ 0.42\\ 0.42\\ 0.42\\ 0.33\\ 0.32\\ 0.29\\ 0.$ |
| Day Ahead Market10 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 SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch Kest (ABCDE)30 Min East (F)30 Min SENY (GHIJK)30 Min Spin SENY (GHIJK)30 Min Spin SENY (GHIJK)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 West (ABCDE)30 Min SENY (GHIJK)30 Min East (F)30 Min SENY (GHIJK)30 Min East (F)30 Min | $\begin{array}{c} 9.93\\ 9.93\\ 9.93\\ 8.49\\ 6.99\\ 6.99\\ 6.15\\ 6.14\\ 6.14\\ 15.51\\ \end{array}$ | 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 0.02 0.01 0.00 0.00 0.00 0.00 | 5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 1.98 1.98 1.98 1.98 1.79 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.20 3.31 3.31 3.31 2.86 0.19 0.19 0.01 0.00 | 7.45 7.45 5.73 5.05 4.31 4.31 4.31 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 0.00 0.00 0.22 7.62 7.62 7.62 7.62 7.62 0.28 0.28 0.28 0.00 | 5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.57 0.37 0.37 0.37 | $\begin{array}{c} 4.98\\ 4.98\\ 4.98\\ 4.26\\ 4.09\\ 4.09\\ 3.85\\ 3.85\\ 3.85\\ 3.85\\ 3.85\\ 11.30\\ \end{array}$ | 4.95 4.95 3.98 4.49 3.80 3.79 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 0.33 7.87 0.19 2.65 2.65 2.10 0.35 0.29 0.29 0.29 0.29 0.29 |
| Day Ahead Market10 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 SENY (GHIJK)30 Min East (F)30 Min West (ABCDE)RegulationRTC Market10 Min Spin SENY (GHIJK)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 SENY (GHIJK)10 Min Non Synch Kest (ABCDE)30 Min East (F)30 Min SENY (GHIJK)30 Min Sent (ABCDE)RegulationNYCA Regulation MovementReal Time Market10 Min Spin SENY (GHIJK)10 Min Spin East (F)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 SENY (GHIJK)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min SENY (GHIJ | $\begin{array}{c} 9.93\\ 9.93\\ 9.93\\ 8.49\\ 6.99\\ 6.99\\ 6.15\\ 6.14\\ 6.14\\ 15.51\\ \end{array}$ | 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 0.02 0.01 0.00 0.00 0.00 0.00 | 5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 1.98 1.98 1.79 0.01 0.00 | 7.45 7.45 5.73 5.05 4.31 4.31 4.31 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 0.00 0.00 0.22 7.62 7.62 7.62 6.77 0.28 0.28 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 0.42 0.33 0.32 0.32 0.32 10.01 0.19 5.48 5.48 5.48 4.86 1.03 1.03 0.57 0.37 0.37 | $\begin{array}{c} 4.98\\ 4.98\\ 4.98\\ 4.26\\ 4.09\\ 3.85\\ 3.85\\ 3.85\\ 3.85\\ 3.85\\ 3.85\\ 11.30\\ \end{array}$ | $\begin{array}{c} 4.95\\ 4.95\\ 3.98\\ 4.49\\ 3.80\\ 3.79\\ 3.79\\ 3.79\\ 3.79\\ 6.99\\ \end{array}$ $\begin{array}{c} 1.81\\ 1.81\\ 1.27\\ 0.42\\ 0.42\\ 0.42\\ 0.42\\ 0.33\\ 0.32\\ 0.29\\ 0.$ |

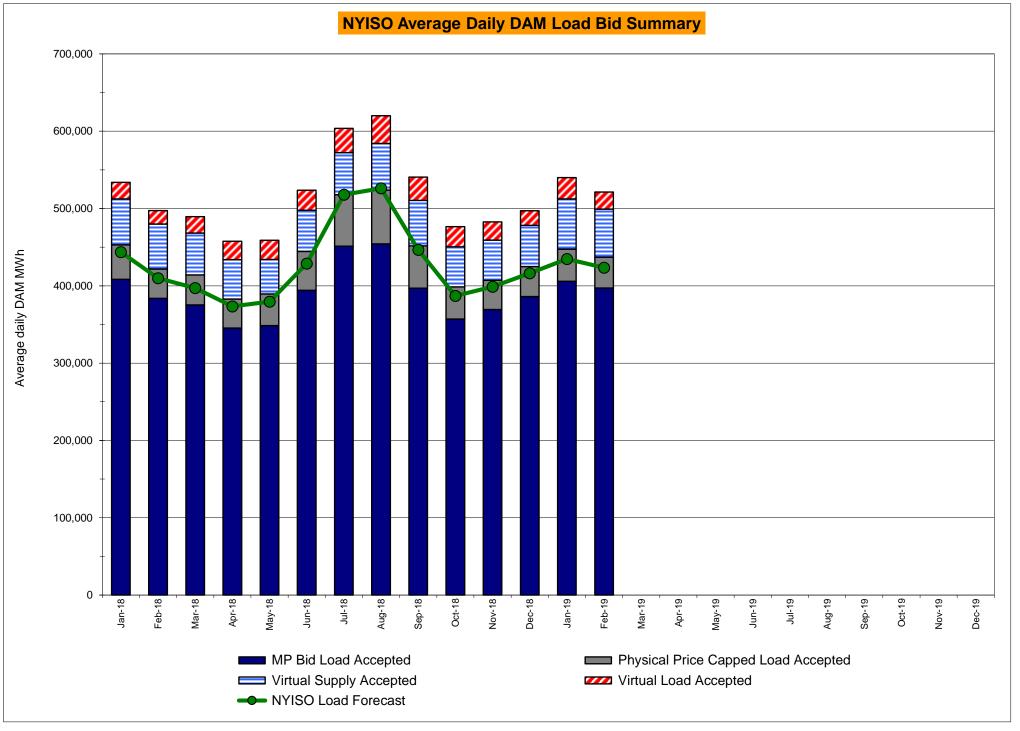
<u>August</u> <u>September</u>

October November December

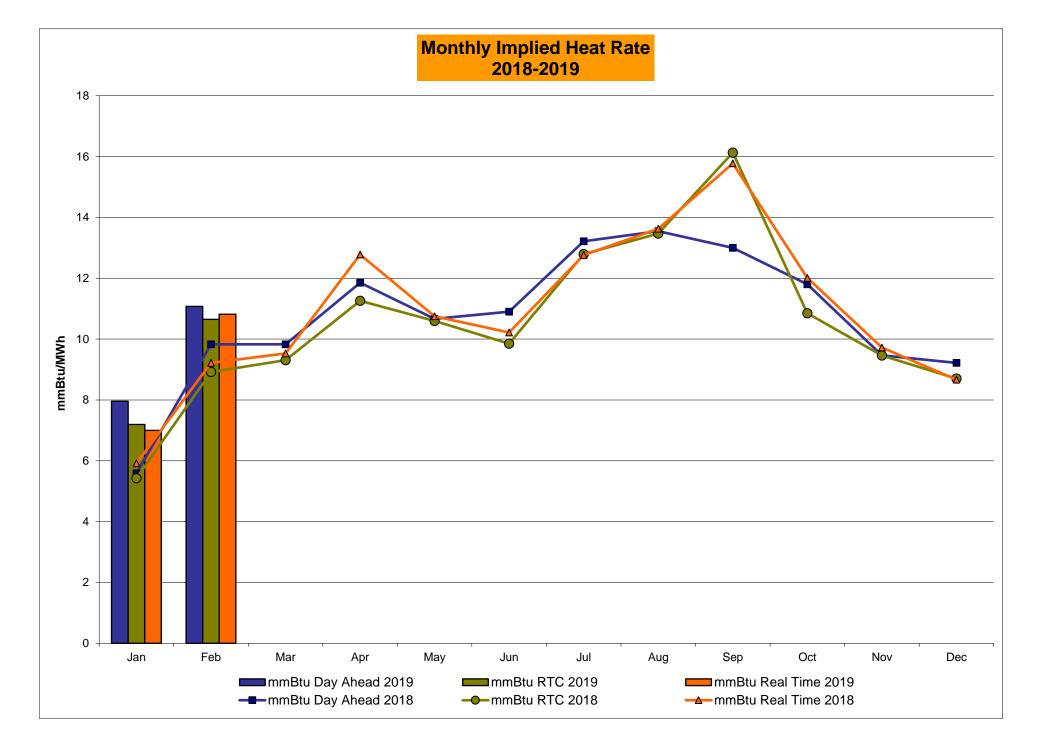
| August | September | October | November | December |
|--------|-----------|---------|----------|----------|
| ragaor | | 000000 | | December |
| 4.91 | 6.04 | 8.37 | 6.93 | 4.99 |
| 4.91 | 6.04 | 8.37 | 6.93 | 4.99 |
| 4.30 | 5.18 | 6.36 | 6.57 | 4.86 |
| 4.43 | 4.51 | 5.69 | 4.00 | 3.71 |
| 4.43 | 4.51 | 5.69 | 4.00 | 3.71 |
| 4.03 | 3.95 | 4.31 | 3.97 | 3.70 |
| 4.02 | 3.94 | 4.22 | 3.97 | 3.70 |
| 4.02 | 3.94 | 4.22 | 3.97 | 3.70 |
| 4.02 | 3.94 | 4.22 | 3.97 | 3.70 |
| 8.00 | 8.54 | 12.88 | 14.47 | 14.07 |
| | | | | |
| 1.29 | 9.90 | 3.43 | 4.39 | 1.71 |
| 1.29 | 9.00 | 3.43 | 4.39 | 1.71 |
| 0.93 | 7.33 | 2.63 | 3.85 | 1.58 |
| 0.27 | 6.14 | 1.07 | 0.50 | 0.00 |
| 0.27 | 5.25 | 1.07 | 0.50 | 0.00 |
| 0.25 | 3.92 | 0.38 | 0.38 | 0.00 |
| 0.25 | 3.55 | 0.11 | 0.09 | 0.00 |
| 0.25 | 2.65 | 0.11 | 0.09 | 0.00 |
| 0.25 | 2.65 | 0.11 | 0.09 | 0.00 |
| 7.92 | 14.90 | 12.40 | 17.43 | 16.90 |
| 0.19 | 0.20 | 0.21 | 0.22 | 0.22 |
| | | | | |
| 2.93 | 9.13 | 8.14 | 7.39 | 3.49 |
| 2.93 | 8.50 | 8.14 | 7.39 | 3.49 |
| 2.50 | 6.96 | 4.26 | 6.45 | 3.15 |
| 1.16 | 5.33 | 4.70 | 1.16 | 0.00 |
| 1.16 | 4.70 | 4.70 | 1.16 | 0.00 |
| 1.12 | 3.47 | 0.92 | 0.67 | 0.00 |
| 1.12 | 3.11 | 0.06 | 0.10 | 0.00 |
| 1.12 | 2.48 | 0.06 | 0.10 | 0.00 |
| 1.12 | 2.48 | 0.06 | 0.10 | 0.00 |
| 9.71 | 14.67 | 14.54 | 20.48 | 18.44 |
| 0.18 | 0.20 | 0.21 | 0.22 | 0.21 |



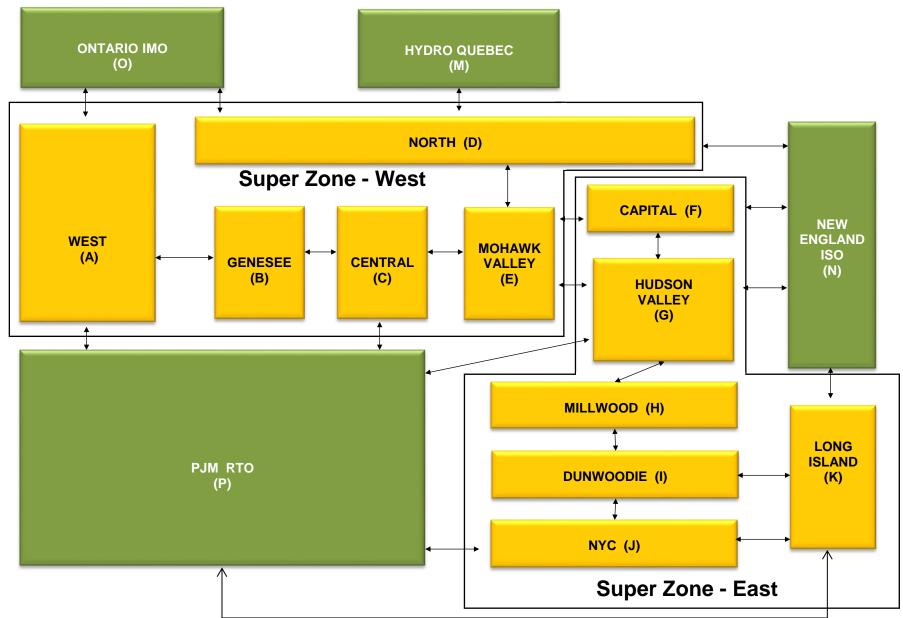




Market Mitigation and Analysis Prepared: 3/8/2019 2:18 PM



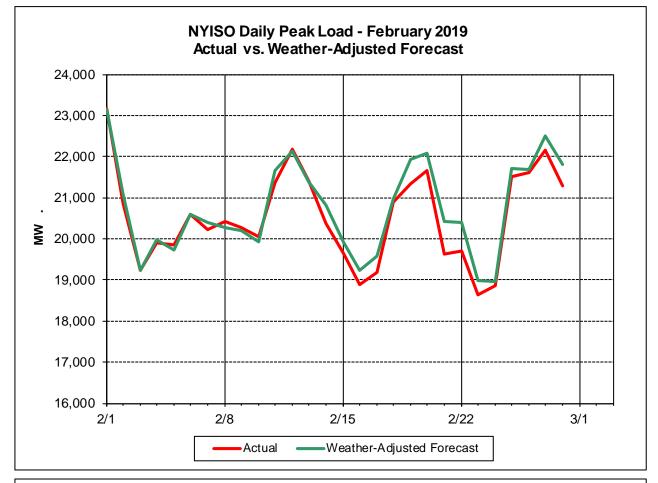
NYISO LBMP ZONES

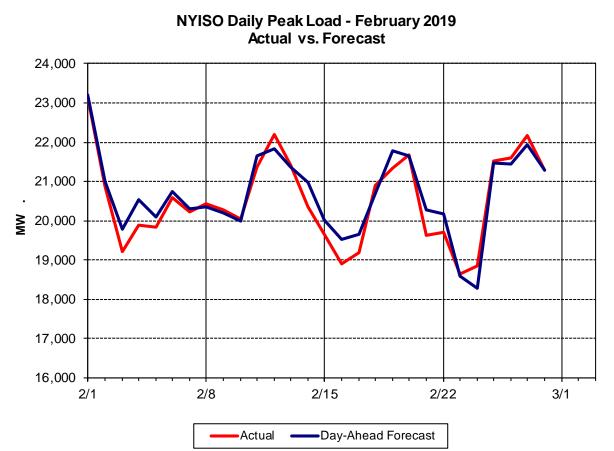


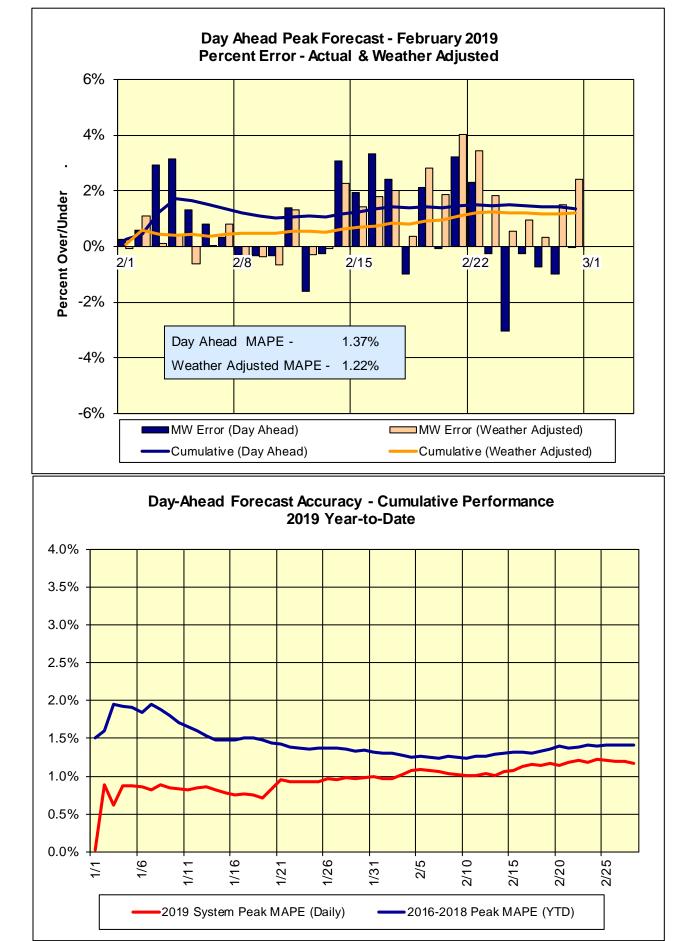
Market Mitigation and Analysis Prepared: 3/8/2019 2:19 PM

Billing Codes for Chart C

| Chart - C Category Name | Billing Code | 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 |







| Summary Description of Regulatory Filings, Investigations, Rulemakings and Related Orders in NYISO Matters – February 2019 | | | | |
|---|---|--------------------------------|------------|---|
| Filing Date | Filing Summary | Docket | Order Date | Order Summary |
| 12/04/2018 12/17/2018 | NYISO compliance filing re: effective date for Order 831 offer cap tariff revisionsNYISO compliance filing re: modified effective date for its FERC Order No. 831 tariff revisions and a request for limited waiver of certain tariff amendments until software issues can be corrected in early 2019 | ER17-1561-002 ER17-1561-003 | 02/21/2019 | Order dismissed the request for waiver as moot and accepted the 12/19/2018 effective date |
| 12/11/2018 | NYISO 205 filing re: revisions to the Public Policy Transmission Planning Process portion of its Comprehensive System Planning Process, as well as to its pro forma non-incumbent transmission owner operating agreement | ER19-528-000 | 02/08/2019 | Order accepted filing effective 02/10/2019, as requested |
| 12/17/2018 | NYISO filing on behalf of Central Hudson re: amendment to the ISO OATT to reflect Central Hudson's transmission revenue requirement adjusted in response to the Commission's deficiency letter | ER18-1598-001 EL18-77-000 | 02/21/2019 | Order accepted Central Hudson's amended transmission revenue requirements and terminated the Section 206 proceeding in Docket EL18-77-000 |
| 12/18/2018 | NYISO 205 filing re: small generator interconnection agreement (SA 2436) among the NYISO, LIPA and Riverhead Solar Farm, LLC | ER19-589-000 | 02/01/2019 | Order accepted filing effective 11/29/2018, as requested |
| 12/20/2018 | NYISO compliance filing on behalf of Niagara Mohawk Power Corporation ("Niagara Mohawk") re: updates to the depreciation rates set forth in Niagara Mohawk's wholesale transmission service charge formula rate | ER19-132-001 | 02/26/2019 | Order accepted filing effective 04/01/2018, as requested |
| 01/08/2019 | NYISO motion to intervene and comment re: NYSRC filing of a 17.0% IRM for the 2019-2020 Capability Year | ER19-659-000 | 02/08/2019 | Order accepted NYSRC filing effective 02/15/2019, as requested |
| 01/11/2019 | NYISO filing on behalf of New York State Electric & Gas Corporation re: cost reimbursement agreement (SA 2444) between NYSEG and Mid-Atlantic Interstate Transmission | ER19-797-000 | 02/22/2019 | Order accepted filing effective 12/17/2018, as requested |
| 02/01/2019 | NYISO motion to intervene and comment re: Con Edison request for tariff waiver concerning correction of LSE bus metering data for April 2018 | ER19-814-000 | | |
| 02/04/2019 | NYISO initial brief re: response to 12/20/2018 order denying NRG tariff waiver request and establishing a paper hearing concerning NYISO's current metering requirements | EL18-188-000 | | |

| 02/05/2019 | NYISO filing re: notice to FERC concerning successful deployment of software fix to address an offer cap implementation concern that arose from NYISO's response to Order No. 831 | ER17-1561-003 | |
|------------|---|----------------------------|--|
| 02/11/2019 | NYISO errata filing re: notice to FERC concerning successful deployment of software fix to address an offer cap implementation concern that arose from NYISO's response to Order No. 831 | ER17-1561-003 | |
| 02/12/2019 | NYISO filing re: Notice of Termination from the ISO- Administered Markets of BBPC, LLC dba Great Eastern Energy | No Docket No. | |
| 02/14/2019 | NYISO confidential filing to the NYPSC re: three-month Reliability Commitment Data Report for the period ending 01/31/2019 | PSC Matter No. 10-02007 | |
| 02/19/2019 | NYISO and PJM joint filing re: first quarterly report addressing the progress made toward developing revisions to the Joint Operating Agreement to resolve the concern described in the 09/17/2018 waiver request regarding the Market-to-Market Provisions and the East Towanda-Hillside Tie Line | ER18-2442-000 | |
| 02/19/2019 | NYISO answer re: Light Power & Gas of NY complaint – tariff violation concerning customer registration | EL19-39-000 | |
| 02/22/2019 | NYISO answer re: protests of NYISO's Order No. 841 energy storage resource compliance filing | ER19-467-000 | |
| 02/28/2019 | NYISO confidential filing to the NYPSC re: quarterly reliability project tracking report dated 02/00/2019 | PSC Matter No. 10-02007 | |