

Monthly Report

July 2018



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Operations Performance Metrics Monthly Report









July 2018 Report

Operations & Reliability Department New York Independent System Operator



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July 2018 Operations Performance Highlights

- Peak load of 31,293 MW occurred on 07/02/2018 HB 15
- All-time summer capability period peak load of 33,956 MW occurred on 7/19/2013 HB 16
- 22 hours of Thunder Storm Alerts were declared
- 0 hours of NERC TLR level 3 curtailment
- EDRP/SCR resources activated in Zone J on 7/2/2018 from HB13 to HB18.
- The outlier maximum hourly Load Forecast Error (MW) occurred on 7/17/2018 HB15 and is caused by thunderstorms reducing actual load.
- 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 | \$0.34 | \$9.24 |
| NY Savings from PJM-NY Coordinated Transaction Scheduling | (\$0.09) | \$0.66 |
| NY Savings from NE-NY Coordinated Transaction Scheduling | (\$0.23) | (\$0.92) |
| Total NY Savings | \$0.02 | \$8.98 |
| | | |
| Regional Savings from PJM-NY Coordinated Transaction Scheduling | \$0.27 | \$1.73 |
| Regional Savings from NE-NY Coordinated Transaction Scheduling | \$0.10 | \$0.47 |
| Total Regional Savings | \$0.37 | \$2.20 |

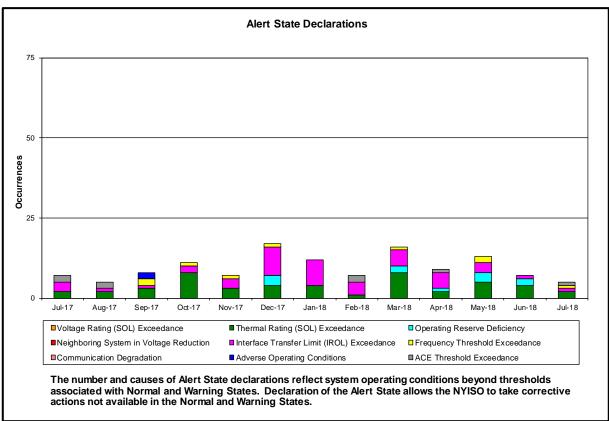
- Statewide uplift cost monthly average was (\$0.57)/MWh
- The following table identifies the Monthly ICAP Spot Market prices and the price delta.

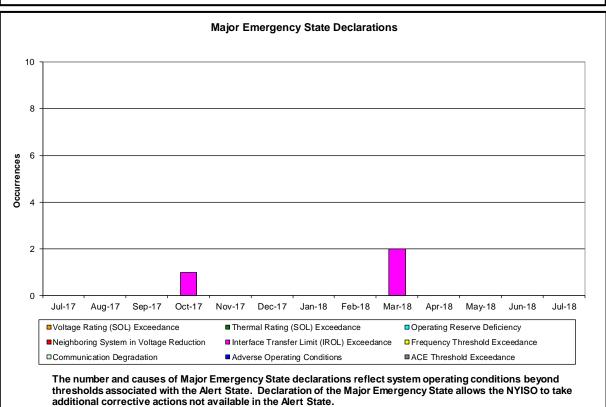
| Spot Auction Price Results | NYCA | Lower Hudson Valley Zones | New York City Zone | Long Island Zone |
|----------------------------|----------|---------------------------|--------------------|------------------|
| August 2018 Spot Price | \$3.88 | \$9.58 | \$9.58 | \$6.68 |
| July 2018 Spot Price | \$4.22 | \$10.16 | \$10.16 | \$6.68 |
| Delta | (\$0.34) | (\$0.58) | (\$0.58) | \$0.00 |

- NYC Price decrease by \$0.58 due to an increase in Generation UCAP Available
- LHV Price decrease by \$0.58 due to an increase in Generation UCAP Available
- NYCA Price decrease by \$0.34 due to an increase in Generation UCAP Available and a reduction in Exports

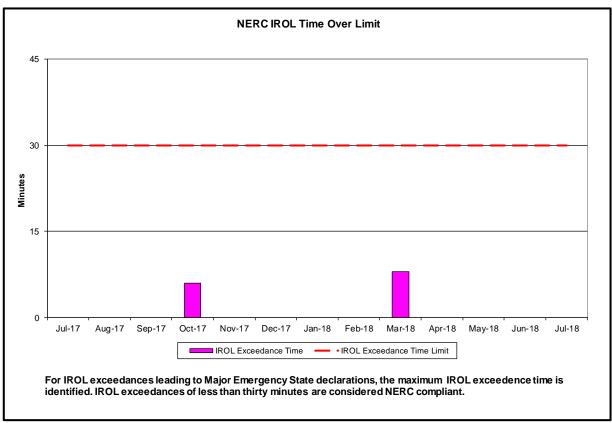


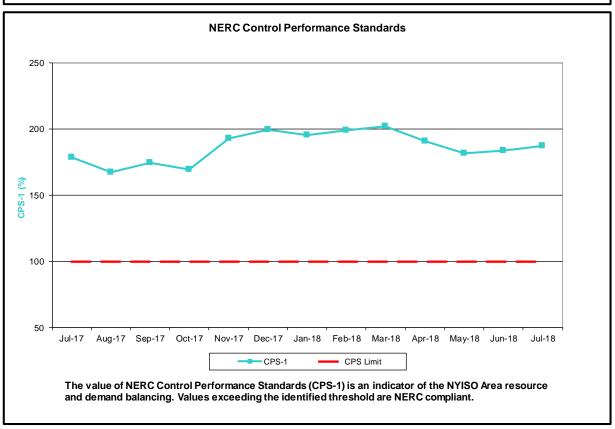
Reliability Performance Metrics



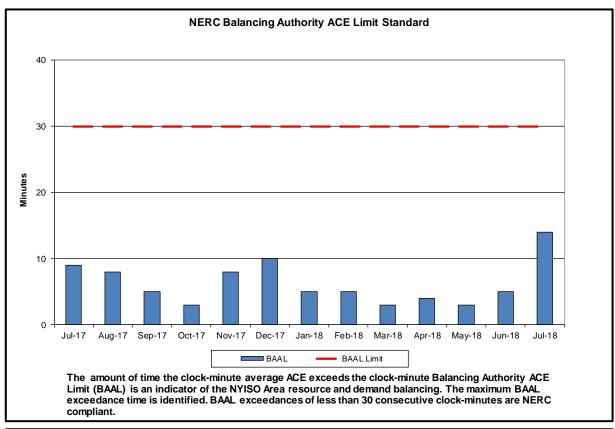


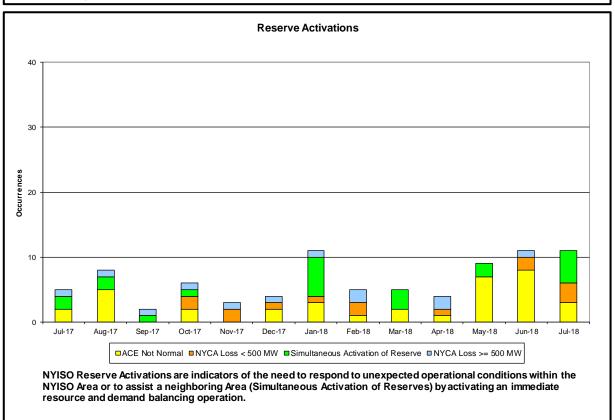




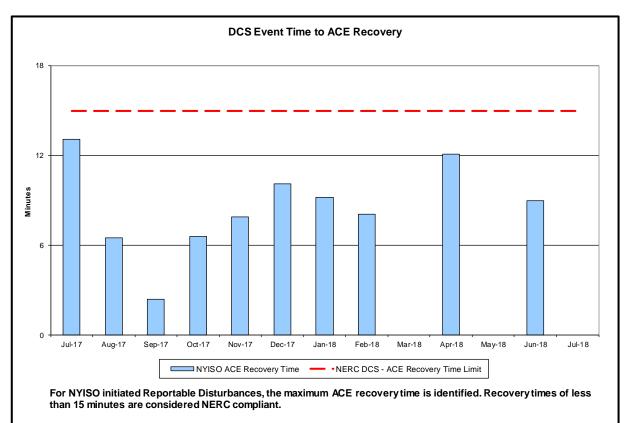


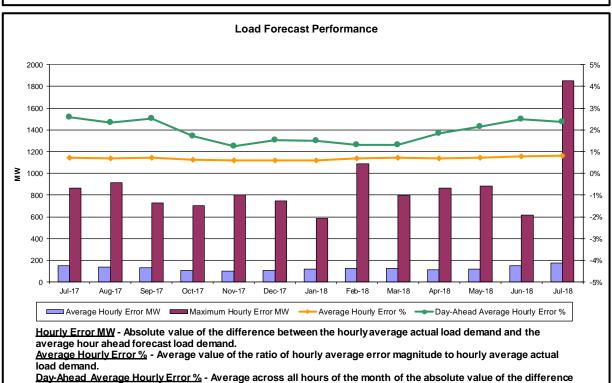






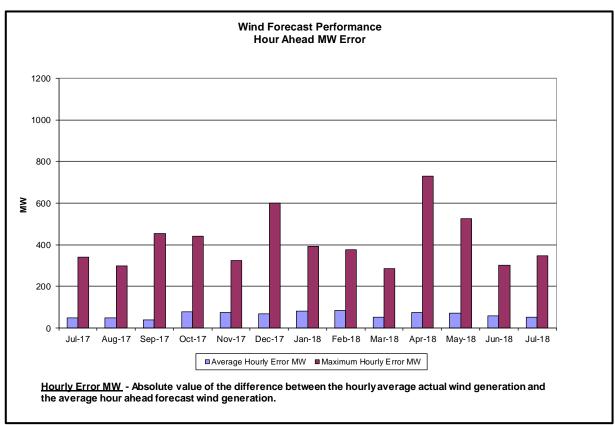


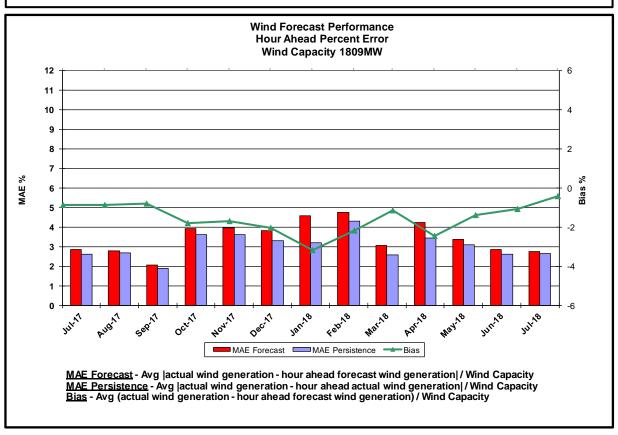




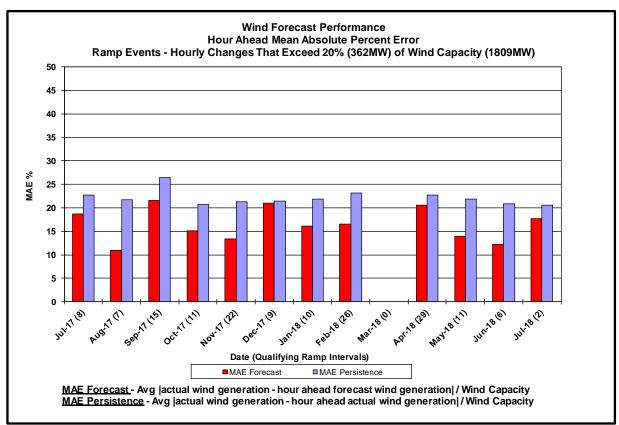
between actual load demand and the Day-Ahead forecast load demand, divided by the actual load demand.

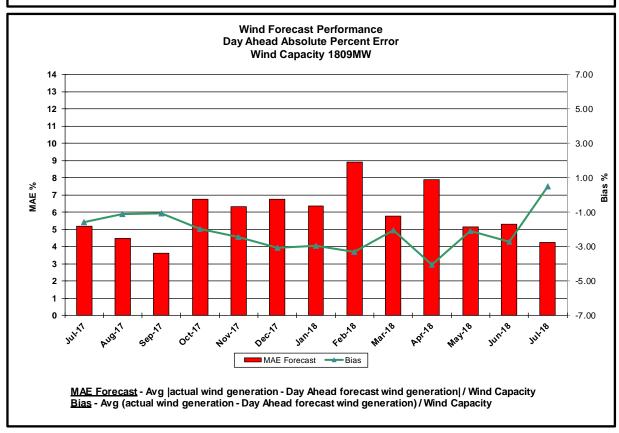




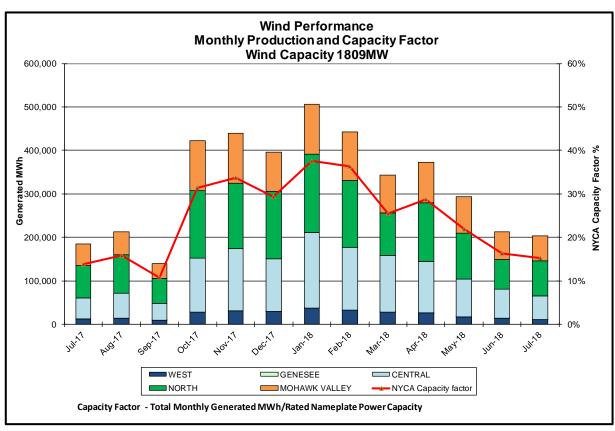


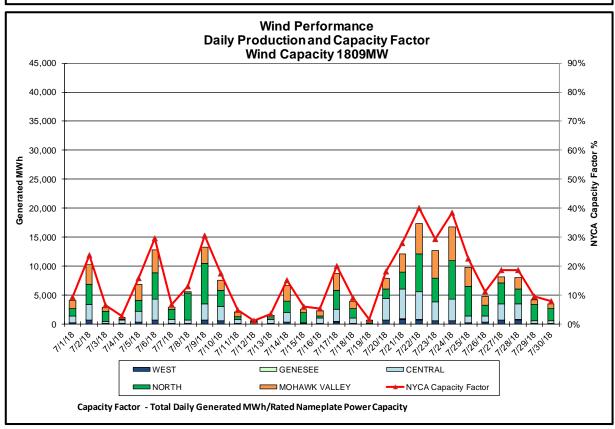




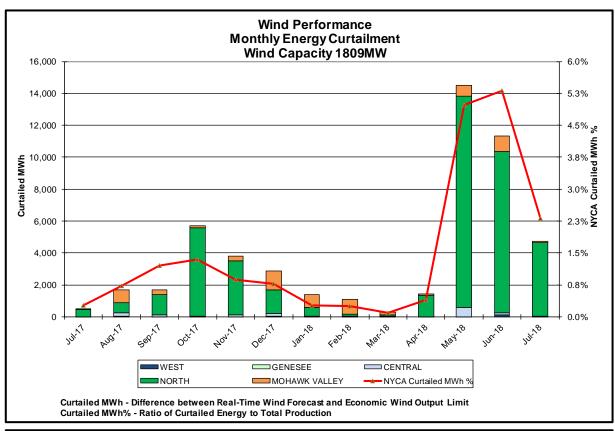


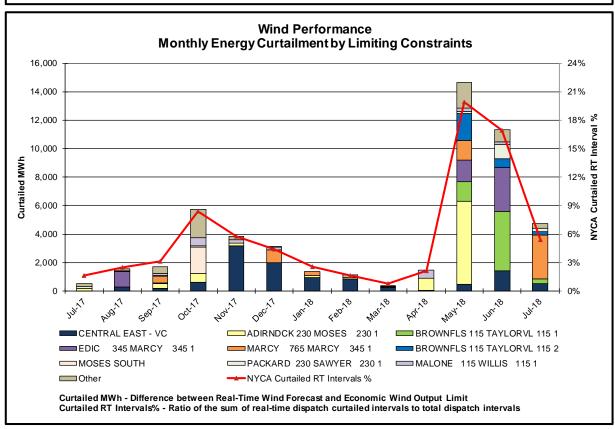




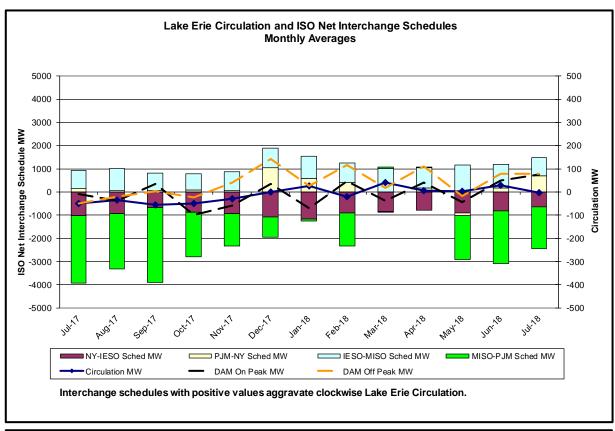


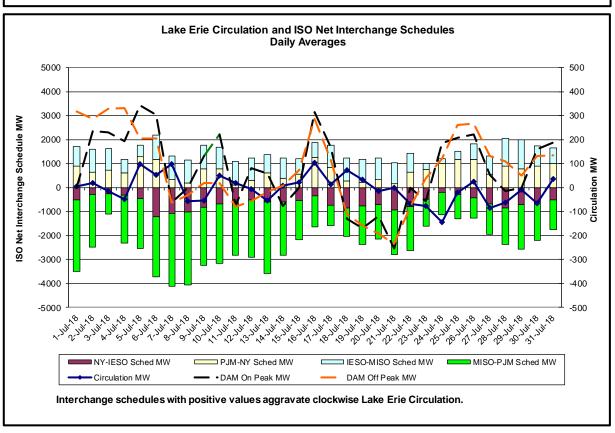






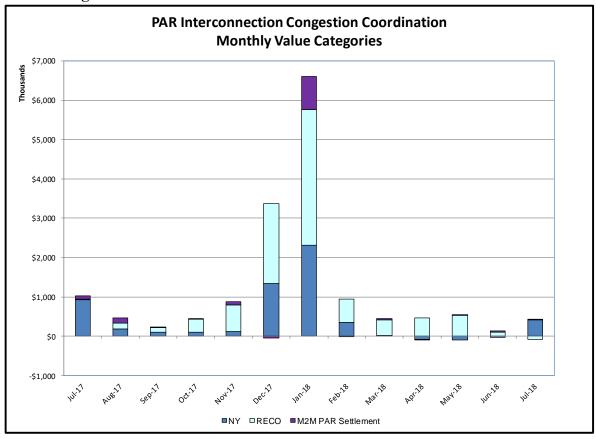


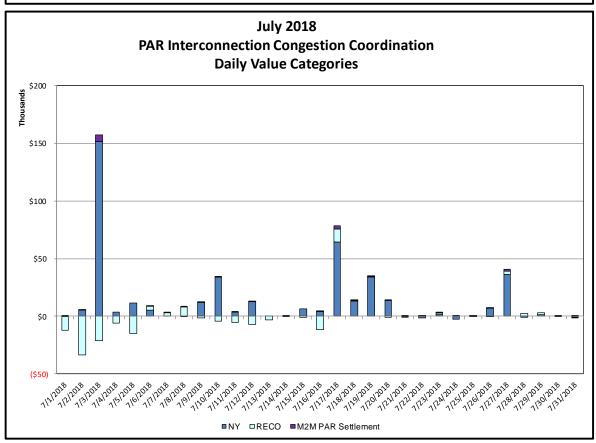






Broader Regional Market Performance Metrics







PAR Interconnection Congestion Coordination

Category **Description**

NY 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

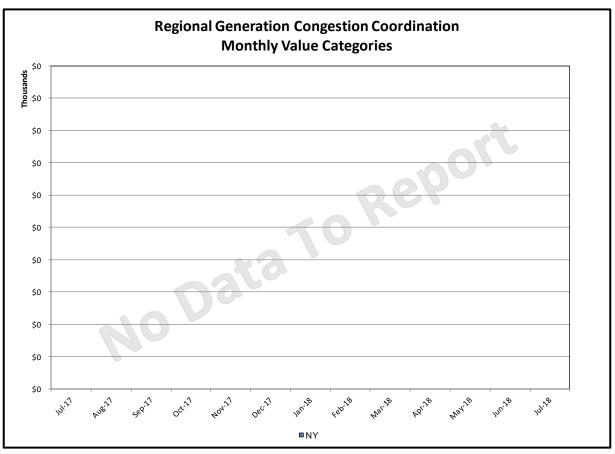
Ramapo 5018. This is the estimated reduction in NYCA congestion due to the PJM delivery of RECO over Ramapo 5018.

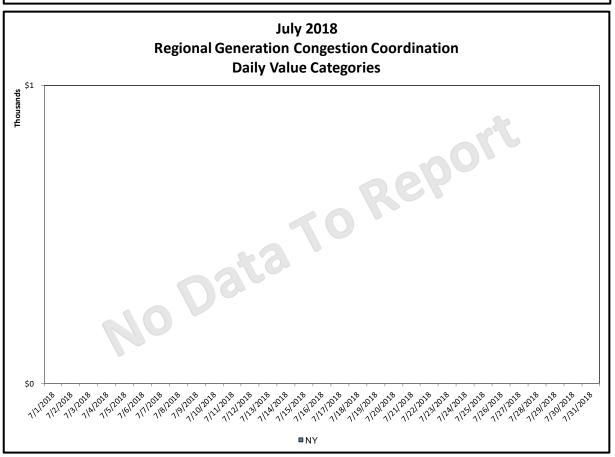
M2M PAR Settlement Market-to-Market PAR Coordination settlement on coordinated flowgates. Through April 2017

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.







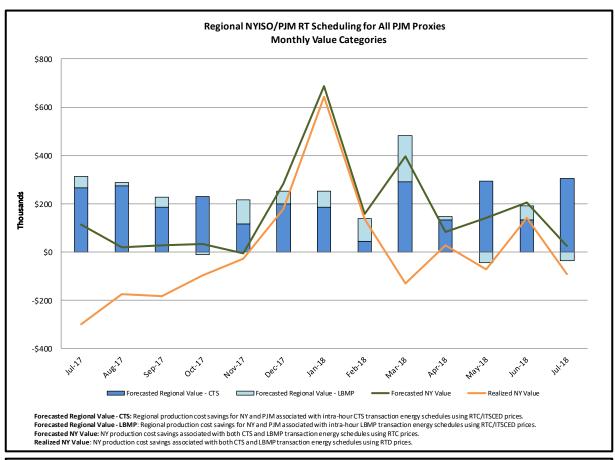


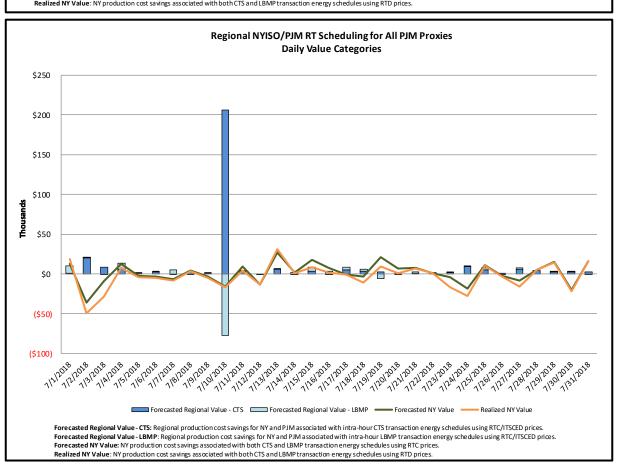
Regional Generation Congestion Coordination

<u>Category</u> NY

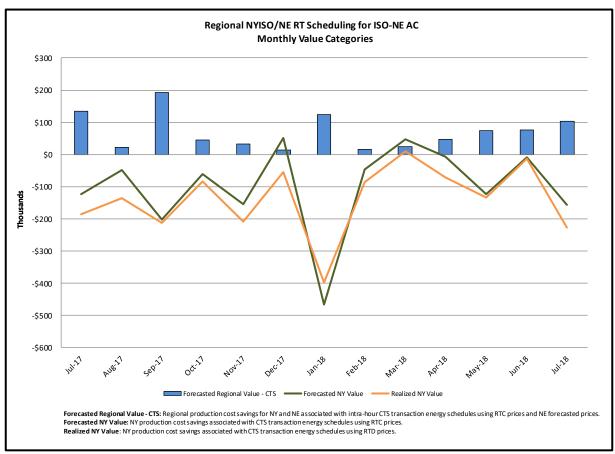
<u>Description</u>
NYISO savings that result from PJM payments to NYISO when PJM's transmission use (PJM's market flow) is greater than PJM's entitlement of the NY transmission system and NYISO is incurring Western or Central NY congestion. Additionally, NYISO savings may result from the more efficient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

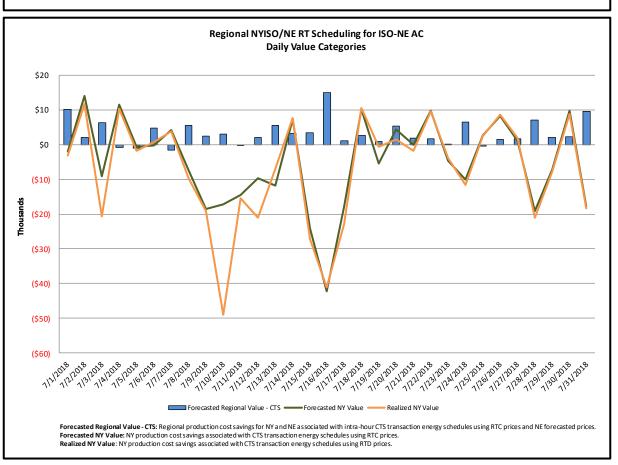






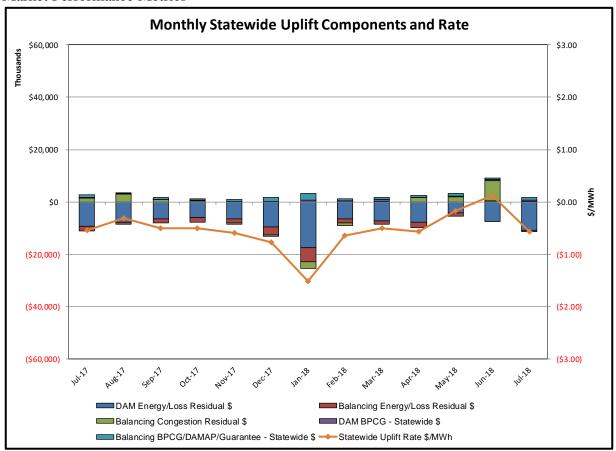




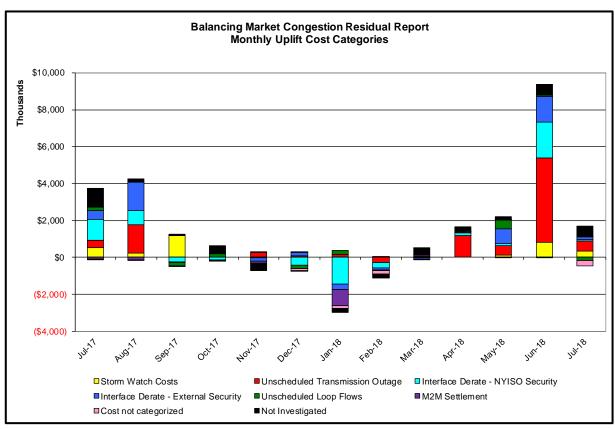


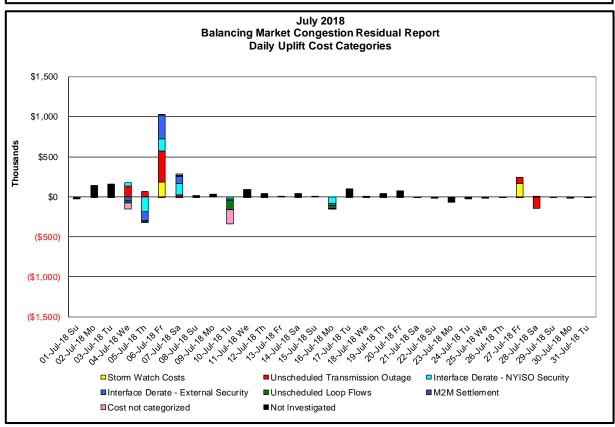


Market Performance Metrics











| | vestigated in July:4,5,6 Date (yyyymmdd) | Hours | Description |
|------|--|-----------|--|
| vent | 7/4/2018 | | Forced Outage Massena-Marcy 765kV (#MSU1), Marcy AT1&AT2 |
| | 7/4/2018 | | NYCA DNI Ramp Limit |
| | 7/4/2018 | | Derate Central East |
| | 7/4/2018 | | Derate Scriba-Volney 345kV (#20) for I/o Scriba-Volney 345kV (#21) |
| | | | |
| | 7/4/2018 | | Uprate East Garden City-Valley Stream 138kV (#262) for I/o BUS:BARRETT 292&459&G2&IC9-12 |
| | 7/4/2018 | | HQ_Cedars-NY Scheduling Limit |
| | 7/4/2018 | | NE_AC-NY Scheduling Limit |
| | 7/4/2018 | | NE-NNC1385-NY Scheduling Limit |
| | 7/4/2018 | | Lake Eric Circulation, DAM-RTM exceeds +/-125MW; Central East |
| | 7/4/2018 | | Lake Eric Circulation, DAM-RTM exceeds +/-125MW; Packard-Sawyer |
| | 7/5/2018 | | Forced Outage Massena-Marcy 765/345kV Bank (#AT2) |
| | 7/5/2018 | | Derate Dunwoodie-Shore Road 345kV (#Y50) for I/o SCB:SPBK(RNS2):Y49&M29&Y49_ST |
| | 7/5/2018 | | Uprate East Garden City-Valley Stream 138kV (#262) for I/o BUS:BARRETT 292&459&G2&IC9-12 |
| | 7/5/2018 | | Derate Scriba-Volney 345kV (#20) for I/o Scriba-Volney 345kV (#21) |
| | 7/5/2018 | | NYCA DNI Ramp Limit |
| | | | NE_AC-NY Scheduling Limit |
| | 7/5/2018 | | Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East |
| | 7/6/2018 | | Thunder Storm Alert |
| | 7/6/2018 | 0-19 | Forced Outage Massena-Marcy 765/345kV Bank (#AT2) |
| | 7/6/2018 | 3 | NYCA DNI Ramp Limit |
| | 7/6/2018 | 1-8,13,15 | Derate Central East |
| | 7/6/2018 | | HQ_Cedars-NY Scheduling Limit |
| | 7/6/2018 | | Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East |
| | 7/7/2018 | 10,11 | Forced Outage Brownsfalls-Taylorville 115kV (#3) |
| | 7/7/2018 | | Derate Central East |
| | 7/7/2018 | 0-5 | Derate Marcy 765/345kV Bank (#AT1) for I/o TWR:MOSES MA1 & MA2 |
| | 7/7/2018 | 0-3 | HQ_Cedars-NY Scheduling Limit |
| | 7/7/2018 | 21 | IESO_AC DNI Ramp Limit |
| | 7/7/2018 | 3,4 | Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East |
| | 7/10/2018 | 16 | NYCA DNI Ramp Limit |
| | 7/10/2018 | 16 | NE_AC DNI Ramp Limit |
| | 7/10/2018 | 16 | PJM_AC DNI Ramp Limit |
| | 7/10/2018 | 16,17 | Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Packard-Sawyer |
| | 7/16/2018 | 9 | NYCA DNI Ramp Limit |
| | 7/16/2018 | 8 | Uprate Dunwoodie-Motthaven 345kV (#72) |
| | 7/16/2018 | 10,11 | Uprate Packard-Sawyer 230kV (#77) for I/o BUS:PACKARD BK3 & 61 & 78 |
| | 7/16/2018 | | Uprate Packard-Sawyer 230kV (#78) for I/o Packard-Sawyer 230kV (#77) |
| | 7/16/2018 | 11,13 | Uprate Packard-Sawyer 230kV (#77) for I/o Packard-Sawyer 230kV (#78) |
| | 7/16/2018 | | Uprate Scriba-Volney 345kV (#20) for I/o Scriba-Volney 345kV (#21) |
| | 7/16/2018 | | PJM_AC-NY Scheduling Limit |
| | 7/16/2018 | | PJM AC DNI Ramp Limit |
| | 7/16/2018 | | Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Packard-Sawyer |
| | 7/16/2018 | | Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Niagara-Packard |
| | 7/27/2018 | | Thunder Storm Alert |
| | 7/27/2018 | | Forced Outage Gowanus-Goethals 345kV (#25), Linden-Goethals 345kV #(A2253) |
| | 7/28/2018 | | Forced Outage Gowanus-Goethals 345kV (#25), Linden-Goethals 345kV #(A2253) |



| | Real-Time Balancing | Market Congestion | Residual (Uplift Cos | t) Categories |
|--|---------------------|-------------------|----------------------|---------------|
|--|---------------------|-------------------|----------------------|---------------|

Category Cost Assignment Events Types **Event Examples** Storm Watch Zone J Thunderstorm Alert (TSA) **TSA Activations** Forced Line Outage, Unscheduled Transmission Outage Market-wide Reduction in DAM to RTM transfers Unit AVR Outages related to unscheduled transmission outage Reduction in DAM to RTM transfers Interface Derate - NYISO Security Market-wide Interface Derates due to not related to transmission outage RTM voltages Interface Derate - External Security Market-wide Reduction in DAM to RTM transfers TLR Events, related to External Control Area **External Transaction Security Events** Curtailments

Unscheduled Loop Flows Market-wide Changes in DAM to RTM

unscheduled loop flows impacting NYISO Interface transmission

DAM to RTM Lake Erie

125 MW

Loop Flows exceeding +/-

constraints

M2M Settlement Market-wide Settlement result inclusive of

coordinated redispatch and

Ramapo flowgates

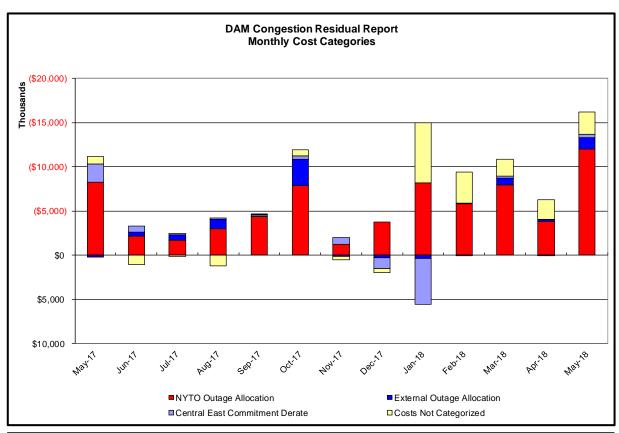
Monthly Balancing Market Congestion Report Assumptions/Notes

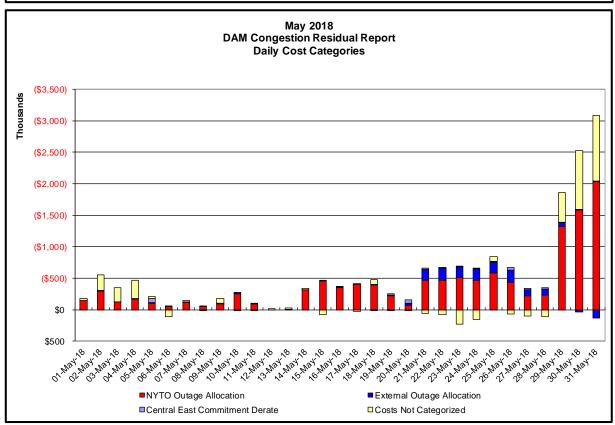
1) Storm Watch Costs are identified as daily total uplift costs

3) Up lift costs associated with multiple event types are apportioned equally by hour

²⁾ Days with a value of BMCR less M2M Settlement of \$100 K/HR, shortfall of \$200 K/Day or more, or surplus of \$100 K/Day or more are investigated.



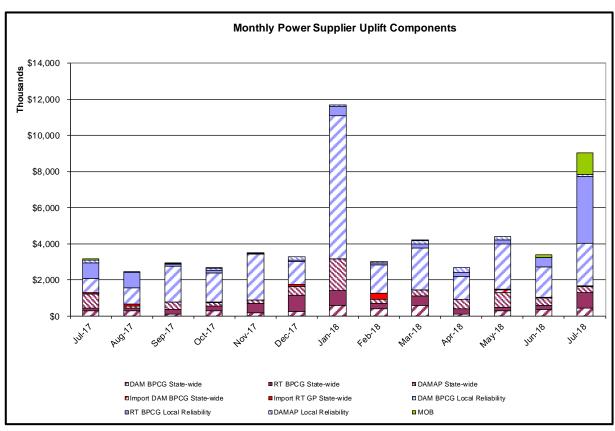


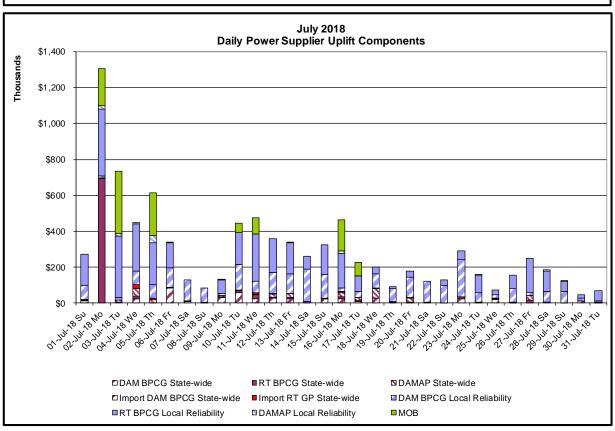




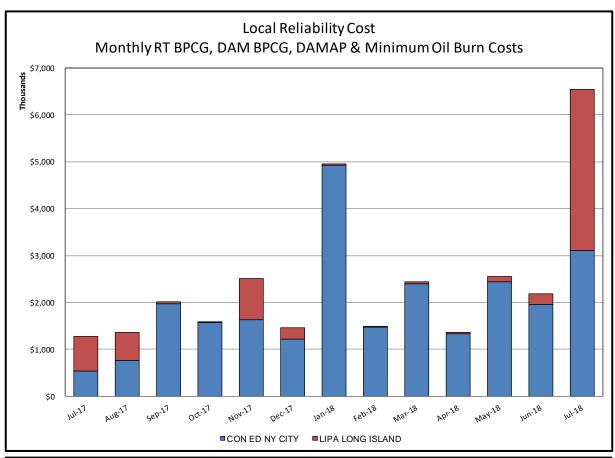
| 2 | Day-Ahead Market Co | ngestion Residual Categories | |
|---|--|--|---|
| <u>Category</u> NYTO Outage Allocation | <u>Cost Assignment</u> Responsible TO | <u>Events Types</u> Direct allocation to NYTO's responsible for transmission equipment status change. | Event Examples DAM scheduled outage for equipment modeled inservice 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 Derat | e 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. | |

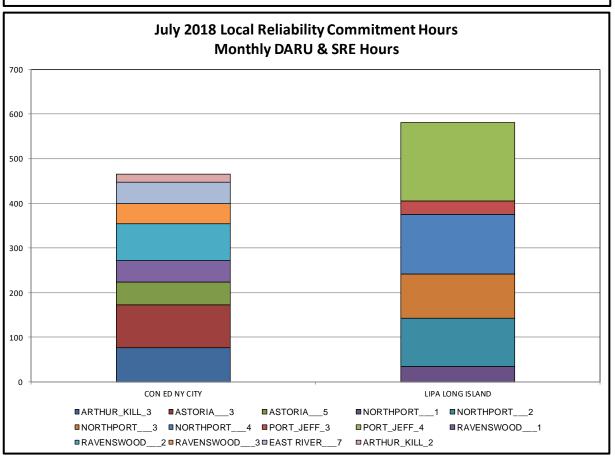




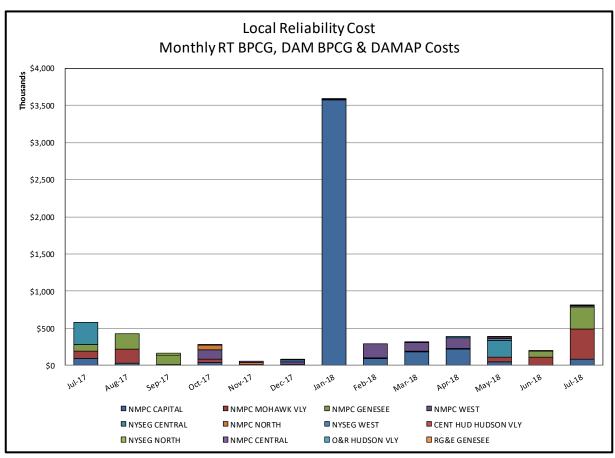


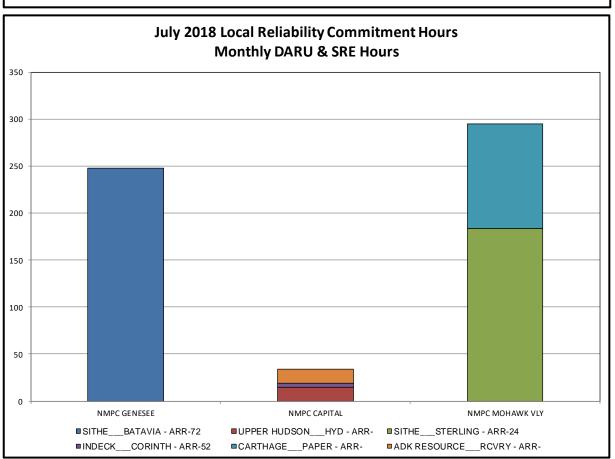




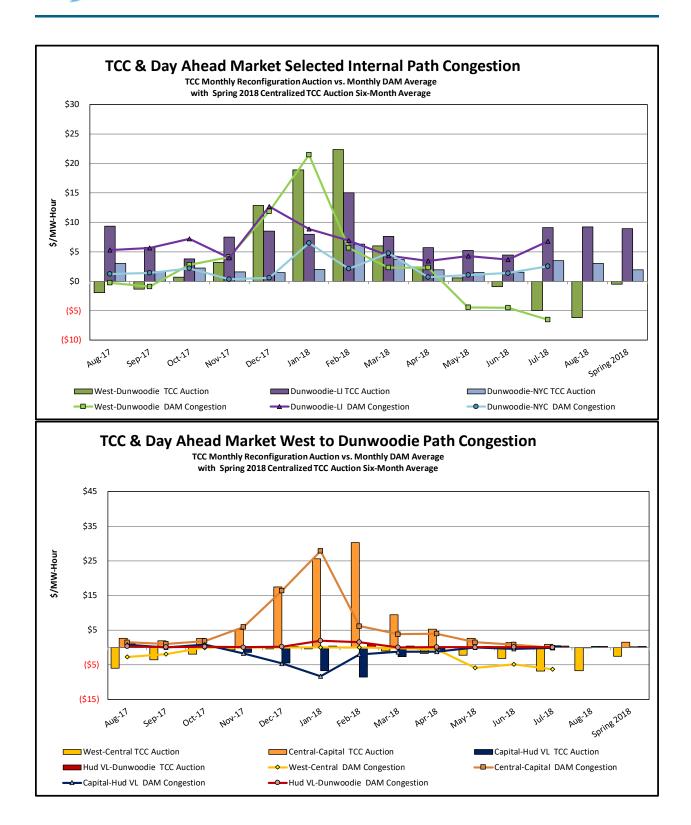




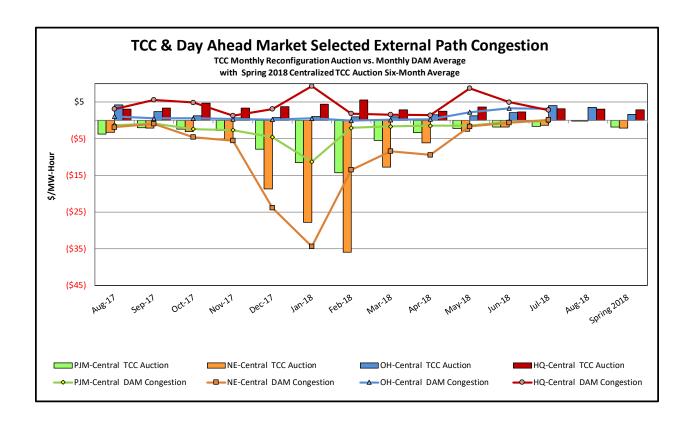




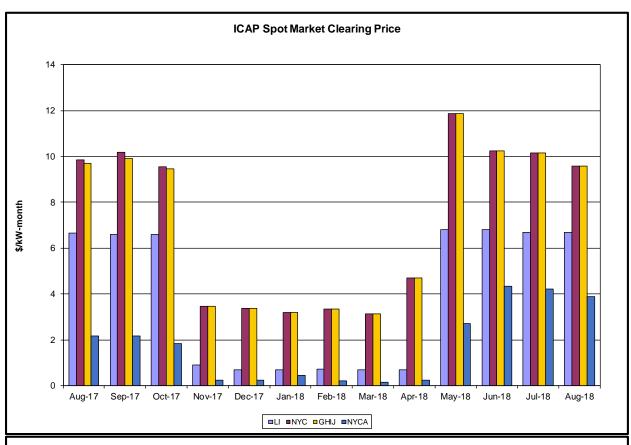


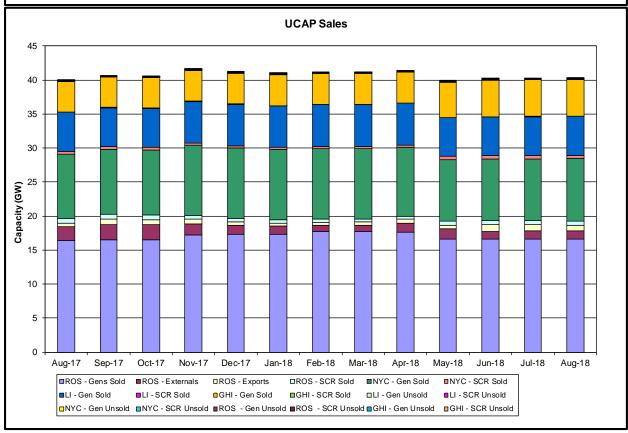








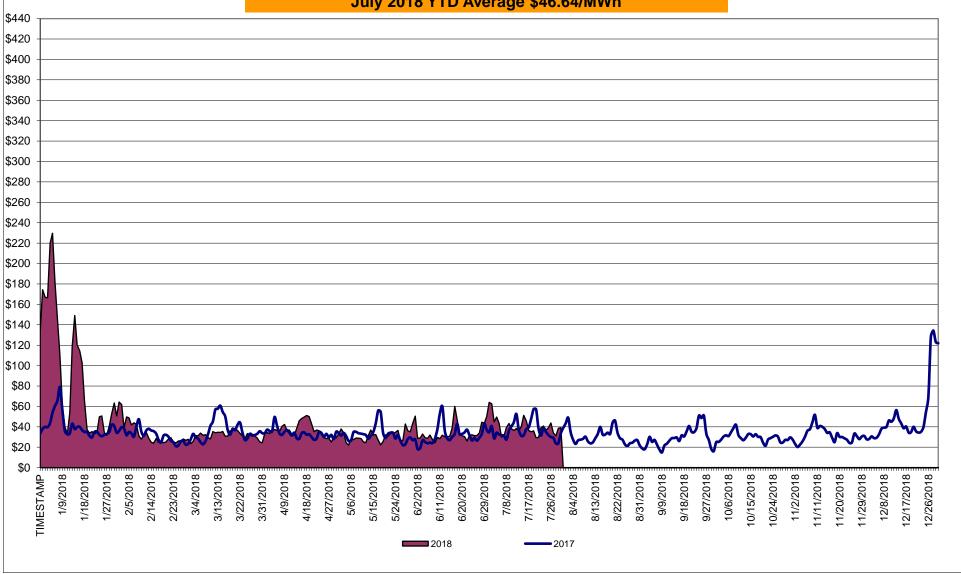




Market Performance Highlights July 2018

- LBMP for July is \$39.58/MWh; higher than \$32.53/MWh in June 2018 and \$35.84/MWh in July 2017.
 - Day Ahead and Real Time Load Weighted LBMPs are higher compared to June.
- July 2018 average year-to-date monthly cost of \$46.64/MWh is a 28% increase from \$36.35/MWh in July 2017.
- Average daily sendout is 529 GWh/day in July; higher than 445 GWh/day in June 2018 and 498 GWh/day in July 2017.
- Natural gas were higher and distillate prices were lower compared to the previous month.
 - Natural Gas (Transco Z6 NY) was \$2.87/MMBtu, up from \$2.45/MMBtu in June.
 - Natural gas prices are up 17.4% year-over-year.
 - Jet Kerosene Gulf Coast was \$15.05/MMBtu, down from \$15.47/MMBtu in June.
 - Ultra Low Sulfur No.2 Diesel NY Harbor was \$14.81/MMBtu, down from \$15.32/MMBtu in June.
 - Distillate prices are up 40.0% year-over-year.
- Uplift per MWh is lower compared to the previous month.
 - Uplift (not including NYISO cost of operations) is (\$0.13)/MWh; lower than \$0.30/MWh in June.
 - Local Reliability Share is \$0.44/MWh, higher than \$0.18/MWh in June.
 - Statewide Share is (\$0.57)/MWh, lower than \$0.12/MWh in June.
 - TSA \$ per NYC MWh is \$0.21/MWh.
 - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are lower than June.

Daily NYISO Average Cost/MWh (Energy & Ancillary Services)* 2017 Annual Average \$36.56/MWh July 2017 YTD Average \$36.61/MWh July 2018 YTD Average \$46.64/MWh

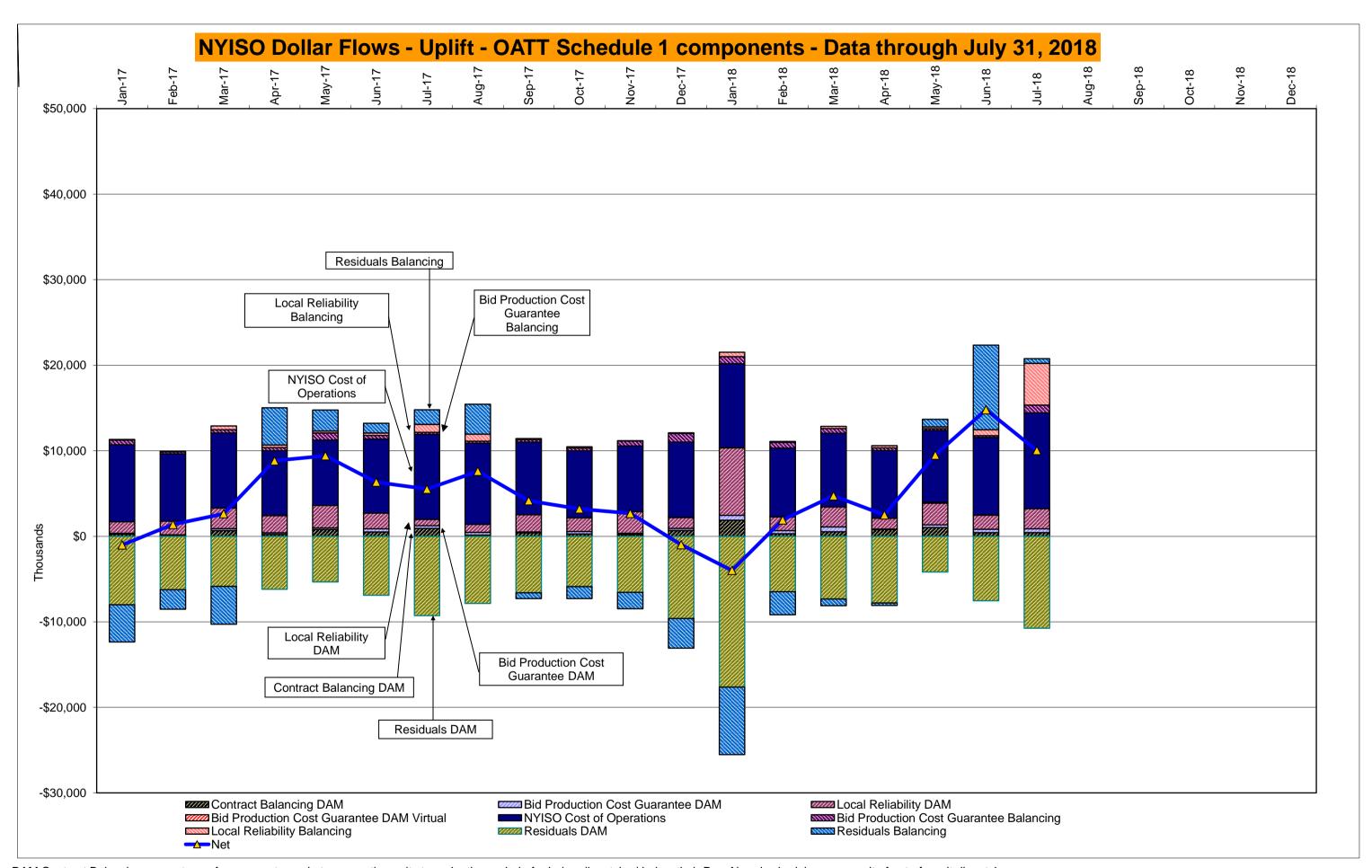


^{*} Excludes ICAP payments.

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

| 2018 | <u>January</u> | <u>February</u> | <u>March</u> | <u>April</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>August</u> | <u>September</u> | <u>October</u> | <u>November</u> | <u>December</u> |
|--|--|--|--|--|--|--|--|--|--|--|--|--|
| LBMP | 99.55 | 33.83 | 29.91 | 35.00 | 28.78 | 32.53 | 39.58 | | | | | |
| NTAC | 0.71 | 0.58 | 0.88 | 1.09 | 0.88 | 1.00 | 0.93 | | | | | |
| Reserve | 0.92 | 0.65 | 0.64 | 0.81 | 0.68 | 0.57 | 0.49 | | | | | |
| Regulation | 0.15 | 0.15 | 0.16 | 0.12 | 0.14 | 0.16 | 0.09 | | | | | |
| NYISO Cost of Operations | 0.65 | 0.65 | 0.66 | 0.65 | 0.66 | 0.67 | 0.67 | | | | | |
| FERC Fee Recovery | 0.08 | 0.10 | 0.09 | 0.10 | 0.09 | 0.09 | 0.06 | | | | | |
| Uplift | (0.92) | (0.50) | (0.31) | (0.45) | 0.05 | 0.30 | (0.13) | | | | | |
| Uplift: Local Reliability Share | 0.59 | 0.14 | 0.19 | 0.12 | 0.22 | 0.18 | 0.44 | | | | | |
| Uplift: Statewide Share | (1.52) | (0.64) | (0.51) | (0.57) | (0.17) | 0.12 | (0.57) | | | | | |
| Voltage Support and Black Start _ | 0.40 | 0.41 | 0.42 | 0.41 | 0.42 | 0.42 | 0.42 | | | | | |
| Avg Monthly Cost | 101.54 | 35.87 | 32.45 | 37.74 | 31.70 | 35.73 | 42.12 | | | | | |
| Avg YTD Cost | 101.54 | 72.85 | 60.06 | 54.82 | 50.20 | 47.70 | 46.64 | | | | | |
| TSA \$ per NYC MWh | 0.00 | 0.00 | 0.04 | 0.00 | 0.08 | 0.39 | 0.21 | | | | | |
| 2017 | January | <u>February</u> | <u>March</u> | <u>April</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>August</u> | September | <u>October</u> | <u>November</u> | <u>December</u> |
| LBMP | 40.07 | 30.95 | 34.97 | 31.06 | · · · · · · · · · · · · · · · · · · · | | 35.84 | 30.57 | 29.57 | 20.25 | 00.00 | F0.00 |
| | 10.01 | 30.93 | 34.9 <i>1</i> | 31.00 | 31.74 | 31.76 | 00.07 | 30.3 <i>1</i> | 23.31 | 28.35 | 30.60 | 52.63 |
| NTAC | 0.66 | 1.11 | 0.86 | 1.05 | 0.79 | 0.62 | 0.87 | 0.59 | 0.62 | 28.35 0.50 | 30.60 0.75 | 52.63 0.81 |
| NTAC Reserve | | | | | | | | | | | | |
| | 0.66 | 1.11 | 0.86 | 1.05 | 0.79 | 0.62 | 0.87 | 0.59 | 0.62 | 0.50 | 0.75 | 0.81 |
| Reserve | 0.66 0.70 | 1.11 0.67 | 0.86 0.74 | 1.05 0.70 | 0.79 0.61 | 0.62 0.55 | 0.87 0.48 | 0.59 0.44 | 0.62 0.47 | 0.50 0.59 | 0.75 0.55 | 0.81 0.71 |
| Reserve Regulation | 0.66 0.70 0.14 | 1.11 0.67 0.12 | 0.86 0.74 0.13 | 1.05 0.70 0.17 | 0.79 0.61 0.16 | 0.62 0.55 0.13 | 0.87 0.48 0.10 | 0.59 0.44 0.10 | 0.62 0.47 0.11 | 0.50 0.59 0.13 | 0.75 0.55 0.20 | 0.81 0.71 0.15 |
| Reserve Regulation NYISO Cost of Operations | 0.66 0.70 0.14 0.65 | 1.11 0.67 0.12 0.65 | 0.86 0.74 0.13 0.65 | 1.05 0.70 0.17 0.65 | 0.79 0.61 0.16 0.62 | 0.62 0.55 0.13 0.63 | 0.87 0.48 0.10 0.63 | 0.59 0.44 0.10 0.63 | 0.62 0.47 0.11 0.63 | 0.50 0.59 0.13 0.62 | 0.75 0.55 0.20 0.61 | 0.81 0.71 0.15 0.60 |
| Reserve Regulation NYISO Cost of Operations FERC Fee Recovery | 0.66 0.70 0.14 0.65 0.09 | 1.11 0.67 0.12 0.65 0.10 | 0.86 0.74 0.13 0.65 0.10 | 1.05 0.70 0.17 0.65 0.12 | 0.79 0.61 0.16 0.62 0.10 | 0.62 0.55 0.13 0.63 0.09 | 0.87 0.48 0.10 0.63 0.07 | 0.59 0.44 0.10 0.63 0.08 | 0.62 0.47 0.11 0.63 0.09 | 0.50 0.59 0.13 0.62 0.10 | 0.75 0.55 0.20 0.61 0.10 | 0.81 0.71 0.15 0.60 0.08 |
| Reserve Regulation NYISO Cost of Operations FERC Fee Recovery Uplift | 0.66 0.70 0.14 0.65 0.09 (0.73) | 1.11 0.67 0.12 0.65 0.10 (0.54) | 0.86 0.74 0.13 0.65 0.10 (0.46) | 1.05 0.70 0.17 0.65 0.12 0.12 | 0.79 0.61 0.16 0.62 0.10 0.10 | 0.62 0.55 0.13 0.63 0.09 (0.37) | 0.87 0.48 0.10 0.63 0.07 (0.43) | 0.59 0.44 0.10 0.63 0.08 (0.19) | 0.62 0.47 0.11 0.63 0.09 (0.34) | 0.50 0.59 0.13 0.62 0.10 (0.36) | 0.75 0.55 0.20 0.61 0.10 (0.40) | 0.81 0.71 0.15 0.60 0.08 (0.68) |
| Reserve Regulation NYISO Cost of Operations FERC Fee Recovery Uplift Uplift: Local Reliability Share | 0.66 0.70 0.14 0.65 0.09 (0.73) 0.10 | 1.11 0.67 0.12 0.65 0.10 (0.54) 0.13 | 0.86 0.74 0.13 0.65 0.10 (0.46) 0.21 | 1.05 0.70 0.17 0.65 0.12 0.12 | 0.79 0.61 0.16 0.62 0.10 0.10 | 0.62 0.55 0.13 0.63 0.09 (0.37) 0.15 | 0.87 0.48 0.10 0.63 0.07 (0.43) 0.11 | 0.59 0.44 0.10 0.63 0.08 (0.19) 0.12 | 0.62 0.47 0.11 0.63 0.09 (0.34) 0.16 | 0.50 0.59 0.13 0.62 0.10 (0.36) 0.14 | 0.75 0.55 0.20 0.61 0.10 (0.40) 0.20 | 0.81 0.71 0.15 0.60 0.08 (0.68) 0.09 |
| Reserve Regulation NYISO Cost of Operations FERC Fee Recovery Uplift Uplift: Local Reliability Share Uplift: Statewide Share | 0.66 0.70 0.14 0.65 0.09 (0.73) 0.10 (0.83) | 1.11 0.67 0.12 0.65 0.10 (0.54) 0.13 (0.67) | 0.86 0.74 0.13 0.65 0.10 (0.46) 0.21 (0.67) | 1.05 0.70 0.17 0.65 0.12 0.12 0.20 (0.08) | 0.79 0.61 0.16 0.62 0.10 0.10 0.24 (0.13) | 0.62 0.55 0.13 0.63 0.09 (0.37) 0.15 (0.52) | 0.87 0.48 0.10 0.63 0.07 (0.43) 0.11 (0.54) | 0.59 0.44 0.10 0.63 0.08 (0.19) 0.12 (0.31) | 0.62 0.47 0.11 0.63 0.09 (0.34) 0.16 (0.50) | 0.50 0.59 0.13 0.62 0.10 (0.36) 0.14 (0.50) | 0.75 0.55 0.20 0.61 0.10 (0.40) 0.20 (0.60) | 0.81 0.71 0.15 0.60 0.08 (0.68) 0.09 (0.78) |
| Reserve Regulation NYISO Cost of Operations FERC Fee Recovery Uplift Uplift: Local Reliability Share Uplift: Statewide Share Voltage Support and Black Start | 0.66 0.70 0.14 0.65 0.09 (0.73) 0.10 (0.83) 0.37 | 1.11 0.67 0.12 0.65 0.10 (0.54) 0.13 (0.67) 0.37 | 0.86 0.74 0.13 0.65 0.10 (0.46) 0.21 (0.67) 0.38 | 1.05 0.70 0.17 0.65 0.12 0.12 0.20 (0.08) 0.38 | 0.79 0.61 0.16 0.62 0.10 0.10 0.24 (0.13) 0.38 | 0.62 0.55 0.13 0.63 0.09 (0.37) 0.15 (0.52) | 0.87 0.48 0.10 0.63 0.07 (0.43) 0.11 (0.54) 0.38 | 0.59 0.44 0.10 0.63 0.08 (0.19) 0.12 (0.31) 0.38 | 0.62 0.47 0.11 0.63 0.09 (0.34) 0.16 (0.50) 0.38 | 0.50 0.59 0.13 0.62 0.10 (0.36) 0.14 (0.50) 0.38 | 0.75 0.55 0.20 0.61 0.10 (0.40) 0.20 (0.60) 0.37 | 0.81 0.71 0.15 0.60 0.08 (0.68) 0.09 (0.78) 0.37 |

^{*} Excludes ICAP payments. Market Mitigation and Analysis Prepared: 8/7/2018 4:09 PM



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

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

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

NYISO Markets Transactions

| 2010 | lonuony | Eobruor. | Marah | April | Mov | lung | lukz | August | Contombor | Octobor | November | Docombor |
|--|--|--|---|--|--|--|--|---|---|---|--|---|
| 2018 | <u>January</u> | <u>February</u> | March | <u>April</u> | <u>May</u> | June 40,000,004 | July | <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 | | | | | |
| DAM LSE Internal LBMP Energy Sales | 59% | 57% | 58% | 60% | 61% | 61% | 65% | | | | | |
| DAM External TC LBMP Energy Sales | 4% | 3% | 2% | 2% | 2% | 1% | 1% | | | | | |
| DAM Bilateral - Internal Bilaterals | 29% | 31% | 32% | 30% | 29% | 30% | 26% | | | | | |
| DAM Bilateral - Importl/Non-LBMP Market Bilaterals | 5% | 5% | 5% | 5% | 5% | 5% | 4% | | | | | |
| DAM Bilateral - Export/Non-LBMP Market Bilaterals | 2% | 2% | 2% | 2% | 2% | 1% | 1% | | | | | |
| DAM Bilateral - Wheel Through Bilaterals | 1% | 2% | 2% | 2% | 2% | 2% | 2% | | | | | |
| Balancing Energy Market MWh | -149,619 | -299,377 | -386,811 | -72,862 | -29,539 | -354,112 | -80,438 | | | | | |
| Balancing Energy LSE Internal LBMP Energy Sales | -147% | -101% | -128% | -208% | -458% | -113% | -123% | | | | | |
| Balancing Energy External TC LBMP Energy Sales | 74% | 24% | 37% | 189% | 564% | 29% | 129% | | | | | |
| Balancing Energy Bilateral - Internal Bilaterals | 9% | 5% | 0% | -11% | 29% | 5% | 18% | | | | | |
| Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals | 0% | 0% | 0% | 0% | 0% | 0% | 0% | | | | | |
| Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals | 22% | 9% | 6% | 34% | 51% | 3% | 14% | | | | | |
| Balancing Energy Bilateral - Wheel Through Bilaterals | -58% | -36% | -15% | -103% | -287% | -23% | -138% | | | | | |
| Transactions Summary | | | | | | | | | | | | |
| LBMP | 63% | 59% | 59% | 62% | 63% | 61% | 66% | | | | | |
| Internal Bilaterals | 30% | 32% | 33% | 30% | 29% | 31% | 27% | | | | | |
| Import Bilaterals | 5% | 5% | 6% | 5% | 5% | 5% | 4% | | | | | |
| Export Bilaterals | 2% | 2% | 2% | 2% | 2% | 1% | 1% | | | | | |
| Wheels Through | 1% | 1% | 1% | 1% | 1% | 2% | 1% | | | | | |
| Market Share of Total Load | | | | | | | | | | | | |
| Day Ahead Market | 101.0% | 102.4% | 102.9% | 100.6% | 100.2% | 102.6% | 100.5% | | | | | |
| Balancing Energy + | -1.0% | -2.4% | -2.9% | -0.6% | -0.2% | -2.6% | -0.5% | | | | | |
| Total MWH | 15,004,132 | 12,344,477 | 13,134,575 | 12,085,824 | 12,691,534 | 13,629,272 | 16,759,556 | | | | | |
| Average Daily Energy Sendout/Month GWh | 463 | 426 | 413 | 390 | 397 | 445 | 529 | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 2017 | lonuoni | Cobruory | Marah | انع ۸ | Mov | lung | lide | August | Contombor | Ootobor | November | Docombor |
| <u>2017</u> | <u>January</u> | <u>February</u> | March | <u>April</u> | <u>May</u> | <u>June</u> | <u>July</u> | August | September | October | November | <u>December</u> |
| Day Ahead Market MWh | 14,135,019 | 12,565,206 | 13,983,865 | 12,061,475 | 12,966,981 | 14,406,180 | 16,505,801 | 15,948,927 | 14,100,695 | 13,252,368 | 13,042,826 | 14,829,403 |
| DAM LSE Internal LBMP Energy Sales | 14,135,019 57% | 12,565,206 57% | 13,983,865 55% | 12,061,475 54% | 12,966,981 58% | 14,406,180 60% | 16,505,801 62% | 15,948,927 61% | 14,100,695 57% | 13,252,368 55% | 13,042,826 53% | 14,829,403 55% |
| Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales | 14,135,019 57% 2% | 12,565,206 57% 2% | 13,983,865 55% 1% | 12,061,475 54% 1% | 12,966,981 58% 1% | 14,406,180 60% 1% | 16,505,801 62% 1% | 15,948,927 61% 1% | 14,100,695 57% 1% | 13,252,368 55% 2% | 13,042,826 53% 3% | 14,829,403 55% 5% |
| Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals | 14,135,019 57% 2% 32% | 12,565,206 57% 2% 32% | 13,983,865 55% 1% 34% | 12,061,475 54% 1% 35% | 12,966,981 58% 1% 33% | 14,406,180 60% 1% 31% | 16,505,801 62% 1% 29% | 15,948,927 61% 1% 29% | 14,100,695 57% 1% 32% | 13,252,368 55% 2% 34% | 13,042,826 53% 3% 34% | 14,829,403 55% 5% 32% |
| Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals | 14,135,019 57% 2% 32% 5% | 12,565,206 57% 2% 32% 5% | 13,983,865 55% 1% 34% 5% | 12,061,475 54% 1% 35% 6% | 12,966,981 58% 1% 33% 4% | 14,406,180 60% 1% 31% 5% | 16,505,801 62% 1% 29% 4% | 15,948,927 61% 1% 29% 5% | 14,100,695 57% 1% 32% 5% | 13,252,368 55% 2% 34% 5% | 13,042,826 53% 3% 34% 5% | 14,829,403 55% 5% 32% 5% |
| Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals | 14,135,019 57% 2% 32% 5% 2% | 12,565,206 57% 2% 32% 5% 2% | 13,983,865 55% 1% 34% 5% 2% | 12,061,475 54% 1% 35% 6% 2% | 12,966,981 58% 1% 33% 4% 2% | 14,406,180 60% 1% 31% 5% 2% | 16,505,801 62% 1% 29% 4% 1% | 15,948,927 61% 1% 29% 5% 2% | 14,100,695 57% 1% 32% 5% 2% | 13,252,368 55% 2% 34% 5% 2% | 13,042,826 53% 3% 34% 5% 2% | 14,829,403 55% 5% 32% 5% 2% |
| Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals | 14,135,019 57% 2% 32% 5% | 12,565,206 57% 2% 32% 5% 2% 2% | 13,983,865 55% 1% 34% 5% | 12,061,475 54% 1% 35% 6% | 12,966,981 58% 1% 33% 4% | 14,406,180 60% 1% 31% 5% | 16,505,801 62% 1% 29% 4% | 15,948,927 61% 1% 29% 5% | 14,100,695 57% 1% 32% 5% | 13,252,368 55% 2% 34% 5% | 13,042,826 53% 3% 34% 5% | 14,829,403 55% 5% 32% 5% |
| Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals | 14,135,019 57% 2% 32% 5% 2% | 12,565,206 57% 2% 32% 5% 2% | 13,983,865 55% 1% 34% 5% 2% | 12,061,475 54% 1% 35% 6% 2% | 12,966,981 58% 1% 33% 4% 2% | 14,406,180 60% 1% 31% 5% 2% | 16,505,801 62% 1% 29% 4% 1% | 15,948,927 61% 1% 29% 5% 2% | 14,100,695 57% 1% 32% 5% 2% | 13,252,368 55% 2% 34% 5% 2% | 13,042,826 53% 3% 34% 5% 2% | 14,829,403 55% 5% 32% 5% 2% |
| Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals | 14,135,019 57% 2% 32% 5% 2% 2% | 12,565,206 57% 2% 32% 5% 2% 2% | 13,983,865 55% 1% 34% 5% 2% 2% | 12,061,475 54% 1% 35% 6% 2% 2% | 12,966,981 58% 1% 33% 4% 2% 2% | 14,406,180 60% 1% 31% 5% 2% 2% | 16,505,801 62% 1% 29% 4% 1% 3% | 15,948,927 61% 1% 29% 5% 2% 3% | 14,100,695 57% 1% 32% 5% 2% 4% | 13,252,368 55% 2% 34% 5% 2% 2% | 13,042,826 53% 3% 34% 5% 2% 3% | 14,829,403 55% 5% 32% 5% 2% 2% |
| Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals Balancing Energy Market MWh | 14,135,019 57% 2% 32% 5% 2% 2% -256,448 | 12,565,206 57% 2% 32% 5% 2% 2% -407,284 | 13,983,865 55% 1% 34% 5% 2% 2% -509,053 | 12,061,475 54% 1% 35% 6% 2% 2% -466,426 | 12,966,981 58% 1% 33% 4% 2% 2% -666,048 | 14,406,180 60% 1% 31% 5% 2% 2% -564,312 | 16,505,801 62% 1% 29% 4% 1% 3% | 15,948,927 61% 1% 29% 5% 2% 3% -853,898 | 14,100,695 57% 1% 32% 5% 2% 4% -633,990 | 13,252,368 55% 2% 34% 5% 2% 2% -510,721 | 13,042,826 53% 3% 34% 5% 2% 3% -410,072 | 14,829,403 55% 55% 32% 5% 2% 2% -254,003 |
| Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals Balancing Energy Market MWh Balancing Energy LSE Internal LBMP Energy Sales | 14,135,019 57% 2% 32% 5% 2% 2% -256,448 -157% | 12,565,206 57% 2% 32% 5% 2% 2% -407,284 -132% | 13,983,865 55% 1% 34% 5% 2% 2% -509,053 -148% | 12,061,475 54% 1% 35% 6% 2% 2% -466,426 -115% | 12,966,981 58% 1% 33% 4% 2% 2% -666,048 -120% | 14,406,180 60% 1% 31% 5% 2% 2% -564,312 -114% | 16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100% | 15,948,927 61% 1% 29% 5% 2% 3% -853,898 -87% | 14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76% | 13,252,368 55% 2% 34% 5% 2% 2% -510,721 -102% | 13,042,826 53% 3% 34% 5% 2% 3% -410,072 -108% | 14,829,403 55% 5% 32% 5% 2% 2% -254,003 -99% |
| Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals Balancing Energy Market MWh Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales | 14,135,019 57% 2% 32% 5% 2% 2% -256,448 -157% 64% | 12,565,206 57% 2% 32% 5% 2% 2% -407,284 -132% 39% | 13,983,865 55% 1% 34% 5% 2% 2% -509,053 -148% 44% | 12,061,475 54% 1% 35% 6% 2% 2% -466,426 -115% 22% | 12,966,981 58% 1% 33% 4% 2% 2% -666,048 -120% 28% | 14,406,180 60% 1% 31% 5% 2% 2% -564,312 -114% 23% | 16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100% 18% | 15,948,927 61% 1% 29% 5% 2% 3% -853,898 -87% 13% | 14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76% 12% | 13,252,368 55% 2% 34% 5% 2% 2% -510,721 -102% 26% | 13,042,826 53% 3% 34% 5% 2% 3% -410,072 -108% 45% | 14,829,403 55% 55% 32% 5% 2% 2% -254,003 -99% 25% |
| Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals Balancing Energy Market MWh Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals | 14,135,019 57% 2% 32% 5% 2% 2% -256,448 -157% 64% 15% | 12,565,206 57% 2% 32% 5% 2% 2% -407,284 -132% 39% 8% | 13,983,865 55% 1% 34% 5% 2% 2% -509,053 -148% 44% 12% | 12,061,475 54% 1% 35% 6% 2% 2% -466,426 -115% 22% 5% | 12,966,981 58% 1% 33% 4% 2% 2% -666,048 -120% 28% 1% | 14,406,180 60% 1% 31% 5% 2% 2% -564,312 -114% 23% 4% | 16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100% 18% 3% | 15,948,927 61% 1% 29% 5% 2% 3% -853,898 -87% 13% 2% | 14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76% 12% 3% | 13,252,368 55% 2% 34% 5% 2% 2% -510,721 -102% 26% 5% | 13,042,826 53% 3% 34% 5% 2% 3% -410,072 -108% 45% 5% | 14,829,403 55% 55% 32% 5% 2% 2% -254,003 -99% 25% -1% |
| Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals Balancing Energy Market MWh Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals | 14,135,019 57% 2% 32% 5% 2% 2% -256,448 -157% 64% 15% 0% | 12,565,206 57% 2% 32% 5% 2% 2% 2% -407,284 -132% 39% 8% 4% | 13,983,865 55% 1% 34% 5% 2% 2% -509,053 -148% 44% 12% 0% | 12,061,475 54% 1% 35% 6% 2% 2% -466,426 -115% 22% 5% 0% | 12,966,981 58% 1% 33% 4% 2% 2% -666,048 -120% 28% 1% 0% | 14,406,180 60% 1% 31% 5% 2% 2% -564,312 -114% 23% 4% 0% | 16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100% 18% 3% 0% | 15,948,927 61% 1% 29% 5% 2% 3% -853,898 -87% 13% 2% 0% | 14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76% 12% 3% 0% | 13,252,368 55% 2% 34% 5% 2% 2% -510,721 -102% 26% 5% 0% | 13,042,826 53% 3% 34% 5% 2% 3% -410,072 -108% 45% 5% 0% | 14,829,403 55% 55% 32% 5% 2% 2% -254,003 -99% 25% -1% 0% |
| Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals Balancing Energy Market MWh Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals | 14,135,019 57% 2% 32% 5% 2% 2% -256,448 -157% 64% 15% 0% 10% | 12,565,206 57% 2% 32% 5% 2% 2% -407,284 -132% 39% 8% 4% 7% | 13,983,865 55% 1% 34% 5% 2% 2% -509,053 -148% 44% 12% 0% 5% | 12,061,475 54% 1% 35% 6% 2% 2% -466,426 -115% 22% 5% 0% 4% | 12,966,981 58% 1% 33% 4% 2% 2% -666,048 -120% 28% 1% 0% 3% | 14,406,180 60% 1% 31% 5% 2% 2% -564,312 -114% 23% 4% 0% 3% | 16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100% 18% 3% 0% 1% | 15,948,927 61% 1% 29% 5% 2% 3% -853,898 -87% 13% 2% 0% 1% | 14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76% 12% 3% 0% 1% | 13,252,368 55% 2% 34% 5% 2% 2% -510,721 -102% 26% 5% 0% 4% | 13,042,826 53% 3% 34% 5% 2% 3% -410,072 -108% 45% 5% 0% 7% | 14,829,403 55% 55% 32% 5% 2% 2% -254,003 -99% 25% -1% 0% 9% |
| Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals Balancing Energy Market MWh Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals | 14,135,019 57% 2% 32% 5% 2% 2% -256,448 -157% 64% 15% 0% 10% | 12,565,206 57% 2% 32% 5% 2% 2% -407,284 -132% 39% 8% 4% 7% | 13,983,865 55% 1% 34% 5% 2% 2% -509,053 -148% 44% 12% 0% 5% | 12,061,475 54% 1% 35% 6% 2% 2% -466,426 -115% 22% 5% 0% 4% | 12,966,981 58% 1% 33% 4% 2% 2% -666,048 -120% 28% 1% 0% 3% | 14,406,180 60% 1% 31% 5% 2% 2% -564,312 -114% 23% 4% 0% 3% | 16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100% 18% 3% 0% 1% | 15,948,927 61% 1% 29% 5% 2% 3% -853,898 -87% 13% 2% 0% 1% | 14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76% 12% 3% 0% 1% | 13,252,368 55% 2% 34% 5% 2% 2% -510,721 -102% 26% 5% 0% 4% | 13,042,826 53% 3% 34% 5% 2% 3% -410,072 -108% 45% 5% 0% 7% | 14,829,403 55% 55% 32% 5% 2% 2% -254,003 -99% 25% -1% 0% 9% |
| Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals DAM Bilateral - Wheel Through Bilaterals Balancing Energy Market MWh Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals Transactions Summary | 14,135,019 57% 2% 32% 5% 2% 2% -256,448 -157% 64% 15% 0% 10% -32% | 12,565,206 57% 2% 32% 5% 2% 2% -407,284 -132% 39% 8% 4% 7% -26% | 13,983,865 55% 1% 34% 5% 2% 2% -509,053 -148% 44% 12% 0% 5% -13% | 12,061,475 54% 1% 35% 6% 2% 2% -466,426 -115% 22% 5% 0% 4% -15% | 12,966,981 58% 1% 33% 4% 2% 2% -666,048 -120% 28% 1% 0% 3% -12% | 14,406,180 60% 1% 31% 5% 2% 2% -564,312 -114% 23% 4% 0% 3% -16% | 16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100% 18% 3% 0% 1% -22% | 15,948,927 61% 1% 29% 5% 2% 3% -853,898 -87% 13% 2% 0% 1% -29% | 14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76% 12% 3% 0% 1% -40% | 13,252,368 55% 2% 34% 5% 2% 2% -510,721 -102% 26% 5% 0% 4% -33% | 13,042,826 53% 3% 34% 5% 2% 3% -410,072 -108% 45% 5% 0% 7% -49% | 14,829,403 55% 55% 32% 5% 2% 2% -254,003 -99% 25% -1% 0% 9% -34% |
| Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals Balancing Energy Market MWh Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals Transactions Summary LBMP | 14,135,019 57% 2% 32% 5% 2% 2% -256,448 -157% 64% 15% 0% 10% -32% | 12,565,206 57% 2% 32% 5% 2% 2% -407,284 -132% 39% 8% 4% 7% -26% | 13,983,865 55% 1% 34% 5% 2% 2% -509,053 -148% 44% 12% 0% 5% -13% | 12,061,475 54% 1% 35% 6% 2% 2% -466,426 -115% 22% 5% 0% 4% -15% | 12,966,981 58% 1% 33% 4% 2% 2% -666,048 -120% 28% 1% 0% 3% -12% 58% | 14,406,180 60% 1% 31% 5% 2% 2% -564,312 -114% 23% 4% 0% 3% -16% | 16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100% 18% 3% 0% 1% -22% | 15,948,927 61% 1% 29% 5% 2% 3% -853,898 -87% 13% 2% 0% 1% -29% | 14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76% 12% 3% 0% 1% -40% | 13,252,368 55% 2% 34% 5% 2% 2% -510,721 -102% 26% 5% 0% 4% -33% | 13,042,826 53% 3% 34% 5% 2% 3% -410,072 -108% 45% 5% 0% 7% -49% | 14,829,403 55% 5% 32% 5% 2% 2% -254,003 -99% 25% -1% 0% 9% -34% |
| Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals Balancing Energy Market MWh Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals Transactions Summary LBMP Internal Bilaterals Import Bilaterals | 14,135,019 57% 2% 32% 5% 2% 2% -256,448 -157% 64% 15% 0% 10% -32% | 12,565,206 57% 2% 32% 5% 2% 2% -407,284 -132% 39% 8% 4% 7% -26% 57% 34% | 13,983,865 55% 1% 34% 5% 2% 2% -509,053 -148% 44% 12% 0% 5% -13% | 12,061,475 54% 1% 35% 6% 2% 2% -466,426 -115% 22% 5% 0% 4% -15% | 12,966,981 58% 1% 33% 4% 2% 2% -666,048 -120% 28% 1% 0% 3% -12% 58% 34% | 14,406,180 60% 1% 31% 5% 2% 2% -564,312 -114% 23% 4% 0% 3% -16% | 16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100% 18% 3% 0% 1% -22% | 15,948,927 61% 1% 29% 5% 2% 3% -853,898 -87% 13% 2% 0% 1% -29% | 14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76% 12% 3% 0% 1% -40% | 13,252,368 55% 2% 34% 5% 2% 2% -510,721 -102% 26% 5% 0% 4% -33% 56% 36% | 13,042,826 53% 3% 34% 5% 2% 3% -410,072 -108% 45% 5% 0% 7% -49% | 14,829,403 55% 5% 32% 5% 2% 2% -254,003 -99% 25% -1% 0% 9% -34% 60% 32% |
| Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals Balancing Energy Market MWh Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals Transactions Summary LBMP Internal Bilaterals | 14,135,019 57% 2% 32% 5% 2% 2% -256,448 -157% 64% 15% 0% 10% -32% 58% 33% 5% | 12,565,206 57% 2% 32% 5% 2% 2% -407,284 -132% 39% 8% 4% 7% -26% 57% 34% 5% | 13,983,865 55% 1% 34% 5% 2% 2% -509,053 -148% 44% 12% 0% 5% -13% 55% 36% 5% | 12,061,475 54% 1% 35% 6% 2% 2% -466,426 -115% 22% 5% 0% 4% -15% 54% 37% 6% | 12,966,981 58% 1% 33% 4% 2% 2% -666,048 -120% 28% 1% 0% 3% -12% 58% 34% 4% | 14,406,180 60% 1% 31% 5% 2% 2% -564,312 -114% 23% 4% 0% 3% -16% 60% 32% 5% | 16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100% 18% 3% 0% 1% -22% 62% 30% 5% | 15,948,927 61% 1% 29% 5% 2% 3% -853,898 -87% 13% 2% 0% 1% -29% 61% 31% 5% | 14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76% 12% 3% 0% 1% -40% 58% 33% 5% | 13,252,368 55% 2% 34% 5% 2% 2% -510,721 -102% 26% 5% 0% 4% -33% 56% 36% 5% | 13,042,826 53% 3% 34% 5% 2% 3% -410,072 -108% 45% 5% 0% 7% -49% | 14,829,403 55% 5% 32% 5% 2% 2% -254,003 -99% 25% -1% 0% 9% -34% 60% 32% 5% |
| Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals Balancing Energy Market MWh Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals Transactions Summary LBMP Internal Bilaterals Import Bilaterals Export Bilaterals | 14,135,019 57% 2% 32% 5% 2% 2% -256,448 -157% 64% 15% 0% 10% -32% 58% 33% 5% 2% | 12,565,206 57% 2% 32% 5% 2% 2% -407,284 -132% 39% 8% 4% 7% -26% 57% 34% 5% 2% | 13,983,865 55% 1% 34% 5% 2% 2% -509,053 -148% 44% 12% 0% 5% -13% 55% 36% 5% 2% | 12,061,475 54% 1% 35% 6% 2% 2% -466,426 -115% 22% 5% 0% 4% -15% 54% 37% 6% 2% | 12,966,981 58% 1% 33% 4% 2% 2% -666,048 -120% 28% 1% 0% 3% -12% 58% 34% 4% 2% | 14,406,180 60% 1% 31% 5% 2% 2% -564,312 -114% 23% 4% 0% 3% -16% 60% 32% 5% 2% | 16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100% 18% 3% 0% 1% -22% 62% 30% 5% 2% | 15,948,927 61% 1% 29% 5% 2% 3% -853,898 -87% 13% 2% 0% 1% -29% 61% 31% 5% 2% | 14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76% 12% 3% 0% 1% -40% 58% 33% 5% 2% | 13,252,368 55% 2% 34% 5% 2% 2% -510,721 -102% 26% 5% 0% 4% -33% 56% 36% 5% 2% | 13,042,826 53% 3% 34% 5% 2% 3% -410,072 -108% 45% 5% 0% 7% -49% 56% 36% 5% 2% | 14,829,403 55% 5% 32% 5% 2% 2% -254,003 -99% 25% -1% 0% 9% -34% 60% 32% 5% 2% |
| Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - ImportI/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals Balancing Energy Market MWh Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals Transactions Summary LBMP Internal Bilaterals Import Bilaterals Export Bilaterals Wheels Through Market Share of Total Load | 14,135,019 57% 2% 32% 5% 2% 2% -256,448 -157% 64% 15% 0% 10% -32% 58% 33% 5% 2% | 12,565,206 57% 2% 32% 5% 2% 2% -407,284 -132% 39% 8% 4% 7% -26% 57% 34% 5% 2% 2% 2% | 13,983,865 55% 1% 34% 5% 2% 2% -509,053 -148% 44% 12% 0% 5% -13% 55% 36% 5% 2% 2% 2% | 12,061,475 54% 1% 35% 6% 2% 2% -466,426 -115% 22% 5% 0% 4% -15% 54% 37% 6% 2% | 12,966,981 58% 1% 33% 4% 2% 2% -666,048 -120% 28% 1% 0% 3% -12% 58% 34% 4% 2% | 14,406,180 60% 1% 31% 5% 2% 2% -564,312 -114% 23% 4% 0% 3% -16% 60% 32% 5% 2% | 16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100% 18% 3% 0% 1% -22% 62% 30% 5% 2% | 15,948,927 61% 1% 29% 5% 2% 3% -853,898 -87% 13% 2% 0% 1% -29% 61% 31% 5% 2% | 14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76% 12% 3% 0% 1% -40% 58% 33% 5% 2% | 13,252,368 55% 2% 34% 5% 2% 2% -510,721 -102% 26% 5% 0% 4% -33% 56% 36% 5% 2% 1% | 13,042,826 53% 3% 34% 5% 2% 3% -410,072 -108% 45% 5% 0% -49% 56% 36% 5% 2% 1% | 14,829,403 55% 5% 32% 5% 2% 2% -254,003 -99% 25% -1% 0% 9% -34% 60% 32% 5% 2% |
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| Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals Balancing Energy Market MWh Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals Transactions Summary LBMP Internal Bilaterals Import Bilaterals Export Bilaterals Export Bilaterals Wheels Through Market Share of Total Load Day Ahead Market Balancing Energy + | 14,135,019 57% 2% 32% 5% 2% 2% -256,448 -157% 64% 15% 0% 10% -32% 58% 33% 5% 2% 2% 2% 101.8% -1.8% | 12,565,206 57% 2% 32% 5% 2% 2% -407,284 -132% 39% 8% 4% 7% -26% 57% 34% 5% 2% 2% 2% 2% | 13,983,865 55% 1% 34% 5% 2% 2% -509,053 -148% 44% 12% 0% 5% -13% 55% 36% 5% 2% 2% 2% 2% | 12,061,475 54% 1% 35% 6% 2% 2% -466,426 -115% 22% 5% 0% 4% -15% 54% 37% 6% 2% 2% 104.0% -4.0% | 12,966,981 58% 1% 33% 4% 2% 2% -666,048 -120% 28% 1% 0% 3% -12% 58% 34% 4% 2% 2% 2% 2% | 14,406,180 60% 1% 31% 5% 2% 2% -564,312 -114% 23% 4% 0% 3% -16% 60% 32% 5% 2% 1% | 16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100% 18% 3% 0% 1% -22% 62% 30% 5% 2% 2% 2% | 15,948,927 61% 1% 29% 5% 2% 3% -853,898 -87% 13% 2% 0% 1% -29% 61% 31% 5% 2% 2% 2% | 14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76% 12% 3% 0% 1% -40% 58% 33% 5% 2% 2% 2% 2% | 13,252,368 55% 2% 34% 5% 2% 2% -510,721 -102% 26% 5% 0% 4% -33% 56% 36% 5% 2% 1% 104.0% -4.0% | 13,042,826 53% 3% 34% 5% 2% 3% -410,072 -108% 45% 5% 0% 7% -49% 56% 36% 5% 2% 1% | 14,829,403 55% 5% 32% 5% 2% 2% -254,003 -99% 25% -1% 0% 9% -34% 60% 32% 5% 2% 1% 101.7% -1.7% |
| Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals Balancing Energy Market MWh Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals Transactions Summary LBMP Internal Bilaterals Import Bilaterals Export Bilaterals Export Bilaterals Mheels Through Market Share of Total Load Day Ahead Market | 14,135,019 57% 2% 32% 5% 2% -256,448 -157% 64% 15% 0% 10% -32% 58% 33% 5% 2% 2% | 12,565,206 57% 2% 32% 5% 2% 2% -407,284 -132% 39% 8% 4% 7% -26% 57% 34% 5% 2% 2% 2% | 13,983,865 55% 1% 34% 5% 2% 2% -509,053 -148% 44% 12% 0% 5% -13% 55% 36% 5% 2% 2% 2% | 12,061,475 54% 1% 35% 6% 2% 2% -466,426 -115% 22% 5% 0% 4% -15% 54% 37% 6% 2% 2% 104.0% | 12,966,981 58% 1% 33% 4% 2% 2% -666,048 -120% 28% 1% 0% 3% -12% 58% 34% 4% 2% 2% 2% | 14,406,180 60% 1% 31% 5% 2% 2% -564,312 -114% 23% 4% 0% 3% -16% 60% 32% 5% 2% 1% | 16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100% 18% 3% 0% 1% -22% 62% 30% 5% 2% 2% | 15,948,927 61% 1% 29% 5% 2% 3% -853,898 -87% 13% 2% 0% 1% -29% 61% 31% 5% 2% 2% 2% | 14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76% 12% 3% 0% 1% -40% 58% 33% 5% 2% 2% 2% | 13,252,368 55% 2% 34% 5% 2% 2% -510,721 -102% 26% 5% 0% 4% -33% 56% 36% 5% 2% 1% | 13,042,826 53% 3% 34% 5% 2% 3% -410,072 -108% 45% 5% 0% 7% -49% 56% 36% 5% 2% 1% | 14,829,403 55% 5% 32% 5% 2% 2% -254,003 -99% 25% -1% 0% 9% -34% 60% 32% 5% 2% 1% |

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

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

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

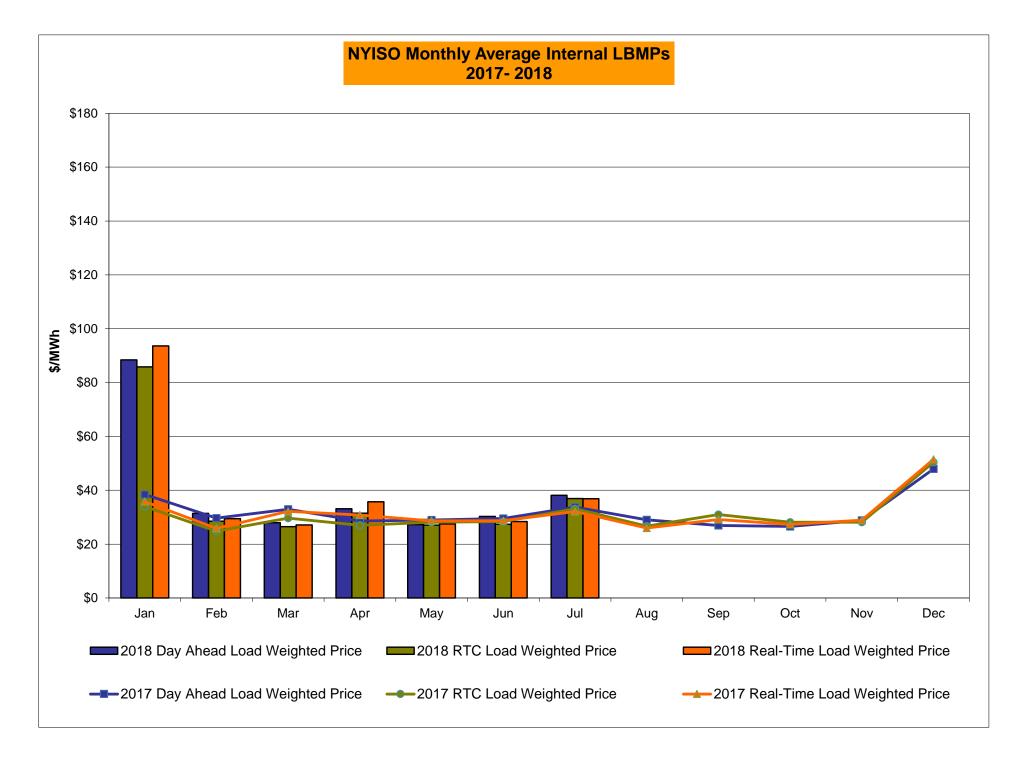
NYISO Markets 2018 Energy Statistics

| | <u>January</u> | <u>February</u> | <u>March</u> | <u>April</u> | <u>May</u> | <u>June</u> | <u>July</u> | August September | October November December |
|--|----------------|-----------------|--------------|--------------|------------|-------------|-------------|------------------|---------------------------|
| DAY AHEAD LBMP | | | | | | | | | |
| Price * | \$83.53 | \$30.37 | \$27.37 | \$32.40 | \$25.97 | \$28.41 | \$35.73 | | |
| Standard Deviation | \$58.94 | \$12.38 | \$6.34 | \$9.06 | \$9.22 | \$11.42 | \$15.25 | | |
| Load Weighted Price ** | \$88.42 | \$31.44 | \$27.95 | \$33.14 | \$27.26 | \$30.27 | \$38.14 | | |
| RTC LBMP | | | | | | | | | |
| Price * | \$81.65 | \$27.73 | \$25.99 | \$30.80 | \$25.40 | \$26.06 | \$34.65 | | |
| Standard Deviation | \$60.83 | \$11.96 | \$8.99 | \$14.30 | \$20.37 | \$12.78 | \$17.44 | | |
| Load Weighted Price ** | \$85.85 | \$28.54 | \$26.46 | \$31.47 | \$27.08 | \$27.35 | \$36.93 | | |
| REAL TIME LBMP | | | | | | | | | |
| Price * | \$87.94 | \$28.50 | \$26.49 | \$34.53 | \$25.57 | \$26.31 | \$34.34 | | |
| Standard Deviation | \$87.41 | \$17.36 | \$12.25 | \$26.57 | \$23.49 | \$24.34 | \$18.44 | | |
| Load Weighted Price ** | \$93.59 | \$29.49 | \$27.09 | \$35.72 | \$27.47 | \$28.38 | \$36.84 | | |
| Average Daily Energy Sendout/Month GWh | 463 | 426 | 413 | 390 | 397 | 445 | 529 | | |

NYISO Markets 2017 Energy Statistics

| | <u>January</u> | <u>February</u> | March | <u>April</u> | May | <u>June</u> | <u>July</u> | August S | September | October | November [| <u>December</u> |
|--|----------------|-----------------|----------|---------------|---------|----------------|-------------|----------|----------------|---------|---------------|------------------|
| DAY AHEAD LBMP | 407.00 | 000.04 | # | 407.70 | 407.00 | * 0= 0= | 001.01 | 407.00 | * 0= 0= | 00= 40 | 407.00 | * 4 = 4 0 |
| Price * | \$37.22 | \$28.84 | \$32.04 | \$27.70 | \$27.66 | \$27.37 | \$31.64 | \$27.28 | \$25.05 | \$25.49 | \$27.88 | \$45.46 |
| Standard Deviation | \$13.20 | \$7.97 | \$11.95 | \$7.66 | \$9.47 | \$12.37 | \$13.51 | \$10.60 | \$12.09 | \$8.53 | \$9.87 | \$31.56 |
| Load Weighted Price ** | \$38.42 | \$29.66 | \$32.96 | \$28.56 | \$28.95 | \$29.52 | \$33.78 | \$29.00 | \$26.95 | \$26.57 | \$28.83 | \$47.90 |
| RTC LBMP | | | | | | | | | | | | |
| Price * | \$32.87 | \$24.09 | \$28.86 | \$26.19 | \$26.19 | \$26.40 | \$30.84 | \$25.26 | \$27.97 | \$26.91 | \$27.35 | \$47.75 |
| Standard Deviation | \$14.57 | \$9.52 | \$13.70 | \$10.36 | \$21.29 | \$14.76 | \$18.14 | \$13.08 | \$27.14 | \$13.40 | \$10.54 | \$37.33 |
| Load Weighted Price ** | \$33.96 | \$24.81 | \$29.67 | \$26.98 | \$28.10 | \$28.39 | \$33.13 | \$26.65 | \$30.98 | \$28.13 | \$28.15 | \$50.39 |
| REAL TIME LBMP | | | | | | | | | | | | |
| Price * | \$34.61 | \$25.14 | \$31.21 | \$29.61 | \$26.56 | \$26.16 | \$29.47 | \$24.36 | \$26.08 | \$25.95 | \$27.91 | \$48.42 |
| Standard Deviation | \$18.20 | \$14.21 | \$25.02 | \$39.82 | \$26.11 | \$19.00 | \$20.25 | \$14.03 | \$25.72 | \$14.49 | \$15.86 | \$42.66 |
| Load Weighted Price ** | \$35.80 | \$25.84 | \$32.21 | \$30.81 | \$28.64 | \$28.67 | \$32.11 | \$25.95 | \$29.13 | \$27.33 | \$28.90 | \$51.49 |
| Average Daily Energy Sendout/Month GWh | 431 | 418 | 419 | 377 | 383 | 454 | 498 | 477 | 437 | 398 | 403 | 444 |

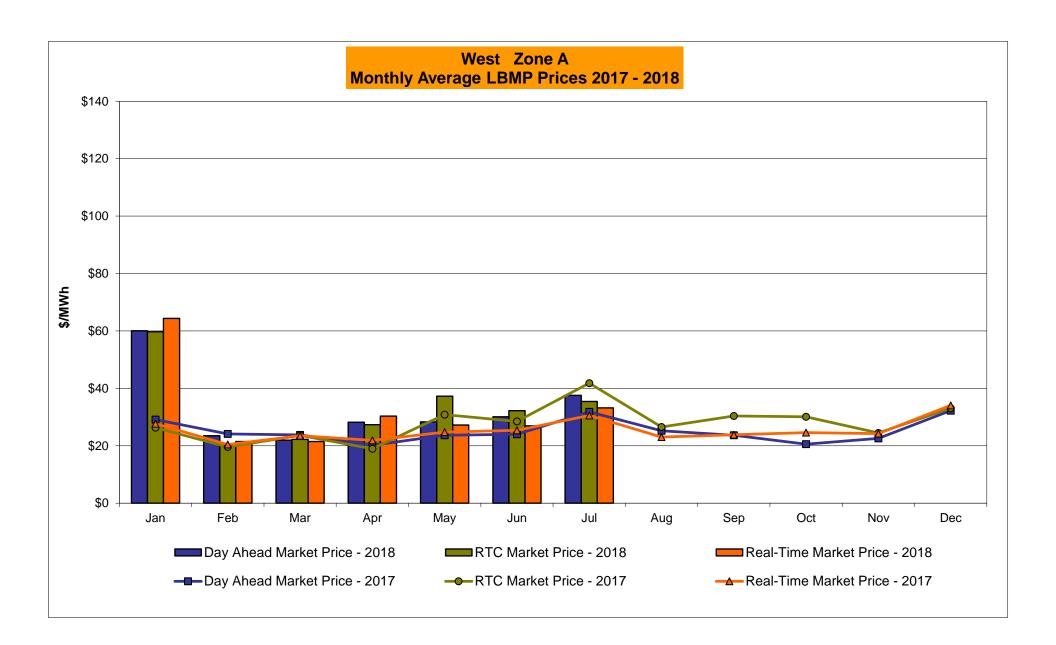
^{*} Average zonal load weighted prices.
** Average zonal load weighted prices, load weighted in each hour.

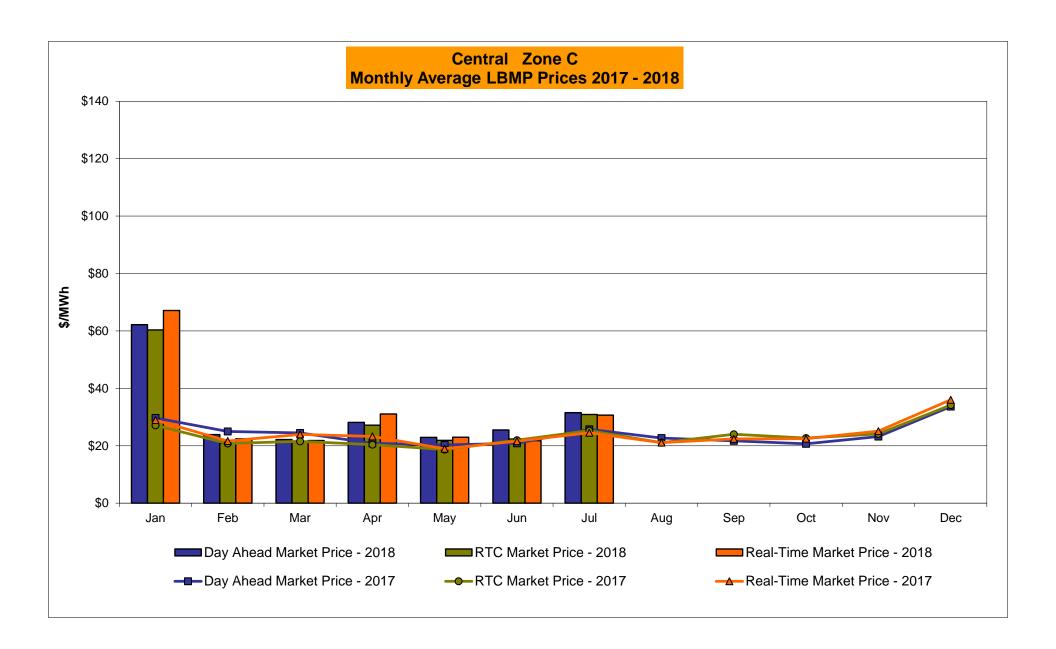


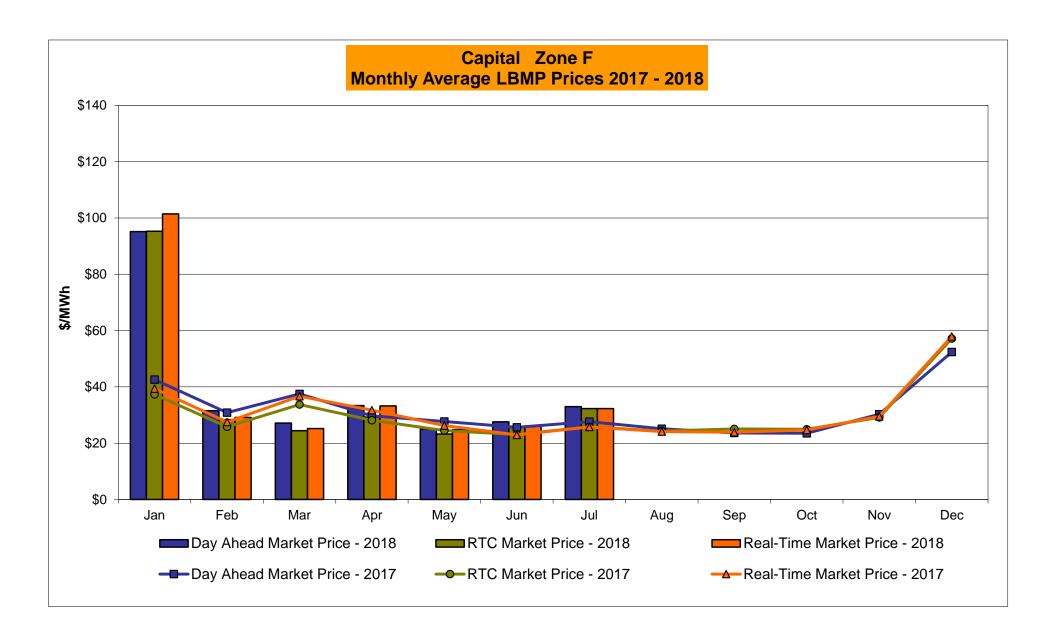
July 2018 Zonal LBMP Statistics for NYISO (\$/MWh)

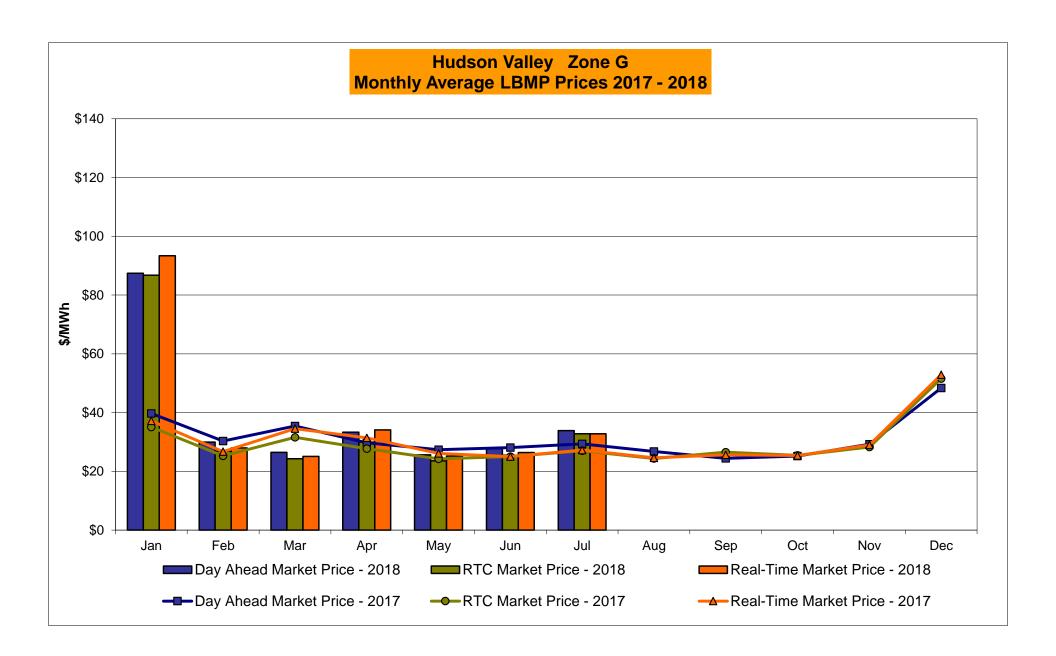
| | WEST | GENESEE | NORTH | CENTRAL | MOHAWK VALLEY | CAPITAL | HUDSON VALLEY | MILLWOOD | DUNWOODIE | NEW YORK CITY | LONG ISLAND |
|---|---------------------------------|--|--|----------------------------------|----------------------------------|--|---|---|--|--|---------------------------------------|
| | Zone A | Zone B | Zone D | Zone C | Zone E | Zone F | Zone G | Zone H | Zone I | Zone J | Zone K |
| DAY AHEAD LBMP | | | | | | | | | | | |
| Unweighted Price * | 37.55 | 30.24 | 27.30 | 31.54 | 31.45 | 32.98 | 33.87 | 34.01 | 34.01 | 36.94 | 41.83 |
| Standard Deviation | 29.69 | 12.08 | 9.84 | 13.92 | 12.89 | 12.11 | 13.01 | 13.09 | 13.05 | 14.25 | 19.31 |
| RTC LBMP | | | | | | | | | | | |
| Unweighted Price * | 35.43 | 29.80 | 23.65 | 30.88 | 30.43 | 32.29 | 32.81 | 32.98 | 33.07 | 35.39 | 42.28 |
| Standard Deviation | 31.91 | 13.65 | 43.61 | 14.59 | 15.14 | 13.77 | 14.29 | 14.35 | 14.35 | 15.95 | 38.23 |
| REAL TIME LBMP | | | | | | | | | | | |
| Unweighted Price * | 33.20 | 29.88 | 24.24 | 30.69 | 30.46 | 32.26 | 32.79 | 32.97 | 33.15 | 35.71 | 40.50 |
| Standard Deviation | 24.88 | 15.40 | 34.75 | 15.80 | 16.29 | 15.72 | 16.22 | 16.28 | 16.45 | 17.94 | 37.71 |
| | | | | | | | | | | | |
| | | HADBU | HADBU | | | CPOSS | | | | | |
| | ONTARIO | HYDRO | HYDRO | | NEW | CROSS | NORTHPORT- | | | | |
| | ONTARIO IESO | QUEBEC | HYDRO QUEBEC mport/Export) | PJM | NEW ENGLAND | | NORTHPORT- NORWALK | NEPTUNE | LINDEN VFT | HUDSON | Dennison |
| | | QUEBEC | QUEBEC | РЈМ | | SOUND | | NEPTUNE Controllable | LINDEN VFT Controllable | HUDSON Controllable | Dennison <u>Controllable</u> |
| | | QUEBEC | QUEBEC | PJM <u>Zone P</u> | | SOUND CABLE | NORWALK | | | | |
| DAY AHEAD LBMP | IESO | QUEBEC (Wheel) (I | QUEBEC mport/Export) | | ENGLAND | SOUND CABLE Controllable | NORWALK Controllable | Controllable | Controllable | <u>Controllable</u> | Controllable |
| DAY AHEAD LBMP Unweighted Price * | Zone O 27.24 | QUEBEC (Wheel) (I Zone M 27.06 | QUEBEC mport/Export) Zone M 27.06 | Zone P 32.68 | Zone N 33.14 | SOUND CABLE Controllable Line | NORWALK Controllable Line 35.51 | Controllable Line 36.83 | Controllable Line 35.04 | Controllable Line 35.45 | Controllable Line 26.42 |
| | IESO Zone O | QUEBEC (Wheel) (I Zone M | QUEBEC mport/Export) <u>Zone M</u> | Zone P | ENGLAND Zone N | SOUND CABLE Controllable Line | NORWALK Controllable Line | Controllable Line | Controllable Line | Controllable Line | Controllable Line |
| Unweighted Price * Standard Deviation RTC LBMP | Zone O 27.24 8.24 | QUEBEC (Wheel) (I Zone M 27.06 10.74 | QUEBEC mport/Export) Zone M 27.06 10.74 | Zone P 32.68 13.77 | Zone N 33.14 12.30 | SOUND CABLE Controllable Line 37.35 15.48 | NORWALK Controllable Line 35.51 12.64 | Controllable Line 36.83 16.25 | Controllable Line 35.04 12.26 | Controllable Line 35.45 13.16 | Controllable Line 26.42 9.40 |
| Unweighted Price * Standard Deviation RTC LBMP Unweighted Price * | 27.24 8.24 | QUEBEC (Wheel) (I Zone M 27.06 10.74 | QUEBEC mport/Export) Zone M 27.06 10.74 | Zone P 32.68 13.77 | Zone N 33.14 12.30 | SOUND CABLE Controllable Line 37.35 15.48 | NORWALK Controllable Line 35.51 12.64 | 26 Controllable Line 36.83 16.25 | 25.04 12.26 30.75 | 25.45 13.16 | Controllable Line 26.42 9.40 |
| Unweighted Price * Standard Deviation RTC LBMP | Zone O 27.24 8.24 | QUEBEC (Wheel) (I Zone M 27.06 10.74 | QUEBEC mport/Export) Zone M 27.06 10.74 | Zone P 32.68 13.77 | Zone N 33.14 12.30 | SOUND CABLE Controllable Line 37.35 15.48 | NORWALK Controllable Line 35.51 12.64 | Controllable Line 36.83 16.25 | Controllable Line 35.04 12.26 | Controllable Line 35.45 13.16 | Controllable Line 26.42 9.40 |
| Unweighted Price * Standard Deviation RTC LBMP Unweighted Price * Standard Deviation REAL TIME LBMP | 27.24 8.24 27.01 12.82 | QUEBEC (Wheel) (I Zone M 27.06 10.74 21.92 45.47 | QUEBEC mport/Export) Zone M 27.06 10.74 21.92 45.47 | Zone P 32.68 13.77 31.04 13.36 | Zone N 33.14 12.30 33.78 23.21 | SOUND CABLE Controllable Line 37.35 15.48 | NORWALK Controllable Line 35.51 12.64 33.96 28.99 | 24.15 Controllable Line 36.83 16.25 | 25.04 12.26 30.75 32.26 | 25.45 13.16 33.82 14.23 | 26.42 9.40 23.08 43.48 |
| Unweighted Price * Standard Deviation RTC LBMP Unweighted Price * Standard Deviation | 27.24 8.24 | QUEBEC (Wheel) (I Zone M 27.06 10.74 | QUEBEC mport/Export) Zone M 27.06 10.74 | Zone P 32.68 13.77 | Zone N 33.14 12.30 | SOUND CABLE Controllable Line 37.35 15.48 | NORWALK Controllable Line 35.51 12.64 | 26 Controllable Line 36.83 16.25 | 25.04 12.26 30.75 | 25.45 13.16 | Controllable Line 26.42 9.40 |

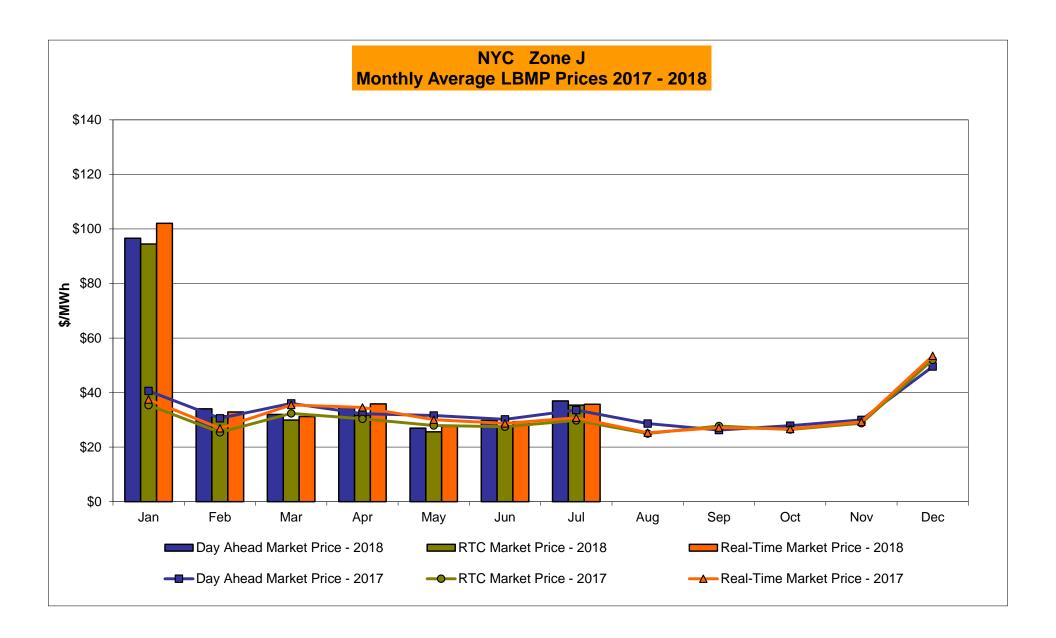
^{*} Straight LBMP averages

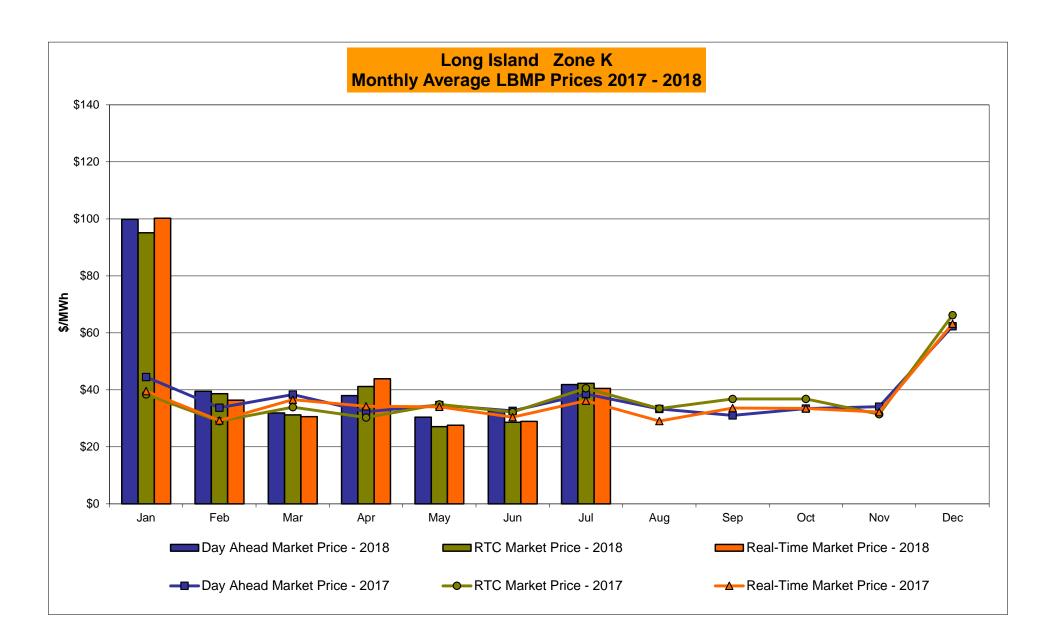


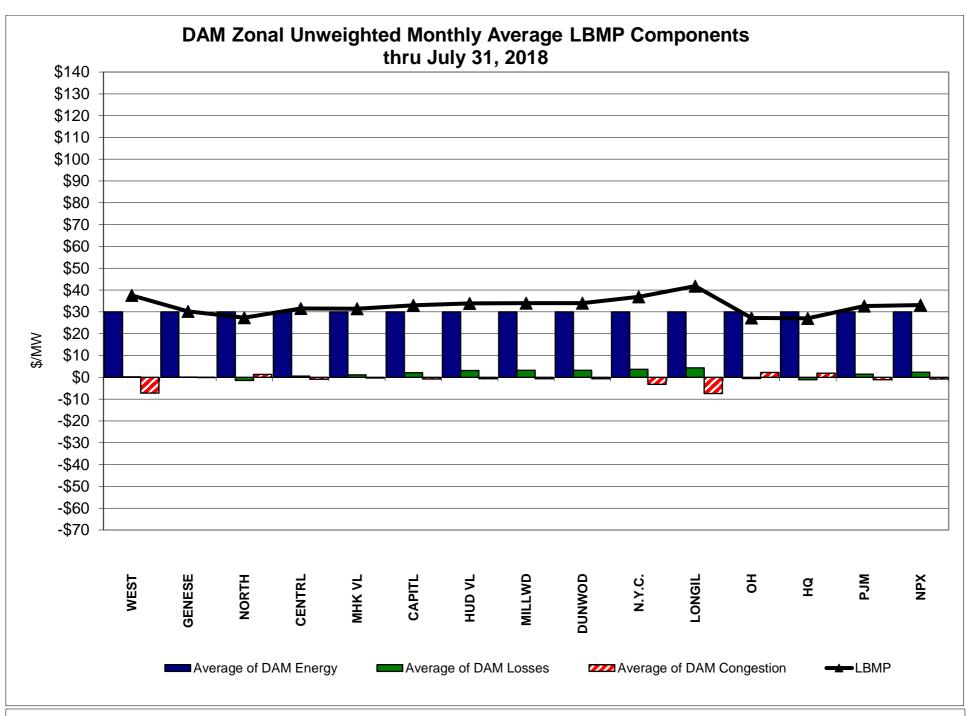


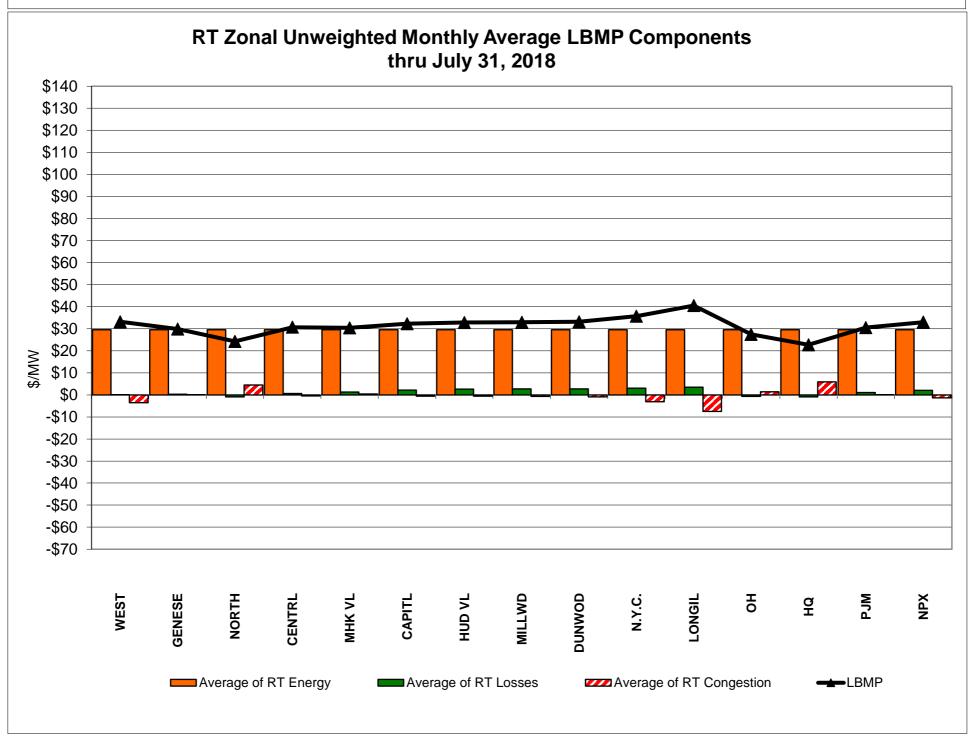




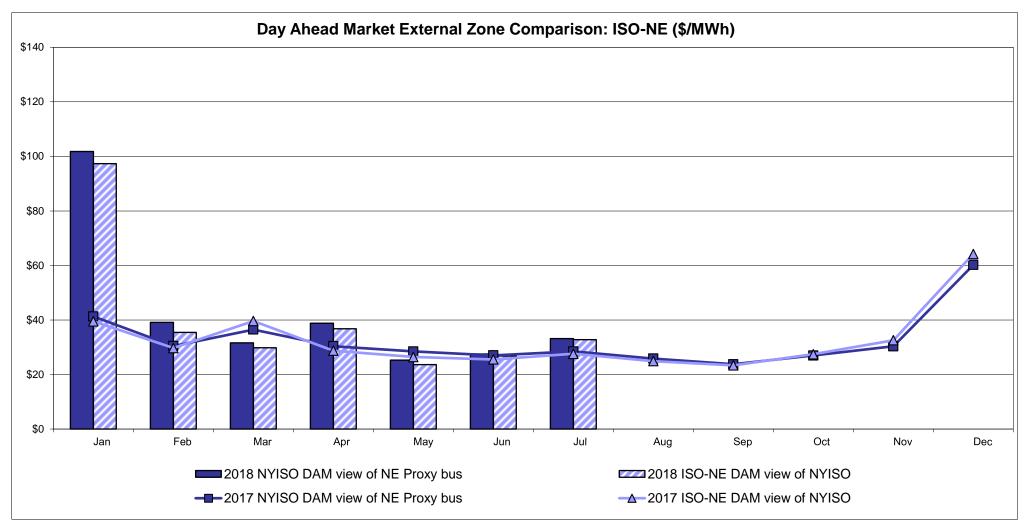


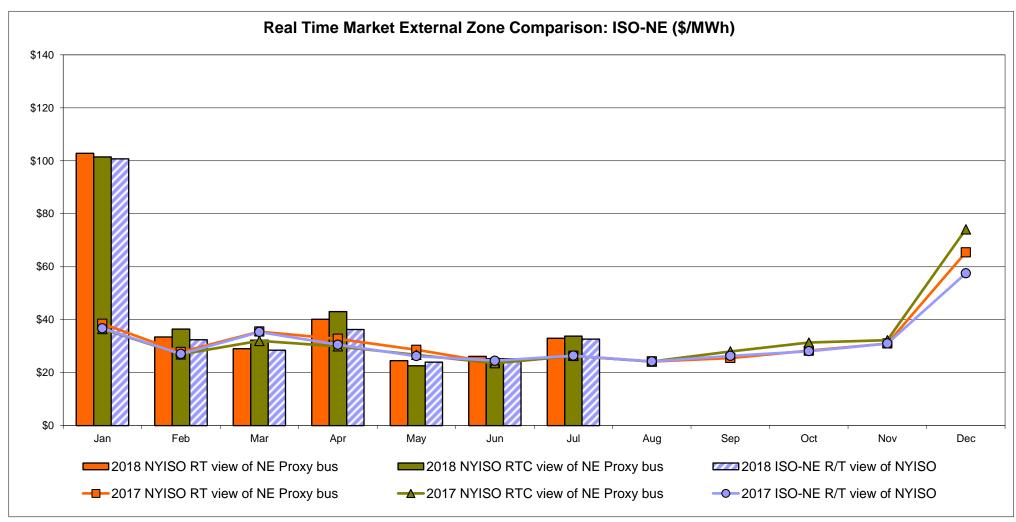




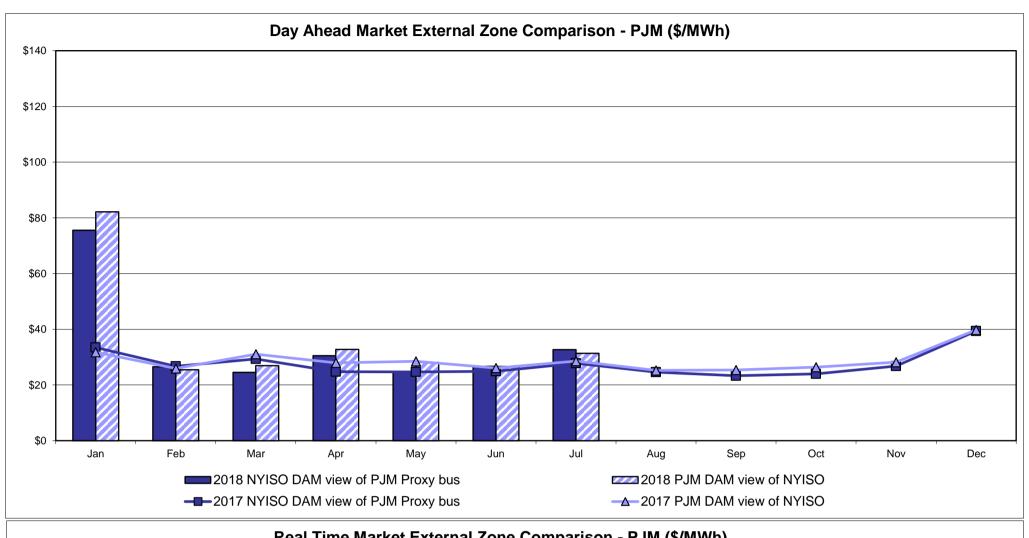


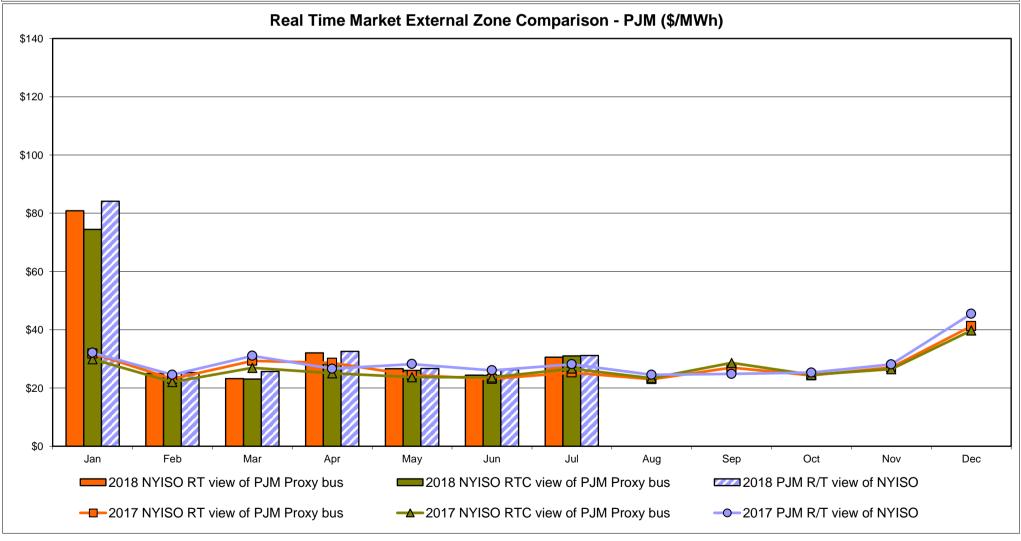
External Comparison ISO-New England



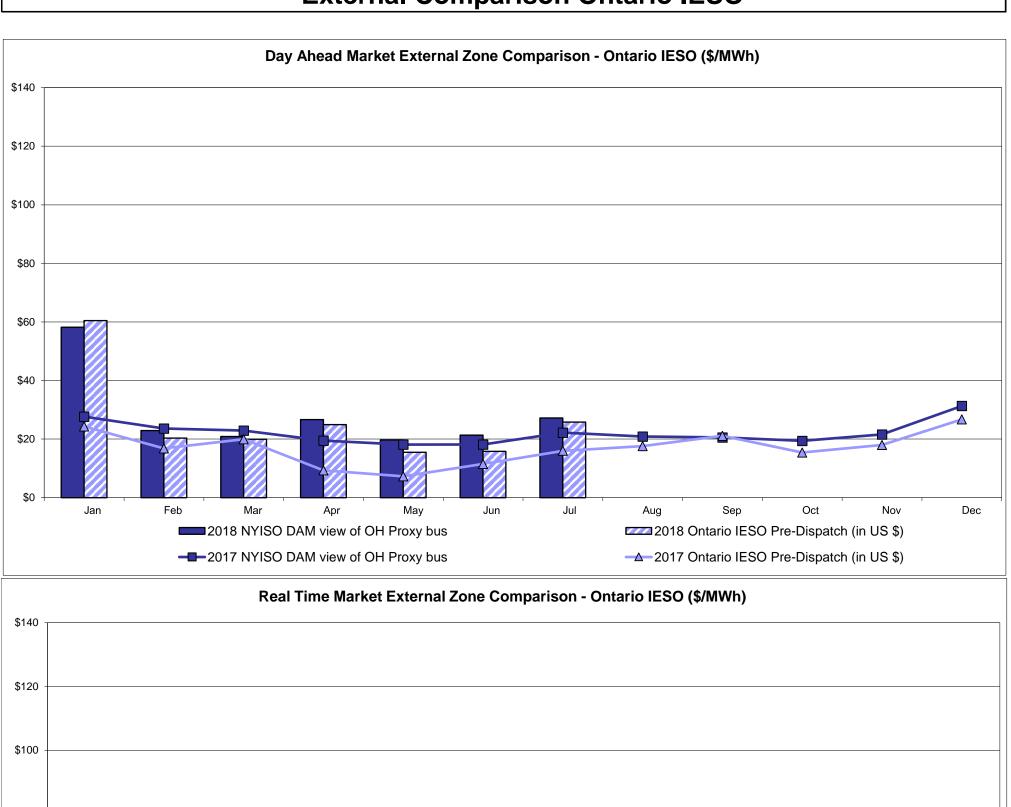


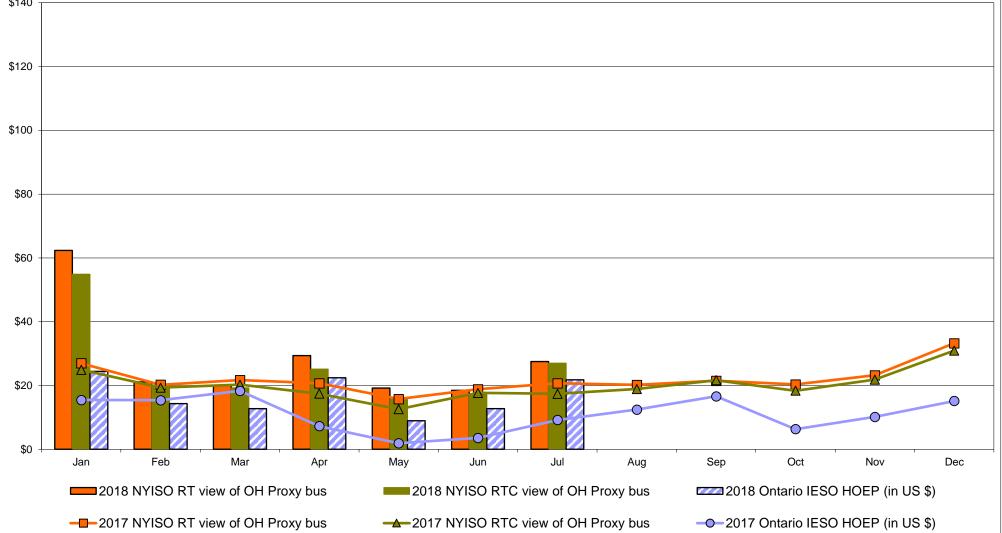
External Comparison PJM





External Comparison Ontario IESO

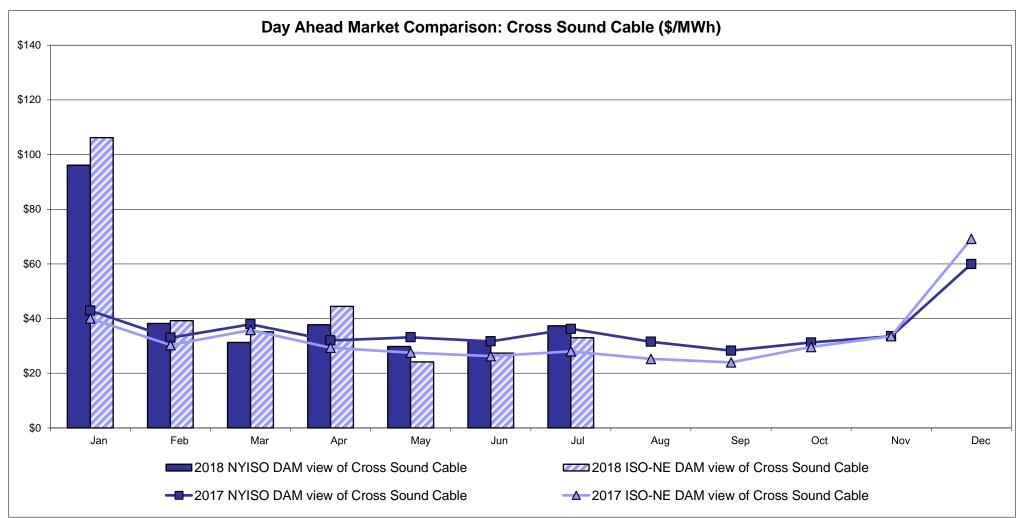


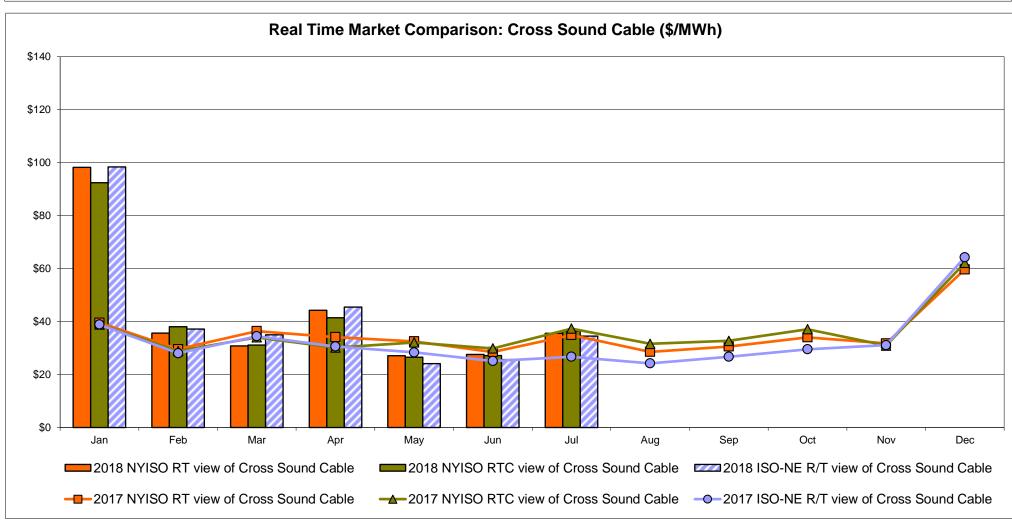


Notes: Exchange factor used for July 2018 was 0.761440645701668 to US

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

External Controllable Line: Cross Sound Cable (New England)





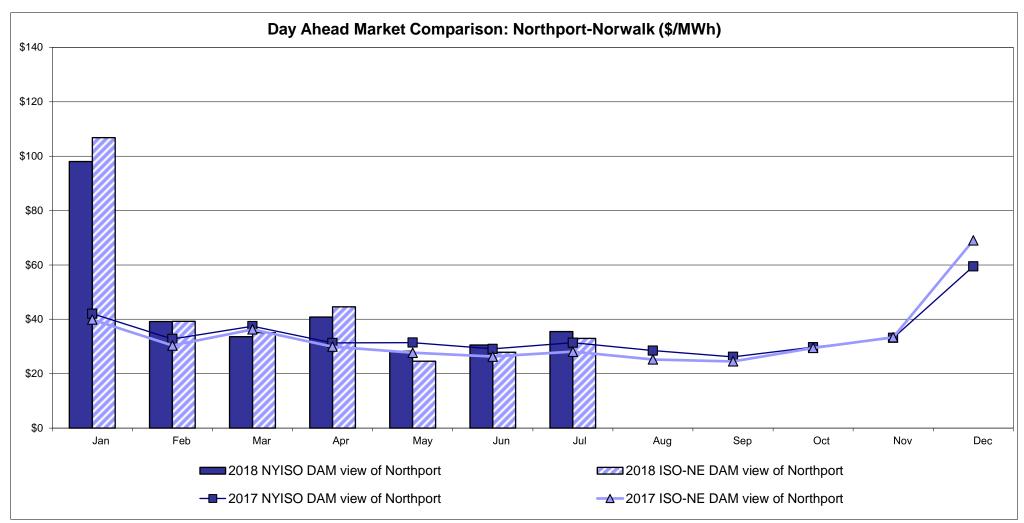
Note:

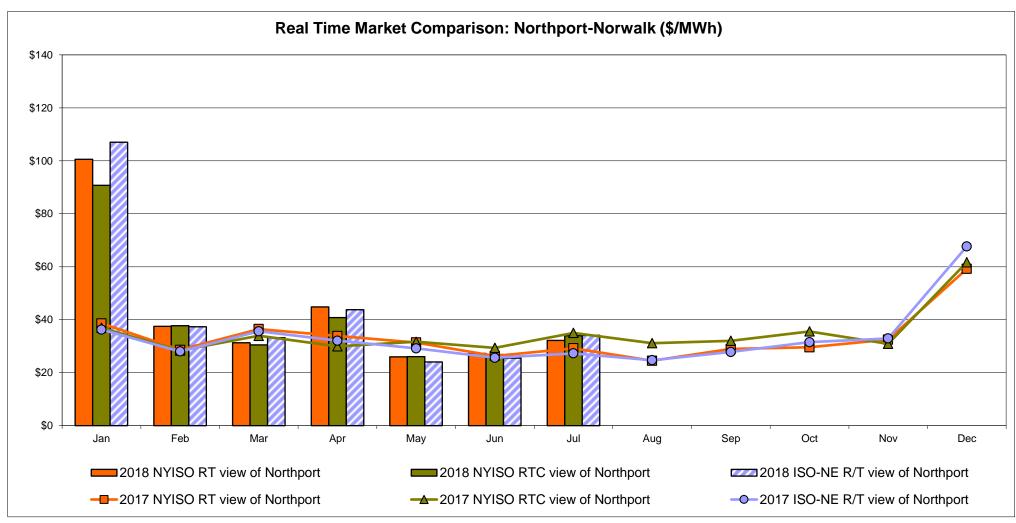
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

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

External Controllable Line: Northport - Norwalk (New England)





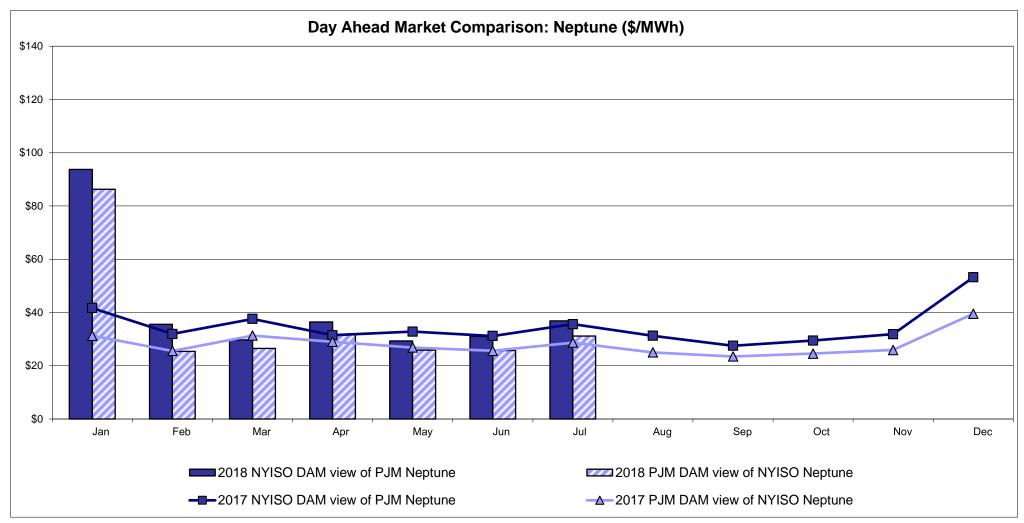
Note:

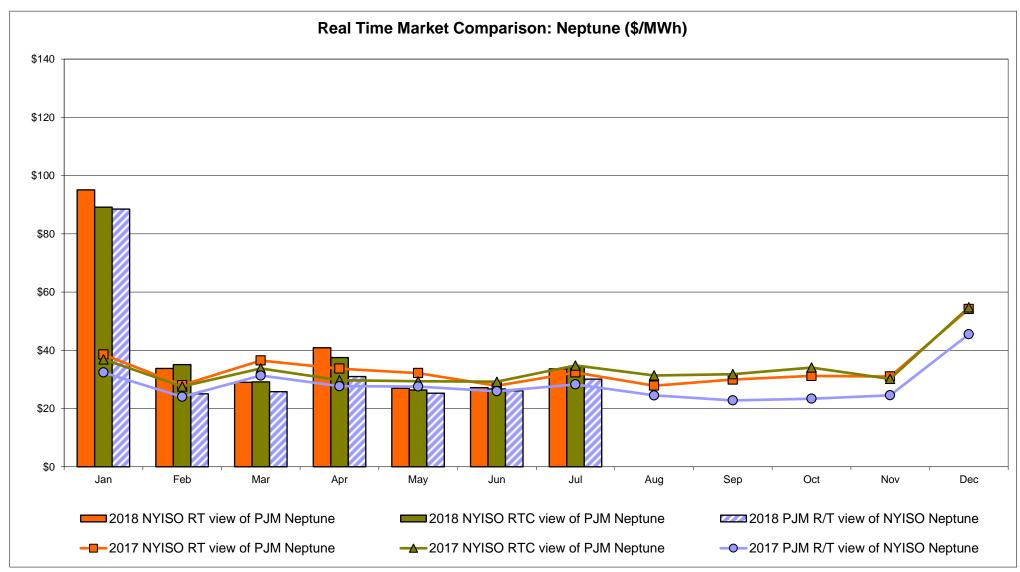
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

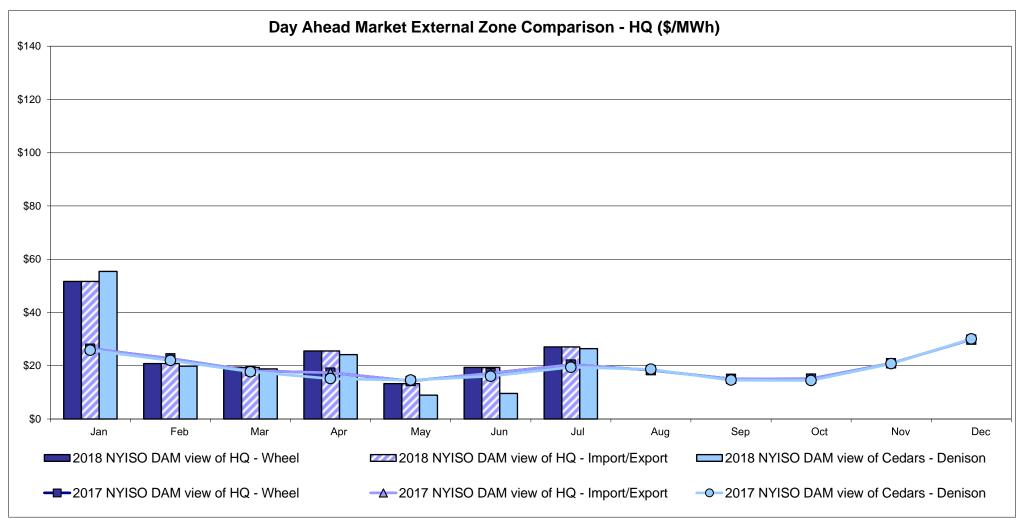
The DAM and R/T prices at the 1385 interface are used for NYISO.

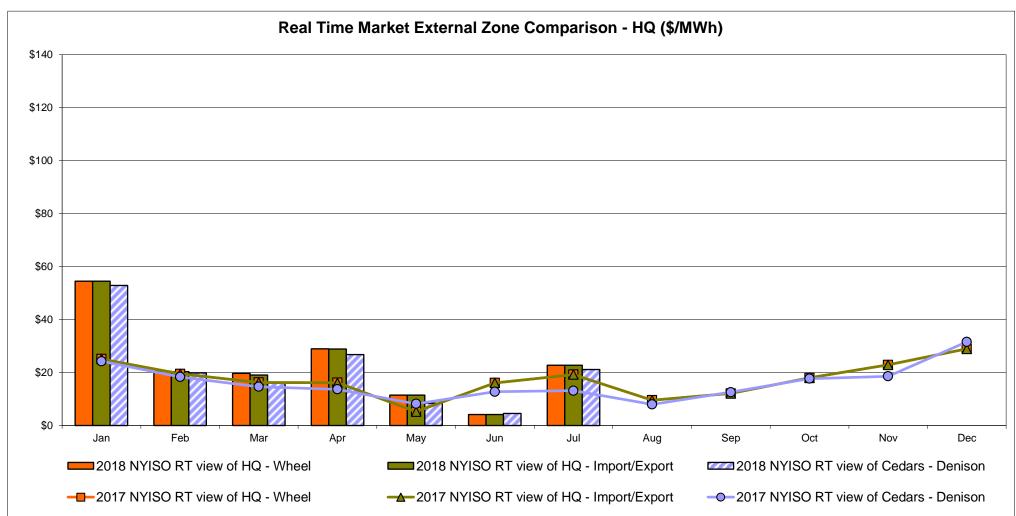
External Controllable Line: Neptune (PJM)





External Comparison Hydro-Quebec

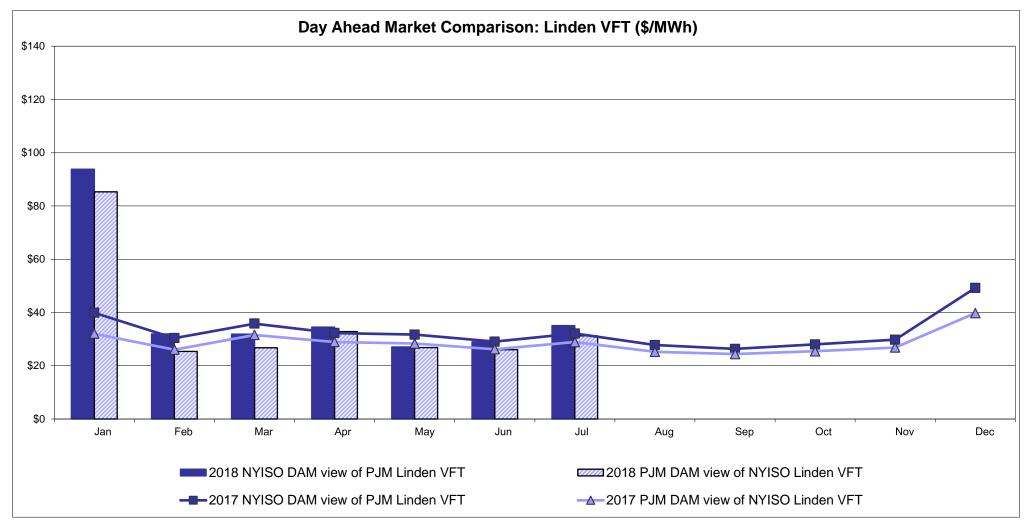


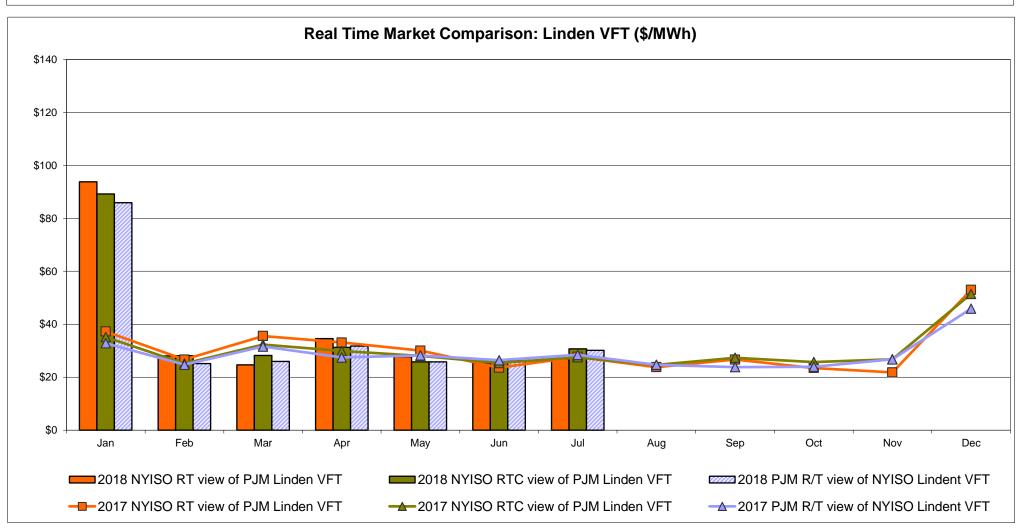


Note:

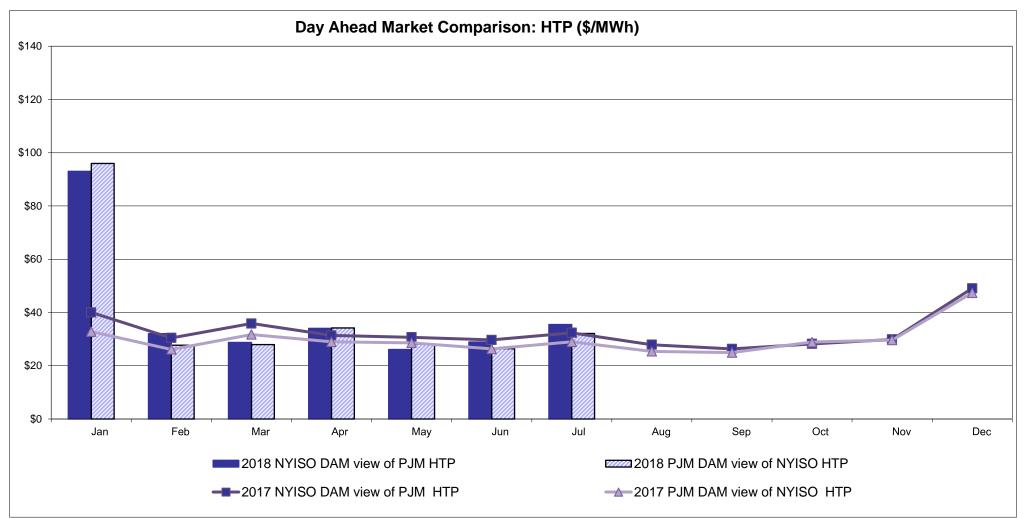
Hydro-Quebec Prices are unavailable.

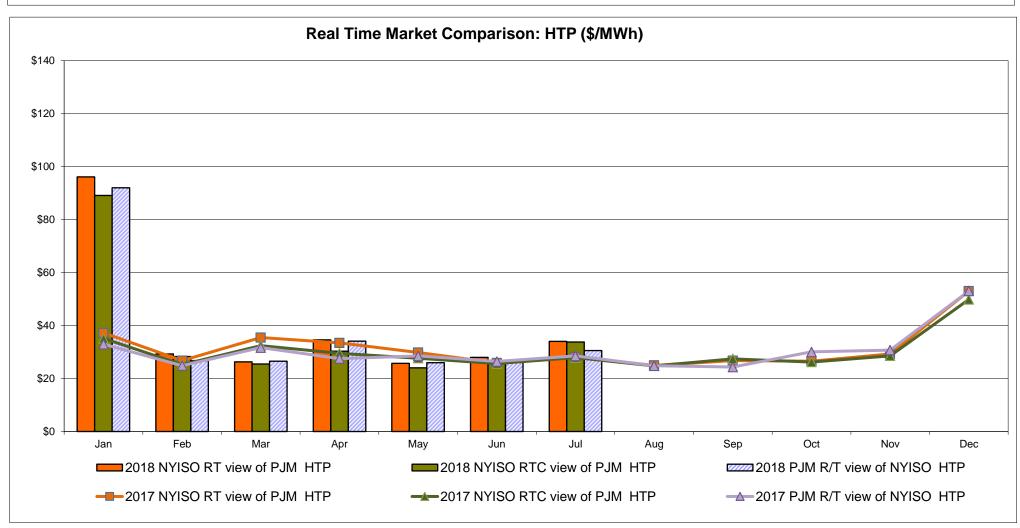
External Controllable Line: Linden VFT (PJM)





External Controllable Line: Hudson (PJM)

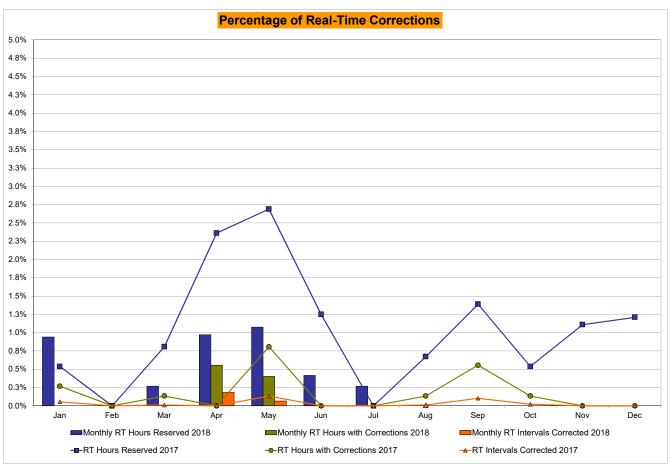


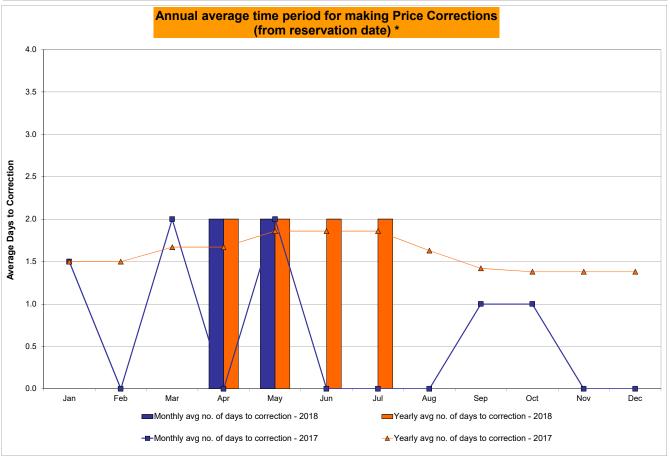


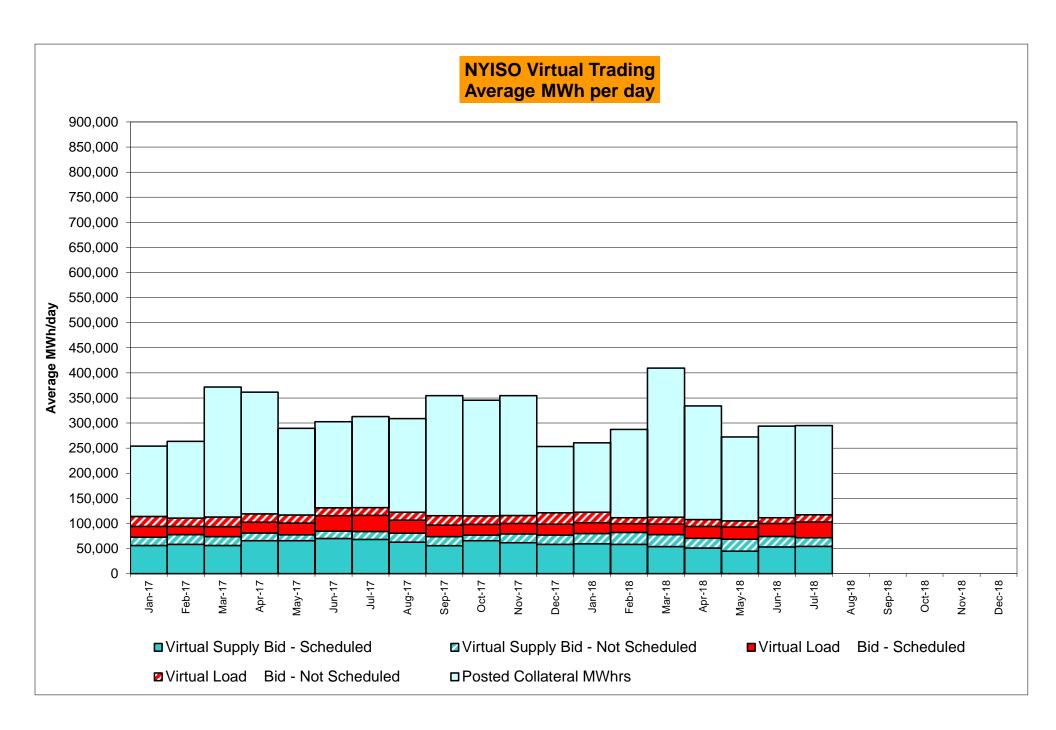
NYISO Real Time Price Correction Statistics

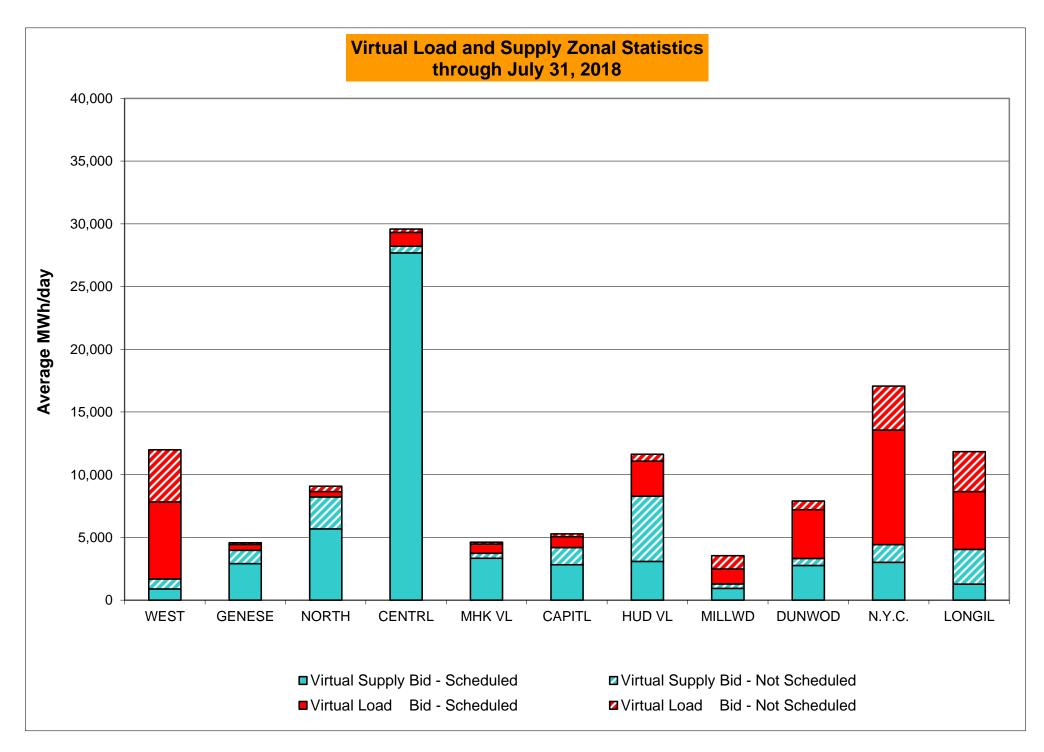
| 2018 Hour Corrections | | <u>January</u> | <u>February</u> | <u>March</u> | <u>April</u> | <u>May</u> | <u>June</u> | <u>July</u> | August | September | <u>October</u> | November | December |
|--|---|--|--|--|---|--|--|--|--|---|--|--|--|
| Number of hours with corrections | in the month | 0 | 0 | 0 | 4 | 3 | 0 | 0 | | | | | |
| Number of hours | in the month | 744 | 672 | 743 | 720 | 744 | 720 | 744 | | | | | |
| % of hours with corrections | in the month | 0.00% | 0.00% | 0.00% | 0.56% | 0.40% | 0.00% | 0.00% | | | | | |
| 76 Of Hours with Corrections | in the month | 0.00 /6 | 0.0076 | 0.00 /6 | 0.30 % | 0.4076 | 0.0076 | 0.00 /6 | | | | | |
| % of hours with corrections | year-to-date | 0.00% | 0.00% | 0.00% | 0.14% | 0.19% | 0.16% | 0.14% | | | | | |
| Interval Corrections | | | | | | | | | | | | | |
| Number of intervals corrected | in the month | 0 | 0 | 0 | 16 | 6 | 0 | 0 | | | | | |
| Number of intervals | in the month | 9,021 | 8,112 | 9,002 | 8,717 | 9,033 | 8,723 | 9,021 | | | | | |
| % of intervals corrected | in the month | 0.00% | 0.00% | 0.00% | 0.18% | 0.07% | 0.00% | 0.00% | | | | | |
| % of intervals corrected | year-to-date | 0.00% | 0.00% | 0.00% | 0.05% | 0.05% | 0.04% | 0.04% | | | | | |
| Hours Reserved | | | | | | | | | | | | | |
| Number of hours reserved | in the month | 7 | 0 | 2 | 7 | 8 | 3 | 2 | | | | | |
| Number of hours | in the month | 744 | 672 | 743 | 720 | 744 | 720 | 744 | | | | | |
| % of hours reserved | in the month | 0.94% | 0.00% | 0.27% | 0.97% | 1.08% | 0.42% | 0.27% | | | | | |
| % of hours reserved | year-to-date | 0.94% | 0.49% | 0.42% | 0.56% | 0.66% | 0.62% | 0.57% | | | | | |
| Days to Correction * | | | | | | | | | | | | | |
| Avg. number of days to correction | in the month | 0.00 | 0.00 | 0.00 | 2.00 | 2.00 | 0.00 | 0.00 | | | | | |
| Avg. number of days to correction | year-to-date | 0.00 | 0.00 | 0.00 | 2.00 | 2.00 | 2.00 | 2.00 | | | | | |
| Days Without Corrections | | | | | | | | | | | | | |
| Days without corrections | in the month | 31 | 28 | 31 | 28 | 28 | 30 | 31 | | | | | |
| Days without corrections | year-to-date | 31 | 59 | 90 | 118 | 146 | 176 | 207 | | | | | |
| | | | | | | | | | | | | | |
| <u>2017</u> | | <u>January</u> | <u>February</u> | <u>March</u> | <u>April</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>August</u> | September | October | November | <u>December</u> |
| 2017 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> |
| | in the month | <u>January</u> 2 | <u>February</u> 0 | March 1 | <u>April</u> 0 | <u>May</u> 6 | <u>June</u> 0 | <u>July</u> 0 | August 1 | September 4 | October 1 | November 0 | December 0 |
| Hour Corrections | in the month | | | | | 6 744 | | | | | | | |
| Hour Corrections Number of hours with corrections | | 2 | 0 | 1 | 0 | 6 | 0 | 0 | 1 | 4 | 1 | 0 | 0 |
| Hour Corrections Number of hours with corrections Number of hours | in the month | 2 744 | 0 672 | 1 743 | 0 720 | 6 744 | 0 720 | 0 744 | 1 744 | 4 720 | 1 744 | 0 721 | 0 744 |
| Hour Corrections Number of hours with corrections Number of hours % of hours with corrections | in the month in the month | 2 744 0.27% | 0 672 0.00% | 1 743 0.13% | 0 720 0.00% | 6 744 0.81% | 0 720 0.00% | 0 744 0.00% | 1 744 0.13% | 4 720 0.56% | 1 744 0.13% | 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 in the month | 2 744 0.27% | 0 672 0.00% | 1 743 0.13% | 0 720 0.00% | 6 744 0.81% | 0 720 0.00% | 0 744 0.00% | 1 744 0.13% | 4 720 0.56% | 1 744 0.13% | 0 721 0.00% | 0 744 0.00% |
| Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections | in the month in the month year-to-date | 2 744 0.27% 0.27% | 0 672 0.00% 0.14% | 1 743 0.13% 0.14% | 0 720 0.00% 0.10% | 6 744 0.81% 0.25% | 0 720 0.00% 0.21% | 0 744 0.00% 0.18% | 1 744 0.13% 0.17% | 4 720 0.56% 0.21% | 1 744 0.13% 0.21% | 0 721 0.00% 0.19% | 0 744 0.00% 0.17% |
| 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 | 2 744 0.27% 0.27% | 0 672 0.00% 0.14% | 1 743 0.13% 0.14% | 0 720 0.00% 0.10% | 6 744 0.81% 0.25% | 0 720 0.00% 0.21% | 0 744 0.00% 0.18% | 1 744 0.13% 0.17% | 4 720 0.56% 0.21% | 1 744 0.13% 0.21% | 0 721 0.00% 0.19% | 0 744 0.00% 0.17% |
| Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals | in the month in the month year-to-date in the month in the month in the month | 2 744 0.27% 0.27% 5 8,983 | 0 672 0.00% 0.14% 0 8,101 0.00% | 1 743 0.13% 0.14% 1 9,026 0.01% | 0 720 0.00% 0.10% 0 8,745 | 6 744 0.81% 0.25% | 0 720 0.00% 0.21% 0 8,712 0.00% | 0 744 0.00% 0.18% 0 8,968 0.00% | 1 744 0.13% 0.17% 1 8,980 0.01% | 4 720 0.56% 0.21% 9 8,701 | 1 744 0.13% 0.21% 2 9,006 0.02% | 0 721 0.00% 0.19% 0 8,712 0.00% | 0 744 0.00% 0.17% 0 9,063 0.00% |
| Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected | in the month in the month year-to-date in the month in the month | 2 744 0.27% 0.27% 5 8,983 0.06% | 0 672 0.00% 0.14% 0 8,101 | 1 743 0.13% 0.14% | 0 720 0.00% 0.10% 0 8,745 0.00% | 6 744 0.81% 0.25% 12 9,004 0.13% | 0 720 0.00% 0.21% 0 8,712 | 0 744 0.00% 0.18% 0 8,968 | 1 744 0.13% 0.17% | 4 720 0.56% 0.21% 9 8,701 0.10% | 1 744 0.13% 0.21% 2 9,006 | 0 721 0.00% 0.19% 0 8,712 | 0 744 0.00% 0.17% 0 9,063 |
| Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected | in the month in the month year-to-date in the month in the month in the month | 2 744 0.27% 0.27% 5 8,983 0.06% | 0 672 0.00% 0.14% 0 8,101 0.00% | 1 743 0.13% 0.14% 1 9,026 0.01% | 0 720 0.00% 0.10% 0 8,745 0.00% | 6 744 0.81% 0.25% 12 9,004 0.13% | 0 720 0.00% 0.21% 0 8,712 0.00% | 0 744 0.00% 0.18% 0 8,968 0.00% | 1 744 0.13% 0.17% 1 8,980 0.01% | 4 720 0.56% 0.21% 9 8,701 0.10% | 1 744 0.13% 0.21% 2 9,006 0.02% | 0 721 0.00% 0.19% 0 8,712 0.00% | 0 744 0.00% 0.17% 0 9,063 0.00% |
| Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved | in the month in the month year-to-date in the month in the month in the month year-to-date | 2 744 0.27% 0.27% 5 8,983 0.06% 0.06% | 0 672 0.00% 0.14% 0 8,101 0.00% 0.03% | 1 743 0.13% 0.14% 1 9,026 0.01% 0.02% | 0 720 0.00% 0.10% 0 8,745 0.00% 0.02% | 6 744 0.81% 0.25% 12 9,004 0.13% 0.04% | 0 720 0.00% 0.21% 0 8,712 0.00% 0.03% | 0 744 0.00% 0.18% 0 8,968 0.00% 0.03% | 1 744 0.13% 0.17% 1 8,980 0.01% 0.03% | 4 720 0.56% 0.21% 9 8,701 0.10% 0.04% | 1 744 0.13% 0.21% 2 9,006 0.02% 0.03% | 0 721 0.00% 0.19% 0 8,712 0.00% 0.03% | 0 744 0.00% 0.17% 0 9,063 0.00% 0.03% |
| Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved | in the month in the month year-to-date in the month in the month in the month year-to-date in the month | 2 744 0.27% 0.27% 5 8,983 0.06% 0.06% | 0 672 0.00% 0.14% 0 8,101 0.00% 0.03% | 1 743 0.13% 0.14% 1 9,026 0.01% 0.02% | 0 720 0.00% 0.10% 0 8,745 0.00% 0.02% | 6 744 0.81% 0.25% 12 9,004 0.13% 0.04% | 0 720 0.00% 0.21% 0 8,712 0.00% 0.03% | 0 744 0.00% 0.18% 0 8,968 0.00% 0.03% | 1 744 0.13% 0.17% 1 8,980 0.01% 0.03% | 4 720 0.56% 0.21% 9 8,701 0.10% 0.04% | 1 744 0.13% 0.21% 2 9,006 0.02% 0.03% | 0 721 0.00% 0.19% 0 8,712 0.00% 0.03% | 0 744 0.00% 0.17% 0 9,063 0.00% 0.03% |
| Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours | in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month year-to-date | 2 744 0.27% 0.27% 5 8,983 0.06% 0.06% | 0 672 0.00% 0.14% 0 8,101 0.00% 0.03% | 1 743 0.13% 0.14% 1 9,026 0.01% 0.02% | 0 720 0.00% 0.10% 0 8,745 0.00% 0.02% | 6 744 0.81% 0.25% 12 9,004 0.13% 0.04% 20 744 | 0 720 0.00% 0.21% 0 8,712 0.00% 0.03% | 0 744 0.00% 0.18% 0 8,968 0.00% 0.03% 0 744 | 1 744 0.13% 0.17% 1 8,980 0.01% 0.03% 5 744 | 4 720 0.56% 0.21% 9 8,701 0.10% 0.04% | 1 744 0.13% 0.21% 2 9,006 0.02% 0.03% 4 744 | 0 721 0.00% 0.19% 0 8,712 0.00% 0.03% | 0 744 0.00% 0.17% 0 9,063 0.00% 0.03% |
| Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved | in the month in the month year-to-date in the month in the month in the month year-to-date in the month | 2 744 0.27% 0.27% 5 8,983 0.06% 0.06% 4 744 0.54% | 0 672 0.00% 0.14% 0 8,101 0.00% 0.03% 0 672 0.00% | 1 743 0.13% 0.14% 1 9,026 0.01% 0.02% 6 743 0.81% | 0 720 0.00% 0.10% 0 8,745 0.00% 0.02% 17 720 2.36% | 6 744 0.81% 0.25% 12 9,004 0.13% 0.04% 20 744 2.69% | 0 720 0.00% 0.21% 0 8,712 0.00% 0.03% 9 720 1.25% | 0 744 0.00% 0.18% 0 8,968 0.00% 0.03% 0 744 0.00% | 1 744 0.13% 0.17% 1 8,980 0.01% 0.03% 5 744 0.67% | 4 720 0.56% 0.21% 9 8,701 0.10% 0.04% 10 720 1.39% | 1 744 0.13% 0.21% 2 9,006 0.02% 0.03% 4 744 0.54% | 0 721 0.00% 0.19% 0 8,712 0.00% 0.03% 8 721 1.11% | 0 744 0.00% 0.17% 0 9,063 0.00% 0.03% 9 744 1.21% |
| Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved | in the month in the month year-to-date in the month in the month in the month year-to-date in the month | 2 744 0.27% 0.27% 5 8,983 0.06% 0.06% 4 744 0.54% | 0 672 0.00% 0.14% 0 8,101 0.00% 0.03% 0 672 0.00% | 1 743 0.13% 0.14% 1 9,026 0.01% 0.02% 6 743 0.81% | 0 720 0.00% 0.10% 0 8,745 0.00% 0.02% 17 720 2.36% | 6 744 0.81% 0.25% 12 9,004 0.13% 0.04% 20 744 2.69% | 0 720 0.00% 0.21% 0 8,712 0.00% 0.03% 9 720 1.25% | 0 744 0.00% 0.18% 0 8,968 0.00% 0.03% 0 744 0.00% | 1 744 0.13% 0.17% 1 8,980 0.01% 0.03% 5 744 0.67% | 4 720 0.56% 0.21% 9 8,701 0.10% 0.04% 10 720 1.39% | 1 744 0.13% 0.21% 2 9,006 0.02% 0.03% 4 744 0.54% | 0 721 0.00% 0.19% 0 8,712 0.00% 0.03% 8 721 1.11% | 0 744 0.00% 0.17% 0 9,063 0.00% 0.03% 9 744 1.21% |
| Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved Days to Correction * | in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month in the month in the month year-to-date | 2 744 0.27% 0.27% 5 8,983 0.06% 0.06% 4 744 0.54% | 0 672 0.00% 0.14% 0 8,101 0.00% 0.03% 0 672 0.00% 0.28% | 1 743 0.13% 0.14% 1 9,026 0.01% 0.02% 6 743 0.81% 0.46% | 0 720 0.00% 0.10% 0 8,745 0.00% 0.02% 17 720 2.36% 0.94% | 6 744 0.81% 0.25% 12 9,004 0.13% 0.04% 20 744 2.69% 1.30% | 0 720 0.00% 0.21% 0 8,712 0.00% 0.03% 9 720 1.25% 1.29% | 0 744 0.00% 0.18% 0 8,968 0.00% 0.03% 0 744 0.00% 1.10% | 1 744 0.13% 0.17% 1 8,980 0.01% 0.03% 5 744 0.67% 1.05% | 4 720 0.56% 0.21% 9 8,701 0.10% 0.04% 10 720 1.39% 1.08% | 1 744 0.13% 0.21% 2 9,006 0.02% 0.03% 4 744 0.54% 1.03% | 0 721 0.00% 0.19% 0 8,712 0.00% 0.03% 8 721 1.11% 1.04% | 0 744 0.00% 0.17% 0 9,063 0.00% 0.03% 9 744 1.21% 1.05% |
| Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved Days to Correction * Avg. number of days to corrections | in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month in the month in the month year-to-date in the month | 2 744 0.27% 0.27% 5 8,983 0.06% 0.06% 4 744 0.54% 0.54% | 0 672 0.00% 0.14% 0 8,101 0.00% 0.03% 0 672 0.00% 0.28% | 1 743 0.13% 0.14% 1 9,026 0.01% 0.02% 6 743 0.81% 0.46% 2.00 | 0 720 0.00% 0.10% 0 8,745 0.00% 0.02% 17 720 2.36% 0.94% | 6 744 0.81% 0.25% 12 9,004 0.13% 0.04% 20 744 2.69% 1.30% | 0 720 0.00% 0.21% 0 8,712 0.00% 0.03% 9 720 1.25% 1.29% | 0 744 0.00% 0.18% 0 8,968 0.00% 0.03% 0 744 0.00% 1.10% | 1 744 0.13% 0.17% 1 8,980 0.01% 0.03% 5 744 0.67% 1.05% | 4 720 0.56% 0.21% 9 8,701 0.10% 0.04% 10 720 1.39% 1.08% | 1 744 0.13% 0.21% 2 9,006 0.02% 0.03% 4 744 0.54% 1.03% | 0 721 0.00% 0.19% 0 8,712 0.00% 0.03% 8 721 1.11% 1.04% | 0 744 0.00% 0.17% 0 9,063 0.00% 0.03% 9 744 1.21% 1.05% |
| Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved Yof hours reserved Days to Correction Avg. number of days to correction Avg. number of days to correction | in the month in the month year-to-date in the month in the month in the month year-to-date in the month year-to-date in the month | 2 744 0.27% 0.27% 5 8,983 0.06% 0.06% 4 744 0.54% 0.54% | 0 672 0.00% 0.14% 0 8,101 0.00% 0.03% 0 672 0.00% 0.28% | 1 743 0.13% 0.14% 1 9,026 0.01% 0.02% 6 743 0.81% 0.46% 2.00 | 0 720 0.00% 0.10% 0 8,745 0.00% 0.02% 17 720 2.36% 0.94% | 6 744 0.81% 0.25% 12 9,004 0.13% 0.04% 20 744 2.69% 1.30% | 0 720 0.00% 0.21% 0 8,712 0.00% 0.03% 9 720 1.25% 1.29% | 0 744 0.00% 0.18% 0 8,968 0.00% 0.03% 0 744 0.00% 1.10% | 1 744 0.13% 0.17% 1 8,980 0.01% 0.03% 5 744 0.67% 1.05% | 4 720 0.56% 0.21% 9 8,701 0.10% 0.04% 10 720 1.39% 1.08% | 1 744 0.13% 0.21% 2 9,006 0.02% 0.03% 4 744 0.54% 1.03% | 0 721 0.00% 0.19% 0 8,712 0.00% 0.03% 8 721 1.11% 1.04% | 0 744 0.00% 0.17% 0 9,063 0.00% 0.03% 9 744 1.21% 1.05% |
| Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved % of hours reserved Days to Correction Avg. number of days to correction Days Without Corrections | in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month in the month in the month year-to-date in the month year-to-date | 2 744 0.27% 0.27% 5 8,983 0.06% 0.06% 4 744 0.54% 0.54% | 0 672 0.00% 0.14% 0 8,101 0.00% 0.03% 0 672 0.00% 0.28% | 1 743 0.13% 0.14% 1 9,026 0.01% 0.02% 6 743 0.81% 0.46% 2.00 1.67 | 0 720 0.00% 0.10% 0 8,745 0.00% 0.02% 17 720 2.36% 0.94% 0.00 1.67 | 6 744 0.81% 0.25% 12 9,004 0.13% 0.04% 20 744 2.69% 1.30% 2.00 1.86 | 0 720 0.00% 0.21% 0 8,712 0.00% 0.03% 9 720 1.25% 1.29% | 0 744 0.00% 0.18% 0 8,968 0.00% 0.03% 0 744 0.00% 1.10% 0.00 1.86 | 1 744 0.13% 0.17% 1 8,980 0.01% 0.03% 5 744 0.67% 1.05% 0.00 1.63 | 4 720 0.56% 0.21% 9 8,701 0.10% 0.04% 10 720 1.39% 1.08% | 1 744 0.13% 0.21% 2 9,006 0.02% 0.03% 4 744 0.54% 1.03% 1.00 1.38 | 0 721 0.00% 0.19% 0 8,712 0.00% 0.03% 8 721 1.11% 1.04% 0.00 1.38 | 0 744 0.00% 0.17% 0 9,063 0.00% 0.03% 9 744 1.21% 1.05% 0.00 1.38 |

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









Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2018 Virtual Load Bid **Virtual Supply Bid Virtual Load Bid Virtual Supply Bid** Virtual Load Bid **Virtual Supply Bid** Not Not Not Not Not Not Date Scheduled Scheduled Scheduled Scheduled Date Scheduled Scheduled Scheduled Scheduled Date Scheduled Scheduled Scheduled Scheduled Zone Zone Zone MHK VL DUNWOD **WEST** Jan-18 4,761 4,241 1,938 427 Jan-18 763 456 2,040 266 Jan-18 1,795 1,509 2,215 620 Feb-18 3,058 1,941 1,478 603 Feb-18 512 130 1,910 269 Feb-18 742 658 5,891 824 Mar-18 7,263 2,535 860 659 Mar-18 569 139 1,896 309 Mar-18 1,367 755 3.530 487 3,433 926 393 1,986 470 Apr-18 1,781 1,047 2,395 333 Apr-18 8,154 Apr-18 670 173 516 3,242 2,052 440 May-18 7,658 4,266 478 May-18 413 95 758 May-18 1,933 183 Jun-18 7,003 4,102 760 681 Jun-18 440 100 3,697 603 Jun-18 2,261 258 2,023 515 Jul-18 6.144 4,151 894 795 Jul-18 740 152 3,340 393 Jul-18 3,884 685 2,764 566 Aug-18 Aug-18 Aug-18 Sep-18 Sep-18 Sep-18 Oct-18 Oct-18 Oct-18 Nov-18 Nov-18 Nov-18 Dec-18 Dec-18 Dec-18 GENESE 3,772 2,739 CAPITL N.Y.C. Jan-18 554 310 Jan-18 2,291 1,751 1,887 2,212 Jan-18 4,302 5,885 1,359 704 1.086 Feb-18 525 172 1.723 2,671 Feb-18 1.822 269 1,331 2.799 Feb-18 5,644 4,187 1.181 Mar-18 537 143 2,488 Mar-18 Mar-18 2,346 1,285 1,381 1,731 156 1,330 2,851 4,931 1,727 234 3,190 Apr-18 587 1,818 1,047 Apr-18 263 2,032 1,826 Apr-18 2,212 1,376 1,743 2,460 May-18 405 123 2,353 649 May-18 911 95 1,430 1,303 May-18 5,464 3,912 1,152 1,476 389 100 2,222 Jun-18 563 Jun-18 812 112 1,818 1,336 Jun-18 6,786 2,924 2,210 1,888 Jul-18 476 123 2,913 1,062 Jul-18 869 219 2,818 1,381 Jul-18 9,126 3,514 3,011 1,420 Aug-18 Aug-18 Aug-18 Sep-18 Sep-18 Sep-18 Oct-18 Oct-18 Oct-18 Nov-18 Nov-18 Nov-18 Dec-18 Dec-18 Dec-18 NORTH 274 8,259 HUD VL LONGIL Jan-18 282 3,265 Jan-18 1,562 1.285 5,029 7.218 Jan-18 3,335 3.714 1.932 1,622 Feb-18 352 369 7,449 2,777 2,591 3,061 2,605 Feb-18 888 740 4,703 8,761 Feb-18 2,800 Mar-18 249 367 6,995 2,136 Mar-18 845 1,098 5,169 10,837 Mar-18 3,613 3,021 3,308 1,768 1,848 189 7,479 639 973 9,863 2,505 Apr-18 269 Apr-18 5,990 Apr-18 4,649 3,620 1,620 215 79 4,717 773 539 3,727 11,304 5,128 2,420 1,436 2,031 May-18 6,001 May-18 May-18 317 Jun-18 Jun-18 514 5,178 3,657 1,408 573 4,144 8,407 Jun-18 4,621 2,235 1,618 2,440 Jul-18 428 423 5,684 2,542 Jul-18 2,796 550 3,087 5,200 Jul-18 4,610 3,179 1,278 2,775 Aug-18 Aug-18 Aug-18 Sep-18 Sep-18 Sep-18 Oct-18 Oct-18 Oct-18 Nov-18 Nov-18 Nov-18 Dec-18 Dec-18 Dec-18 CENTRL Jan-18 983 434 28,975 647 MILLWD Jan-18 923 988 2,033 757 **NYISO** Jan-18 21,542 20,854 59,437 20,478 Feb-18 595 215 28,161 483 Feb-18 486 337 1,284 1,197 Feb-18 17,423 11,608 58,172 24,075 Mar-18 1,977 208 26,643 Mar-18 720 141 1,144 421 Mar-18 21,217 13,494 53,984 23,855 614 Apr-18 22,490 466 1,753 334 677 Apr-18 526 1.031 163 Apr-18 23,821 13,330 50.864 19,613 May-18 May-18 1,033 221 21,769 470 790 140 1,050 188 May-18 24,723 12,074 44,726 23,814 Jun-18 730 164 28,504 501 Jun-18 938 302 1,223 234 Jun-18 25,903 11,189 53,397 20,825 Jul-18 1,093 273 27,687 1,193 1,051 358 31,359 14,319 54,416 17,027 534 Jul-18 940 Jul-18 Aug-18 Aug-18 Aug-18 Sep-18 Sep-18 Sep-18 Oct-18 Oct-18 Oct-18

Nov-18

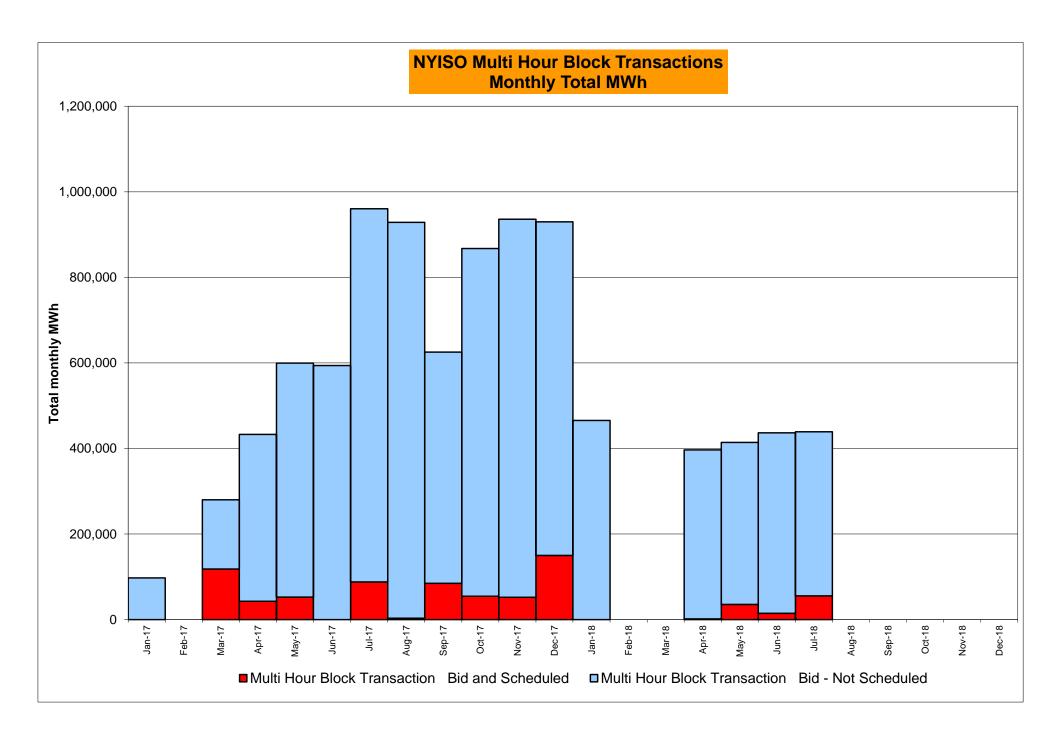
Dec-18

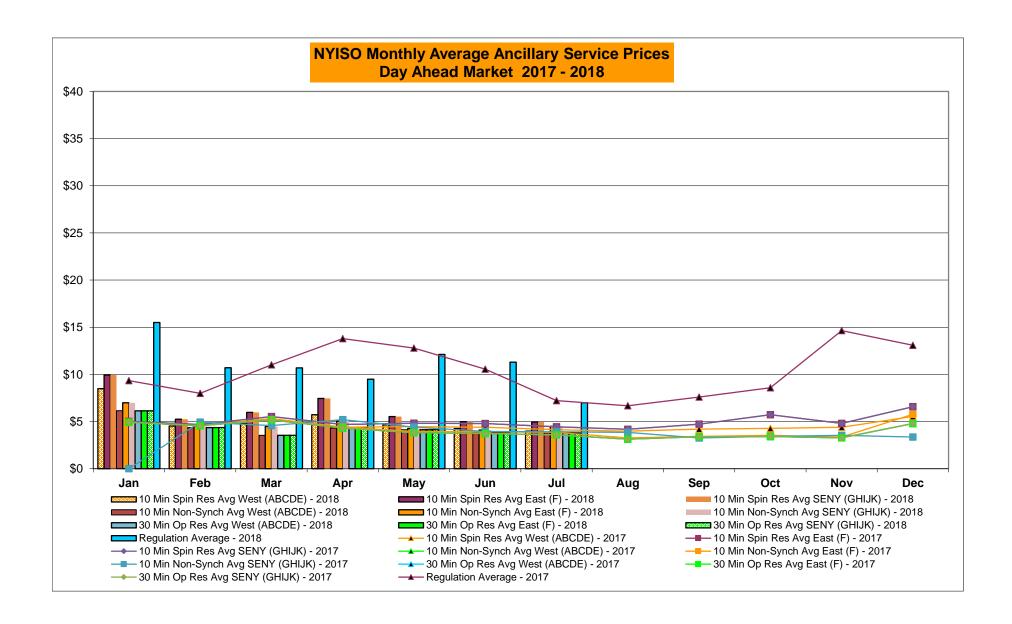
Nov-18

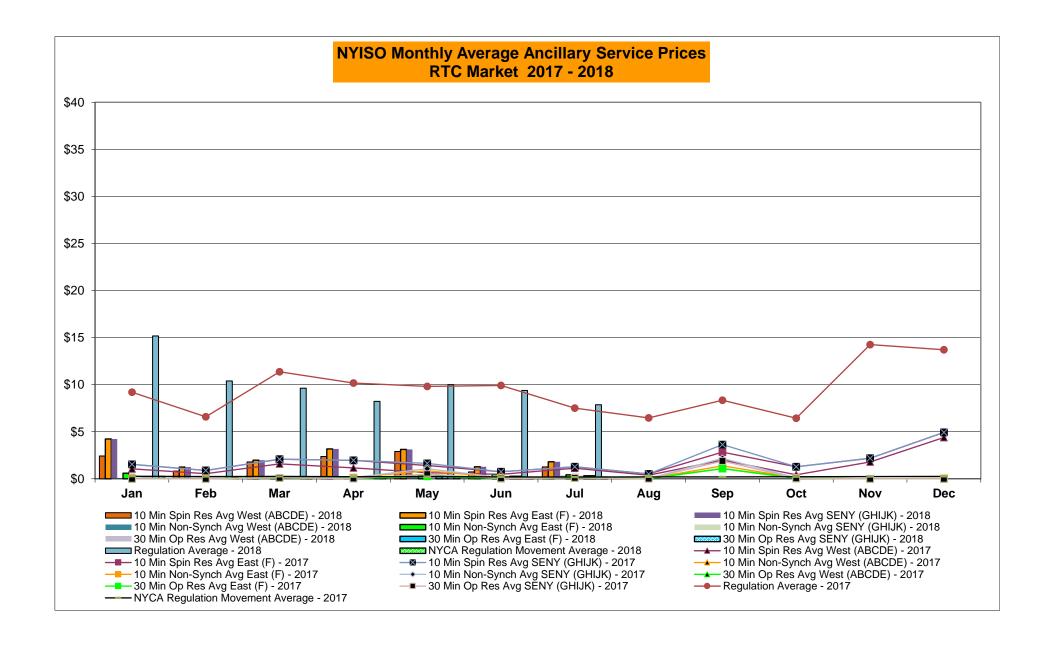
Dec-18

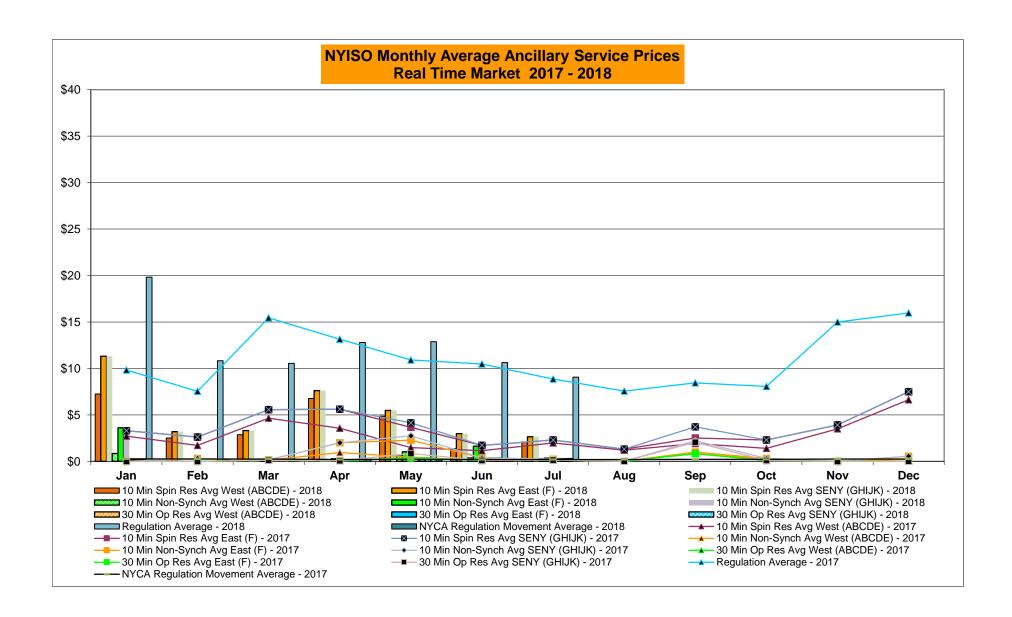
Nov-18

Dec-18





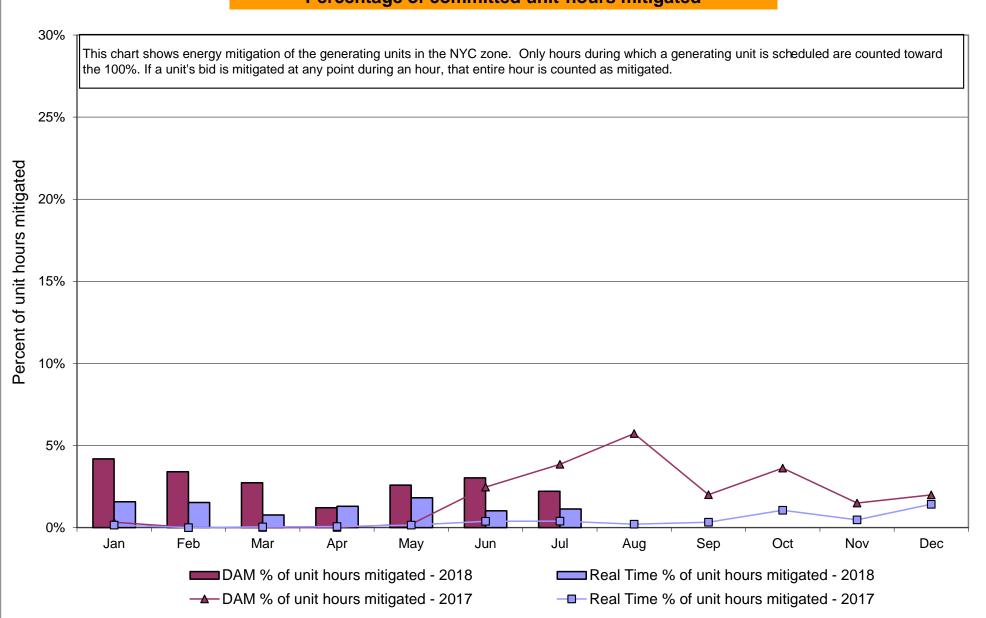


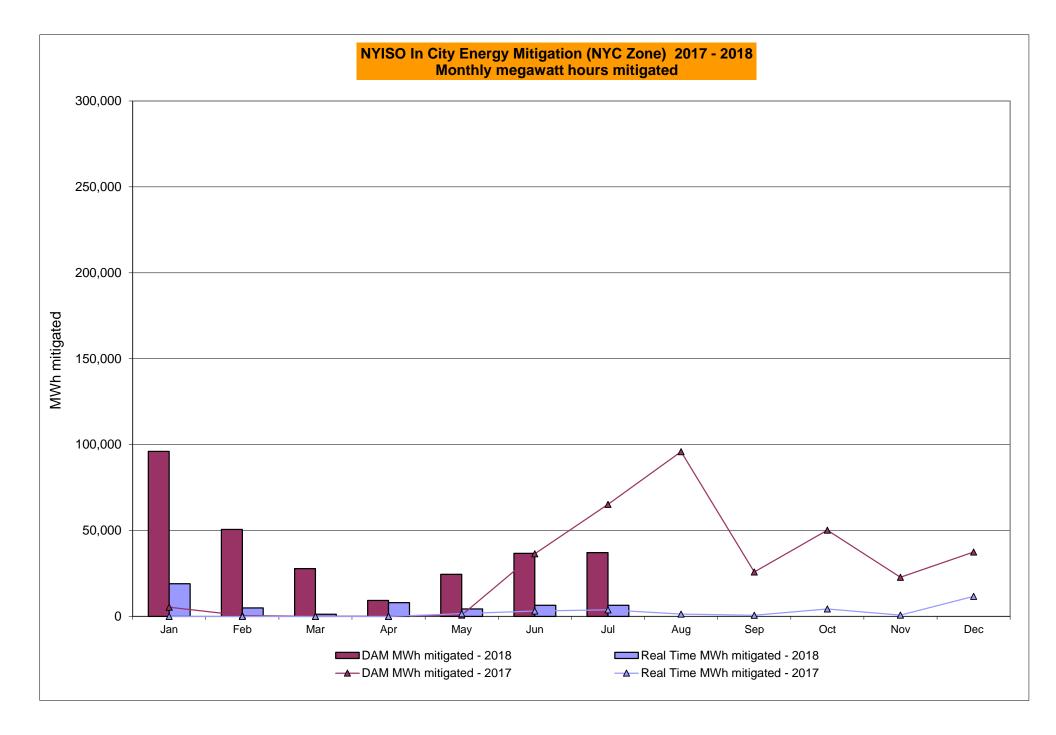


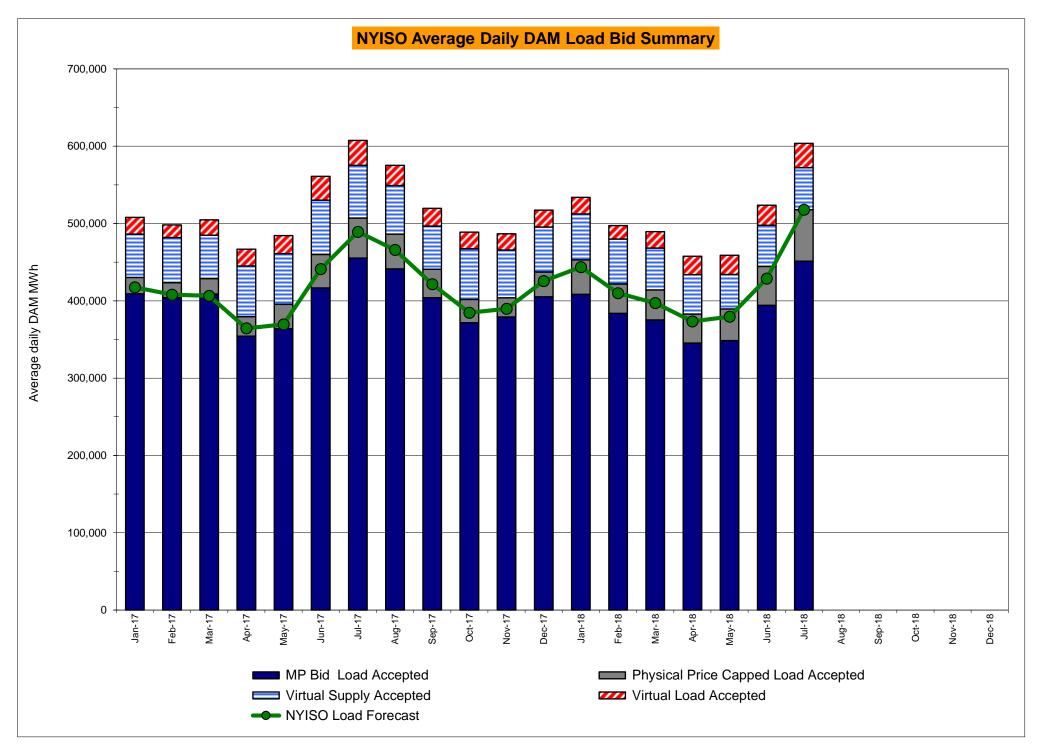
NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH)

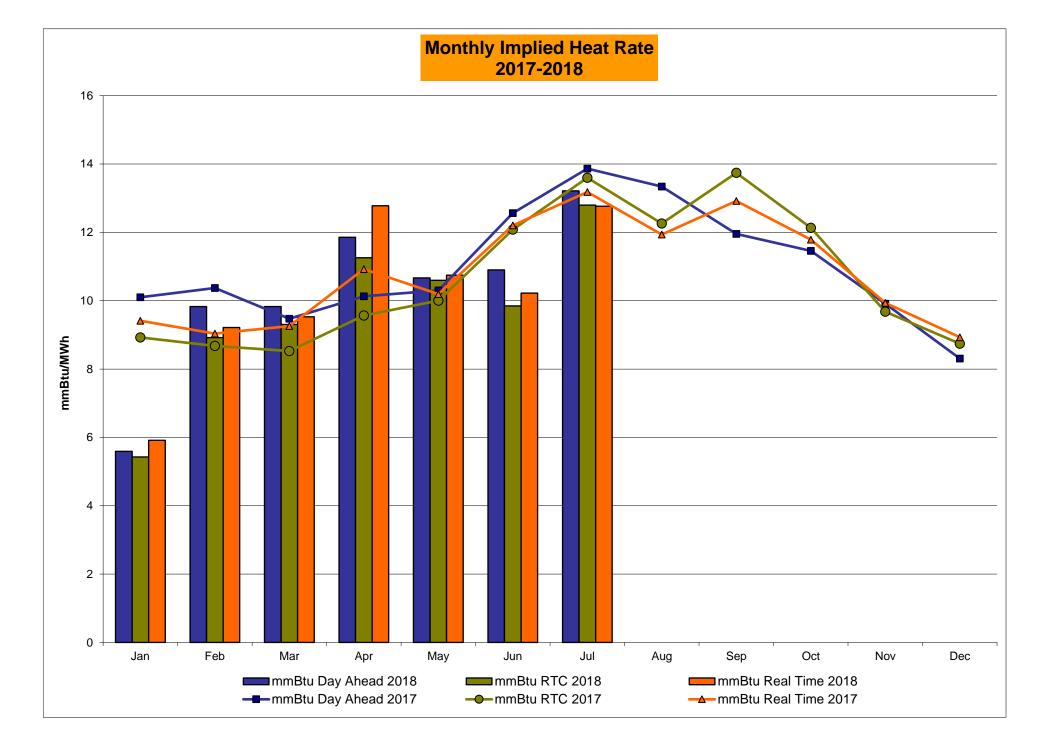
| | NYISO W | <u>iarkets A</u> | nciliary s | <u>services</u> | <u>Statistic</u> | <u>s - Unwe</u> | <u>igntea F</u> | rice (\$/ | <u>IVI VV H)</u> | | | |
|---|--|--|--|--|--|--|--|---|--|--|--|---|
| <u>2018</u> | <u>January</u> | <u>February</u> | <u>March</u> | <u>April</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>August</u> | September | October | November | December |
| Day Ahead Market | <u></u> | <u> </u> | | | <u></u> | <u> </u> | <u>=,</u> | <u></u> - | <u></u> | | | |
| 10 Min Spin SENY (GHIJK) | 9.93 | 5.24 | 5.97 | 7.45 | 5.52 | 4.98 | 4.95 | | | | | |
| 10 Min Spin East (F) | 9.93 | 5.24 | 5.97 | 7.45 | 5.52 | 4.98 | 4.95 | | | | | |
| 10 Min Spin West (ABCDE) | 8.49 | 4.53 | 4.78 | 5.73 | 4.65 | 4.26 | 3.98 | | | | | |
| 10 Min Non Synch SENY (GHIJK) | 6.99 | 4.54 | 4.48 | 5.05 | 4.26 | 4.09 | 4.49 | | | | | |
| 10 Min Non Synch East (F) | 6.99 | 4.54 | 4.48 | 5.05 | 4.26 | 4.09 | 4.49 | | | | | |
| 10 Min Non Synch West (ABCDE) | 6.15 | 4.36 | 3.54 | 4.31 | 4.13 | 3.85 | 3.80 | | | | | |
| 30 Min SENY (GHIJK) | 6.14 | 4.36 | 3.54 | 4.31 | 4.13 | 3.85 | 3.79 | | | | | |
| 30 Min East (F) | 6.14 | 4.36 | 3.54 | 4.31 | 4.13 | 3.85 | 3.79 | | | | | |
| 30 Min West (ABCDE) | 6.14 | 4.36 | 3.54 | 4.31 | 4.13 | 3.85 | 3.79 | | | | | |
| Regulation | 15.51 | 10.70 | 10.68 | 9.49 | 12.11 | 11.30 | 6.99 | | | | | |
| RTC Market | | | | | | | | | | | | |
| 10 Min Spin SENY (GHIJK) | 4.23 | 1.24 | 1.98 | 3.17 | 3.13 | 1.28 | 1.81 | | | | | |
| 10 Min Spin East (F) | 4.23 | 1.24 | 1.98 | 3.17 | 3.13 | 1.28 | 1.81 | | | | | |
| 10 Min Spin West (ABCDE) | 2.43 | 0.82 | 1.79 | 2.38 | 2.91 | 0.74 | 1.27 | | | | | |
| 10 Min Non Synch SENY (GHIJK) | 0.59 | 0.03 | 0.01 | 0.22 | 0.42 | 0.49 | 0.42 | | | | | |
| 10 Min Non Synch East (F) | 0.59 | 0.03 | 0.01 | 0.22 | 0.42 | 0.49 | 0.42 | | | | | |
| 10 Min Non Synch West (ABCDE) | 0.08 | 0.02 | 0.00 | 0.00 | 0.33 | 0.27 | 0.33 | | | | | |
| 30 Min SENY (GHIJK) | 0.08 | 0.02 | 0.00 | 0.00 | 0.32 | 0.27 | 0.33 | | | | | |
| 30 Min East (F) | 0.08 | 0.02 | 0.00 | 0.00 | 0.32 | 0.27 | 0.33 | | | | | |
| 30 Min West (ABCDE) | 0.08 | 0.02 | 0.00 | 0.00 | 0.32 | 0.27 | 0.33 | | | | | |
| Regulation | 15.17 | 10.40 | 9.63 | 8.22 | 10.01 | 9.39 | 7.87 | | | | | |
| NYCA Regulation Movement | 0.26 | 0.21 | 0.20 | 0.22 | 0.19 | 0.16 | 0.19 | | | | | |
| Real Time Market | | | | | | | | | | | | |
| 10 Min Spin SENY (GHIJK) | 11.31 | 3.19 | 3.31 | 7.62 | 5.48 | 2.98 | 2.65 | | | | | |
| 10 Min Spin East (F) | 11.31 | 3.19 | 3.31 | 7.62 | 5.48 | 2.98 | 2.65 | | | | | |
| 10 Min Spin West (ABCDE) | 7.24 | 2.52 | 2.86 | 6.77 | 4.86 | 1.37 | 2.10 | | | | | |
| 10 Min Non Synch SENY (GHIJK) | 3.61 | 0.01 | 0.19 | 0.28 | 1.03 | 1.63 | 0.35 | | | | | |
| 10 Min Non Synch East (F) | 3.61 | 0.01 | 0.19 | 0.28 | 1.03 | 1.63 | 0.35 | | | | | |
| 10 Min Non Synch West (ABCDE) | 0.85 | 0.00 | 0.00 | 0.00 | 0.57 | 0.37 | 0.29 | | | | | |
| 30 Min SENY (GHIJK) | 0.13 | 0.00 | 0.00 | 0.00 | 0.37 | 0.37 | 0.29 | | | | | |
| 30 Min East (F) | 0.13 | 0.00 | 0.00 | 0.00 | 0.37 | 0.37 | 0.29 | | | | | |
| 30 Min West (ABCDE) | 0.13 | 0.00 | 0.00 | 0.00 | 0.37 | 0.37 | 0.29 | | | | | |
| Regulation | 19.82 | 10.82 | 10.54 | 12.80 | 12.88 | 10.62 | 9.06 | | | | | |
| NYCA Regulation Movement | 0.24 | 0.21 | 0.20 | 0.21 | 0.17 | 0.15 | 0.18 | | | | | |
| | | | | | | | | | | | | |
| 2017 | | | | April | May | | | August | Sentember | October | November | December |
| 2017 Day Ahead Market | <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> | October | November | <u>December</u> |
| Day Ahead Market | <u>January</u> | <u>February</u> | <u>March</u> | | | <u>June</u> | July | | | | | |
| <u>Day Ahead Market</u> 10 Min Spin SENY (GHIJK) | <u>January</u> 5.01 | February 5.38 | <u>March</u> 5.04 | 6.31 | 4.93 | <u>June</u> 4.62 | <u>July</u> 6.41 | 7.12 | 5.57 | 5.37 | 4.83 | 4.89 |
| Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) | <u>January</u> 5.01 5.01 | <u>February</u> 5.38 5.38 | <u>March</u> 5.04 5.04 | 6.31 6.31 | 4.93 4.93 | <u>June</u> 4.62 4.62 | <u>July</u> 6.41 6.41 | 7.12 7.12 | 5.57 5.57 | 5.37 5.37 | 4.83 4.83 | 4.89 4.89 |
| Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) | <u>January</u> 5.01 5.01 4.94 | February 5.38 5.38 5.25 | March 5.04 5.04 4.84 | 6.31 6.31 5.60 | 4.93 4.93 4.77 | June 4.62 4.62 4.52 | <u>July</u> 6.41 6.41 5.78 | 7.12 7.12 6.20 | 5.57 5.57 5.14 | 5.37 5.37 4.89 | 4.83 4.83 4.50 | 4.89 4.89 4.73 |
| Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) | <u>January</u> 5.01 5.01 4.94 4.94 | <u>February</u> 5.38 5.38 5.25 5.25 | March 5.04 5.04 4.84 4.88 | 6.31 6.31 5.60 5.80 | 4.93 4.93 4.77 4.83 | June 4.62 4.62 4.52 4.36 | <u>July</u> 6.41 6.41 5.78 6.34 | 7.12 7.12 6.20 7.07 | 5.57 5.57 5.14 5.52 | 5.37 5.37 4.89 5.09 | 4.83 4.83 4.50 4.43 | 4.89 4.89 4.73 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) | January 5.01 5.01 4.94 4.94 4.94 | 5.38 5.38 5.25 5.25 5.25 | 5.04 5.04 4.84 4.88 4.88 | 6.31 6.31 5.60 5.80 5.80 | 4.93 4.93 4.77 4.83 4.83 | June 4.62 4.62 4.52 4.36 4.36 | July 6.41 6.41 5.78 6.34 6.34 | 7.12 7.12 6.20 7.07 7.07 | 5.57 5.57 5.14 5.52 5.52 | 5.37 5.37 4.89 5.09 5.09 | 4.83 4.83 4.50 4.43 4.43 | 4.89 4.89 4.73 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) | January 5.01 5.01 4.94 4.94 4.94 4.92 | 5.38 5.38 5.25 5.25 5.25 5.25 5.20 | 5.04 5.04 4.84 4.88 4.88 4.88 | 6.31 6.31 5.60 5.80 5.80 5.58 | 4.93 4.93 4.77 4.83 4.83 4.68 | June 4.62 4.62 4.52 4.36 4.36 4.32 | July 6.41 6.41 5.78 6.34 6.34 5.72 | 7.12 7.12 6.20 7.07 | 5.57 5.57 5.14 5.52 | 5.37 5.37 4.89 5.09 5.09 4.82 | 4.83 4.83 4.50 4.43 4.43 4.39 | 4.89 4.89 4.73 4.49 4.49 4.43 |
| 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) | January 5.01 5.01 4.94 4.94 4.94 | 5.38 5.38 5.25 5.25 5.25 | 5.04 5.04 4.84 4.88 4.88 | 6.31 6.31 5.60 5.80 5.80 | 4.93 4.93 4.77 4.83 4.83 | June 4.62 4.62 4.52 4.36 4.36 | July 6.41 6.41 5.78 6.34 6.34 | 7.12 7.12 6.20 7.07 7.07 6.15 | 5.57 5.57 5.14 5.52 5.52 5.10 | 5.37 5.37 4.89 5.09 5.09 | 4.83 4.83 4.50 4.43 4.43 | 4.89 4.89 4.73 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) 30 Min SENY (GHIJK) | January 5.01 5.01 4.94 4.94 4.92 4.92 | 5.38 5.38 5.25 5.25 5.25 5.20 5.20 | 5.04 5.04 4.84 4.88 4.88 4.84 4.84 | 6.31 6.31 5.60 5.80 5.80 5.58 | 4.93 4.93 4.77 4.83 4.83 4.68 4.67 | June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 | July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 | 7.12 7.12 6.20 7.07 7.07 6.15 6.15 | 5.57 5.57 5.14 5.52 5.52 5.10 5.10 | 5.37 5.37 4.89 5.09 5.09 4.82 4.82 | 4.83 4.83 4.50 4.43 4.43 4.39 4.39 | 4.89 4.89 4.73 4.49 4.49 4.43 |
| 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) | January 5.01 5.01 4.94 4.94 4.94 4.92 4.92 4.92 | 5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 | 5.04 5.04 4.84 4.88 4.88 4.84 4.84 | 6.31 6.31 5.60 5.80 5.80 5.58 5.58 | 4.93 4.93 4.77 4.83 4.83 4.68 4.67 | June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 | July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 | 7.12 7.12 6.20 7.07 7.07 6.15 6.15 | 5.57 5.57 5.14 5.52 5.52 5.10 5.10 | 5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 | 4.83 4.83 4.50 4.43 4.43 4.39 4.39 | 4.89 4.89 4.73 4.49 4.43 4.43 4.43 |
| Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation | 5.01 5.01 4.94 4.94 4.94 4.92 4.92 4.92 4.92 | 5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 5.20 | 5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 | 6.31 6.31 5.60 5.80 5.80 5.58 5.58 5.58 | 4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 | June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 | July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 | 7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 | 5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 | 5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 | 4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 | 4.89 4.89 4.73 4.49 4.43 4.43 4.43 4.43 |
| 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) | 5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 4.92 9.34 | 5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 | 5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 | 6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 | 4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 | June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 | July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 8.19 | 7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 | 5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 | 5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 | 4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 | 4.89 4.89 4.73 4.49 4.43 4.43 4.43 4.43 13.80 |
| 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) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market | 5.01 5.01 4.94 4.94 4.94 4.92 4.92 4.92 4.92 | 5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 5.20 | 5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 | 6.31 6.31 5.60 5.80 5.80 5.58 5.58 5.58 | 4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 6.11 | June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 | July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 | 7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 | 5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 | 5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 | 4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 | 4.89 4.89 4.73 4.49 4.43 4.43 4.43 4.43 |
| Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) | 5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 | 5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 | 5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 | 6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 | 4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 6.11 | June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 | July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 | 7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 8.61 | 5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 | 5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 | 4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 | 4.89 4.89 4.73 4.49 4.43 4.43 4.43 4.43 13.80 |
| 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) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) | January 5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 | 5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 | 5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 | 6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 | 4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 | June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 | July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 | 7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 | 5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 | 5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 0.99 | 4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 | 4.89 4.89 4.73 4.49 4.49 4.43 4.43 4.43 13.80 |
| 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) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) | 5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 | 5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 5.20 | 5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 | 6.31 6.31 5.60 5.80 5.58 5.58 5.58 7.93 | 4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 | June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 | July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 2.79 2.77 1.72 | 7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 | 5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 | 5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 9.57 | 4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 | 4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 |
| Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) | 5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 | 5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 | 5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 | 6.31 6.31 5.60 5.80 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 | 4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 6.11 0.43 0.43 0.23 0.05 | June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 | July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 | 7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 | 5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16 | 5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 9.57 | 4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 | 4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 |
| Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min 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) | 5.01 5.01 4.94 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 | 5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00 0.00 | 5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 | 6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 | 4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 | June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.04 | July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 | 7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 | 5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16 0.15 | 5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 9.57 0.99 0.99 0.29 0.09 0.09 0.08 | 4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 | 4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 |
| Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) | 5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 | 5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00 0.00 0.00 | 5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 | 6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 | 4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 | June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.04 0.02 | July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 | 7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 | 5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16 0.15 | 5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 9.57 0.99 0.99 0.29 0.09 0.09 0.08 0.08 | 4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 | 4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 |
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| Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) | 5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 9.21 | 5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15 | 6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 | 4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.05 0.04 0.04 0.04 0.04 5.43 | June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 0.02 | July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 | 7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 | 5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.15 0.15 0.15 5.52 | 5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 9.57 0.99 0.99 0.29 0.09 0.09 0.08 0.08 0.08 0.08 0.08 | 4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 7.00 | 4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00 |
| Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 30 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min East (F) | 5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 | 5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 | 5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 0.00 | 6.31 6.31 5.60 5.80 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 | 4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 | June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.04 0.02 0.02 0.02 0.02 0.02 | July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 | 7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 | 5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16 0.15 0.15 | 5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 9.57 0.99 0.99 0.29 0.09 0.09 0.08 0.08 | 4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 | 4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 |
| Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) | 5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 9.21 | 5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15 | 6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 | 4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.05 0.04 0.04 0.04 0.04 5.43 | June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 0.02 | July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 | 7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 | 5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.15 0.15 0.15 5.52 | 5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 9.57 0.99 0.99 0.29 0.09 0.09 0.08 0.08 0.08 0.08 0.08 | 4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 7.00 | 4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00 |
| Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) | 5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 9.21 0.27 | 5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15 0.20 | 6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.15 0.15 0.16 | 4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 5.43 0.25 | June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 1.43 | July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 | 7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24 | 5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16 0.15 0.15 5.52 0.24 | 5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.09 0.09 0.09 0.08 0.08 0.08 | 4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00 |
| Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ABCDE) 30 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min SENY (GHIJK) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) | 5.01 5.01 4.94 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 0.00 | 5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15 0.20 | 6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.15 0.16 | 4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 0.04 5.43 0.25 | June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 6.09 0.23 | July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 | 7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24 8.04 7.68 | 5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.15 0.15 0.15 5.52 0.24 | 5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.09 0.09 0.09 0.08 0.08 0.08 0.08 0.08 1.96 1.96 | 4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00 |
| Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min SENY (GHIJK) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) | 5.01 5.01 4.94 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 0.00 | 5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15 0.20 1.73 1.73 0.48 | 6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 | 4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 5.43 0.25 | June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.04 0.02 0.02 1.43 1.40 1.00 | July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 | 7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24 8.04 7.68 4.72 | 5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.16 0.15 0.15 0.15 5.52 0.24 | 5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.09 0.09 0.09 0.08 0.08 0.08 0.08 0.08 1.96 1.96 1.16 | 4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00 |
| Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ABCDE) 30 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) | 5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 0.00 | 5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15 0.20 1.73 1.73 0.48 0.22 | 6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.15 0.15 0.16 | 4.93 4.93 4.77 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 5.43 0.25 | June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 0.02 | July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 | 7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24 8.04 7.68 4.72 6.70 | 5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.15 0.15 5.52 0.24 1.59 1.59 0.90 0.59 | 5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.09 0.09 0.09 0.08 0.08 0.08 0.08 0.08 6.86 0.26 1.96 1.16 0.18 | 4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 4.89 4.89 4.73 4.49 4.43 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00 |
| Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min SENY (GHIJK) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) | 5.01 5.01 4.94 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 0.00 | 5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15 0.20 1.73 1.73 0.48 0.22 0.22 | 6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.15 0.15 0.16 0.16 0.16 0.17 0.25 0.18 0.18 0.19 | 4.93 4.93 4.77 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 5.43 0.25 | June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 0.02 | July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48 | 7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24 8.04 7.68 4.72 6.70 6.34 | 5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.15 0.15 0.15 5.52 0.24 1.59 0.90 0.59 | 5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 4.82 4.82 4.82 6.85 6.99 6.09 6.09 6.09 6.08 6.08 6.08 6.26 6.26 6.26 6.196 6.18 6.18 6.18 | 4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00 |
| Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ABCDE) 30 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 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 Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) | 5.01 5.01 4.94 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 0.00 | 5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15 0.20 1.73 1.73 0.48 0.22 0.22 0.00 | 6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.15 0.16 0.16 0.17 0.17 0.18 0.19 | 4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 5.43 0.25 1.19 1.19 0.79 0.06 0.06 0.03 | June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 0.02 | July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48 1.65 | 7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24 8.04 7.68 4.72 6.70 6.34 3.56 | 5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.15 0.15 0.15 5.52 0.24 1.59 1.59 0.59 0.59 0.21 | 5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 4.82 8.57 0.99 0.09 0.09 0.09 0.09 0.08 0.08 0.08 0.08 6.86 0.26 1.96 1.16 0.18 0.18 0.11 | 4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00 |
| Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ABCDE) 30 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch Beast (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) | 5.01 5.01 4.94 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 0.00 | 5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 5.20 | 5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15 0.20 1.73 1.73 0.48 0.22 0.22 0.00 0.00 0.00 | 6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.15 0.16 0.16 0.17 0.17 0.18 0.18 0.19 0.25 0.19 0.25 | 4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 5.43 0.25 1.19 1.19 0.79 0.06 0.03 0.03 | June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 6.09 0.23 1.43 1.40 1.00 0.15 0.11 0.04 0.07 | July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48 1.65 0.98 | 7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24 8.04 7.68 4.72 6.70 6.34 3.56 3.48 | 5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.15 0.15 0.15 5.52 0.24 1.59 1.59 0.90 0.59 0.21 0.21 | 5.37 5.37 4.89 5.09 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.09 0.09 0.09 0.09 0.08 0.08 0.08 0.08 0.08 0.08 1.96 1.16 0.18 0.11 0.11 | 4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 4.89 4.89 4.73 4.49 4.43 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00 |
| Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) | 5.01 5.01 4.94 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 0.00 | 5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15 0.20 1.73 1.73 1.73 0.48 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.0 | 6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.15 0.16 0.16 0.17 0.17 0.25 4.34 4.35 6.25 | 4.93 4.93 4.77 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 5.43 0.25 1.19 1.19 0.79 0.06 0.03 0.03 0.03 | June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 0.02 | July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48 1.65 0.98 0.97 | 7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24 8.04 7.68 4.72 6.70 6.34 3.56 3.48 3.12 | 5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.15 0.15 5.52 0.24 1.59 1.59 0.90 0.59 0.21 0.21 0.21 0.21 | 5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 4.82 8.57 0.99 0.09 0.09 0.09 0.08 0.08 0.08 0.08 0.08 0.26 1.96 1.16 0.18 0.11 0.11 | 4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 4.89 4.89 4.73 4.49 4.43 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00 |
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| Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) | 5.01 5.01 4.94 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 0.00 | 5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15 0.20 1.73 1.73 1.73 0.48 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.0 | 6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.15 0.16 0.16 0.17 0.17 0.25 4.34 4.35 6.25 | 4.93 4.93 4.77 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 5.43 0.25 1.19 1.19 0.79 0.06 0.03 0.03 0.03 | June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 0.02 | July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48 1.65 0.98 0.97 | 7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24 8.04 7.68 4.72 6.70 6.34 3.56 3.48 3.12 | 5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.15 0.15 5.52 0.24 1.59 1.59 0.90 0.59 0.21 0.21 0.21 0.21 | 5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 4.82 8.57 0.99 0.09 0.09 0.09 0.08 0.08 0.08 0.08 0.08 0.26 1.96 1.16 0.18 0.11 0.11 | 4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 4.89 4.89 4.73 4.49 4.43 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00 |

NYISO In City Energy Mitigation - AMP (NYC Zone) 2017 - 2018 Percentage of committed unit-hours mitigated

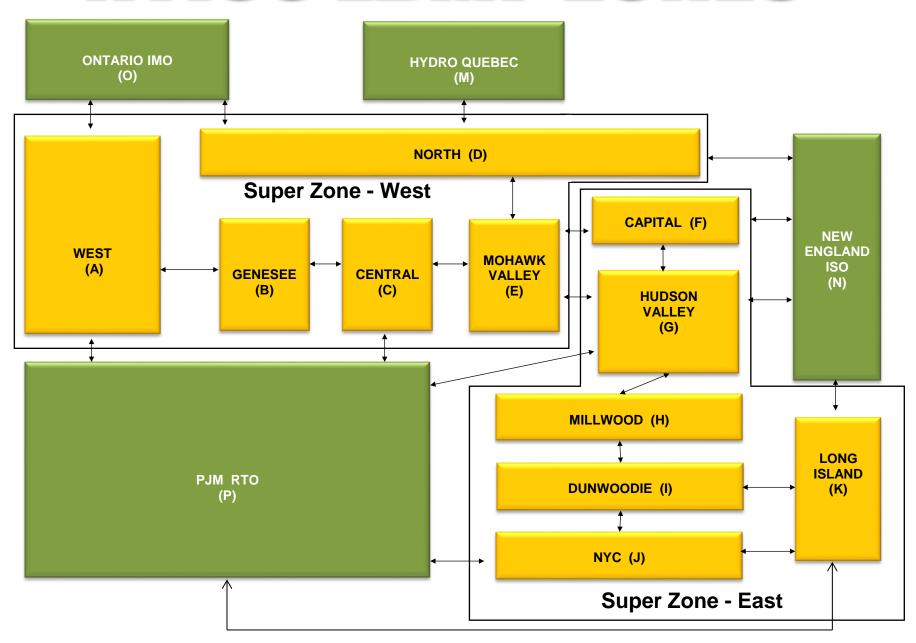








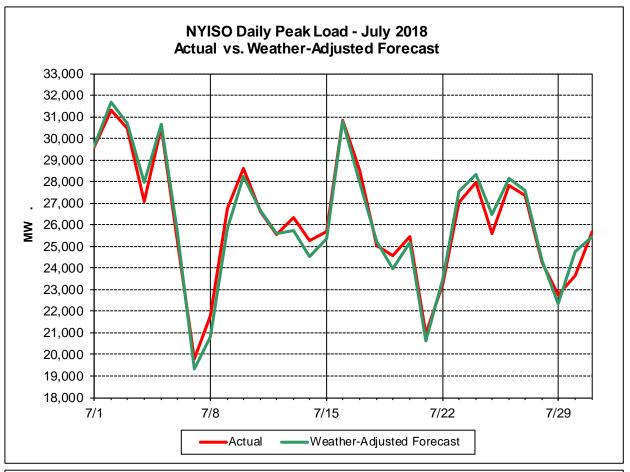
NYISO LBMP ZONES

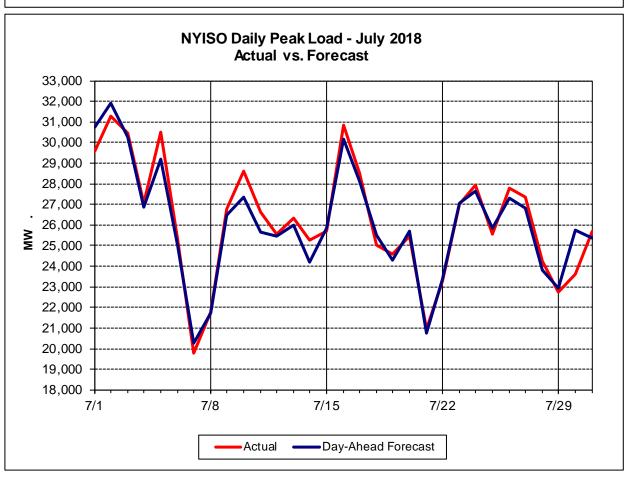


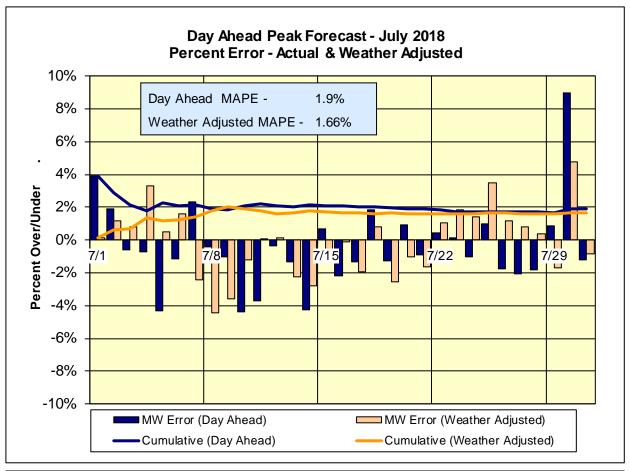
Billing Codes for Chart C

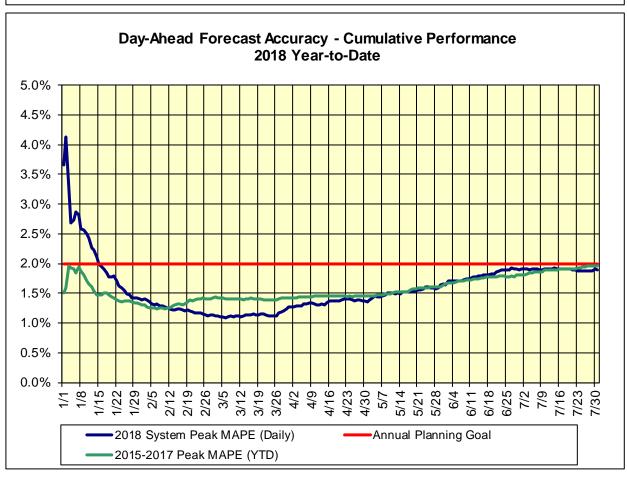
| Chart - C Category Name | Billing Code | Billing Category Name |
|---|---------------------|--|
| Bid Production Cost Guarantee Balancing | 81203 | Balancing NYISO Bid Production Cost Guarantee - Internal Units |
| Bid Production Cost Guarantee Balancing | 81204 | Balancing NYISO Bid Production Cost 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 |

Market Mitigation and Analysis Prepared: 8/7/2018 4:08 PM









Summary Description of Regulatory Filings, Investigations, Rulemakings and Related Orders in NYISO Matters – July 2018

| Rulelliakiligs and Related Orders III NTISO Matters – July 2010 | | | | | | | | | | | |
|---|--|----------------------------|---------------|---|--|--|--|--|--|--|--|
| Filing Date | Filing Summary | Docket | Order Date | Order Summary | | | | | | | |
| 05/22/2018 | NYISO 205 filing re: revisions to establish External to Rest of State Deliverability Rights. | ER18-1668-000 | 07/13/2018 | Order accepted revisions effective 07/22/2018, as requested | | | | | | | |
| 05/29/2018 | NYISO filing on behalf of Consolidated Edison Company re: a large generator interconnection agreement between Con Edison and Cogen Technologies Linden Ventures | ER18-1694-000 | 07/20/2018 | Order accepted amended and restated LGIA effective 05/30/2018, as requested | | | | | | | |
| 06/29/2018 | NYISO tariff waiver request re: requirement that the NYISO must make all transmission capacity not used to serve existing and valid TCCs and certain grandfathered transmission agreements available for sale in NYISO-administered TCC auctions | ER18-1889-000 | 7/25/2018 | Order granted tariff waiver of requested OATT Sections | | | | | | | |
| 07/11/2018 | NYISO and Niagara Mohawk Power Corporation ("National Grid") joint 205 filing re: amended and restated small generator interconnection agreement (SA No. 2219) among NYISO, National Grid and Monroe County | ER18-1994-000 | | | | | | | | | |
| 07/13/2018 | NYISO confidential filing to the NYPSC re: three-month Reliability Commitment Data Report for the period ending 06/30/2018 | PSC Matter No. 10-02007 | | | | | | | | | |
| 07/13/2018 | NYISO 205 filing re: amended and restated operating agreement (SA No. 2271) between NYISO and the NY Transco | ER18-2015-000 | | | | | | | | | |
| 07/13/2018 | NYISO filing to the NYPSC re: petition for authority to incur indebtedness for a term in excess of twelve months | PSC Matter No. 18-01642 | | | | | | | | | |
| 07/13/2018 | NYISO confidential filing to the NYPSC re:results from the Public Policy Requirement Study: Transmission Constrained Renewable Generation Pockets | PSC Matter No. 10-02007 | | | | | | | | | |
| 07/16/2018 | NYISO and Niagara Mohawk Power Corporation ("National Grid") joint 205 filing re: amended and restated large generator interconnection agreement (SA No. 2356) among NYISO, National Grid and Arkwright Summit Wind Farm LLC | ER18-2022-000 | | | | | | | | | |
| 07/17/2018 | NYISO supplement to the record re: clarify the 06/18/2018 refiling to correct the record, which amended the Commission's eTariff record for Section 20.2 of the OATT | ER13-102-015 | | | | | | | | | |
| 07/18/2018 | NYISO filing re: 2 nd Quarter 2018 EQR Report | ER02-2001-000 | | No order to be issued | | | | | | | |

| 07/20/2018 | NYISO 205 filing re: revisions to implement historic fixed price transmission congestion contract extensions | ER18-2048-000 | |
|------------|--|---------------|--|
| 07/27/2018 | NYISO filing on behalf of Niagara Mohawk Power Corporation re: notice of cancellation of a superseded interconnection agreement (SA No. 1755) between Niagara Mohawk and the Village of Ilion, NY | ER18-2071-000 | |