



# Monthly Report

June 2015

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# ***Operations Performance Metrics Monthly Report***



## ***June 2015 Report***

## **Operations & Reliability Department New York Independent System Operator**

Prepared by NYISO Operations Analysis and Services, based on settlements initial invoice data collected on or before July 9, 2015.

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## June 2015 Operations Performance Highlights

- Peak load of 28,100 MW occurred on 6/23/2015 HB 15
- All-time summer capability period peak load of 33,956 MW occurred on 7/19/2013 HB 16
- On June 22nd the NYISO declared the Alert State, operated in Thunderstorm Alert, and reduced power flows to 90% of ratings due to the K-9 intensity solar storm.
- 27 hours of Thunder Storm Alerts were declared
- 0 hours of NERC TLR level 3 curtailment
- The following table identifies the estimated production cost savings associated with the Broader Regional Market initiatives.

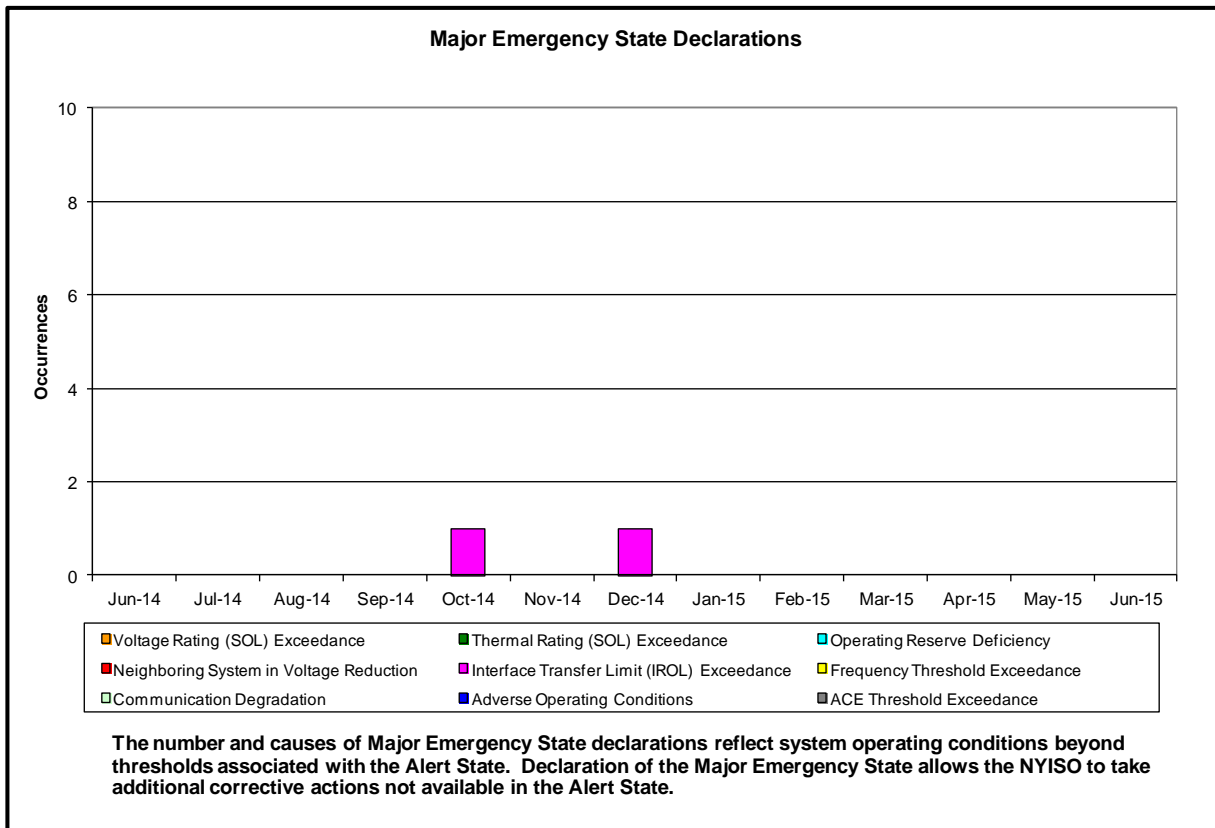
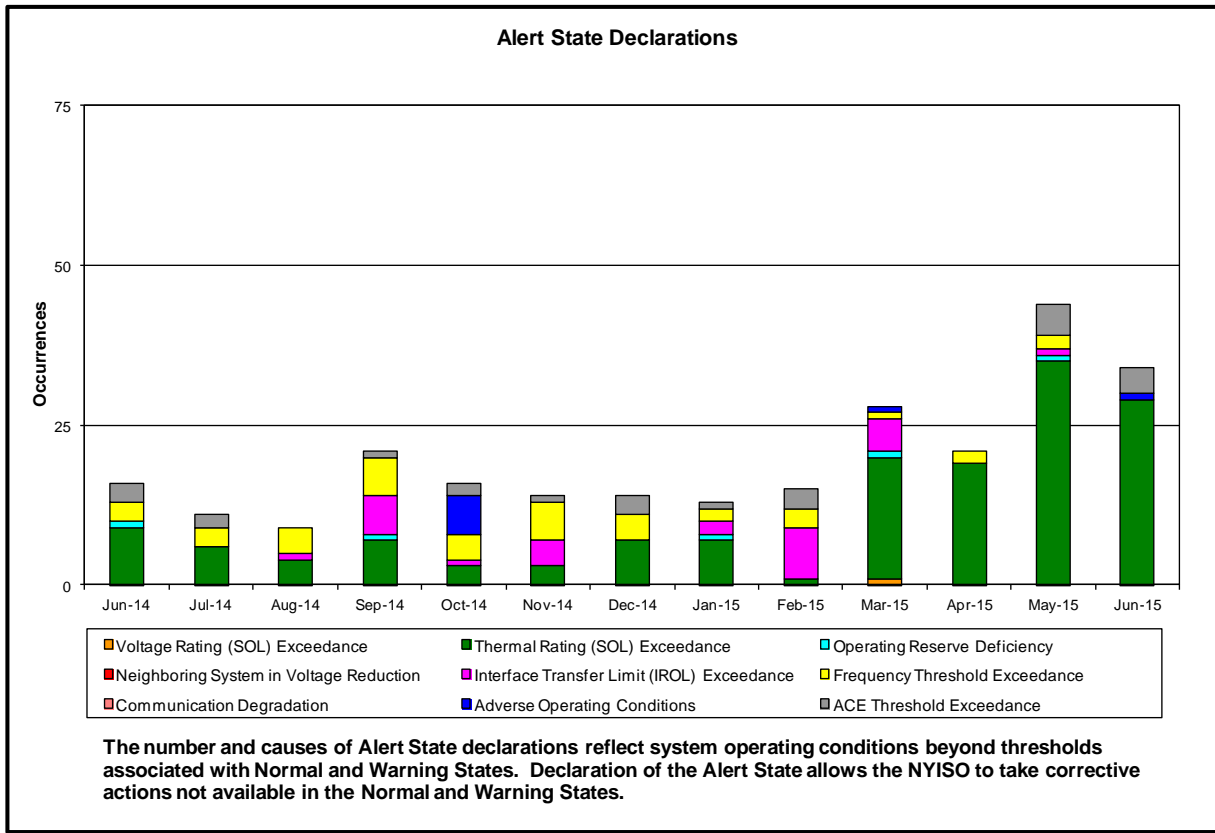
|   | Current Month Value (\$M) | Year-to-Date Value (\$M) |
|---|---------------------------|--------------------------|
| <b>Regional Congestion Coordination</b> | \$0.88                    | \$9.10                   |
| <b>Regional PJM-NY RT Scheduling</b>    | \$0.39                    | \$3.74                   |
| <b>Total</b>                            | \$1.27                    | \$12.84                  |

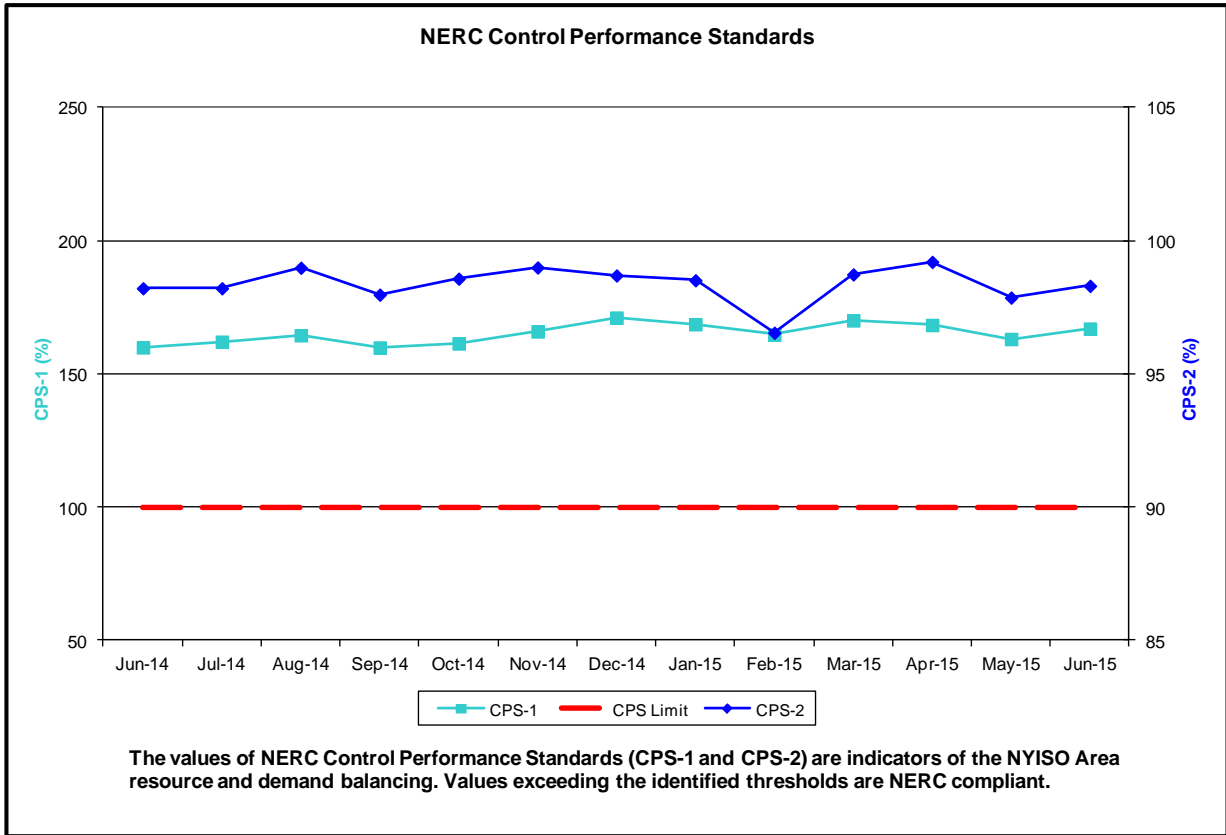
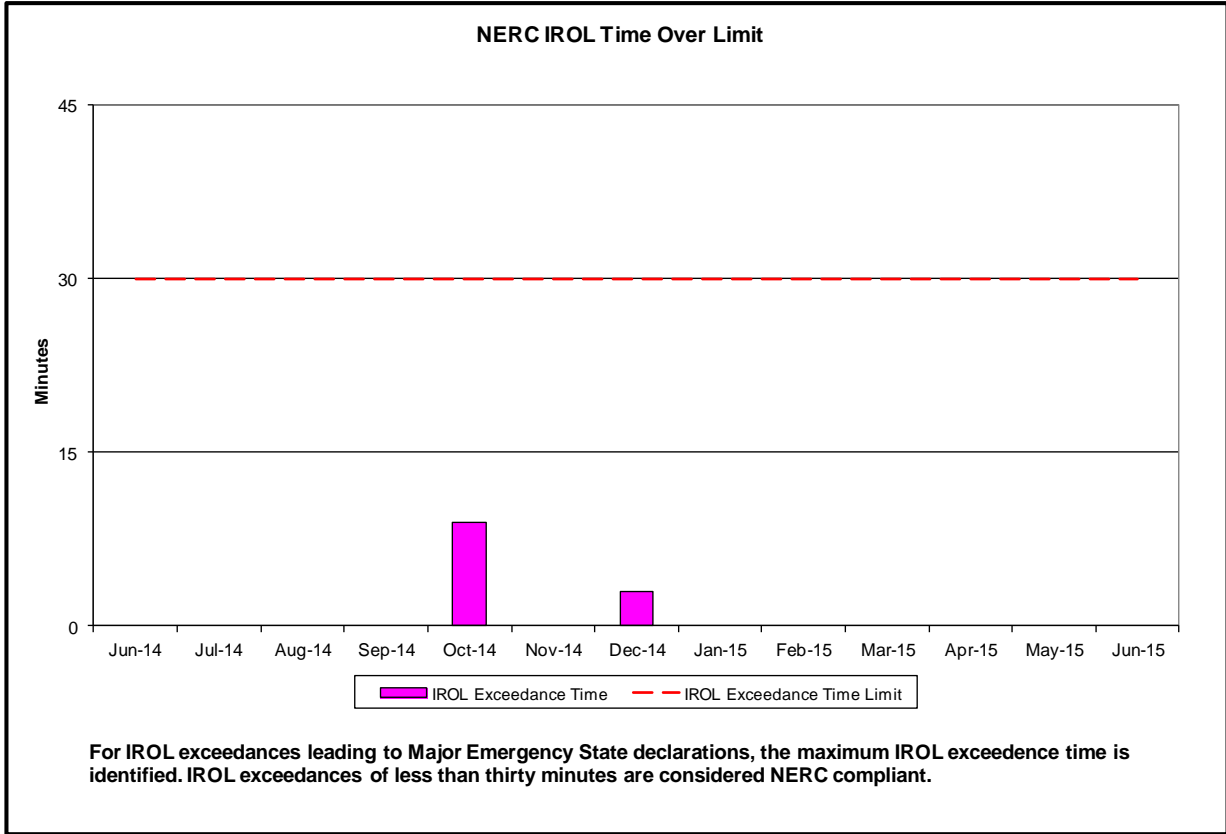
- Statewide uplift cost monthly average was **(\$0.03)/MWh**
- The following table identifies the Monthly ICAP spot market prices by locality and the price changes from the prior month.

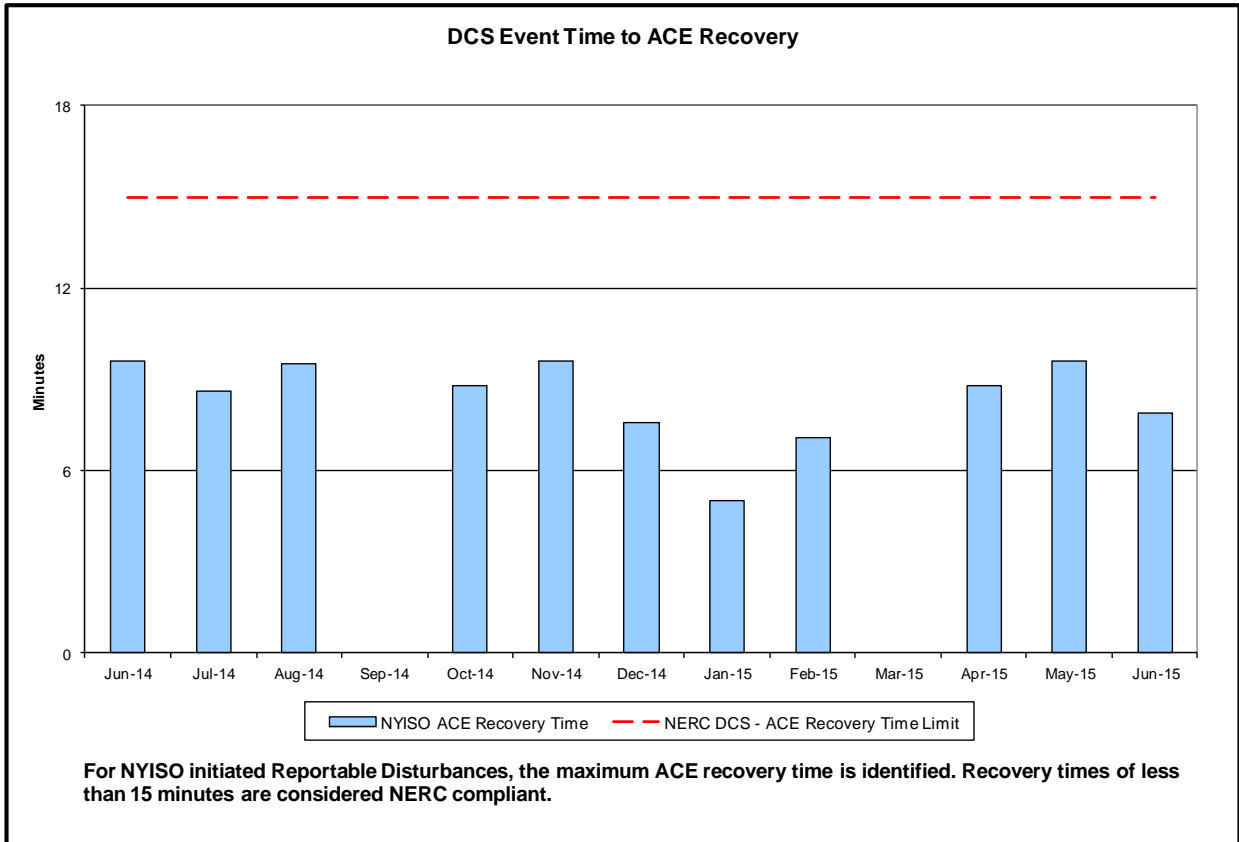
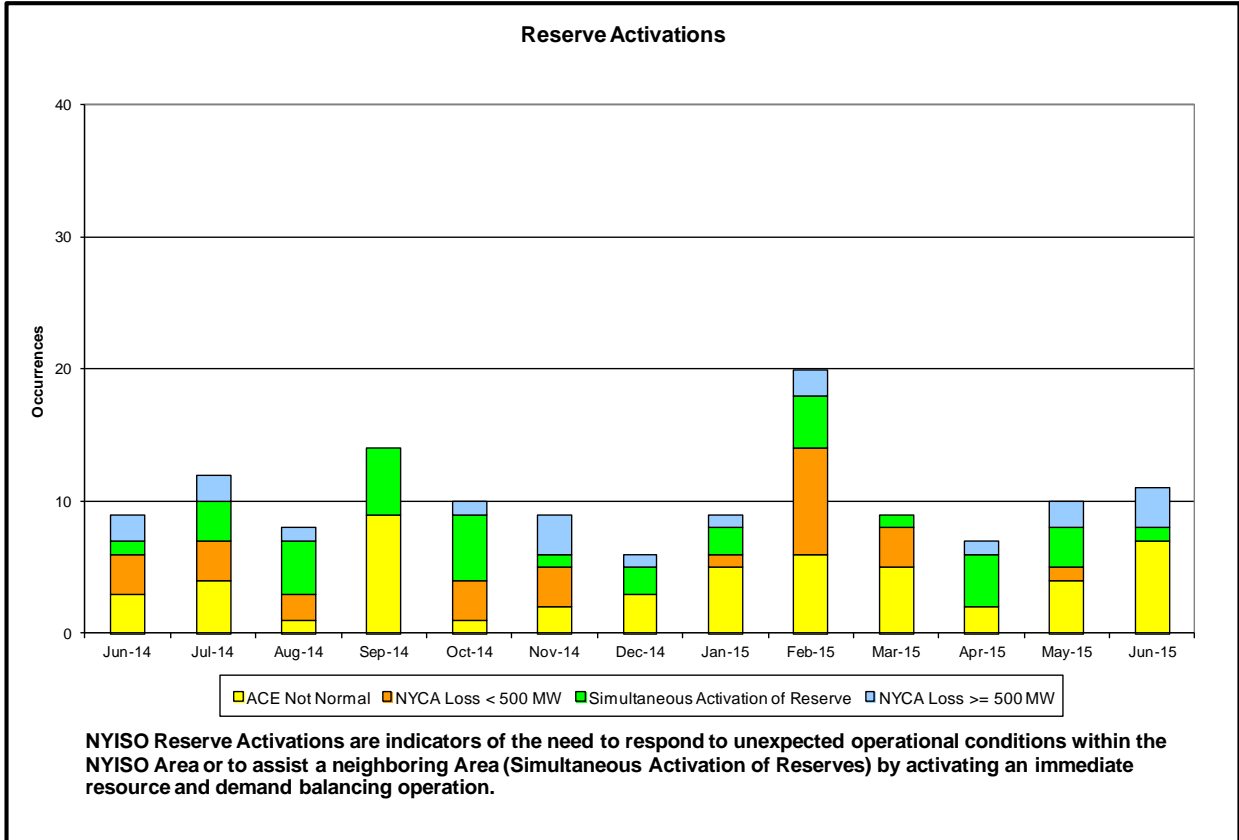
| Spot Auction Price Results | NYCA            | Lower Hudson Valley Zones | New York City Zone | Long Island Zone |
|----------------------------|-----------------|---------------------------|--------------------|------------------|
| July 2015 Spot Price       | \$3.98          | \$8.36                    | \$15.26            | \$5.77           |
| Change from Prior Month    | <b>(\$0.90)</b> | <b>(\$2.20)</b>           | <b>(\$0.15)</b>    | \$0.00           |

- NYCA - Price decreased by \$0.90 due primarily to a decrease in unoffered capacity and an increase in generation capacity.
- LHV - Price decreased by \$2.20 due primarily to a large increase in generation capacity.
- NYC - Price decreased by \$0.15 due to an increase in generation capacity.

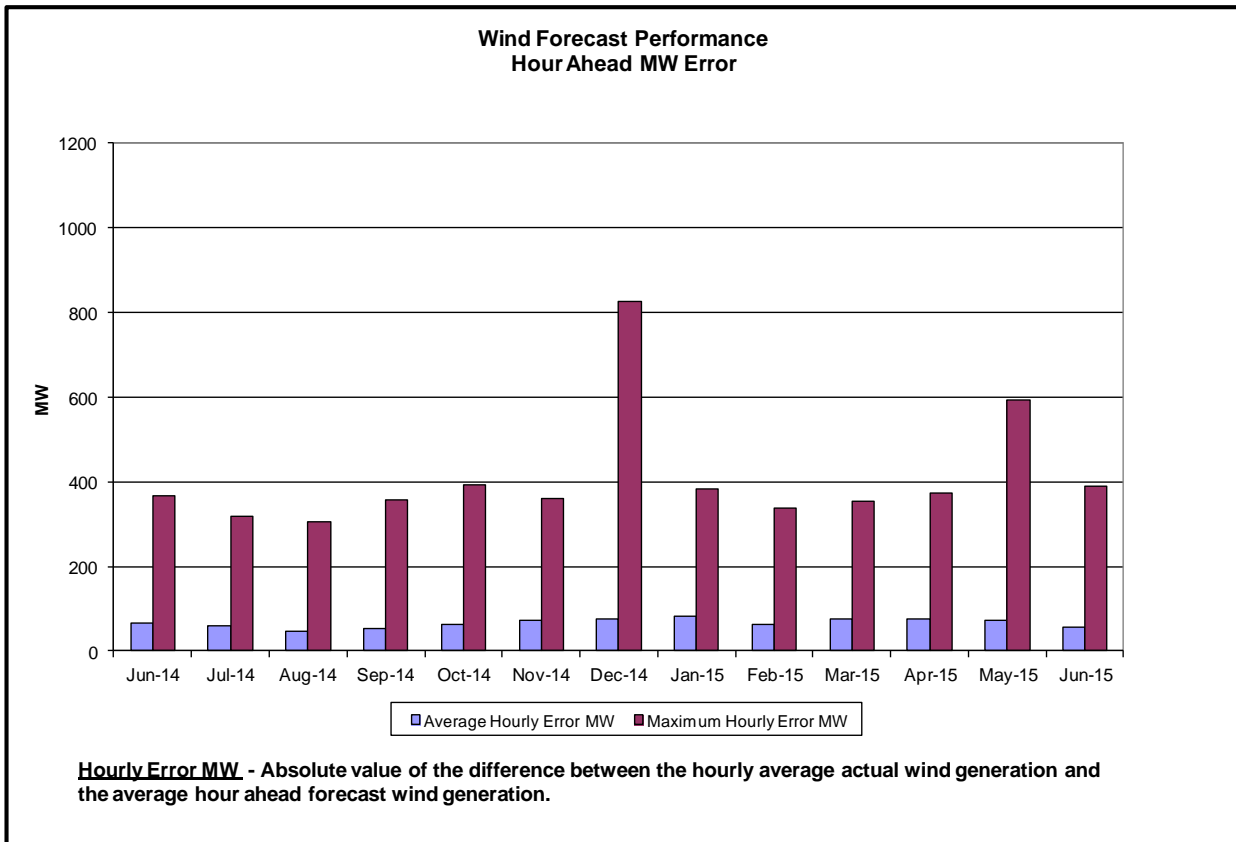
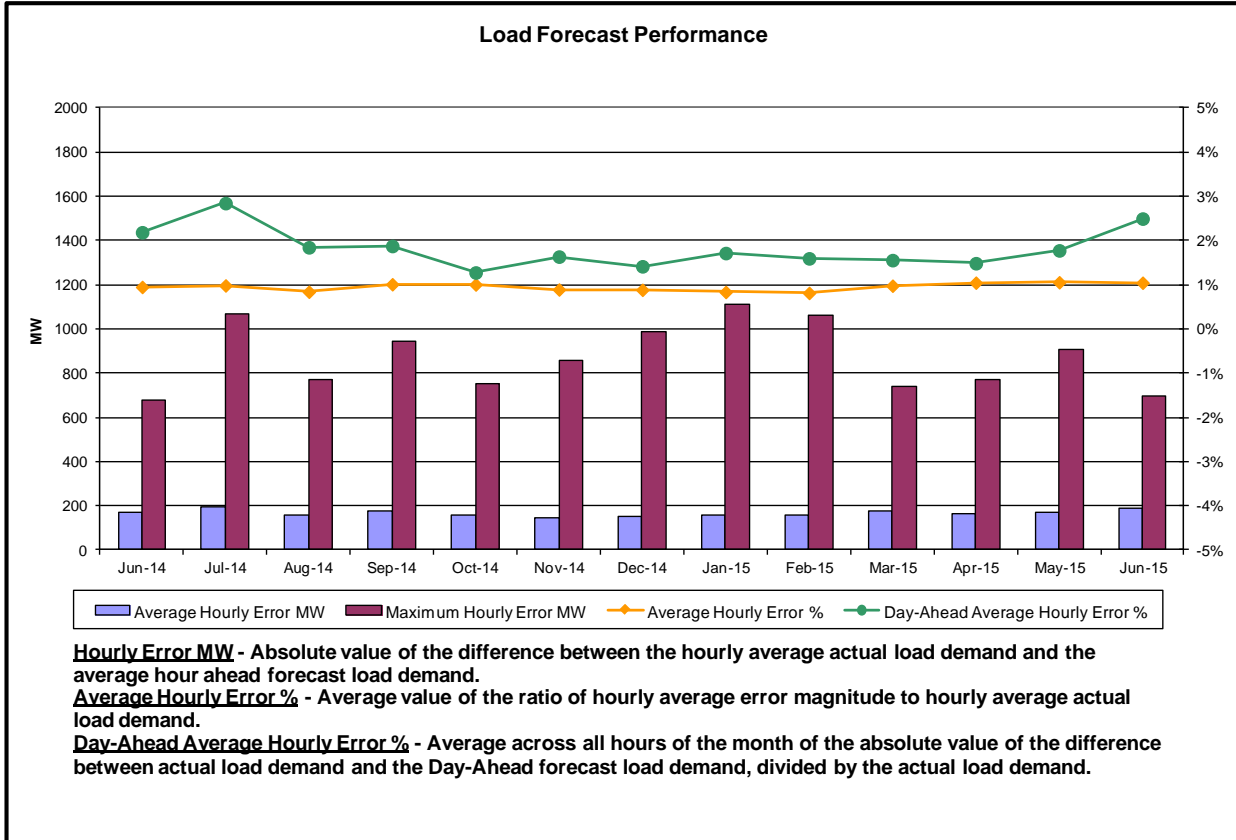
## Reliability Performance Metrics

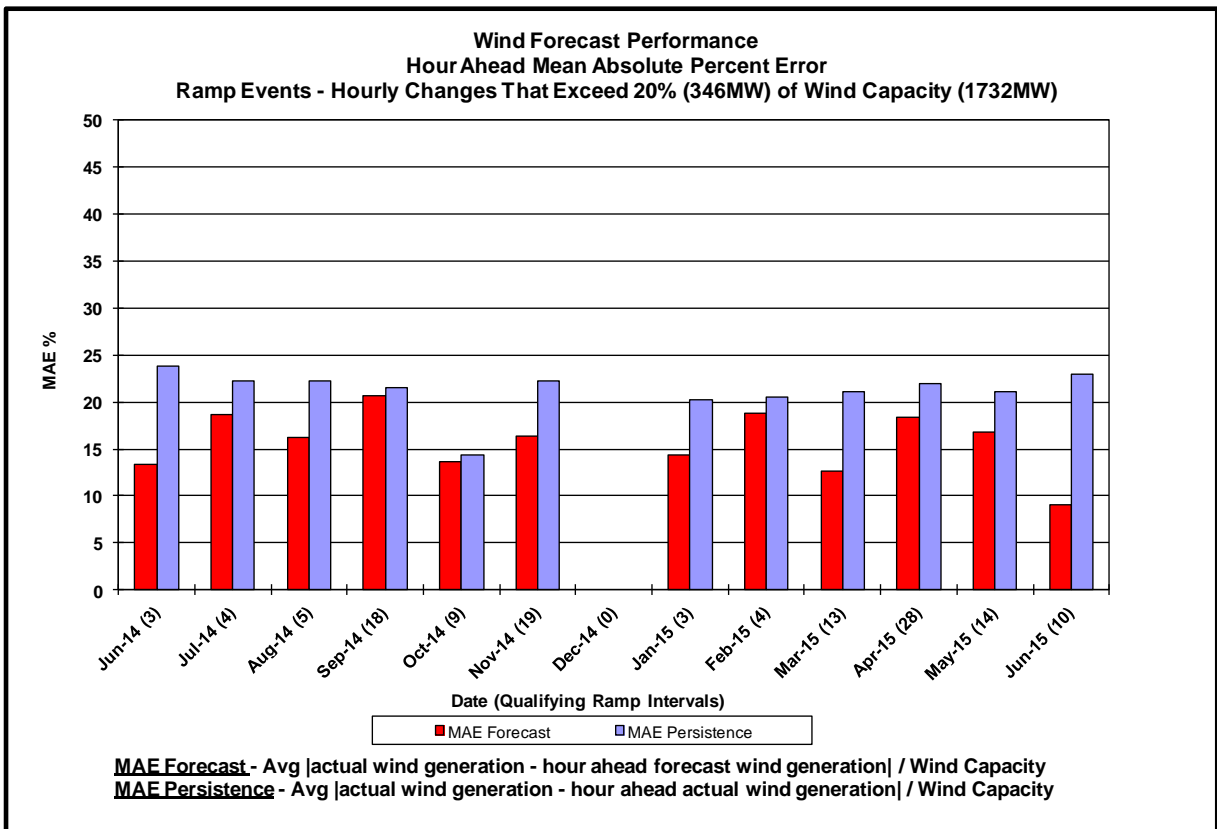
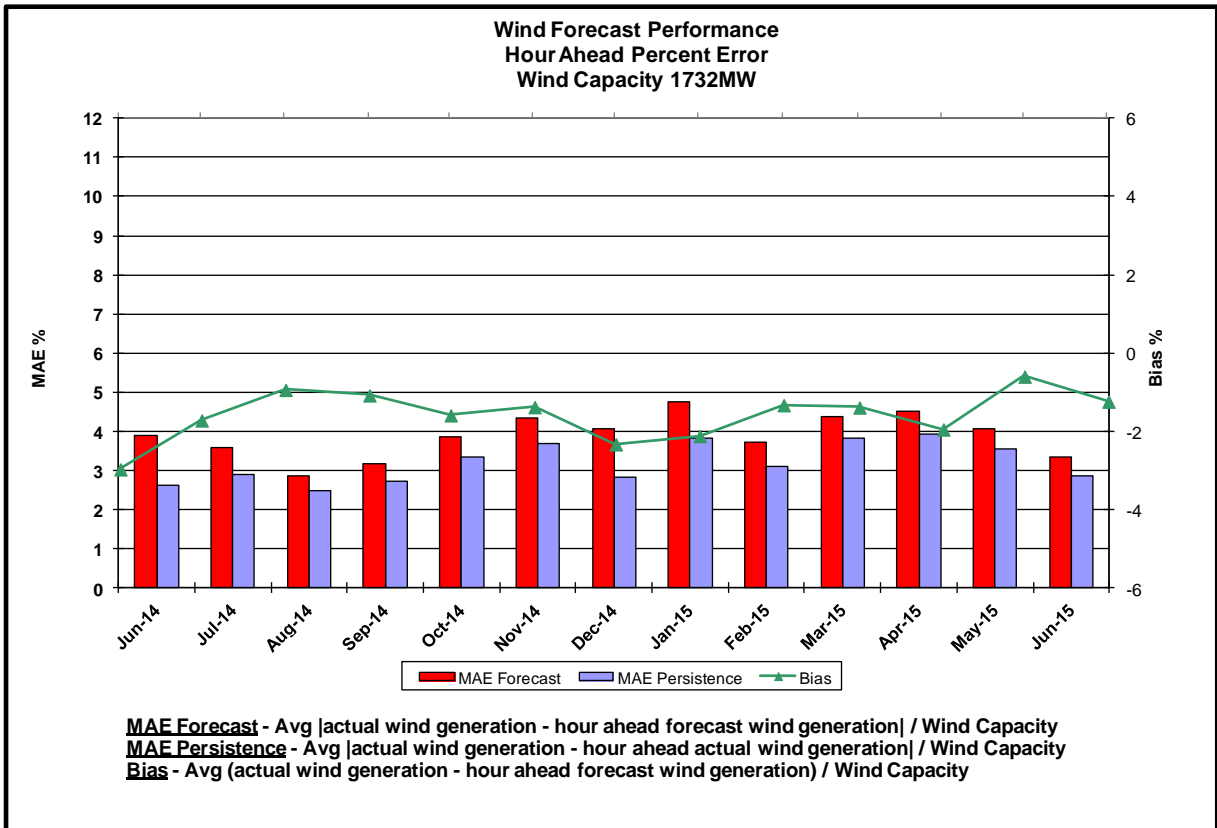


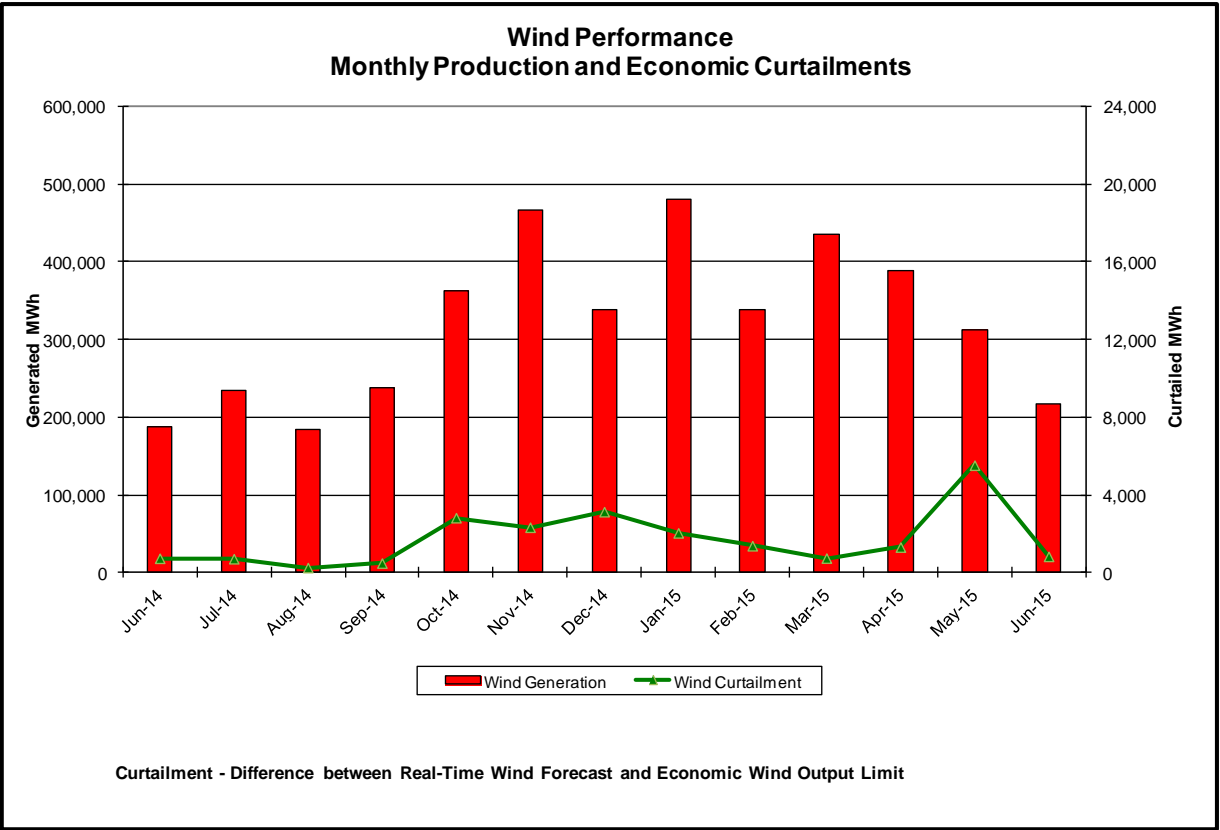
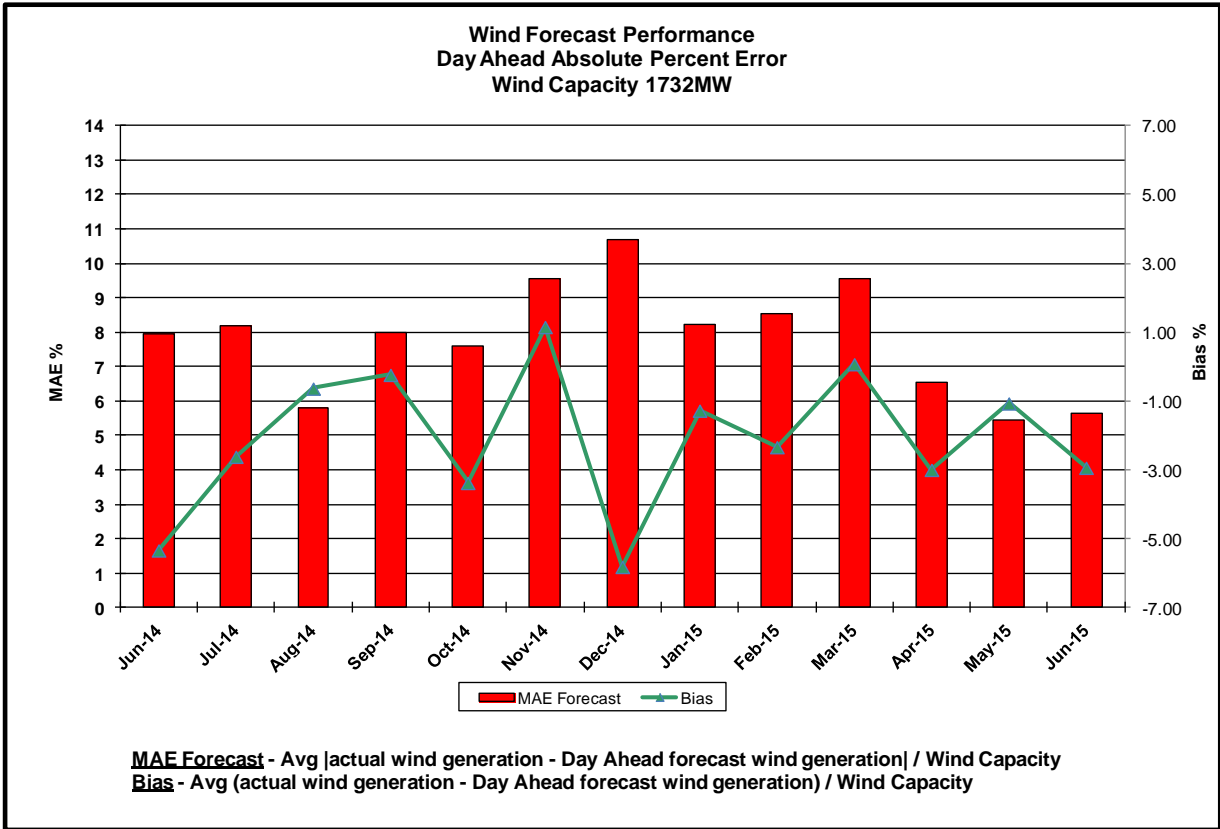


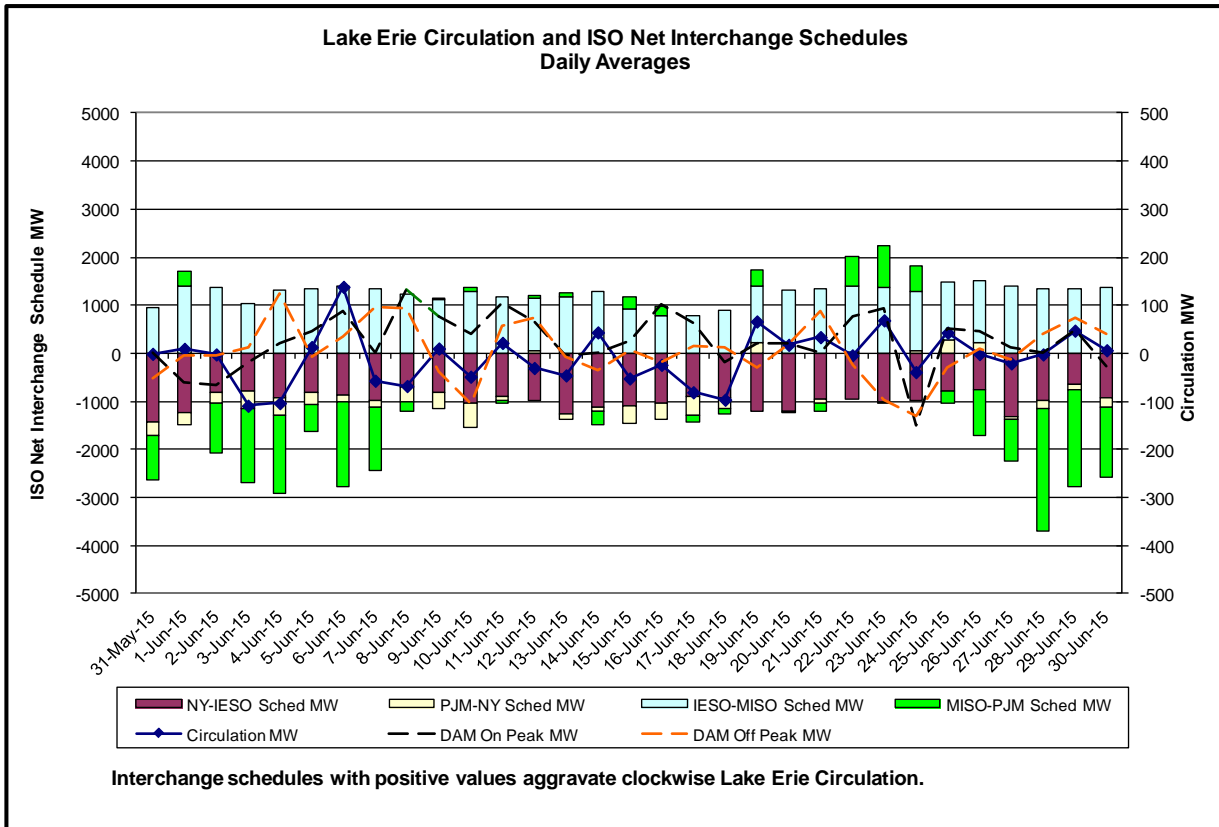
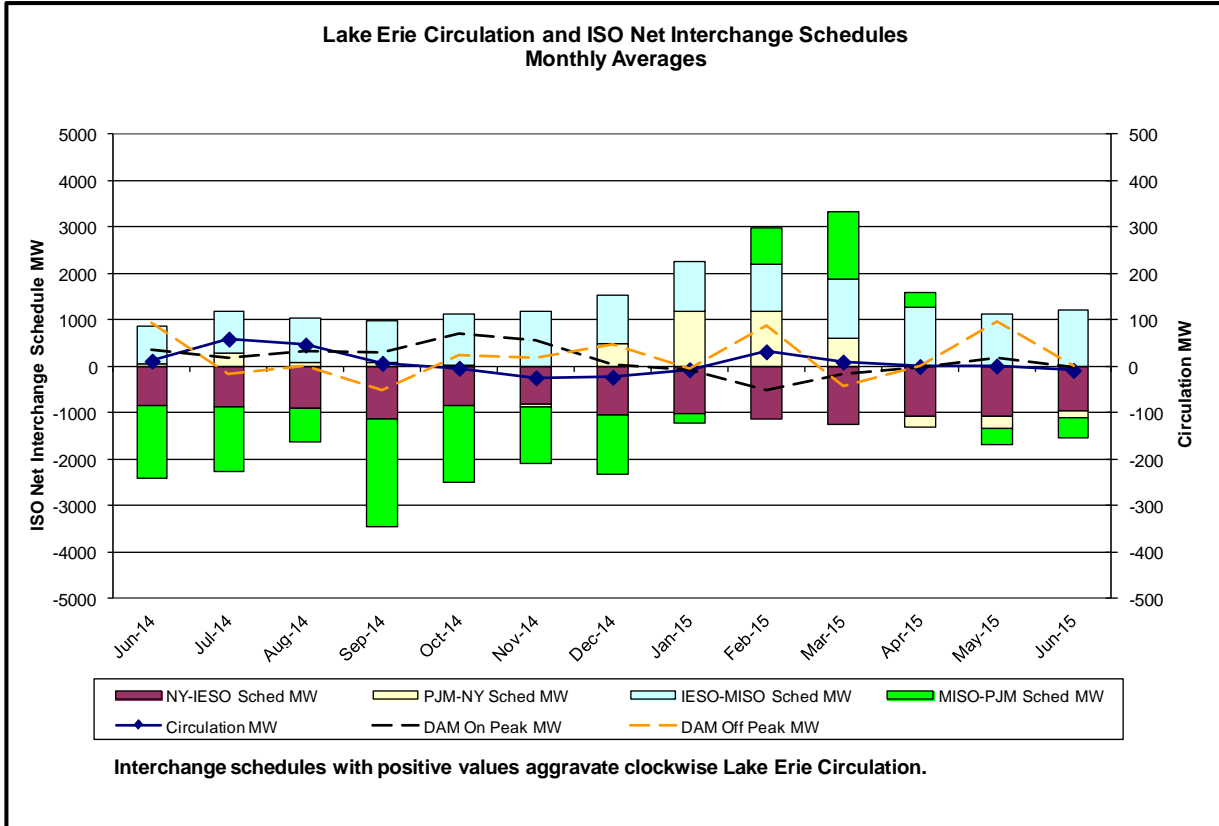




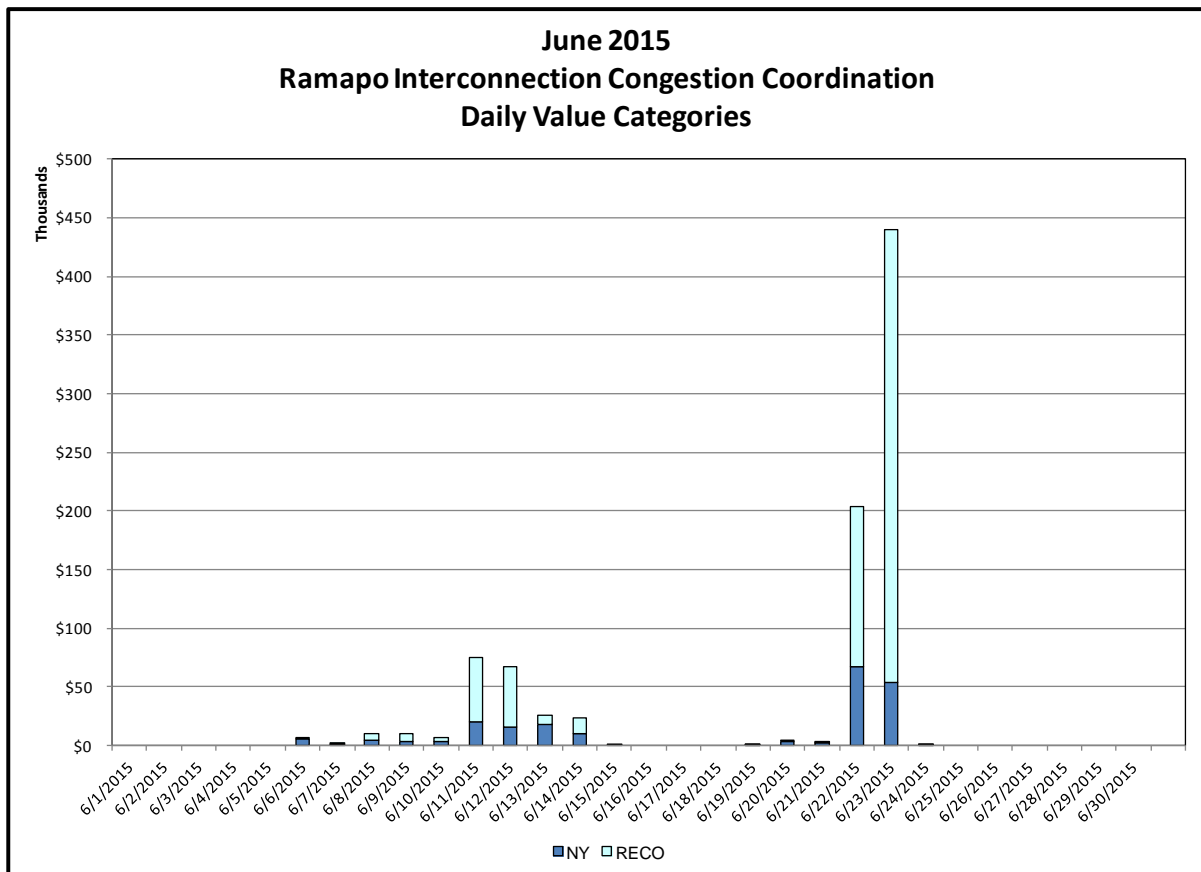
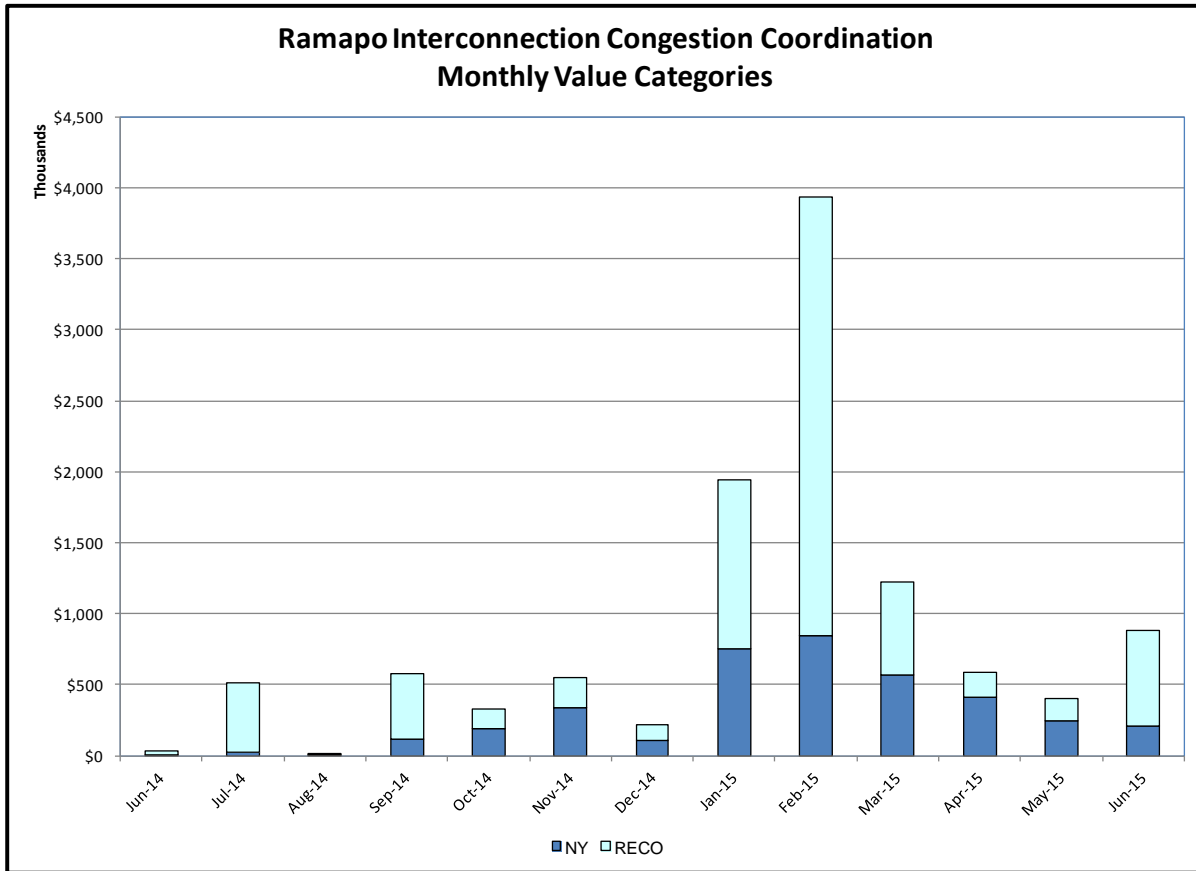






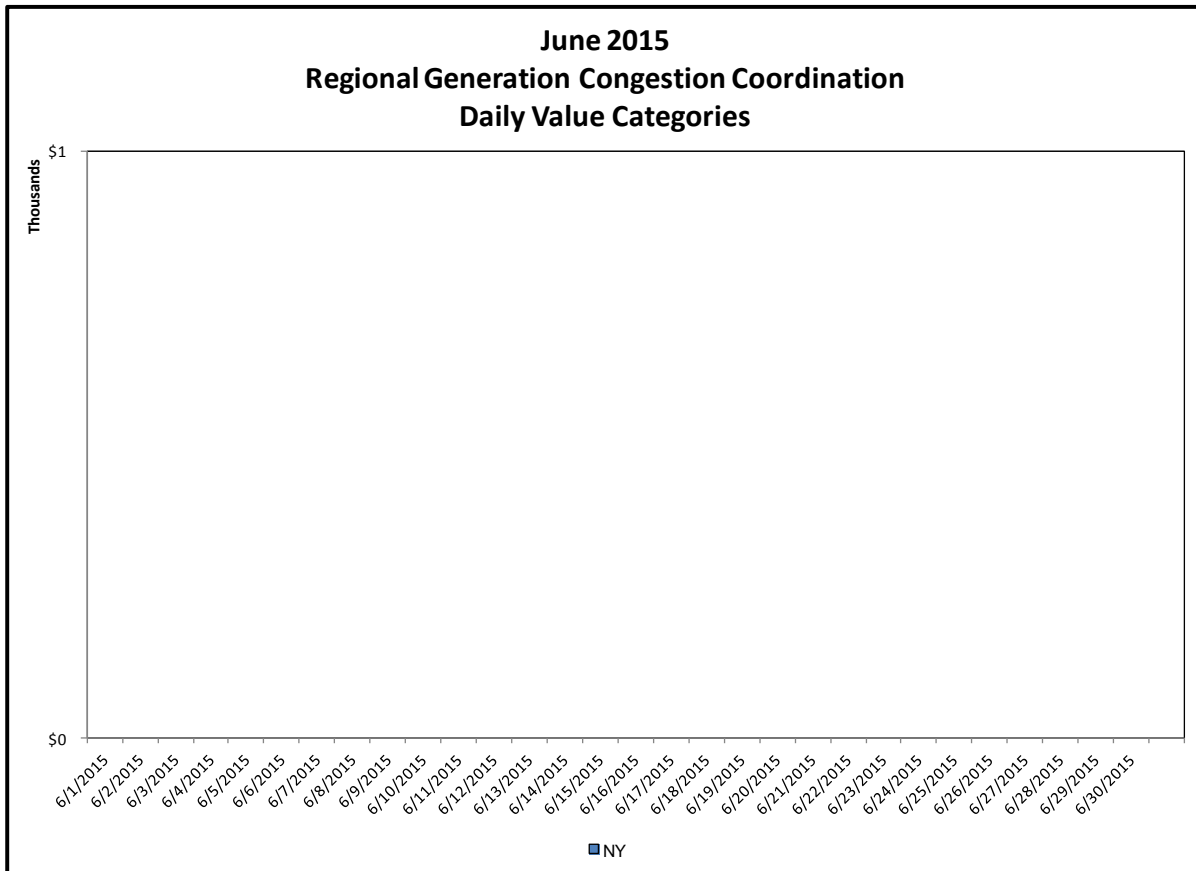
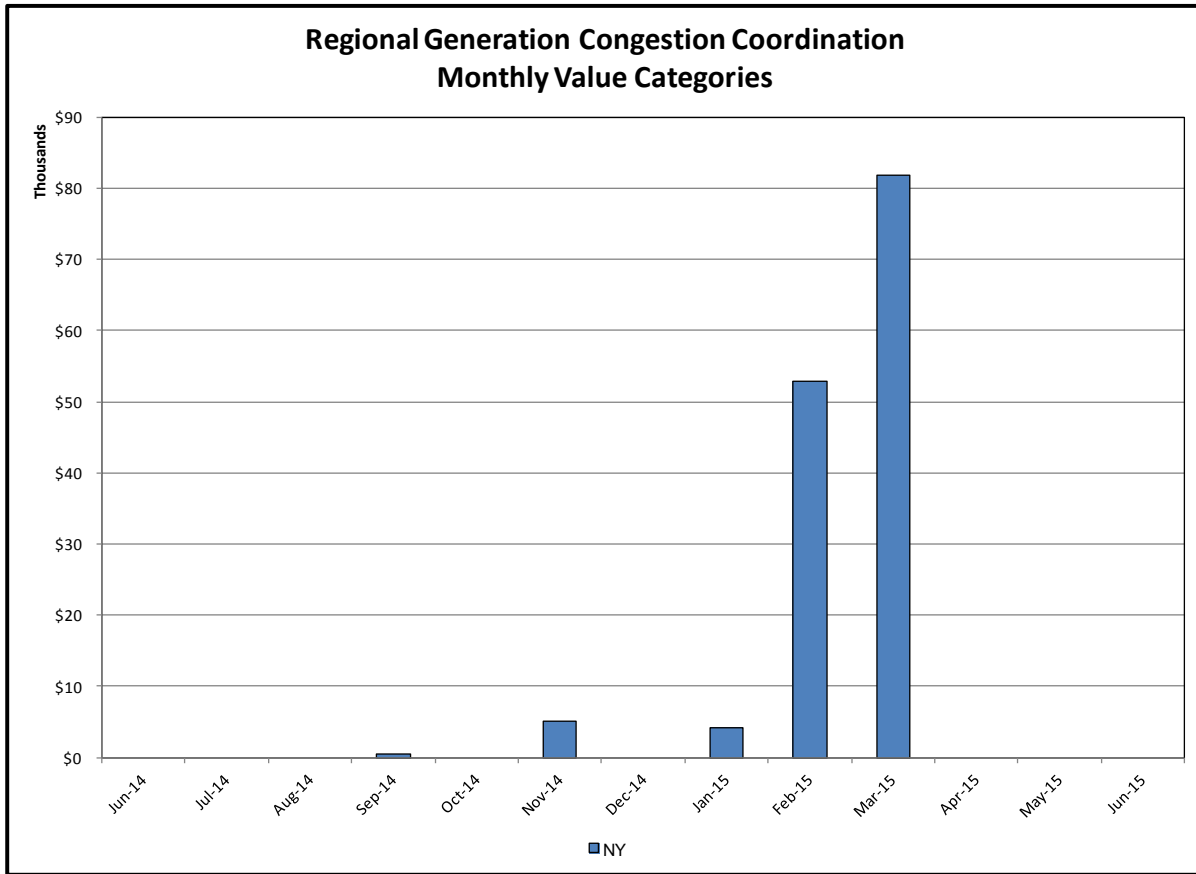


## Broader Regional Market Performance Metrics



**Ramapo Interconnection Congestion Coordination**

| <u>Category</u> | <u>Description</u>   |
|-----------------|--|
| NY              | Represents the value NY realizes from Market-to-Market Ramapo Coordination. When experiencing congestion, this includes (1) the estimated savings to NY for additional deliveries into NY, plus (2) PJM compensation to NY for additional deliveries into PJM (as compared to the Ramapo Target level, excluding RECO). This is net of any settlements to PJM when they are congested. |
| RECO            | Represents the value of PJM's obligation to deliver 80% of service to RECO load over Ramapo 5018. This includes (1) the estimated reduction in NYCA congestion due to the PJM delivery of RECO over Ramapo 5018, plus (2) PJM compensation to NY for NYCA congestion for the under-delivery or inability to deliver service to RECO load over Ramapo 5018.                             |



### Regional Generation Congestion Coordination

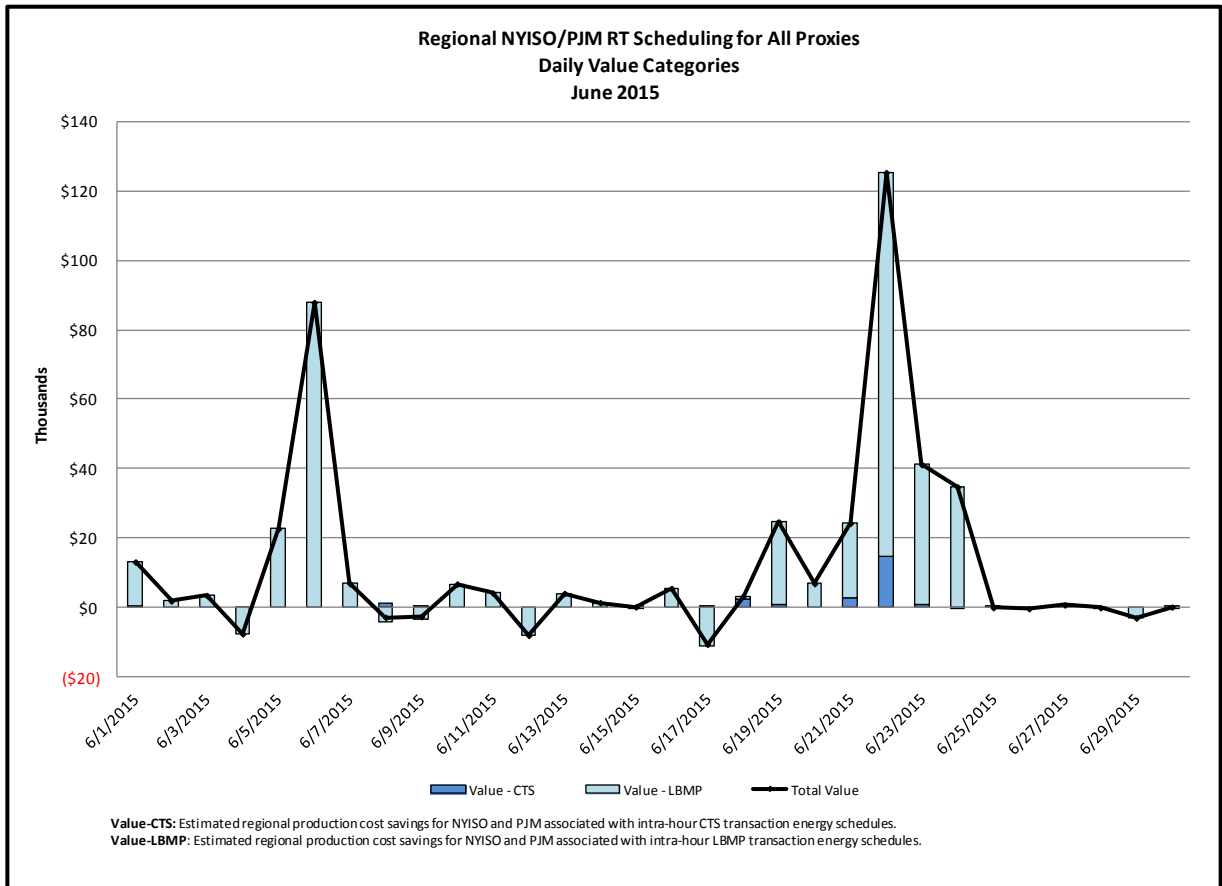
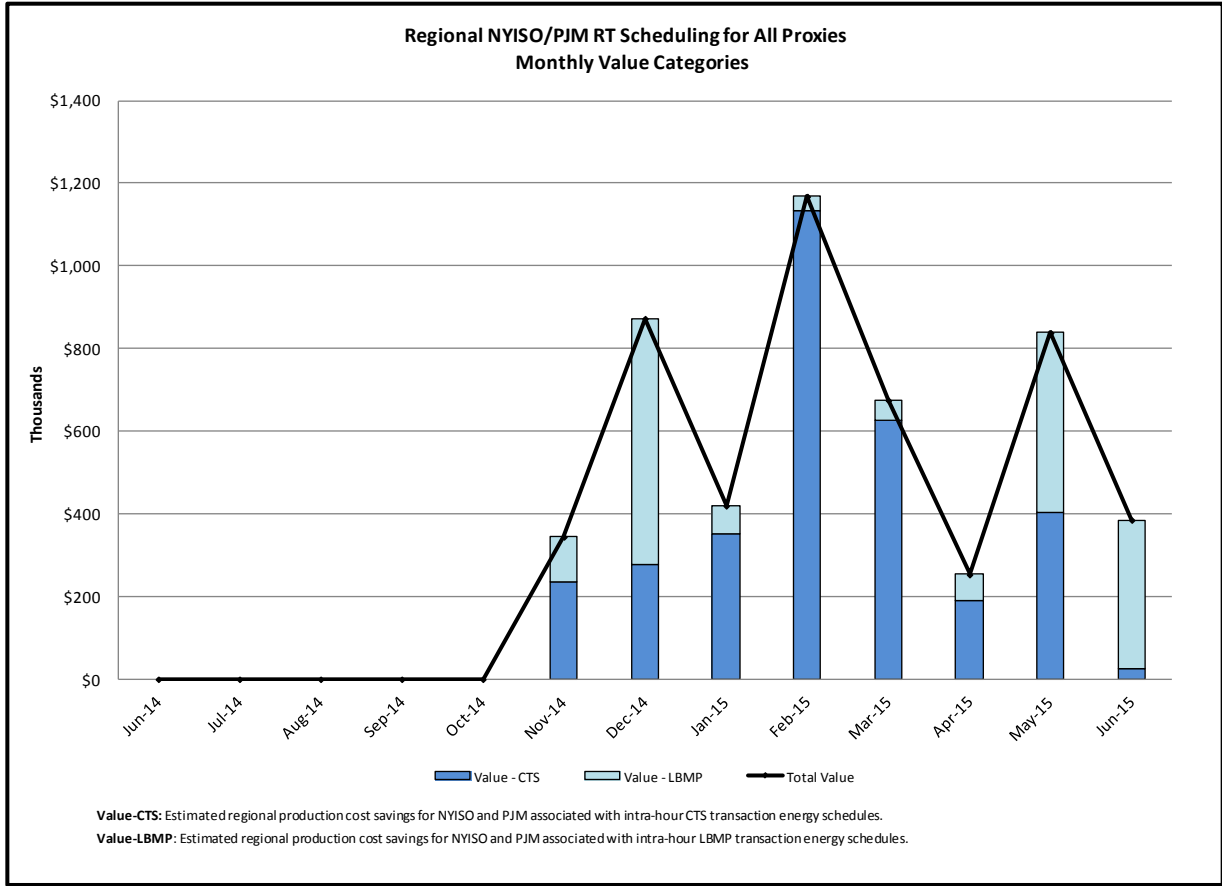
Category

NY

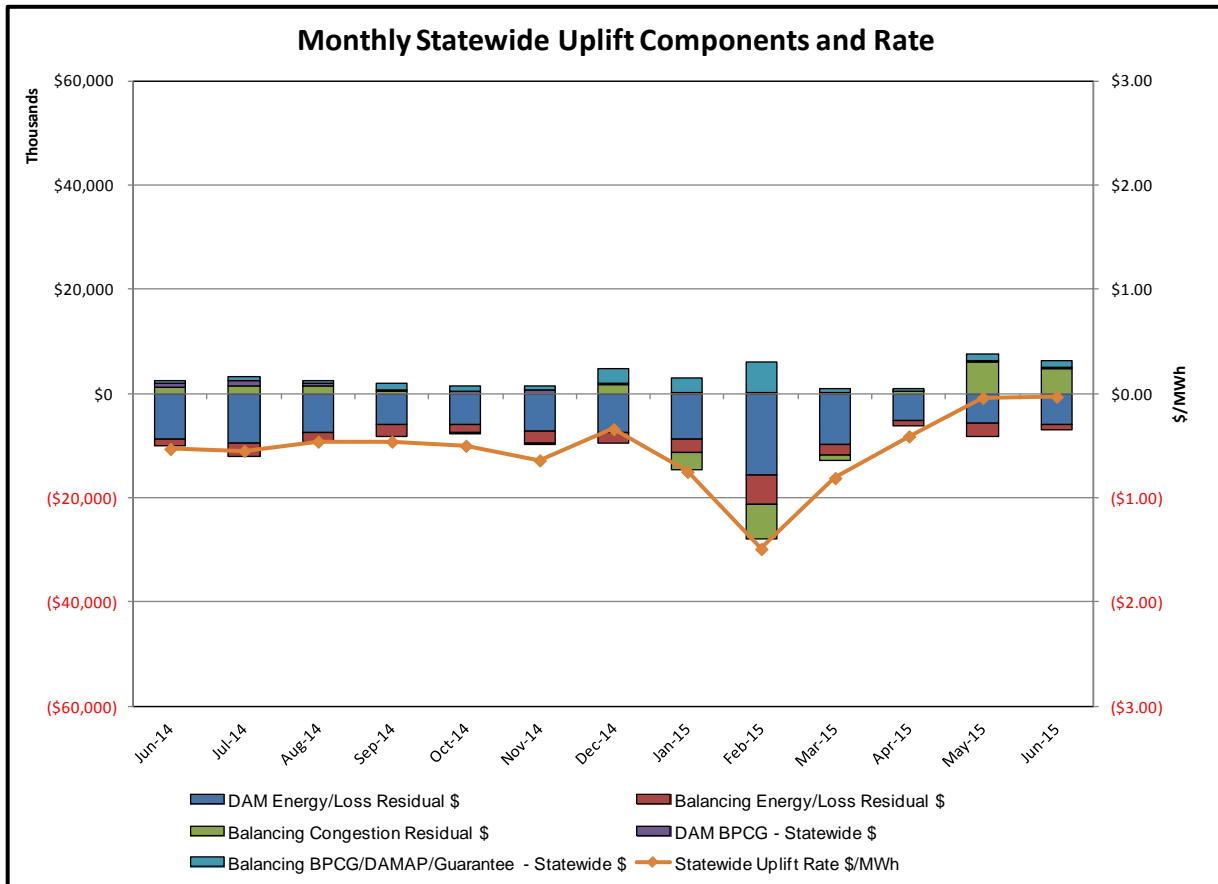
Description

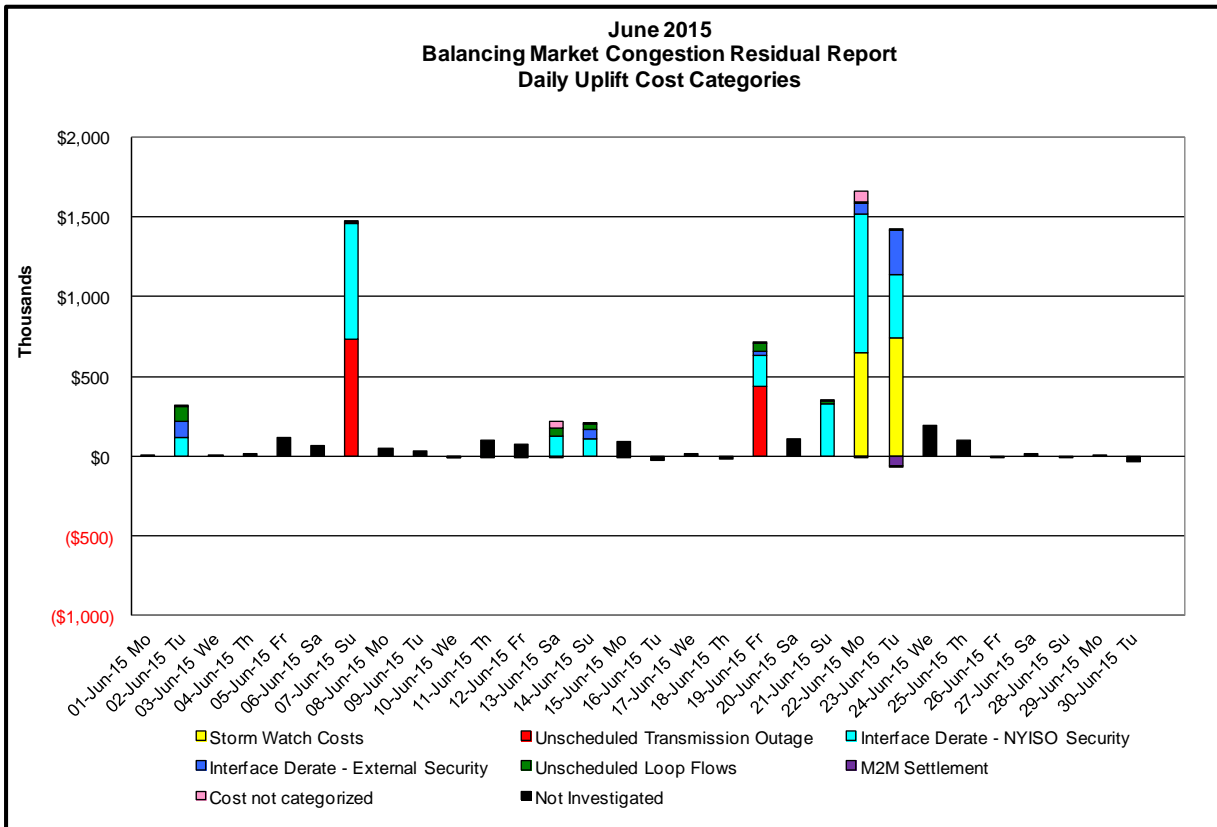
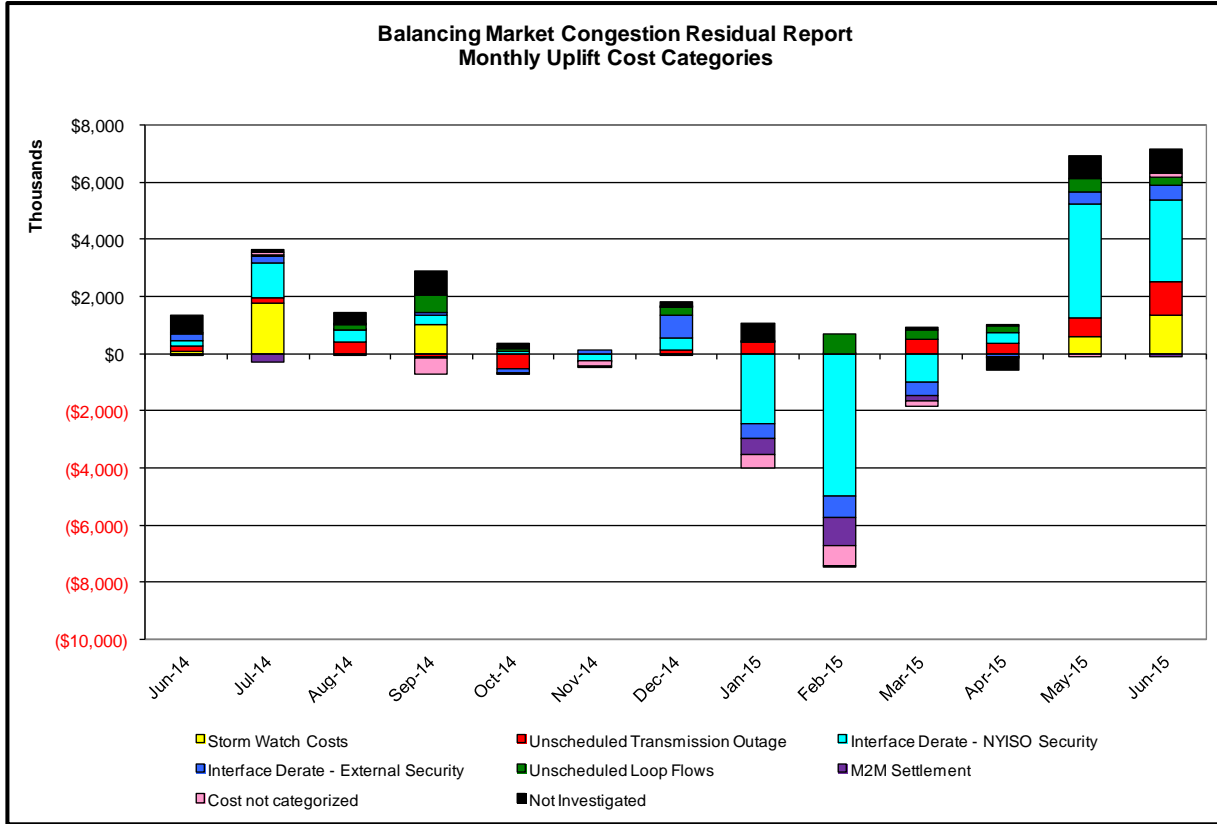
NYISO savings that result from PJM payments to NYISO when PJM's transmission use (PJM's market flow) is greater than PJM's entitlement of the NY transmission system and NYISO is incurring Western or Central NY congestion. Additionally, NYISO savings may result from the more efficient regional utilization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





### Market Performance Metrics





Day's investigated in June: 2,7,13,14,19,21,22,23

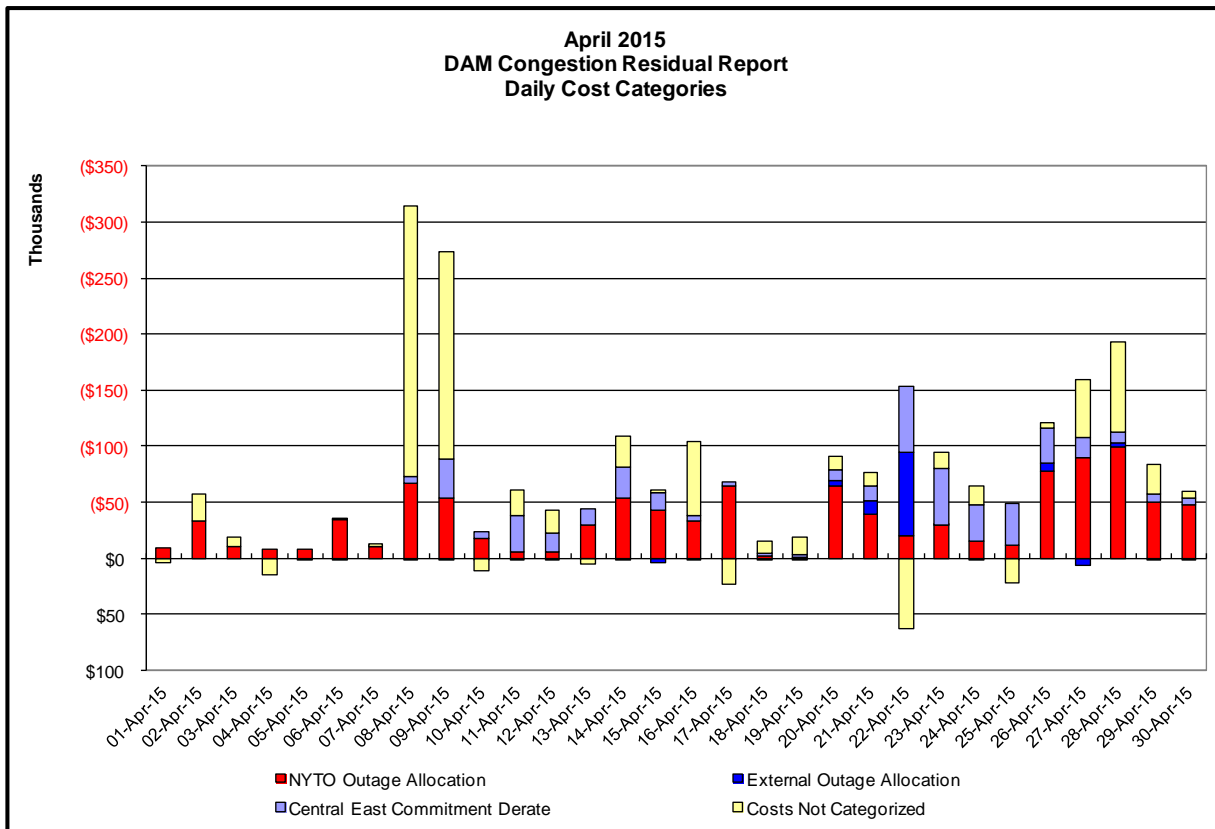
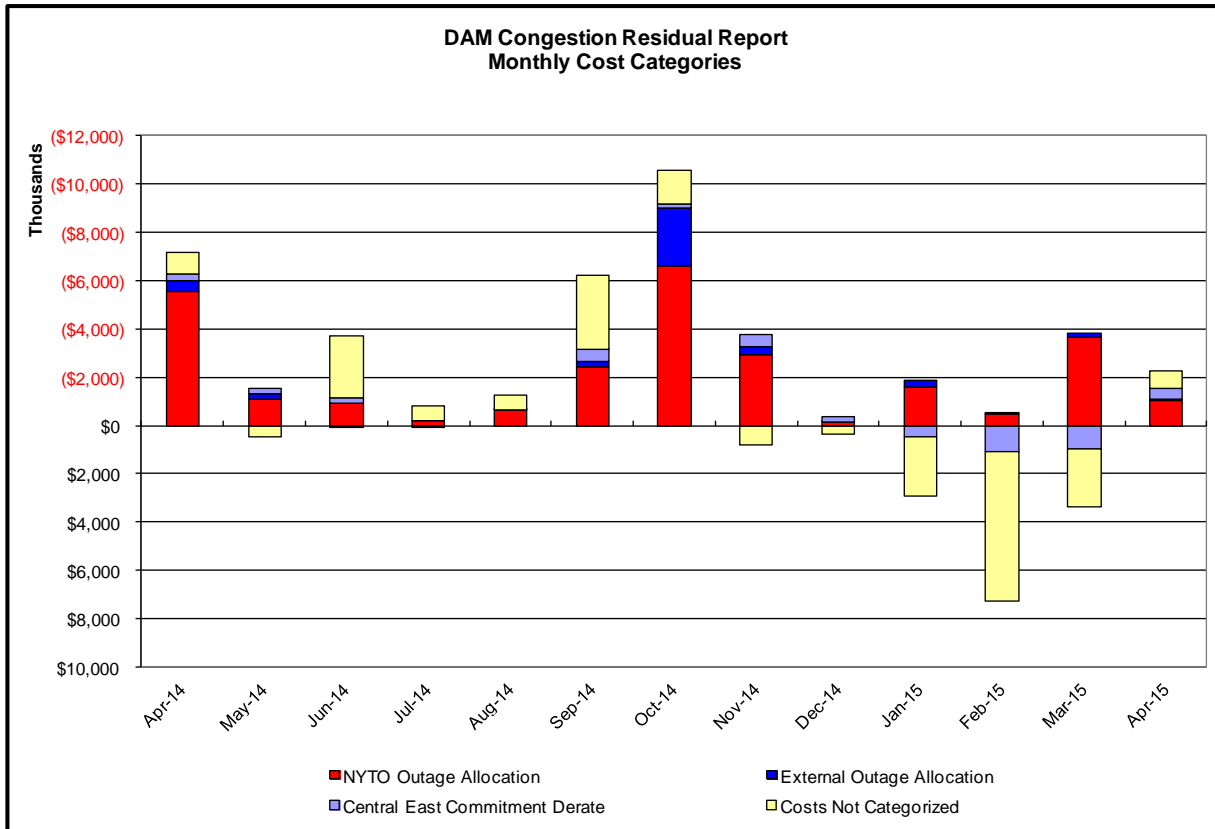
| Event | Date (yyyymmdd) | Hours           | Description  |
|-------|-----------------|-----------------|--|
|       | 6/2/2015        | 12-14           | Derate Packard-Sawyer 230kV (#78) for I/o Packard-Sawyer 230kV (#77)                     |
|       | 6/2/2015        | 14-16           | IESO_AC-NY Scheduling Limit  |
|       | 6/2/2015        | 13-16           | PJM_AC-NY Scheduling Limit   |
|       | 6/2/2015        | 13,14           | Lake Erie Clockwise Circulation, DAM-RTM exceeds 125MW; Packard-Sawyer 230KV (#78)       |
|       | 6/7/2015        | 9               | Extended outage of East Garden City Bk 2   |
|       | 6/7/2015        | 12              | Extended outage of Niagara 230/155kV T1  |
|       | 6/7/2015        | 9,12            | Derate Niagara-Packard 230kV (61) for I/o TWR:PACKARD 62 & BP76                          |
|       | 6/7/2015        | 14              | IESO_AC-NY Scheduling Limit  |
|       | 6/13/2015       | 1               | Forced outage of Gilboa-Fraser 345kV (#GF5-35)   |
|       | 6/13/2015       | 1               | Derate East Garden City-Valley Stream 138kV (#262) for I/o SCB:NEWBRDG 1380 461 BK6      |
|       | 6/13/2015       | 14,16,17        | Derate Gowanus-Greenwood 138kV (#42232) TWR:GOETHALS 22 & 21                             |
|       | 6/13/2015       | 17              | Lake Erie Clockwise Circulation, DAM-RTM exceeds 125MW; Packard-Sawyer 230KV (#78)       |
|       | 6/14/2015       | 19,21           | Derate Dunwoodie-Shore Road 345kV (#Y50) for I/o SCB:SPBK(RNS2):Y49 & M29                |
|       | 6/14/2015       | 12-16,18,19,23  | Derate East Garden City-Valley Stream 138kV (#262) for I/o BUS:BARRETT 292&459&G2&IC9-12 |
|       | 6/14/2015       | 14-16           | Derate Leeds-New Scotland 345kV (#93) for I/o Leeds-New Scotland 345kV (#94)             |
|       | 6/14/2015       | 19,21           | NE_NNC1385-NY Scheduling Limit   |
|       | 6/14/2015       | 12-16           | Lake Erie Clockwise Circulation, DAM-RTM exceeds 125MW; Leeds-New Scotland 345kV (#93)   |
|       | 6/19/2015       | 0-14,17,18      | Forced outage Dunwoodie-Shore Road 345kV (#Y50)  |
|       | 6/19/2015       | 8               | Derate East Garden City-Valley Stream 138kV (#262) for I/o SCB:NEWBRDG 1380 461 BK6      |
|       | 6/19/2015       | 6-15,17-19      | Derate Packard-Sawyer 230kV (#78) for I/o Packard-Sawyer 230kV (#77)                     |
|       | 6/19/2015       | 14              | PJM_AC DNI Ramp Limit  |
|       | 6/19/2015       | 6,7,10,19       | Lake Erie Clockwise Circulation, DAM-RTM exceeds 125MW; Packard-Sawyer 230KV (#78)       |
|       | 6/21/2015       | 16-20           | Derate East Garden City-Valley Stream 138kV (#262) for I/o BUS:BARRETT 292&459&G2&IC9-12 |
|       | 6/21/2015       | 9,11,14,16-21   | Derate Packard-Sawyer 230kV (#78) for I/o Packard-Sawyer 230kV (#77)                     |
|       | 6/21/2015       | 9,20            | Lake Erie Clockwise Circulation, DAM-RTM exceeds 125MW; Packard-Sawyer 230KV (#78)       |
|       | 6/22/2015       | 16-23           | Thunder Storm Alert  |
|       | 6/22/2015       | 23              | Derate East 179th Street-Hell Gate_E 138kV (#15054)                                      |
|       | 6/22/2015       | 23              | Derate Hudson Avenue-Jamaica 138kV (#701)  |
|       | 6/22/2015       | 18-20           | Derate Niagara-Packard 230kV (61) for I/o TWR:PACKARD 62 & BP76                          |
|       | 6/22/2015       | 7-9,11-17       | Derate Packard-Sawyer 230kV (#78) for I/o Packard-Sawyer 230kV (#77)                     |
|       | 6/22/2015       | 17-21           | Derate Packard-Sawyer 230kV (#77) for I/o Packard-Sawyer 230kV (#78)                     |
|       | 6/22/2015       | 17-23           | Derate Scriba-Volney 345kV (#20-SV) for I/o Scriba-Volney 345kV (#21-SV)                 |
|       | 6/22/2015       | 7,9,15,16,18,23 | NYCA DNI Ramp Limit  |
|       | 6/22/2015       | 13,15,23        | PJM_AC DNI Ramp Limit  |
|       | 6/22/2015       | 9               | Lake Erie Clockwise Circulation, DAM-RTM exceeds 125MW; Packard-Sawyer 230KV (#78)       |
|       | 6/23/2015       | 13-22           | Thunder Storm Alert  |
|       | 6/23/2015       | 0               | Derate Astoria East-Astoria Annex 138kV (#34091)   |
|       | 6/23/2015       | 0               | Derate Astoria East-Astoria Annex 138kV (#34091) for SCB:SPBK(RNS2):Y49 & M29            |
|       | 6/23/2015       | 8               | Uprate Central East  |
|       | 6/23/2015       | 0               | Derate East 179th Street-Hell Gate_E 138kV (#15053)                                      |
|       | 6/23/2015       | 1               | Uprate Freshkills-Willowbrook 138kV (#29211-2)   |
|       | 6/23/2015       | 0               | Derate Greenwood-Vernon 138kV (#31231)   |
|       | 6/23/2015       | 20-22           | Derate Greenwood/Staten Island   |
|       | 6/23/2015       | 0               | Derate Hudson Avenue-Jamaica 138kV (#701)  |
|       | 6/23/2015       | 0               | Derate Leeds-New Scotland 345kV (#93) for BUS:N.SCTLD #99&18&1&94&BK1&C2 (#94)           |
|       | 6/23/2015       | 2               | Derate Meyers-Weathersfield 230kV (#85/87)   |
|       | 6/23/2015       | 10              | Deratea Mott Haven-Rainey 345kV (#Q11) for I/o Mott Haven-Rainey 345kV (#Q12)            |
|       | 6/23/2015       | 10              | Derate Packard-Sawyer 230kV (#78) for I/o Packard-Sawyer 230kV (#77)                     |
|       | 6/23/2015       | 0               | Derate Packard-Sawyer 230kV (#77) for I/o Packard-Sawyer 230kV (#78)                     |
|       | 6/23/2015       | 0,2,5           | Derate Scriba-Volney 345kV (#20-SV) for I/o Scriba-Volney 345kV (#21-SV)                 |
|       | 6/23/2015       | 6,15,17,18      | NYCA DNI Ramp Limit  |
|       | 6/23/2015       | 8               | IESO_AC DNI Ramp Limit   |
|       | 6/23/2015       | 16,19           | PJM_AC DNI Ramp Limit  |
|       | 6/23/2015       | 2               | PJM_AC-NY Scheduling Limit   |
|       | 6/23/2015       | 0               | Lake Erie Clockwise Circulation, DAM-RTM exceeds 125MW; Packard-Sawyer 230KV (#77)       |

**Real-Time Balancing Market Congestion Residual (Uplift Cost) Categories**

| <u>Category</u>                      | <u>Cost Assignment</u> | <u>Events Types</u>   | <u>Event Examples</u>   |
|--------------------------------------|------------------------|---|---|
| Storm Watch                          | Zone J                 | Thunderstorm Alert (TSA)  | TSA Activations   |
| Unscheduled Transmission Outage      | Market-wide            | Reduction in DAM to RTM transfers related to unscheduled transmission outage                    | Forced Line Outage, Unit AVR Outages                          |
| Interface Derate - NYISO Security    | Market-wide            | Reduction in DAM to RTM transfers not related to transmission outage                            | Interface Derates due to RTM voltages                         |
| Interface Derate - External Security | Market-wide            | Reduction in DAM to RTM transfers related to External Control Area Security Events              | TLR Events, External Transaction Curtailments                 |
| Unscheduled Loop Flows               | Market-wide            | Changes in DAM to RTM unscheduled loop flows impacting NYISO Interface transmission constraints | DAM to RTM Clockwise Lake Erie Loop Flows greater than 125 MW |
| M2M Settlement                       | Market-wide            | Settlement result inclusive of coordinated redispatch and Ramapo flowgates                      |   |

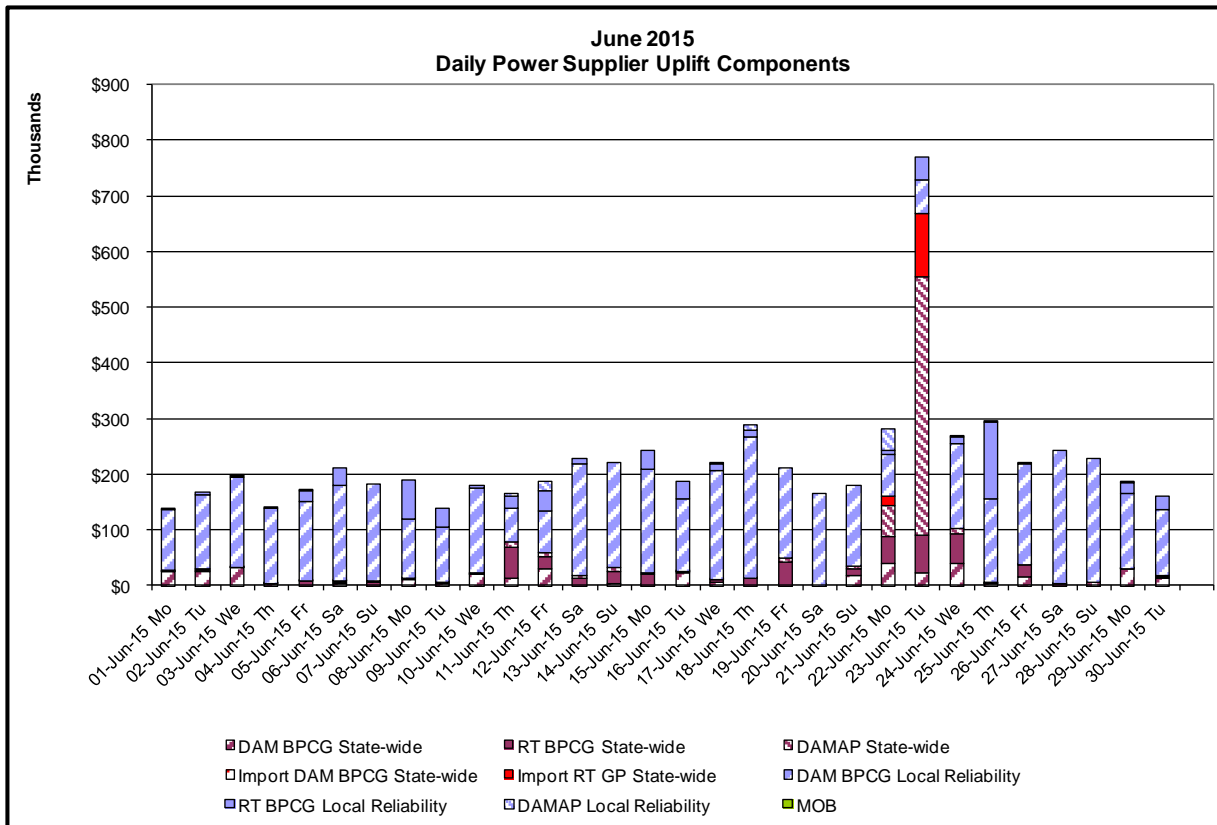
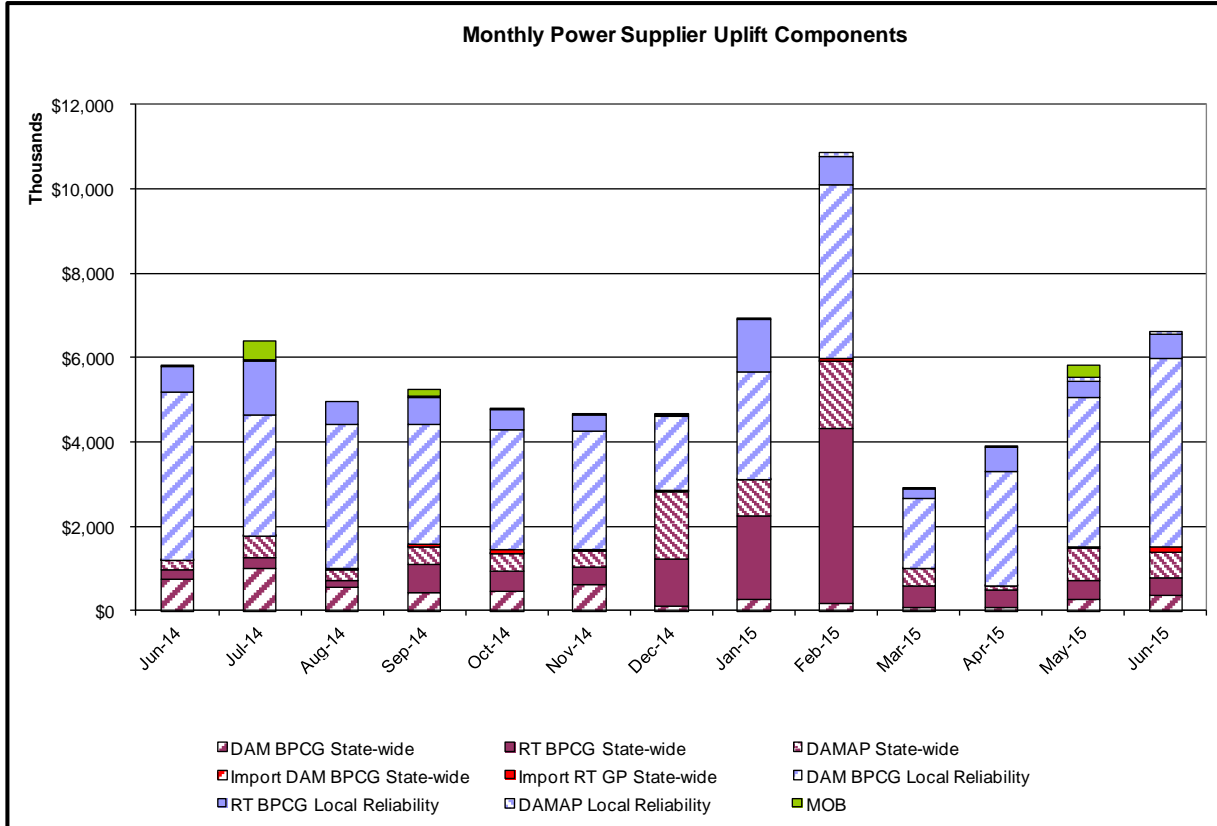
**Monthly Balancing Market Congestion Report Assumptions/Notes**

- 1) Storm Watch Costs are identified as daily total uplift costs
- 2) Days with a value of BMCR less M2M Settlement of \$100K/HR, shortfall of \$200K/Day or more, or surplus of \$100K/Day or more are investigated.
- 3) Uplift costs associated with multiple event types are apportioned equally by hour

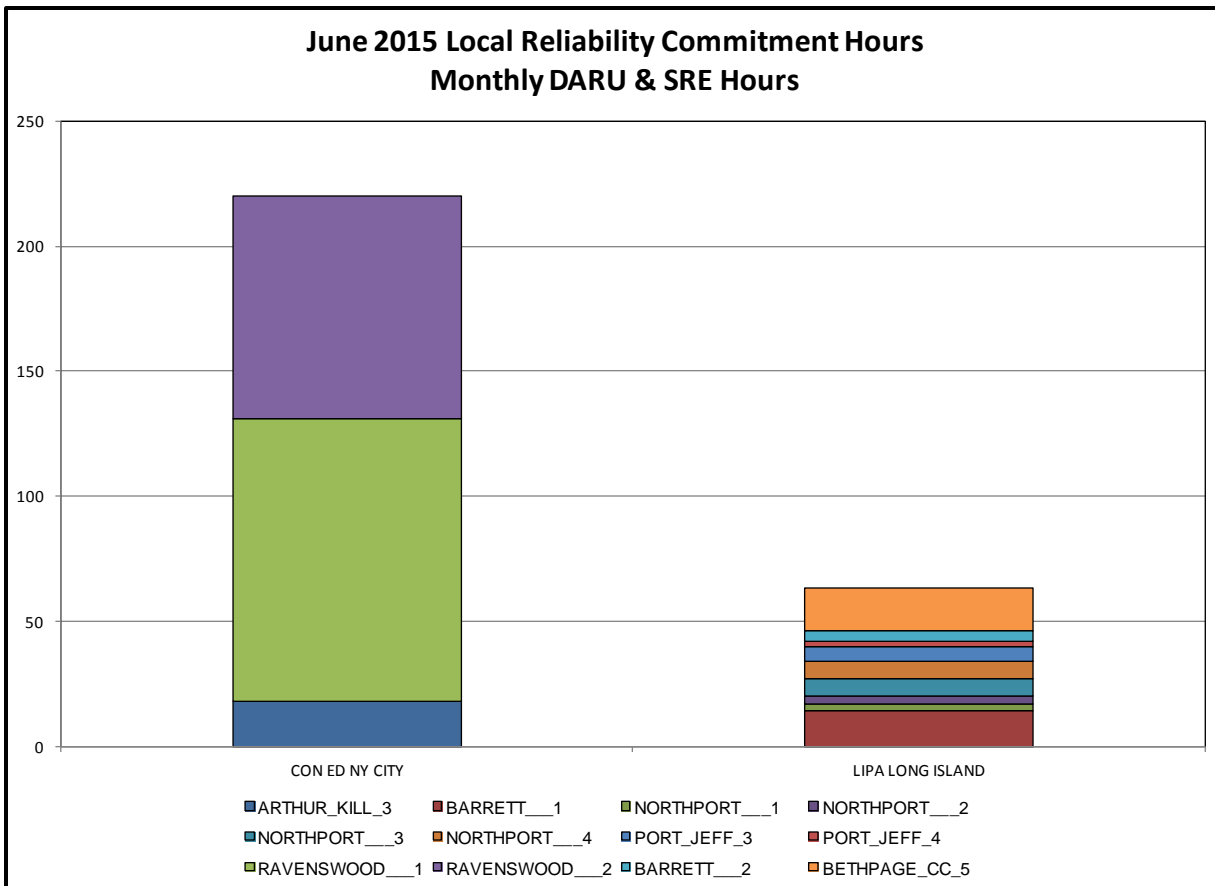
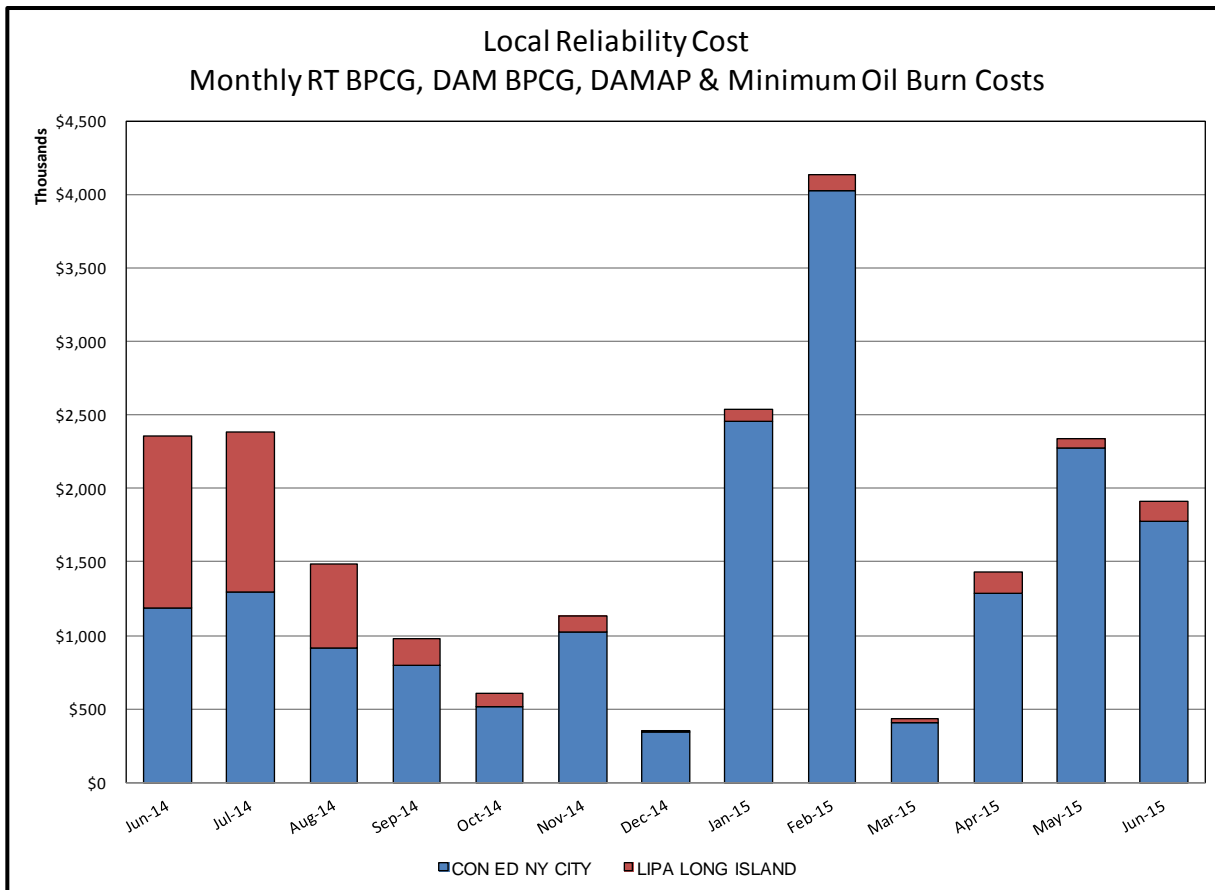


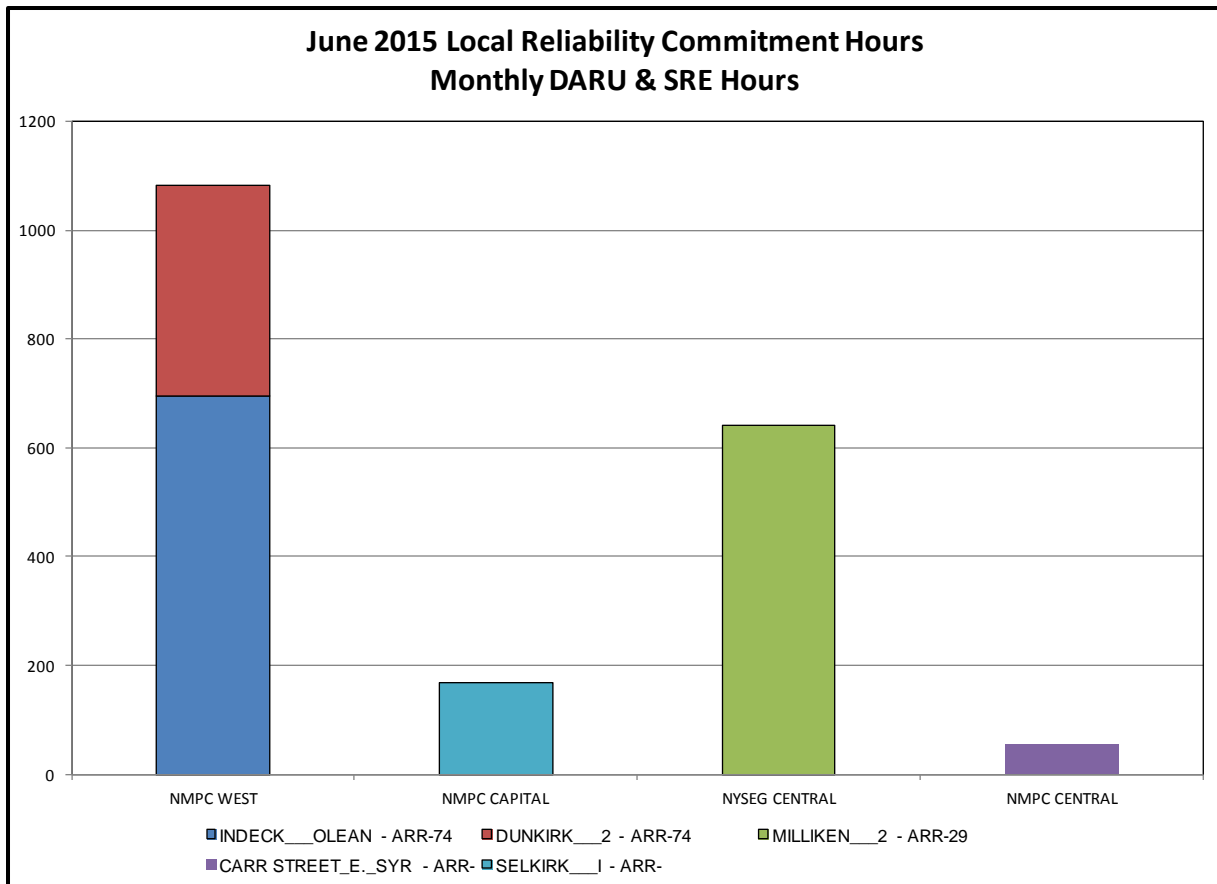
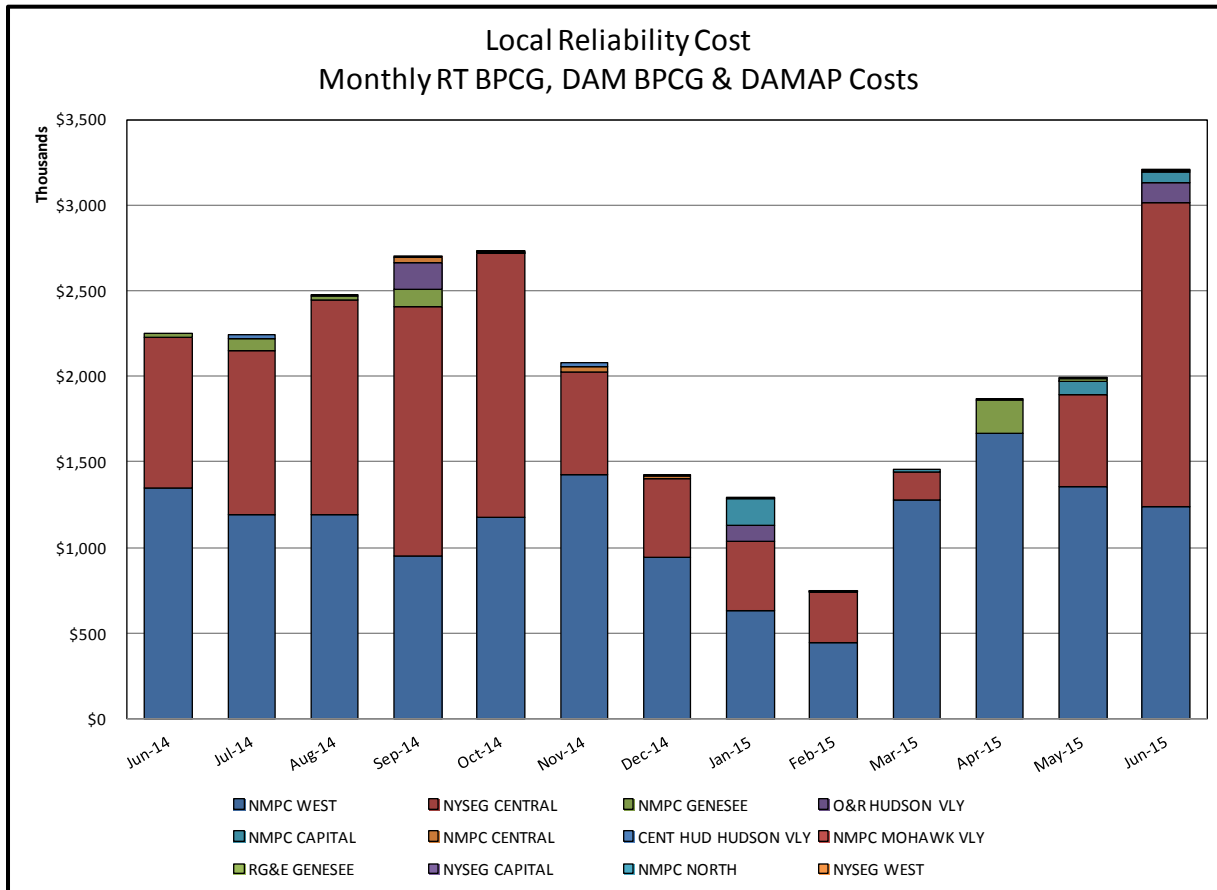
**Day-Ahead Market Congestion Residual Categories**

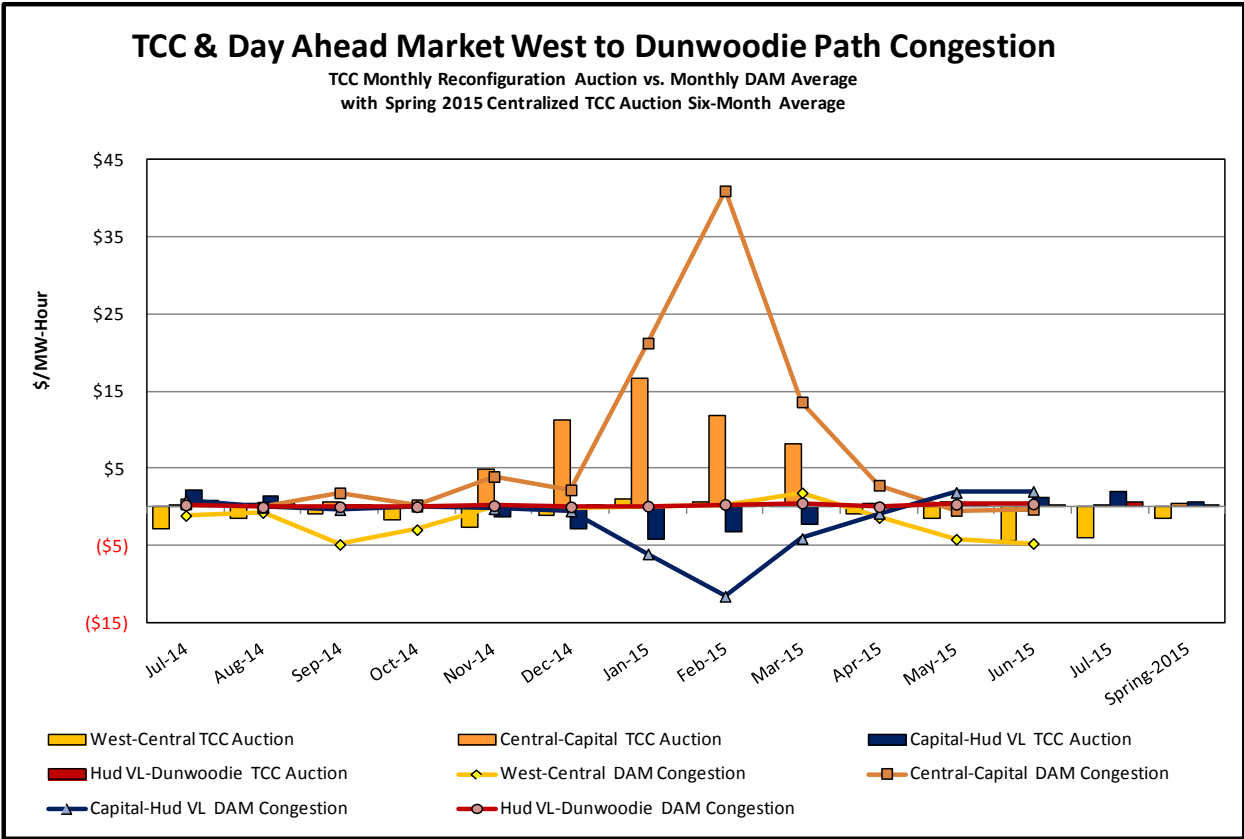
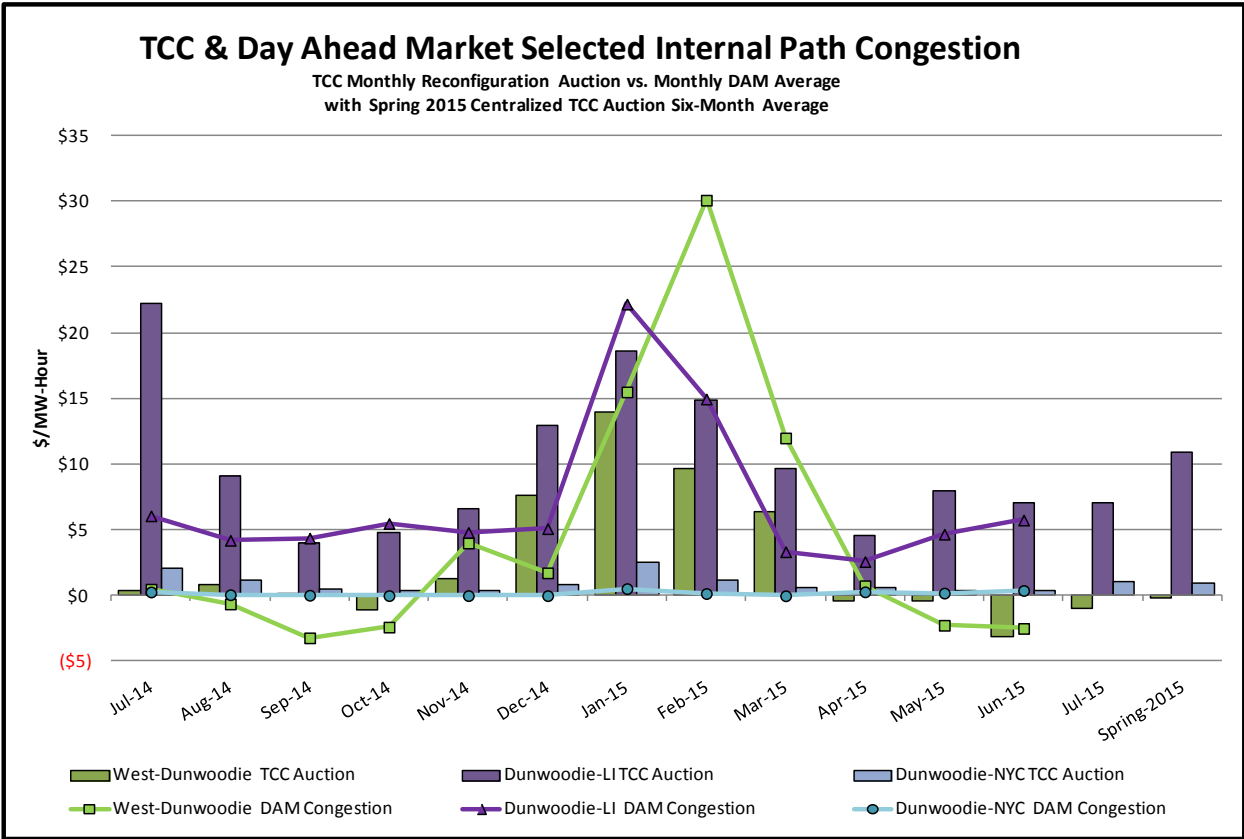
| <u>Category</u>                | <u>Cost Assignment</u>              | <u>Events Types</u>  | <u>Event Examples</u>  |
|--------------------------------|-------------------------------------|--|--|
| NYTO Outage Allocation         | Responsible TO                      | Direct allocation to NYTO's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





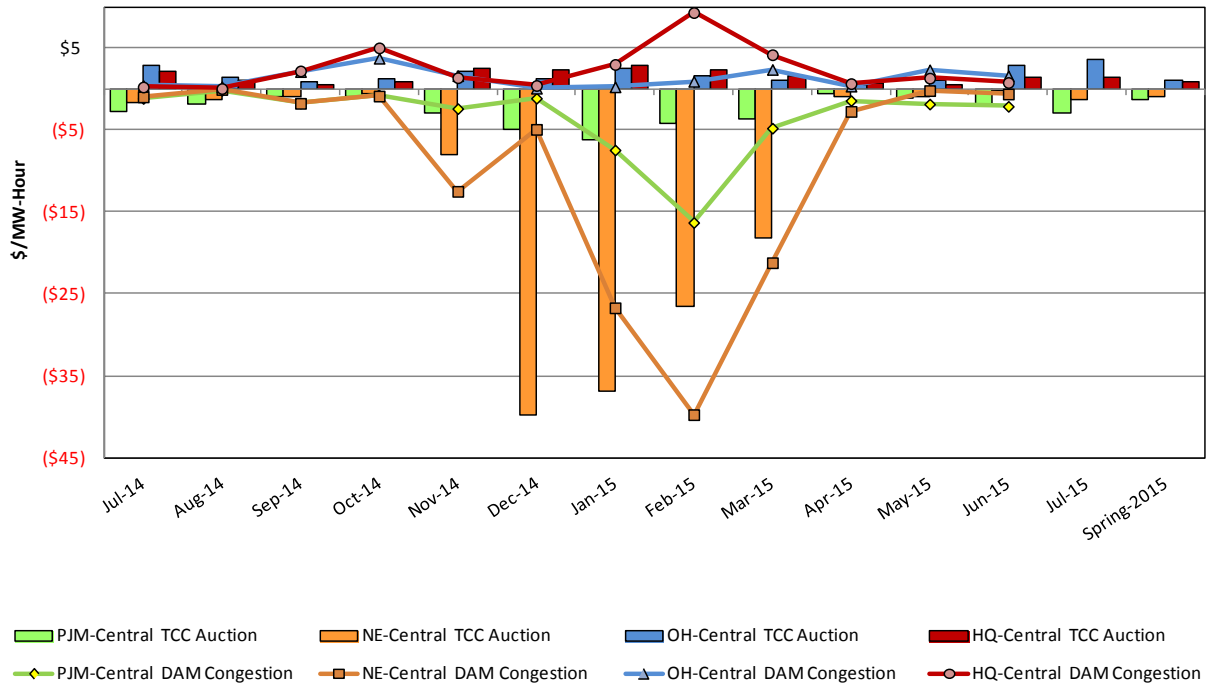


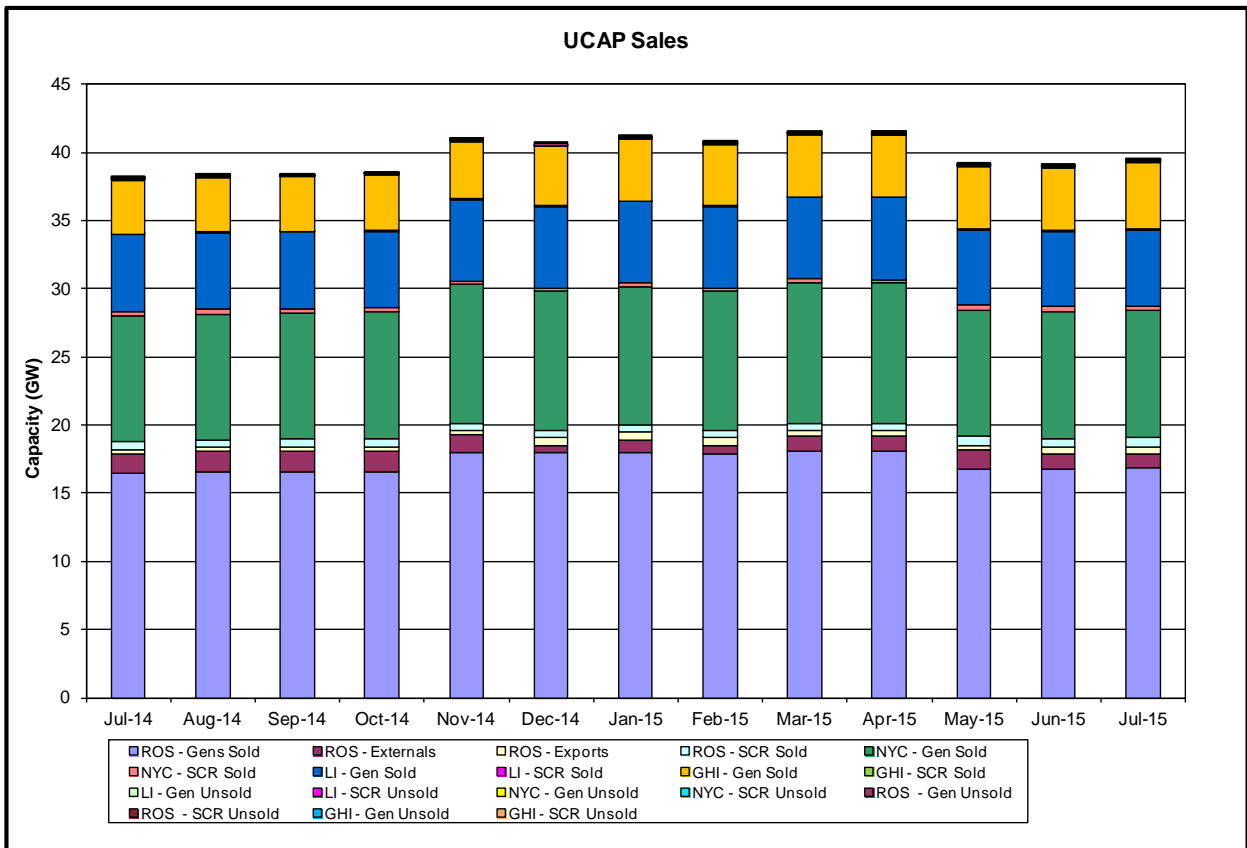
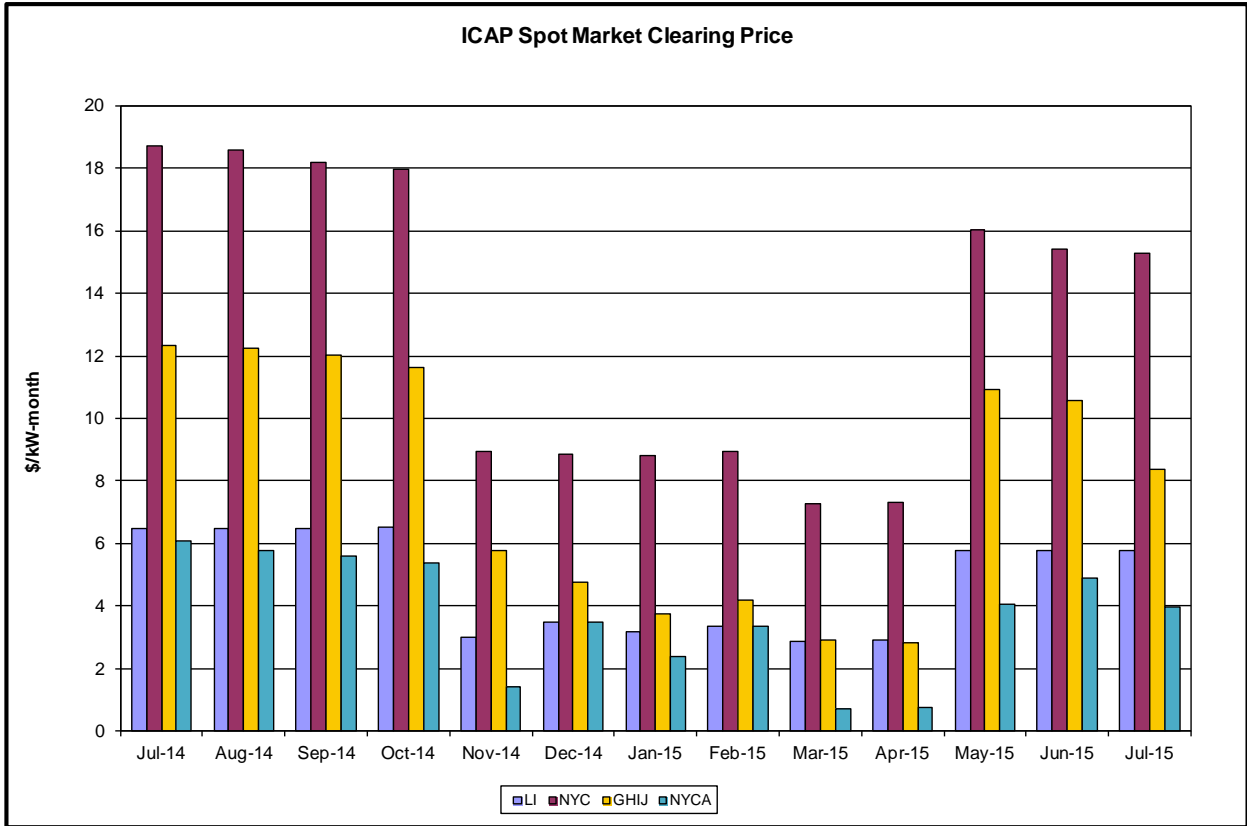




### TCC & Day Ahead Market Selected External Path Congestion

TCC Monthly Reconfiguration Auction vs. Monthly DAM Average  
with Spring 2015 Centralized TCC Auction Six-Month Average

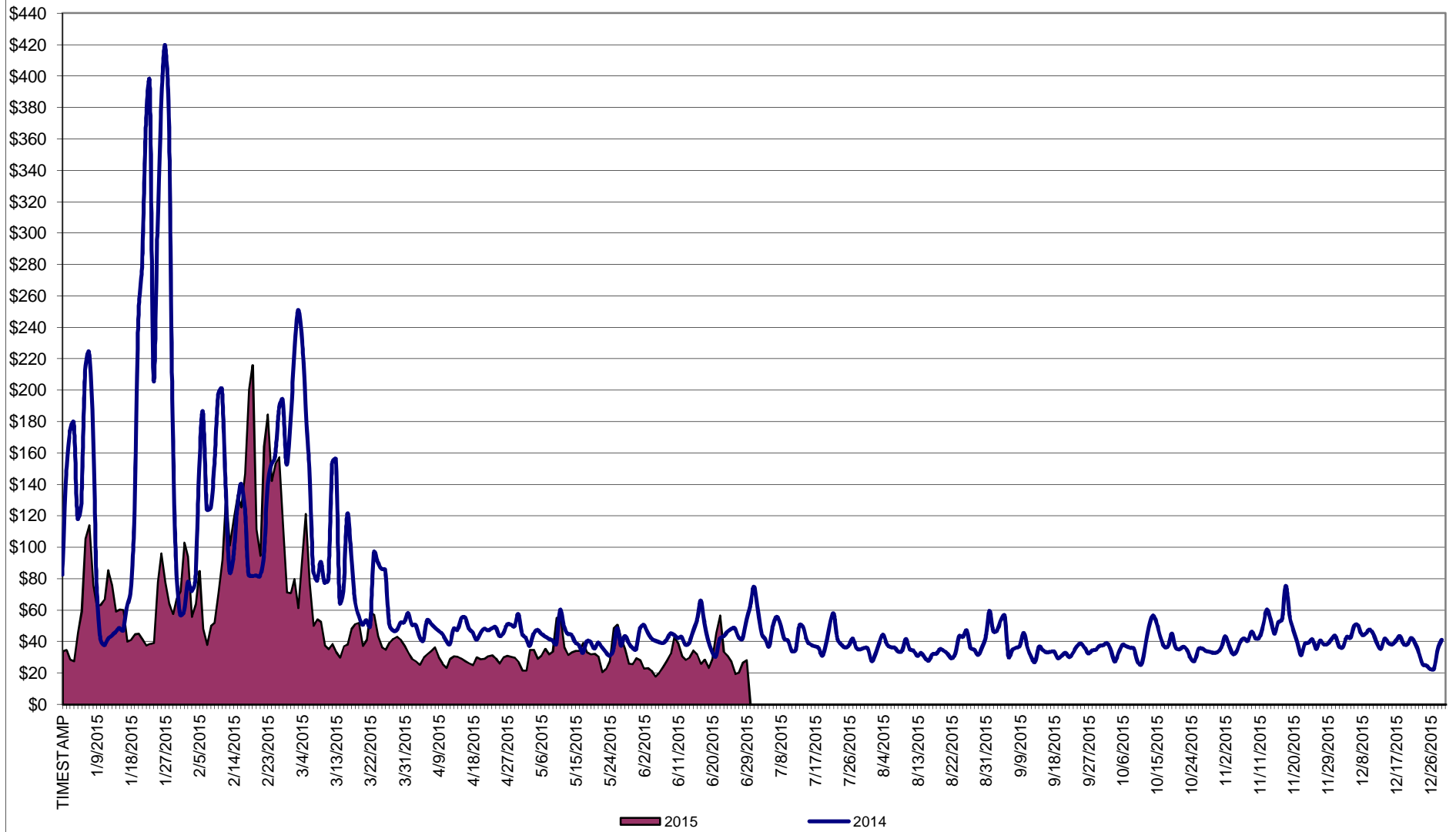




# Market Performance Highlights for June 2015

- **LBMP for June is \$28.19/MWh; lower than \$32.98/MWh in May 2015 and \$43.39/MWh in June 2014.**
  - Day Ahead and Real Time Load Weighted LBMPs are lower compared to May.
  - This is the lowest LBMP for the month of June during NYISO operation.
- **June 2015 average year-to-date monthly cost of \$56.02/MWh is a 43% decrease from \$97.84/MWh in June 2014.**
- **Average daily sendout is 450 GWh/day in June; higher than 409 GWh/day in May 2015 and lower than 456 GWh/day in June 2014.**
- **Natural gas and distillate prices were lower compared to the previous month.**
  - Natural Gas (Transco Z6 NY) was \$2.34/MMBtu, down 11% from \$2.65/MMBtu in May.
    - Transco Z6 NY is down 28% year-over-year
  - Jet Kerosene Gulf Coast was \$12.80/MMBtu, down from \$13.72/MMBtu in May.
  - Ultra Low Sulfur No.2 Diesel NY Harbor was \$13.45/MMBtu, down from \$14.05/MMBtu in May.
- Distillate prices are down 36% year-over-year
- **Uplift per MWh is higher compared to the previous month.**
  - Uplift (not including NYISO cost of operations) is \$0.33/MWh; higher than \$0.28/MWh in May.
    - The Local Reliability Share is \$0.37/MWh, higher than \$0.32 in May.
    - The Statewide Share is (\$0.03)/MWh, higher than (\$0.04)/MWh in May.
  - TSA \$ per NYC MWh is \$0.50/MWh.
  - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are higher than May.

**Daily NYISO Average Cost/MWh (Energy & Ancillary Services)\***  
 2014 Annual Average \$69.31/MWh  
 June 2014 YTD Average \$97.84/MWh  
 June 2015 YTD Average \$56.02/MWh



\* Excludes ICAP payments.

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

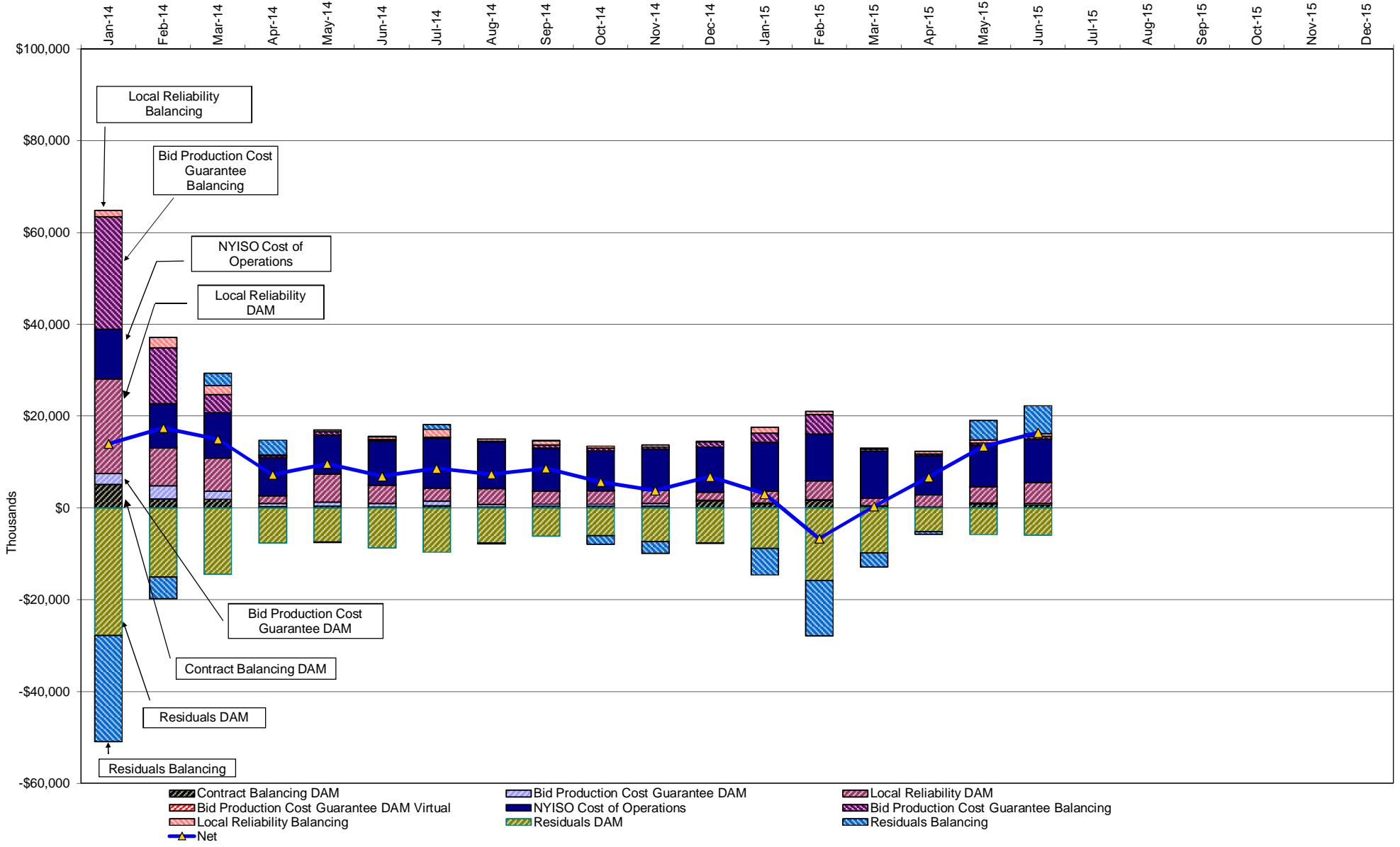
| <b>2015</b>                     | <u>January</u> | <u>February</u> | <u>March</u>  | <u>April</u> | <u>May</u>   | <u>June</u>  | <u>July</u>  | <u>August</u> | <u>September</u> | <u>October</u> | <u>November</u> | <u>December</u> |
|---------------------------------|----------------|-----------------|---------------|--------------|--------------|--------------|--------------|---------------|------------------|----------------|-----------------|-----------------|
| LBMP                            | 59.60          | 114.35          | 52.09         | 28.35        | 32.98        | 28.19        |              |               |                  |                |                 |                 |
| NTAC                            | 0.32           | 0.35            | 0.42          | 0.64         | 0.56         | 0.80         |              |               |                  |                |                 |                 |
| Reserve                         | 0.27           | 0.37            | 0.56          | 0.36         | 0.38         | 0.24         |              |               |                  |                |                 |                 |
| Regulation                      | 0.10           | 0.18            | 0.11          | 0.12         | 0.10         | 0.13         |              |               |                  |                |                 |                 |
| NYISO Cost of Operations        | 0.70           | 0.70            | 0.70          | 0.70         | 0.70         | 0.70         |              |               |                  |                |                 |                 |
| Uplift                          | (0.50)         | (1.17)          | (0.68)        | (0.14)       | 0.28         | 0.33         |              |               |                  |                |                 |                 |
| Uplift: Local Reliability Share | 0.25           | 0.33            | 0.13          | 0.27         | 0.32         | 0.37         |              |               |                  |                |                 |                 |
| Uplift: Statewide Share         | (0.75)         | (1.49)          | (0.81)        | (0.41)       | (0.04)       | (0.03)       |              |               |                  |                |                 |                 |
| Voltage Support and Black Start | 0.39           | 0.39            | 0.39          | 0.39         | 0.39         | 0.39         |              |               |                  |                |                 |                 |
| <b>Avg Monthly Cost</b>         | <b>60.88</b>   | <b>115.17</b>   | <b>53.59</b>  | <b>30.42</b> | <b>35.39</b> | <b>30.79</b> |              |               |                  |                |                 |                 |
| Avg YTD Cost                    | 60.88          | 87.68           | 76.61         | 66.80        | 60.95        | 56.02        |              |               |                  |                |                 |                 |
| TSA \$ per NYC MWh              | 0.00           | 0.00            | 0.00          | 0.00         | 0.17         | 0.50         |              |               |                  |                |                 |                 |
| <b>2014</b>                     | <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                            | 183.36         | 123.19          | 109.58        | 46.09        | 40.30        | 43.39        | 43.97        | 34.48         | 37.63            | 35.61          | 42.89           | 38.08           |
| NTAC                            | 0.56           | 0.64            | 0.39          | 1.18         | 0.69         | 0.78         | 0.43         | 0.41          | 0.50             | 0.57           | 0.68            | 0.86            |
| Reserve                         | 0.78           | 0.49            | 0.56          | 0.46         | 0.28         | 0.27         | 0.26         | 0.26          | 0.29             | 0.48           | 0.37            | 0.23            |
| Regulation                      | 0.27           | 0.21            | 0.22          | 0.13         | 0.12         | 0.12         | 0.12         | 0.13          | 0.11             | 0.12           | 0.11            | 0.08            |
| NYISO Cost of Operations        | 0.69           | 0.69            | 0.69          | 0.69         | 0.69         | 0.69         | 0.69         | 0.69          | 0.69             | 0.69           | 0.69            | 0.69            |
| Uplift                          | 0.22           | 0.56            | 0.35          | (0.09)       | 0.07         | (0.21)       | (0.26)       | (0.19)        | (0.20)           | (0.24)         | (0.40)          | (0.20)          |
| Uplift: Local Reliability Share | 1.43           | 0.75            | 0.62          | 0.15         | 0.51         | 0.32         | 0.29         | 0.27          | 0.26             | 0.26           | 0.24            | 0.13            |
| Uplift: Statewide Share         | (1.21)         | (0.19)          | (0.27)        | (0.24)       | (0.44)       | (0.53)       | (0.55)       | (0.45)        | (0.46)           | (0.50)         | (0.64)          | (0.33)          |
| Voltage Support and Black Start | 0.36           | 0.36            | 0.36          | 0.36         | 0.36         | 0.36         | 0.36         | 0.36          | 0.36             | 0.36           | 0.36            | 0.36            |
| <b>Avg Monthly Cost</b>         | <b>186.24</b>  | <b>126.14</b>   | <b>112.15</b> | <b>48.82</b> | <b>42.51</b> | <b>45.39</b> | <b>45.57</b> | <b>36.14</b>  | <b>39.38</b>     | <b>37.59</b>   | <b>44.71</b>    | <b>40.09</b>    |
| Avg YTD Cost                    | 186.24         | 157.93          | 142.77        | 121.97       | 108.36       | 97.84        | 89.46        | 82.60         | 78.07            | 74.63          | 72.06           | 69.31           |
| TSA \$ per NYC MWh              | 0.00           | 0.00            | 0.00          | 0.00         | 0.00         | 0.03         | 0.35         | 0.00          | 0.42             | 0.00           | 0.00            | 0.00            |
| <b>2013</b>                     | <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                            | 79.77          | 85.76           | 48.94         | 44.47        | 52.21        | 50.17        | 68.49        | 40.81         | 44.24            | 39.85          | 43.30           | 66.41           |
| NTAC                            | 0.79           | 0.83            | 0.76          | 0.90         | 0.85         | 0.86         | 0.66         | 0.28          | 0.57             | 0.87           | 1.08            | 0.59            |
| Reserve                         | 0.38           | 0.44            | 0.43          | 0.36         | 0.49         | 0.34         | 0.50         | 0.32          | 0.38             | 0.42           | 0.38            | 0.44            |
| Regulation                      | 0.13           | 0.13            | 0.10          | 0.11         | 0.09         | 0.13         | 0.11         | 0.13          | 0.13             | 0.16           | 0.13            | 0.12            |
| NYISO Cost of Operations        | 0.69           | 0.69            | 0.69          | 0.69         | 0.69         | 0.69         | 0.69         | 0.69          | 0.69             | 0.69           | 0.69            | 0.69            |
| Uplift                          | 0.21           | (0.15)          | (0.33)        | 0.02         | 0.41         | 0.49         | 2.06         | 0.03          | (0.05)           | 0.18           | (0.07)          | (0.25)          |
| Uplift: Local Reliability Share | 0.44           | 0.40            | 0.19          | 0.37         | 0.58         | 0.81         | 1.27         | 0.49          | 0.31             | 0.38           | 0.19            | 0.12            |
| Uplift: Statewide Share         | (0.23)         | (0.55)          | (0.52)        | (0.35)       | (0.17)       | (0.31)       | 0.79         | (0.46)        | (0.36)           | (0.19)         | (0.25)          | (0.37)          |
| Voltage Support and Black Start | 0.36           | 0.36            | 0.36          | 0.36         | 0.36         | 0.36         | 0.36         | 0.36          | 0.36             | 0.36           | 0.36            | 0.36            |
| <b>Avg Monthly Cost</b>         | <b>82.34</b>   | <b>88.06</b>    | <b>50.96</b>  | <b>46.91</b> | <b>55.10</b> | <b>53.05</b> | <b>72.87</b> | <b>42.62</b>  | <b>46.31</b>     | <b>42.54</b>   | <b>45.88</b>    | <b>68.36</b>    |
| Avg YTD Cost                    | 82.34          | 85.08           | 74.02         | 67.80        | 65.46        | 63.36        | 65.10        | 62.27         | 60.74            | 59.30          | 58.24           | 59.13           |
| TSA \$ per NYC MWh              | 0.00           | 0.00            | 0.00          | 0.04         | 0.58         | 0.61         | 1.52         | 0.43          | 0.22             | 0.01           | 0.00            | 0.00            |

\* Excludes ICAP payments.  
Market Mitigation and Analysis  
Prepared: 7/7/2015 11:22 AM

Data reflects true-ups thru Dec 2014.



## NYISO Dollar Flows - Uplift- OATT Schedule 1 components - Data through June 30, 2015



## NYISO Markets Transactions

| 2015   | January    | February   | March      | April      | May        | June       | July | August | September | October | November | December |
|--|------------|------------|------------|------------|------------|------------|------|--------|-----------|---------|----------|----------|
| <b>Day Ahead Market MWh</b>                                    | 15,961,306 | 14,967,371 | 15,059,207 | 12,589,321 | 13,291,917 | 14,277,299 |      |        |           |         |          |          |
| DAM LSE Internal LBMP Energy Sales                             | 55%        | 54%        | 53%        | 55%        | 57%        | 57%        |      |        |           |         |          |          |
| DAM External TC LBMP Energy Sales                              | 5%         | 6%         | 6%         | 4%         | 2%         | 1%         |      |        |           |         |          |          |
| DAM Bilateral - Internal Bilaterals                            | 35%        | 33%        | 33%        | 33%        | 35%        | 33%        |      |        |           |         |          |          |
| DAM Bilateral - Import/Non-LBMP Market Bilaterals              | 3%         | 5%         | 5%         | 6%         | 4%         | 5%         |      |        |           |         |          |          |
| DAM Bilateral - Export/Non-LBMP Market Bilaterals              | 2%         | 2%         | 1%         | 2%         | 1%         | 1%         |      |        |           |         |          |          |
| DAM Bilateral - Wheel Through Bilaterals                       | 0%         | 1%         | 1%         | 1%         | 0%         | 2%         |      |        |           |         |          |          |
| <b>Balancing Energy Market MWh</b>                             | -648,574   | -287,795   | -397,342   | -410,311   | -327,906   | -545,880   |      |        |           |         |          |          |
| Balancing Energy LSE Internal LBMP Energy Sales                | -149%      | -252%      | -192%      | -147%      | -143%      | -106%      |      |        |           |         |          |          |
| Balancing Energy External TC LBMP Energy Sales                 | 30%        | 117%       | 64%        | 36%        | 36%        | 17%        |      |        |           |         |          |          |
| Balancing Energy Bilateral - Internal Bilaterals               | 13%        | 14%        | 19%        | 5%         | 6%         | 6%         |      |        |           |         |          |          |
| Balancing Energy Bilateral - Import/Non-LBMP Market Bilaterals | 0%         | 0%         | 0%         | 0%         | 0%         | 1%         |      |        |           |         |          |          |
| Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals | 6%         | 8%         | 12%        | 11%        | 10%        | 4%         |      |        |           |         |          |          |
| Balancing Energy Bilateral - Wheel Through Bilaterals          | 0%         | 12%        | -4%        | -5%        | -9%        | -22%       |      |        |           |         |          |          |
| <b>Transactions Summary</b>                                    |            |            |            |            |            |            |      |        |           |         |          |          |
| LBMP   | 58%        | 59%        | 57%        | 57%        | 58%        | 57%        |      |        |           |         |          |          |
| Internal Bilaterals  | 37%        | 34%        | 35%        | 35%        | 36%        | 35%        |      |        |           |         |          |          |
| Import Bilaterals  | 3%         | 5%         | 5%         | 6%         | 4%         | 5%         |      |        |           |         |          |          |
| Export Bilaterals  | 2%         | 2%         | 2%         | 2%         | 2%         | 1%         |      |        |           |         |          |          |
| Wheels Through   | 0%         | 1%         | 1%         | 0%         | 0%         | 1%         |      |        |           |         |          |          |
| <b>Market Share of Total Load</b>                              |            |            |            |            |            |            |      |        |           |         |          |          |
| Day Ahead Market   | 104.2%     | 102.0%     | 102.7%     | 103.4%     | 102.5%     | 104.0%     |      |        |           |         |          |          |
| Balancing Energy +   | -4.2%      | -2.0%      | -2.7%      | -3.4%      | -2.5%      | -4.0%      |      |        |           |         |          |          |
| Total MWH  | 15,312,732 | 14,679,576 | 14,661,865 | 12,179,010 | 12,964,011 | 13,731,419 |      |        |           |         |          |          |
| Average Daily Energy Sendout/Month GWh                         | 462        | 481        | 436        | 387        | 409        | 450        |      |        |           |         |          |          |

| 2014   | January    | February   | March      | April      | May        | June       | July       | August     | September  | October    | November   | December   |
|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| <b>Day Ahead Market MWh</b>                                    | 16,034,264 | 14,409,515 | 14,633,570 | 12,101,747 | 12,984,458 | 14,719,929 | 16,528,338 | 15,536,610 | 14,312,509 | 13,684,158 | 13,945,509 | 14,992,656 |
| DAM LSE Internal LBMP Energy Sales                             | 52%        | 50%        | 53%        | 56%        | 53%        | 54%        | 58%        | 57%        | 56%        | 54%        | 54%        | 54%        |
| DAM External TC LBMP Energy Sales                              | 5%         | 7%         | 6%         | 3%         | 2%         | 3%         | 1%         | 0%         | 1%         | 2%         | 5%         | 5%         |
| DAM Bilateral - Internal Bilaterals                            | 36%        | 36%        | 35%        | 33%        | 38%        | 36%        | 34%        | 35%        | 36%        | 38%        | 36%        | 36%        |
| DAM Bilateral - Import/Non-LBMP Market Bilaterals              | 5%         | 5%         | 5%         | 6%         | 5%         | 5%         | 4%         | 5%         | 4%         | 4%         | 3%         | 3%         |
| DAM Bilateral - Export/Non-LBMP Market Bilaterals              | 2%         | 1%         | 1%         | 2%         | 2%         | 1%         | 1%         | 1%         | 1%         | 2%         | 2%         | 2%         |
| DAM Bilateral - Wheel Through Bilaterals                       | 1%         | 1%         | 1%         | 0%         | 1%         | 1%         | 1%         | 1%         | 1%         | 0%         | 0%         | 0%         |
| <b>Balancing Energy Market MWh</b>                             | -249,484   | -298,340   | -116,173   | 54,298     | -510,467   | -558,413   | -854,501   | -764,108   | -674,285   | -999,342   | -750,627   | -705,848   |
| Balancing Energy LSE Internal LBMP Energy Sales                | -232%      | -203%      | -294%      | -190%      | -133%      | -114%      | -116%      | -117%      | -129%      | -124%      | -134%      | -137%      |
| Balancing Energy External TC LBMP Energy Sales                 | 105%       | 76%        | 97%        | 207%       | 21%        | 22%        | 18%        | 15%        | 24%        | 14%        | 20%        | 28%        |
| Balancing Energy Bilateral - Internal Bilaterals               | 20%        | 26%        | 69%        | 27%        | 3%         | 7%         | 4%         | 7%         | 7%         | 7%         | 9%         | 4%         |
| Balancing Energy Bilateral - Import/Non-LBMP Market Bilaterals | 0%         | 0%         | 12%        | 0%         | 3%         | 0%         | 0%         | 0%         | 2%         | 1%         | 0%         | 0%         |
| Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals | 11%        | 6%         | 25%        | 67%        | 4%         | 3%         | 2%         | 2%         | 3%         | 3%         | 5%         | 3%         |
| Balancing Energy Bilateral - Wheel Through Bilaterals          | -4%        | -6%        | -10%       | -12%       | 1%         | -18%       | -8%        | -7%        | -7%        | -1%        | 0%         | 1%         |
| <b>Transactions Summary</b>                                    |            |            |            |            |            |            |            |            |            |            |            |            |
| LBMP   | 56%        | 56%        | 57%        | 59%        | 53%        | 55%        | 57%        | 55%        | 55%        | 52%        | 55%        | 56%        |
| Internal Bilaterals  | 37%        | 37%        | 36%        | 33%        | 39%        | 38%        | 36%        | 37%        | 38%        | 42%        | 39%        | 38%        |
| Import Bilaterals  | 5%         | 5%         | 5%         | 6%         | 5%         | 5%         | 5%         | 5%         | 5%         | 4%         | 4%         | 3%         |
| Export Bilaterals  | 2%         | 1%         | 2%         | 2%         | 2%         | 1%         | 1%         | 2%         | 2%         | 2%         | 2%         | 2%         |
| Wheels Through   | 1%         | 1%         | 1%         | 0%         | 1%         | 1%         | 1%         | 1%         | 1%         | 0%         | 1%         | 0%         |
| <b>Market Share of Total Load</b>                              |            |            |            |            |            |            |            |            |            |            |            |            |
| Day Ahead Market   | 101.6%     | 102.1%     | 100.8%     | 99.6%      | 104.1%     | 103.9%     | 105.5%     | 105.2%     | 104.9%     | 107.9%     | 105.7%     | 104.9%     |
| Balancing Energy +   | -1.6%      | -2.1%      | -0.8%      | 0.4%       | -4.1%      | -3.9%      | -5.5%      | -5.2%      | -4.9%      | -7.9%      | -5.7%      | -4.9%      |
| Total MWH  | 15,784,780 | 14,111,175 | 14,517,397 | 12,156,045 | 12,473,991 | 14,161,516 | 15,673,837 | 14,772,502 | 13,638,224 | 12,684,816 | 13,194,882 | 14,286,808 |
| Average Daily Energy Sendout/Month GWh                         | 475        | 460        | 440        | 390        | 391        | 456        | 496        | 470        | 442        | 394        | 413        | 433        |

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

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

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

### NYISO Markets 2015 Energy Statistics

|  | <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> |
|--|----------------|-----------------|--------------|--------------|------------|-------------|-------------|---------------|------------------|----------------|-----------------|-----------------|
| <b><u>DAY AHEAD LBMP</u></b>           |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| Price *                                | \$53.35        | \$101.48        | \$46.59      | \$26.07      | \$29.21    | \$24.30     |             |               |                  |                |                 |                 |
| Standard Deviation                     | \$24.61        | \$48.85         | \$21.51      | \$6.73       | \$13.44    | \$11.96     |             |               |                  |                |                 |                 |
| Load Weighted Price **                 | \$55.40        | \$104.52        | \$48.01      | \$26.84      | \$31.08    | \$26.12     |             |               |                  |                |                 |                 |
| <b><u>RTC LBMP</u></b>                 |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| Price *                                | \$46.98        | \$95.06         | \$43.43      | \$25.11      | \$32.85    | \$24.73     |             |               |                  |                |                 |                 |
| Standard Deviation                     | \$22.84        | \$47.55         | \$29.42      | \$12.31      | \$35.40    | \$24.71     |             |               |                  |                |                 |                 |
| Load Weighted Price **                 | \$48.59        | \$97.62         | \$45.10      | \$26.00      | \$35.08    | \$26.73     |             |               |                  |                |                 |                 |
| <b><u>REAL TIME LBMP</u></b>           |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| Price *                                | \$48.51        | \$98.83         | \$44.38      | \$25.46      | \$30.39    | \$23.96     |             |               |                  |                |                 |                 |
| Standard Deviation                     | \$25.99        | \$52.53         | \$29.07      | \$12.66      | \$31.69    | \$31.14     |             |               |                  |                |                 |                 |
| Load Weighted Price **                 | \$50.18        | \$101.34        | \$46.10      | \$26.28      | \$32.52    | \$26.86     |             |               |                  |                |                 |                 |
| Average Daily Energy Sendout/Month GWh | 462            | 481             | 436          | 387          | 409        | 450         |             |               |                  |                |                 |                 |

### NYISO Markets 2014 Energy Statistics

|  | <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> |
|--|----------------|-----------------|--------------|--------------|------------|-------------|-------------|---------------|------------------|----------------|-----------------|-----------------|
| <b><u>DAY AHEAD LBMP</u></b>           |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| Price *                                | \$155.11       | \$110.69        | \$97.07      | \$44.16      | \$36.61    | \$39.17     | \$38.82     | \$31.78       | \$32.49          | \$31.65        | \$39.19         | \$35.12         |
| Standard Deviation                     | \$121.52       | \$50.86         | \$59.89      | \$8.90       | \$10.99    | \$12.29     | \$15.56     | \$9.90        | \$11.59          | \$9.77         | \$13.38         | \$11.21         |
| Load Weighted Price **                 | \$164.06       | \$114.77        | \$100.81     | \$45.19      | \$38.05    | \$41.14     | \$41.18     | \$33.28       | \$34.31          | \$32.89        | \$40.57         | \$36.33         |
| <b><u>RTC LBMP</u></b>                 |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| Price *                                | \$138.41       | \$110.71        | \$94.71      | \$44.00      | \$33.16    | \$37.34     | \$35.32     | \$31.74       | \$32.89          | \$29.23        | \$34.27         | \$34.99         |
| Standard Deviation                     | \$125.42       | \$72.22         | \$97.72      | \$27.44      | \$17.51    | \$25.39     | \$24.90     | \$23.34       | \$33.68          | \$20.45        | \$14.23         | \$35.81         |
| Load Weighted Price **                 | \$147.06       | \$115.31        | \$98.80      | \$45.48      | \$34.63    | \$39.64     | \$37.85     | \$33.48       | \$35.31          | \$30.74        | \$35.46         | \$36.79         |
| <b><u>REAL TIME LBMP</u></b>           |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| Price *                                | \$137.90       | \$111.51        | \$93.37      | \$42.79      | \$34.06    | \$38.23     | \$35.97     | \$31.21       | \$32.50          | \$29.36        | \$36.01         | \$34.80         |
| Standard Deviation                     | \$122.32       | \$70.35         | \$89.05      | \$19.38      | \$17.15    | \$23.33     | \$27.27     | \$18.18       | \$33.51          | \$21.14        | \$17.99         | \$42.67         |
| Load Weighted Price **                 | \$147.77       | \$115.80        | \$97.58      | \$43.97      | \$35.46    | \$40.71     | \$39.00     | \$33.13       | \$35.42          | \$30.81        | \$37.17         | \$36.69         |
| Average Daily Energy Sendout/Month GWh | 475            | 460             | 440          | 390          | 391        | 456         | 496         | 470           | 442              | 394            | 413             | 433             |

\* Average zonal load weighted prices.

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

### NYISO Monthly Average Internal LBMPs 2014- 2015

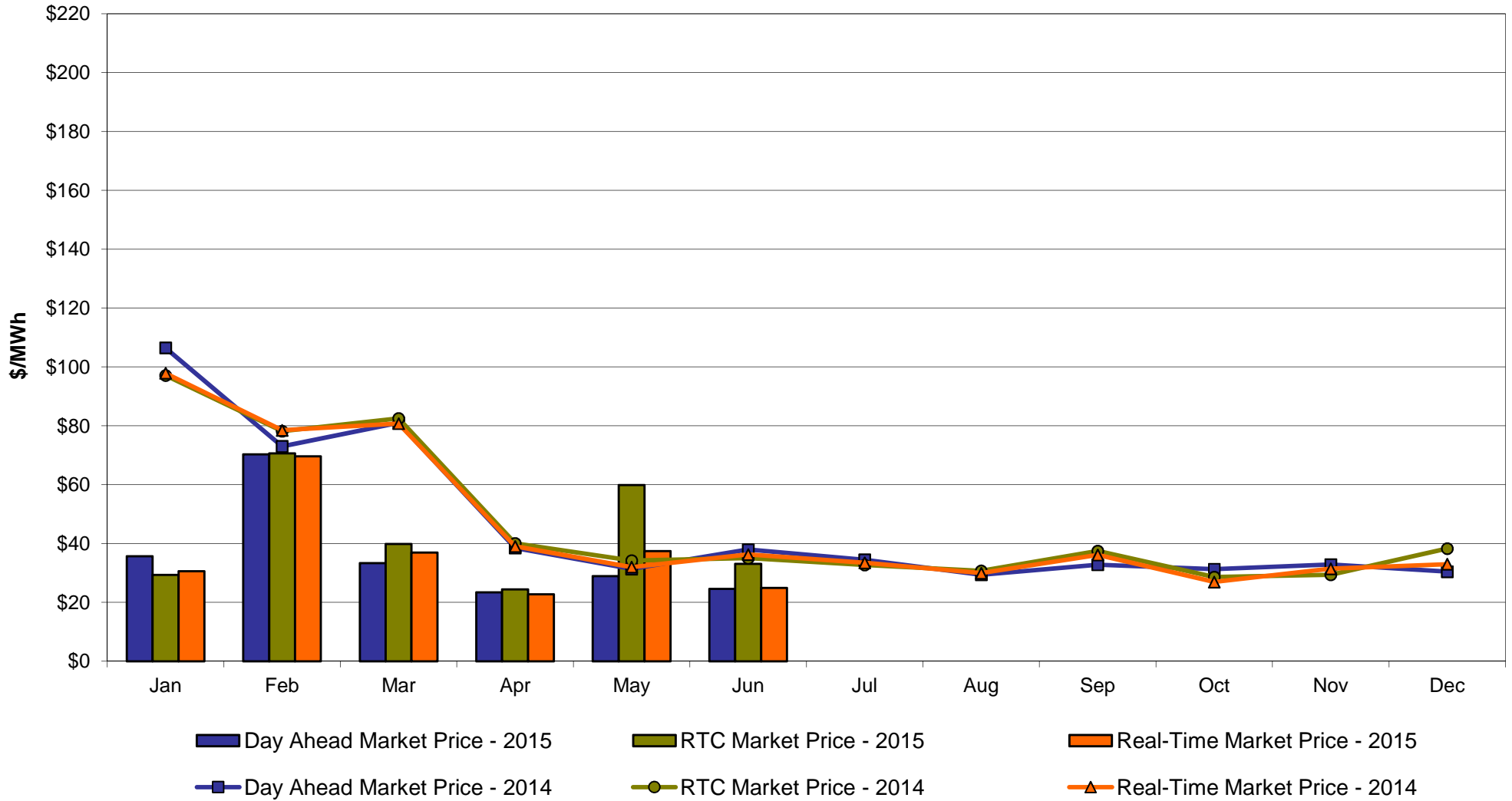


**June 2015 Zonal LBMP Statistics for NYISO (\$/MWh)**

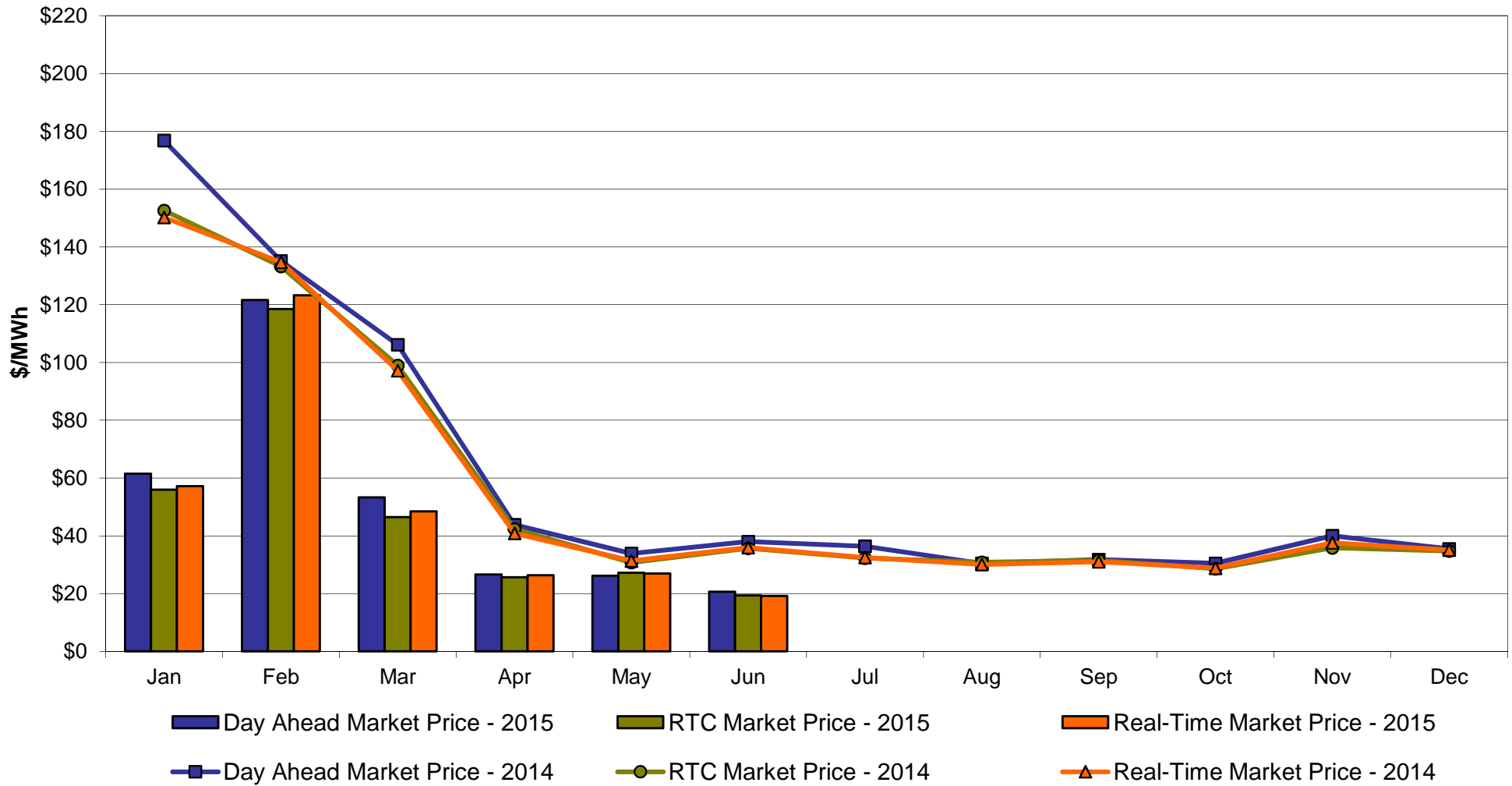
|                              | <u>WEST</u><br><u>Zone A</u>                   | <u>GENESEE</u><br><u>Zone B</u>                                  | <u>NORTH</u><br><u>Zone D</u>  | <u>CENTRAL</u><br><u>Zone C</u> | <u>MOHAWK</u><br><u>VALLEY</u><br><u>Zone E</u> | <u>CAPITAL</u><br><u>Zone F</u>  | <u>HUDSON</u><br><u>VALLEY</u><br><u>Zone G</u>                           | <u>MILLWOOD</u><br><u>Zone H</u>                     | <u>DUNWOODIE</u><br><u>Zone I</u>                       | <u>NEW YORK</u><br><u>CITY</u><br><u>Zone J</u>     | <u>LONG</u><br><u>ISLAND</u><br><u>Zone K</u>         |
|------------------------------|--|--|--|---------------------------------|---|--|---|--|---|---|---|
| <b><u>DAY AHEAD LBMP</u></b> |  |  |  |                                 |   |  |   |  |   |   |   |
| Unweighted Price *           | 24.60  | 19.11  | 18.02  | 20.24                           | 20.03   | 20.63  | 23.88   | 24.35  | 24.39   | 24.95   | 30.72   |
| Standard Deviation           | 14.64  | 7.63   | 7.28   | 8.46                            | 8.19  | 8.00   | 11.53   | 12.38  | 12.44   | 12.64   | 17.80   |
| <b><u>RTC LBMP</u></b>       |  |  |  |                                 |   |  |   |  |   |   |   |
| Unweighted Price *           | 33.06  | 17.85  | 17.10  | 20.40                           | 19.27   | 19.40  | 22.36   | 22.72  | 22.73   | 23.83   | 33.31   |
| Standard Deviation           | 69.31  | 11.37  | 11.30  | 17.12                           | 13.62   | 12.69  | 22.50   | 24.69  | 24.97   | 25.60   | 69.32   |
| <b><u>REAL TIME LBMP</u></b> |  |  |  |                                 |   |  |   |  |   |   |   |
| Unweighted Price *           | 24.88  | 17.76  | 16.97  | 18.88                           | 18.61   | 19.18  | 22.98   | 23.49  | 23.52   | 25.30   | 30.73   |
| Standard Deviation           | 50.73  | 15.74  | 15.42  | 18.60                           | 17.26   | 17.51  | 36.57   | 40.64  | 41.16   | 42.14   | 46.25   |
|                              | <u>ONTARIO</u><br><u>IESO</u><br><u>Zone O</u> | <u>HYDRO</u><br><u>QUEBEC</u><br><u>(Wheel)</u><br><u>Zone M</u> | <u>HYDRO</u><br><u>QUEBEC</u><br><u>(Import/Export)</u><br><u>Zone M</u> | <u>PJM</u><br><u>Zone P</u>     | <u>NEW</u><br><u>ENGLAND</u><br><u>Zone N</u>   | <u>CROSS</u><br><u>SOUND</u><br><u>CABLE</u><br><u>Controllable</u><br><u>Line</u> | <u>NORTHPORT-</u><br><u>NORWALK</u><br><u>Controllable</u><br><u>Line</u> | <u>NEPTUNE</u><br><u>Controllable</u><br><u>Line</u> | <u>LINDEN VFT</u><br><u>Controllable</u><br><u>Line</u> | <u>HUDSON</u><br><u>Controllable</u><br><u>Line</u> | <u>Dennison</u><br><u>Controllable</u><br><u>Line</u> |
| <b><u>DAY AHEAD LBMP</u></b> |  |  |  |                                 |   |  |   |  |   |   |   |
| Unweighted Price *           | 17.78  | 18.37  | 18.37  | 23.22                           | 21.96   | 29.86  | 25.70   | 29.09  | 24.33   | 24.54   | 17.72   |
| Standard Deviation           | 6.47   | 7.27   | 7.27   | 11.36                           | 9.44  | 15.50  | 9.02  | 14.34  | 11.82   | 12.50   | 7.05  |
| <b><u>RTC LBMP</u></b>       |  |  |  |                                 |   |  |   |  |   |   |   |
| Unweighted Price *           | 14.26  | 16.45  | 16.45  | 26.65                           | 20.28   | 32.10  | 30.29   | 31.50  | 22.84   | 22.71   | 16.71   |
| Standard Deviation           | 14.68  | 10.63  | 10.63  | 46.66                           | 14.80   | 68.42  | 66.75   | 68.13  | 25.57   | 24.20   | 10.85   |
| <b><u>REAL TIME LBMP</u></b> |  |  |  |                                 |   |  |   |  |   |   |   |
| Unweighted Price *           | 15.89  | 16.19  | 16.19  | 25.56                           | 20.74   | 29.07  | 19.91   | 28.17  | 23.42   | 23.57   | 16.83   |
| Standard Deviation           | 15.83  | 14.29  | 14.29  | 59.66                           | 23.87   | 42.02  | 43.39   | 40.90  | 40.12   | 40.34   | 15.48   |

\* Straight LBMP averages

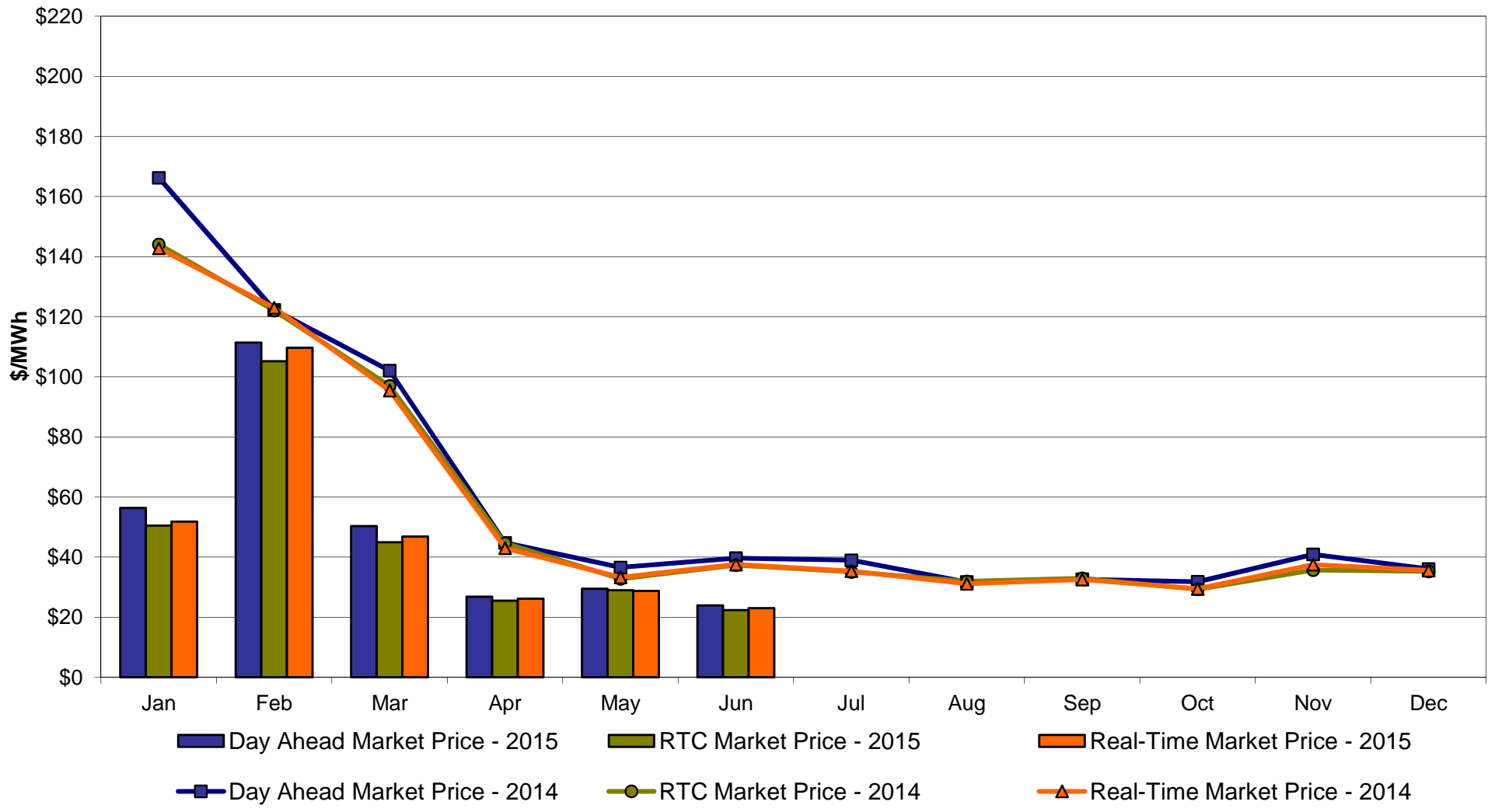
## West Zone A Monthly Average LBMP Prices 2014 - 2015



## Capital Zone F Monthly Average LBMP Prices 2014 - 2015

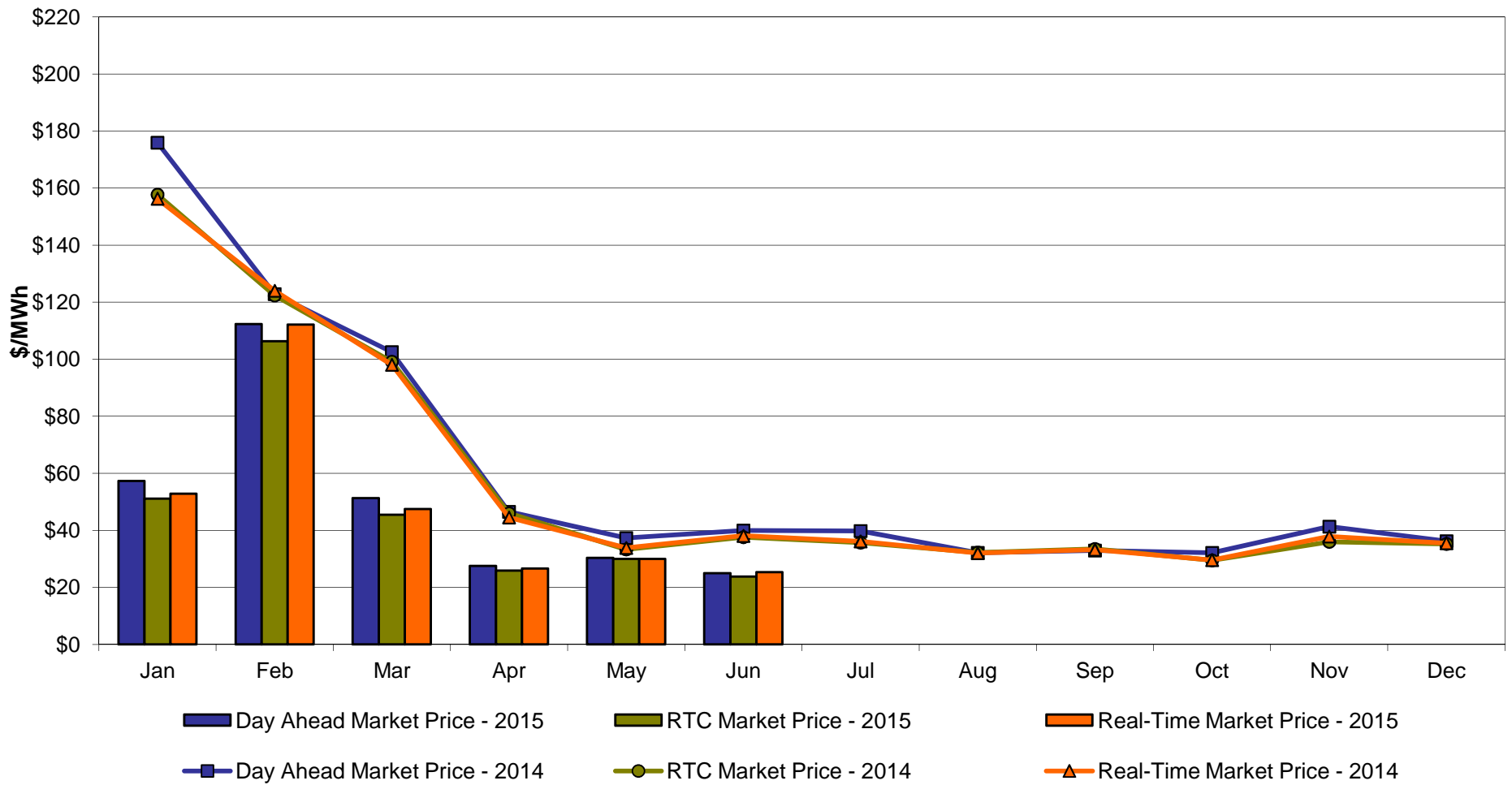


## Hudson Valley Zone G Monthly Average LBMP Prices 2014 - 2015

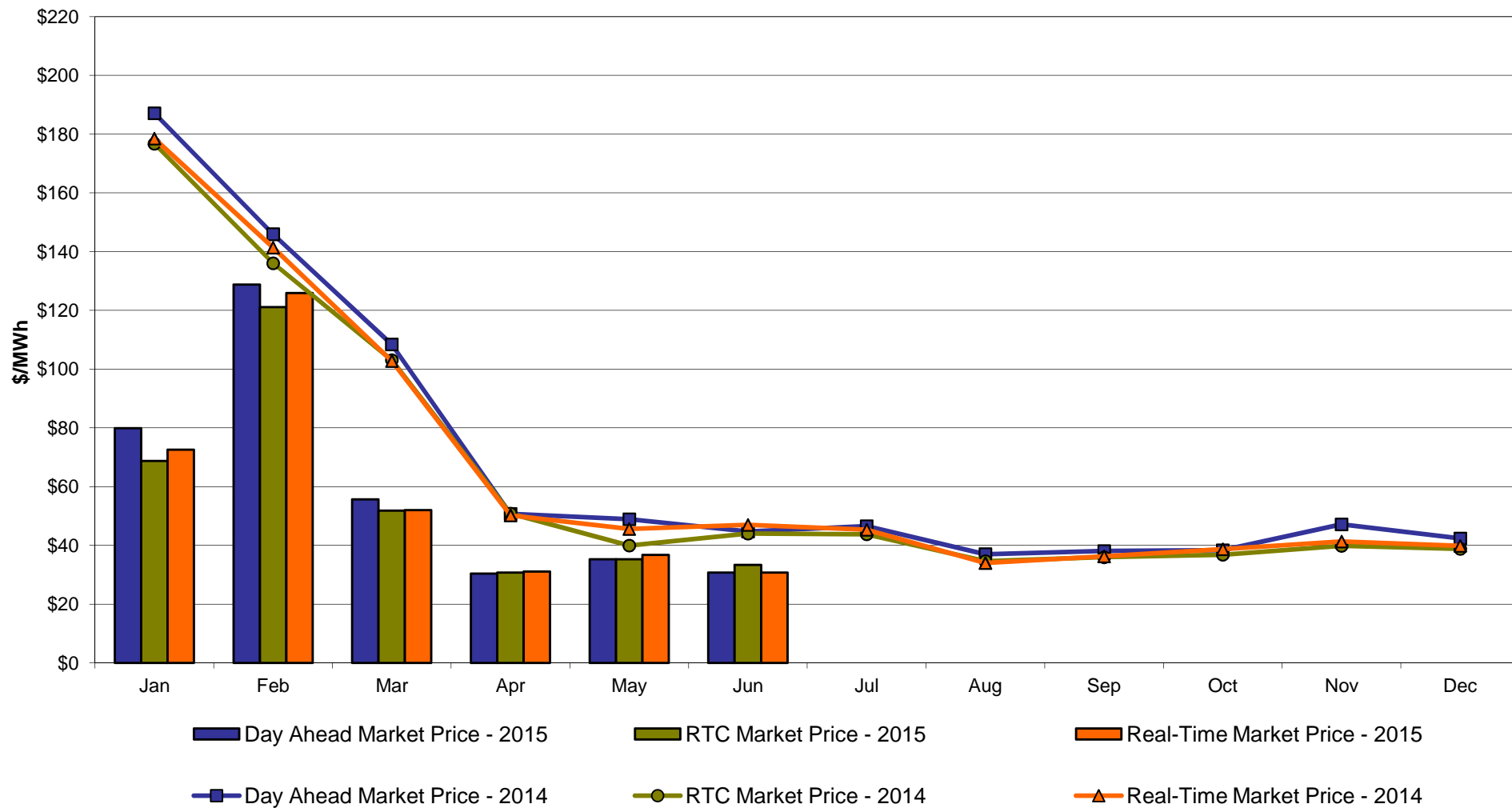




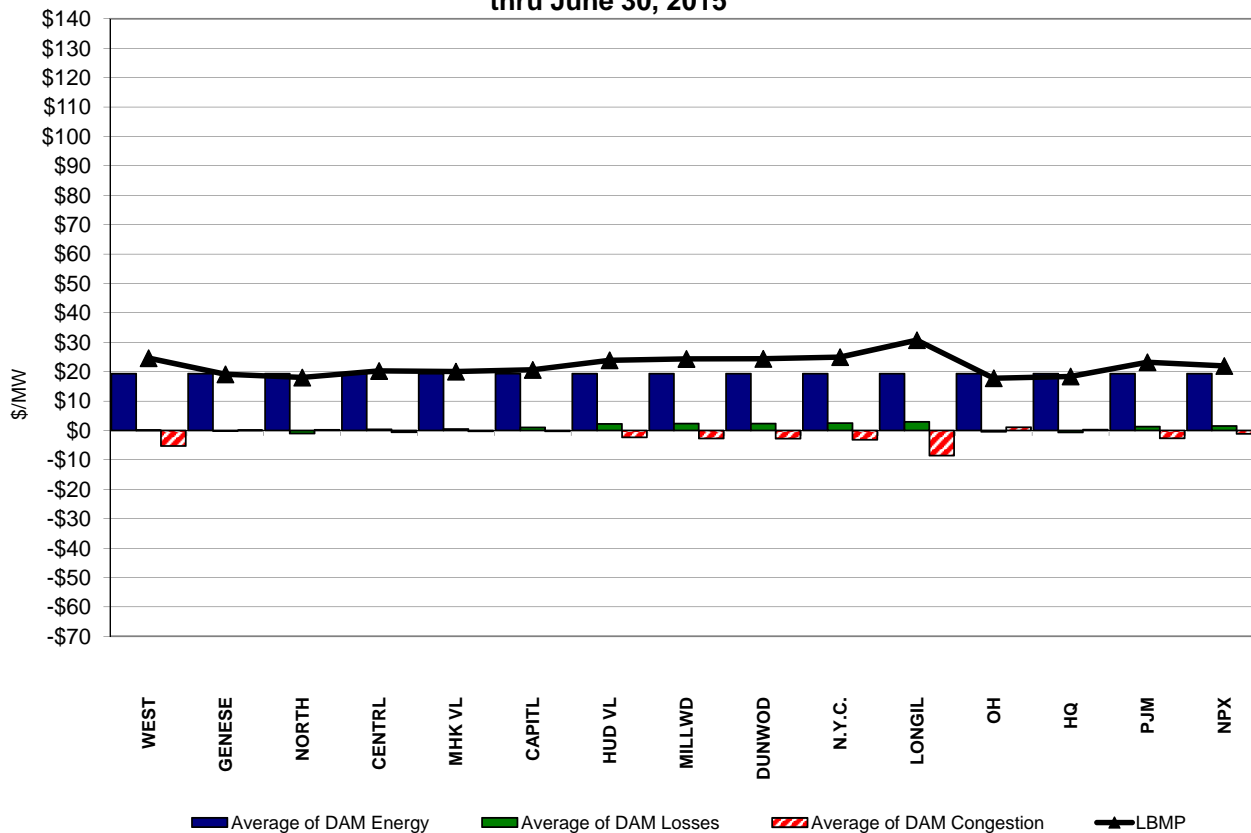
## NYC Zone J Monthly Average LBMP Prices 2014 - 2015



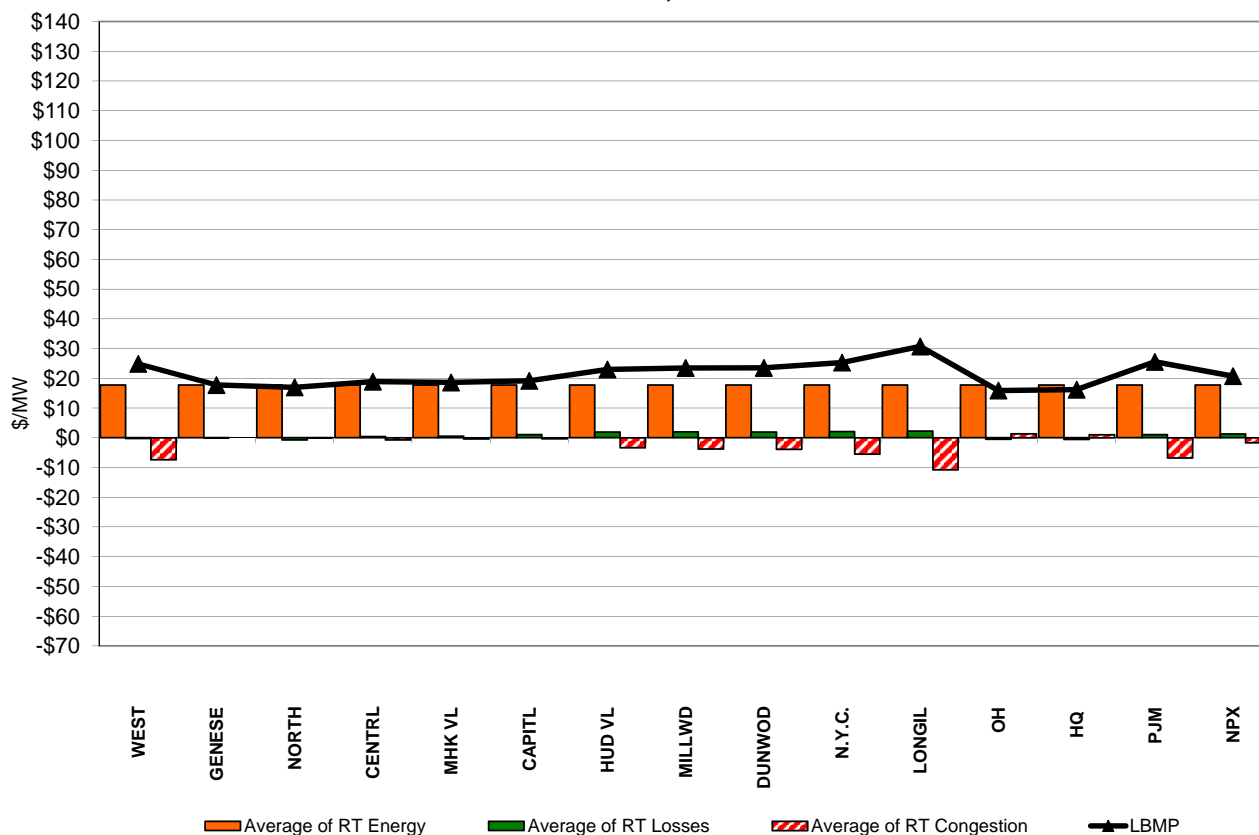
## Long Island Zone K Monthly Average LBMP Prices 2014 - 2015



### DAM Zonal Unweighted Monthly Average LBMP Components thru June 30, 2015

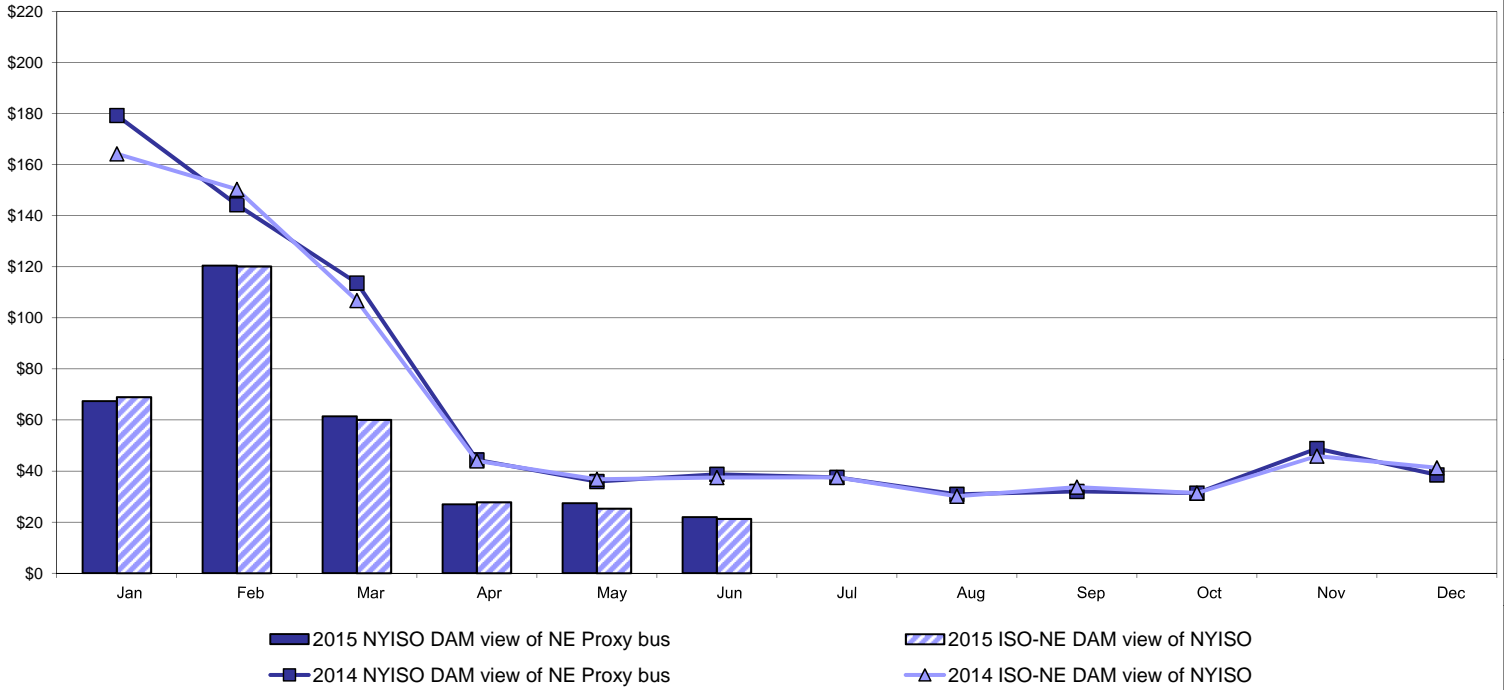


### RT Zonal Unweighted Monthly Average LBMP Components thru June 30, 2015

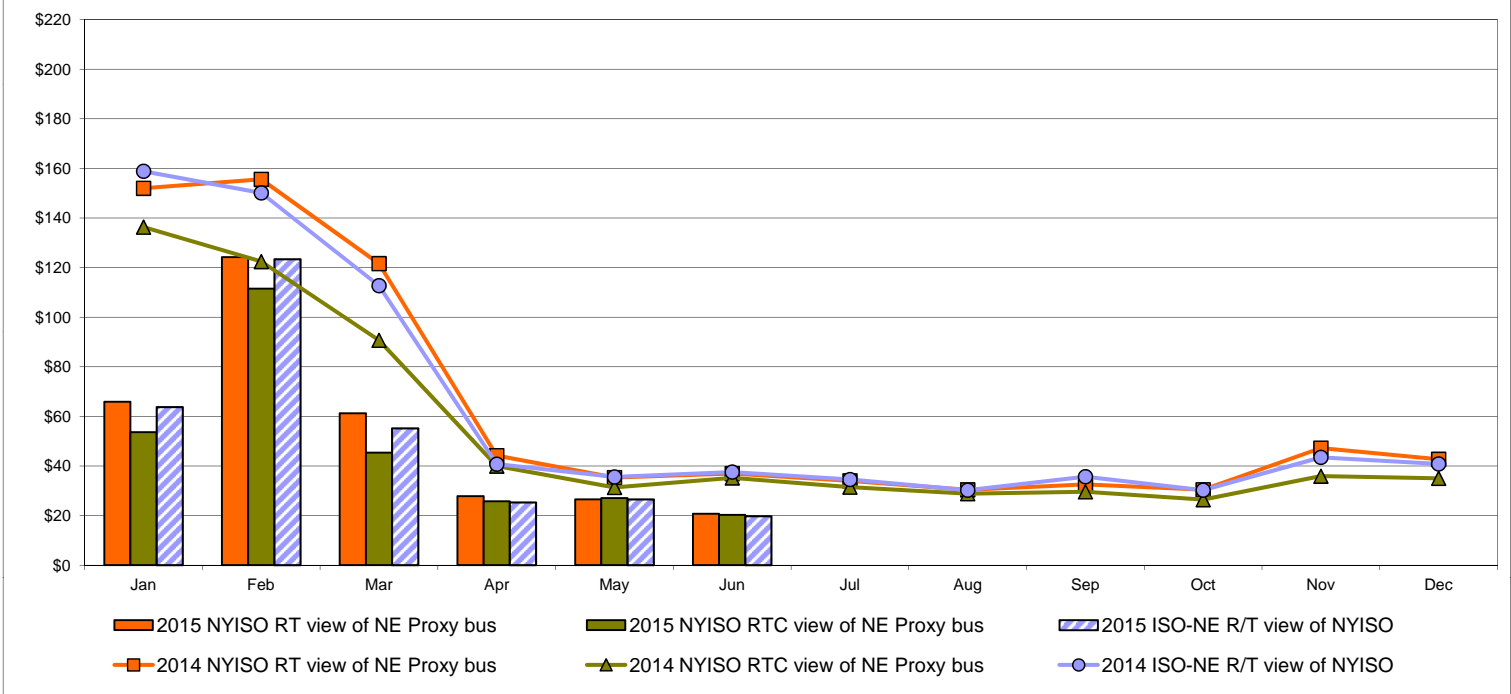


# External Comparison ISO-New England

### Day Ahead Market External Zone Comparison: ISO-NE (\$/MWh)

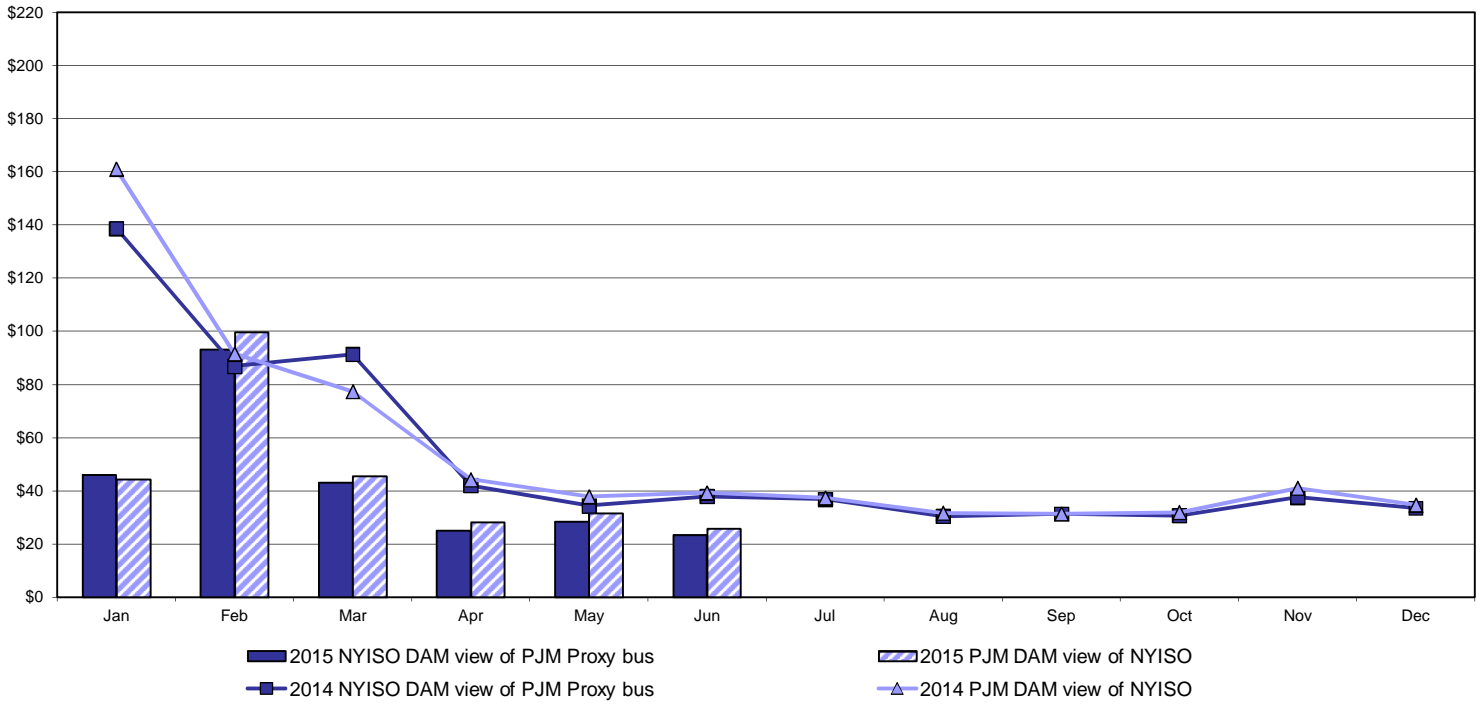


### Real Time Market External Zone Comparison: ISO-NE (\$/MWh)

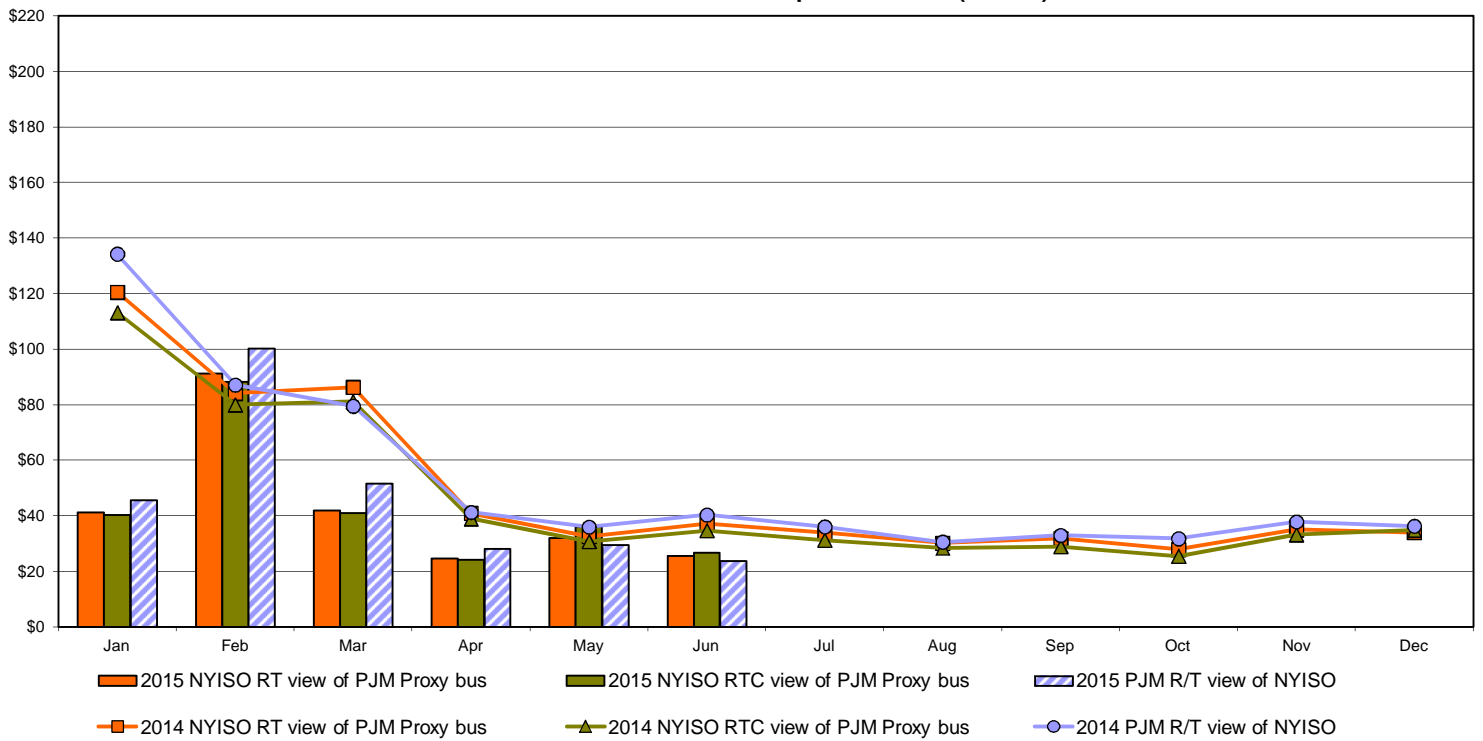


# External Comparison PJM

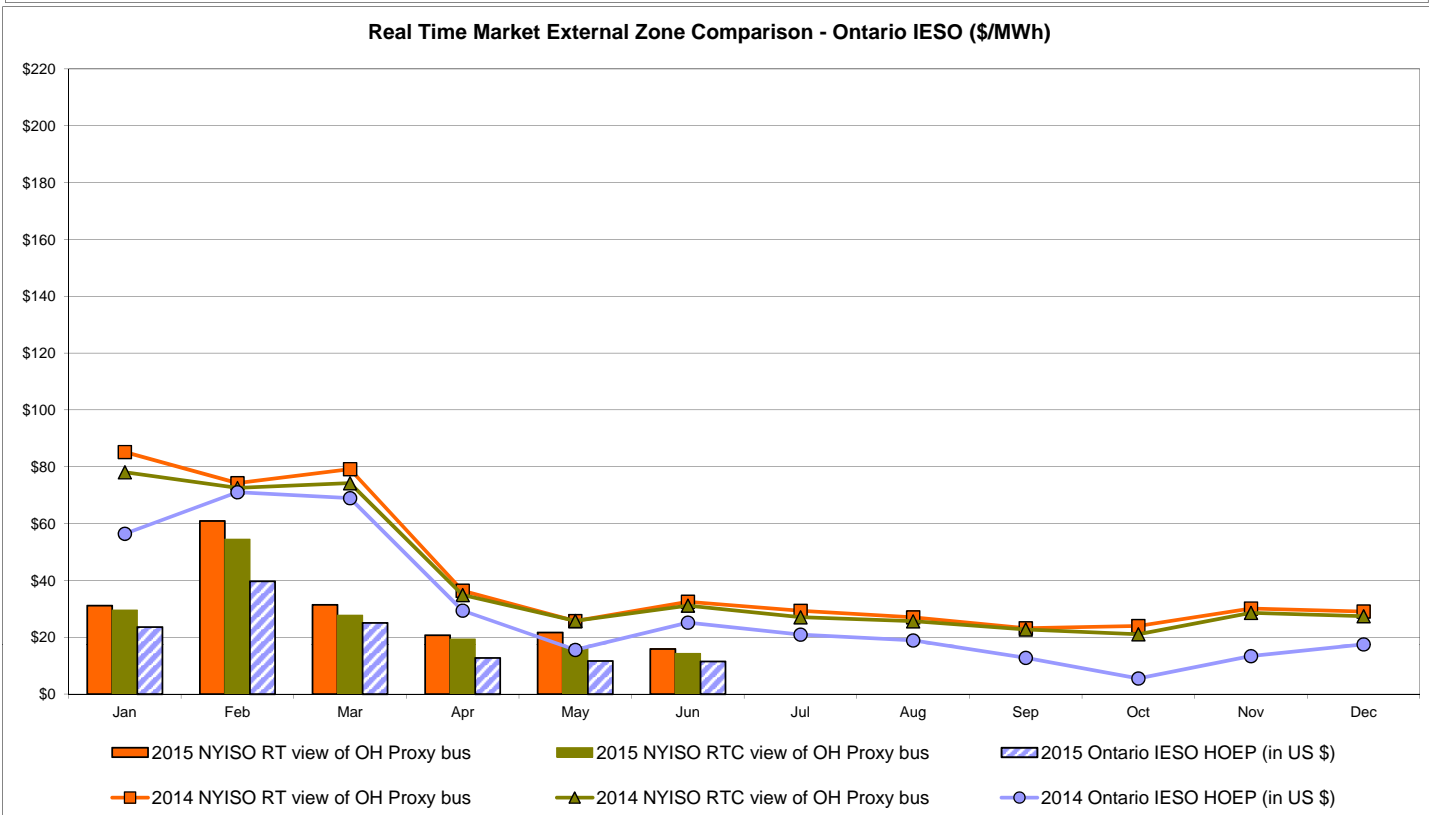
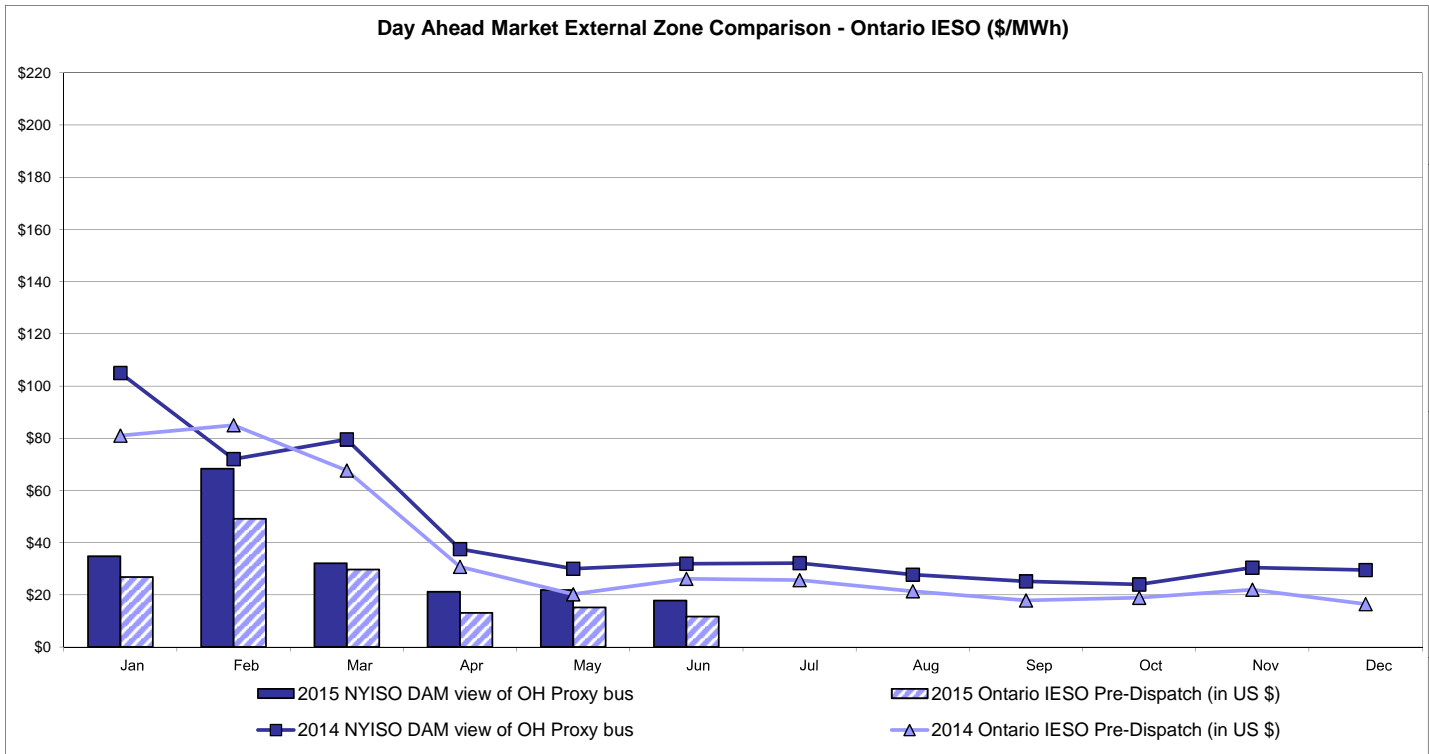
## Day Ahead Market External Zone Comparison - PJM (\$/MWh)



## Real Time Market External Zone Comparison - PJM (\$/MWh)

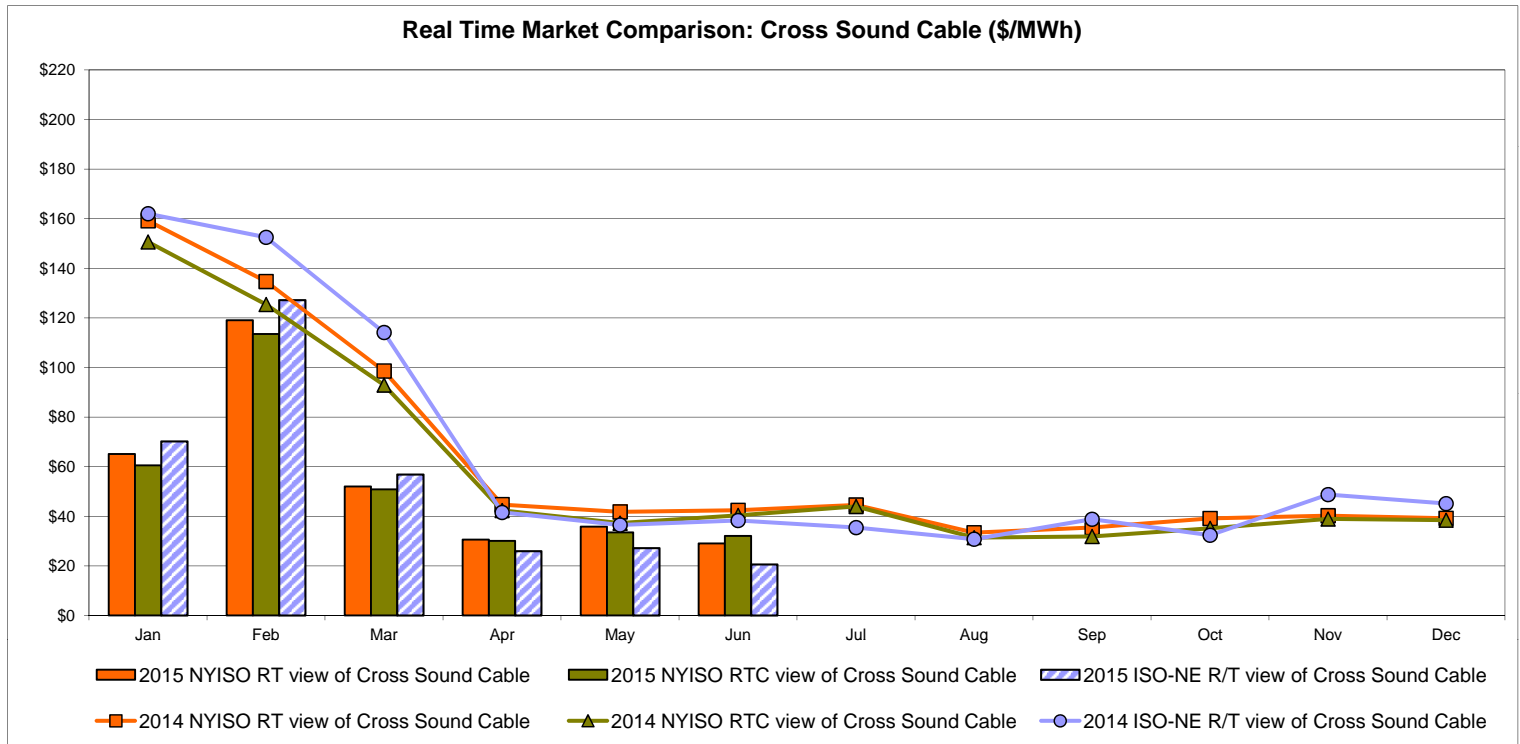
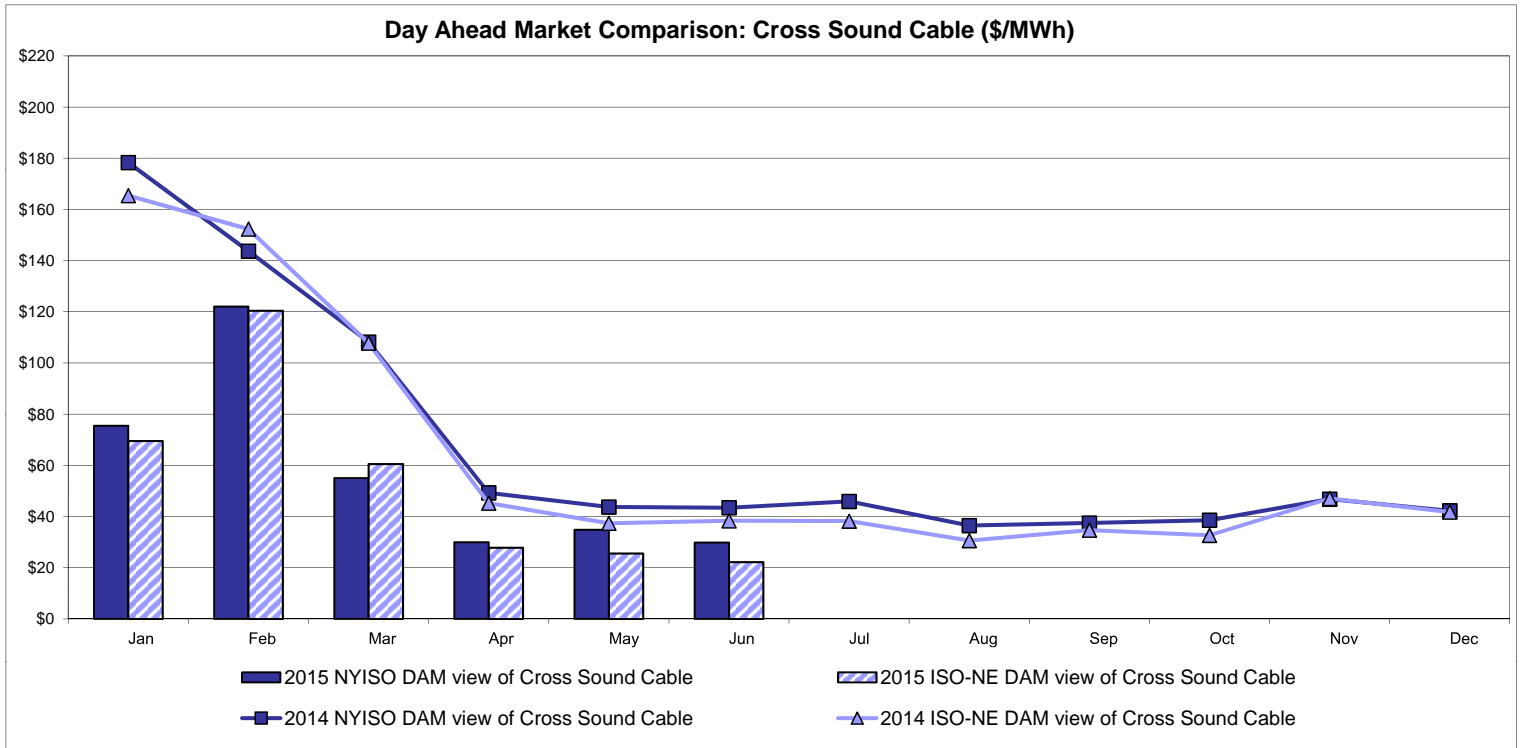


# External Comparison Ontario IESO



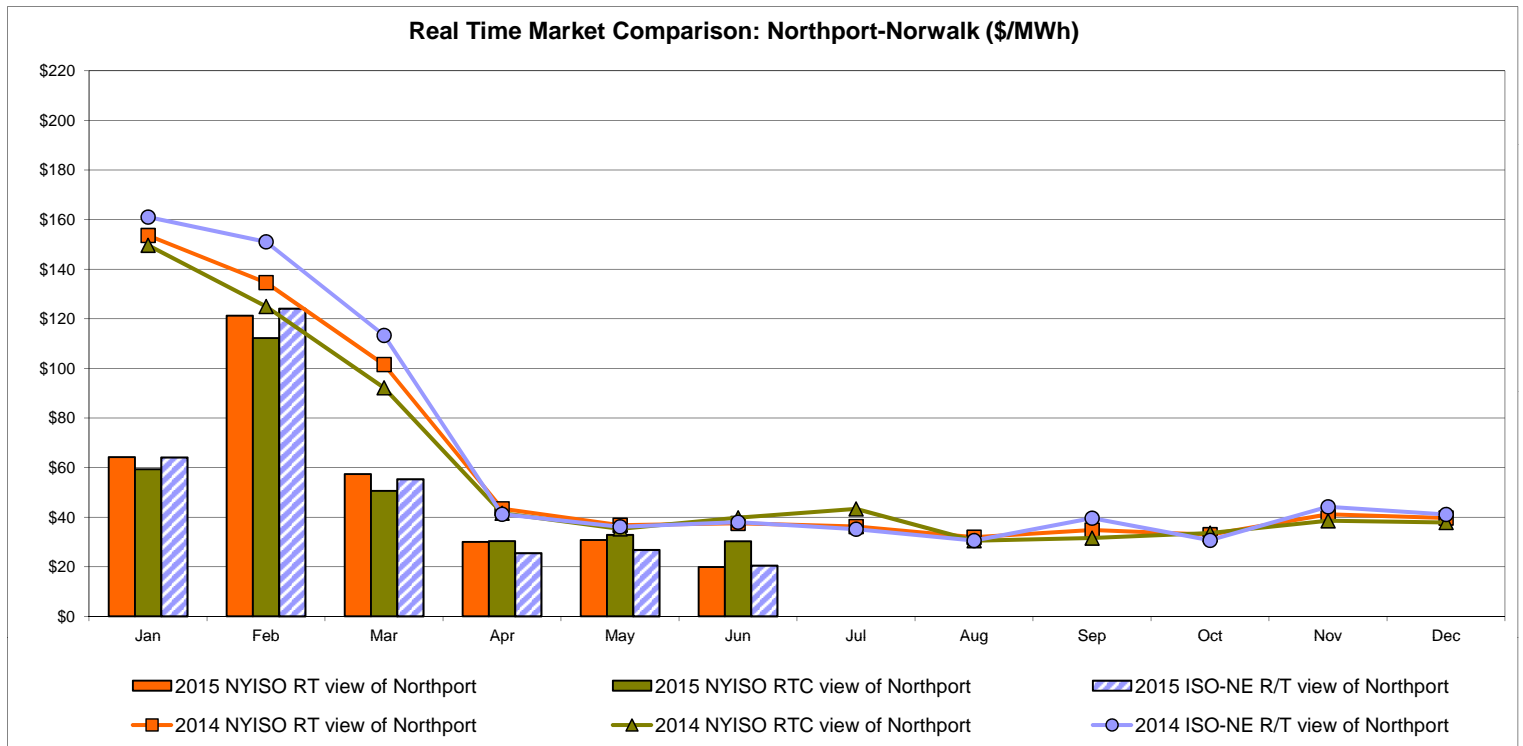
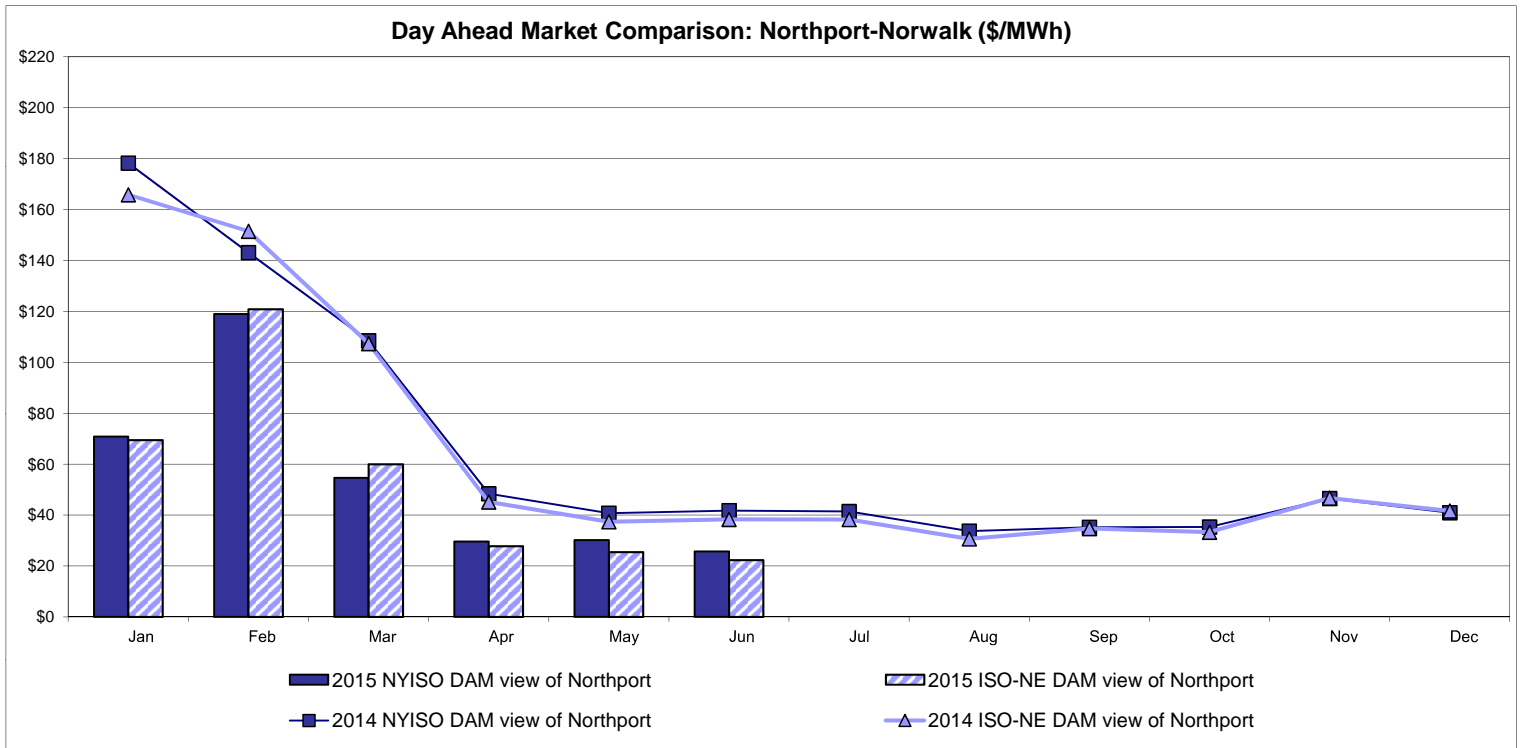
Notes: Exchange factor used for June 2015 was 0.809127 to US  
 HOEP: Hourly Ontario Energy Price  
 Pre-Dispatch: Projected Energy Price

# 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)

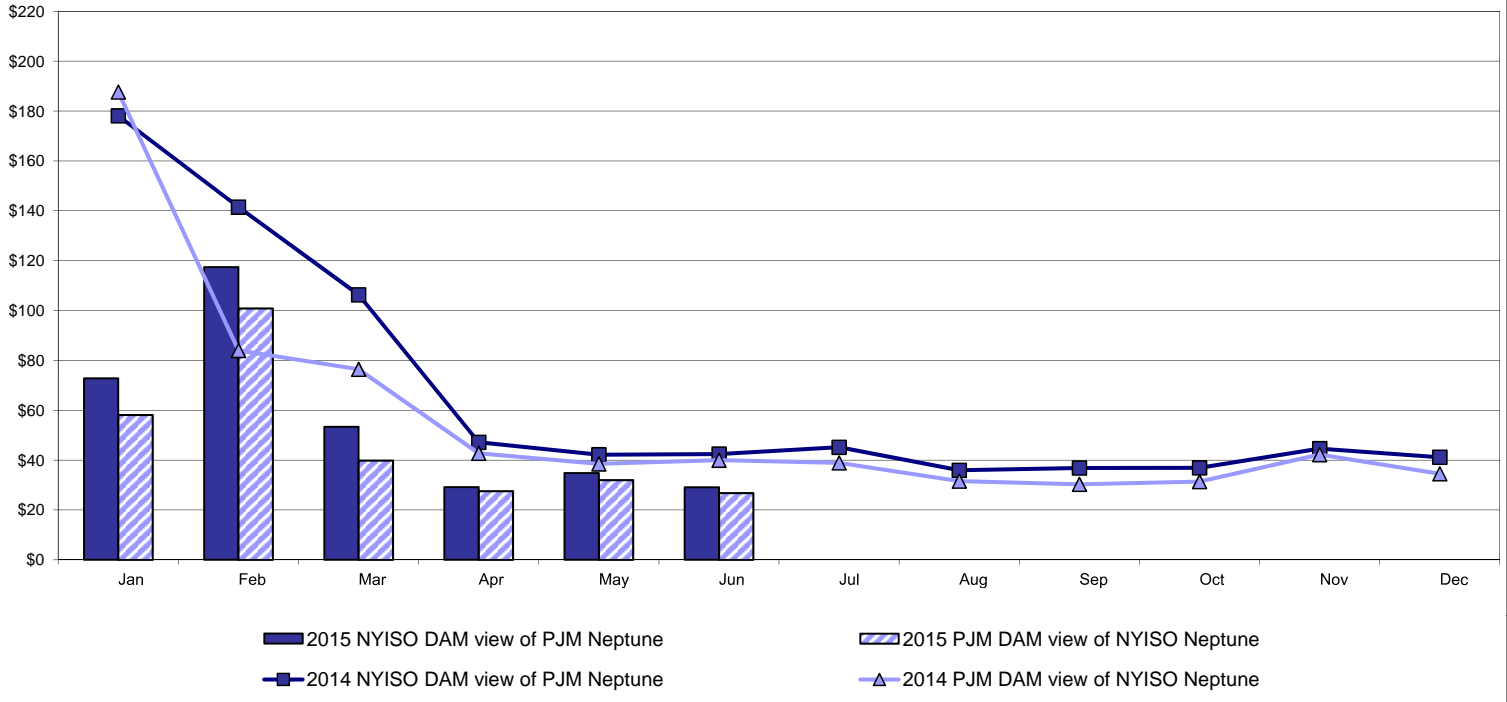


Note:  
 ISO-NE Forecast is an advisory posting @ 18:00 day before.  
 The DAM and R/T prices at the Northport 138 interface are used for ISO-NE.  
 The DAM and R/T prices at the 1385 interface are used for NYISO.

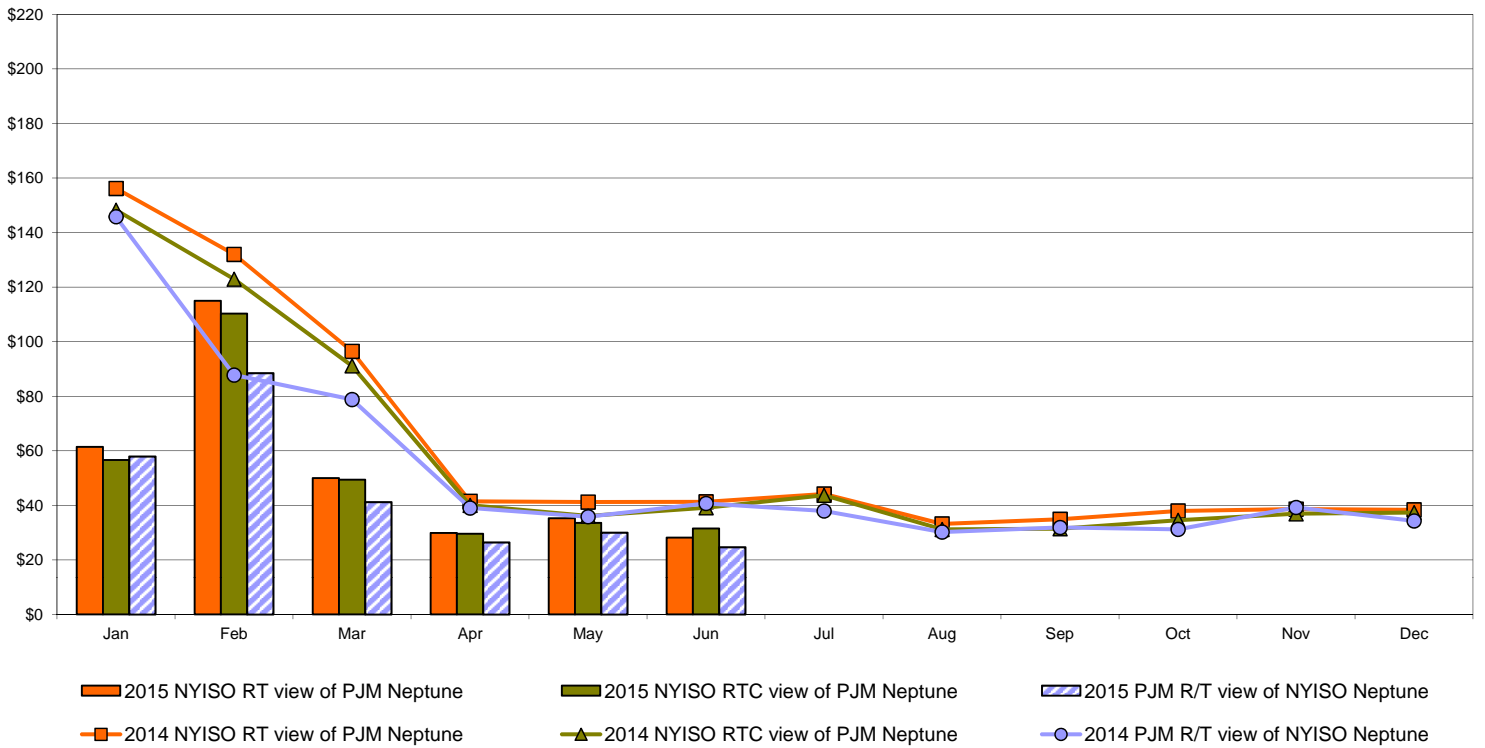


## External Controllable Line: Neptune (PJM)

**Day Ahead Market Comparison: Neptune (\$/MWh)**

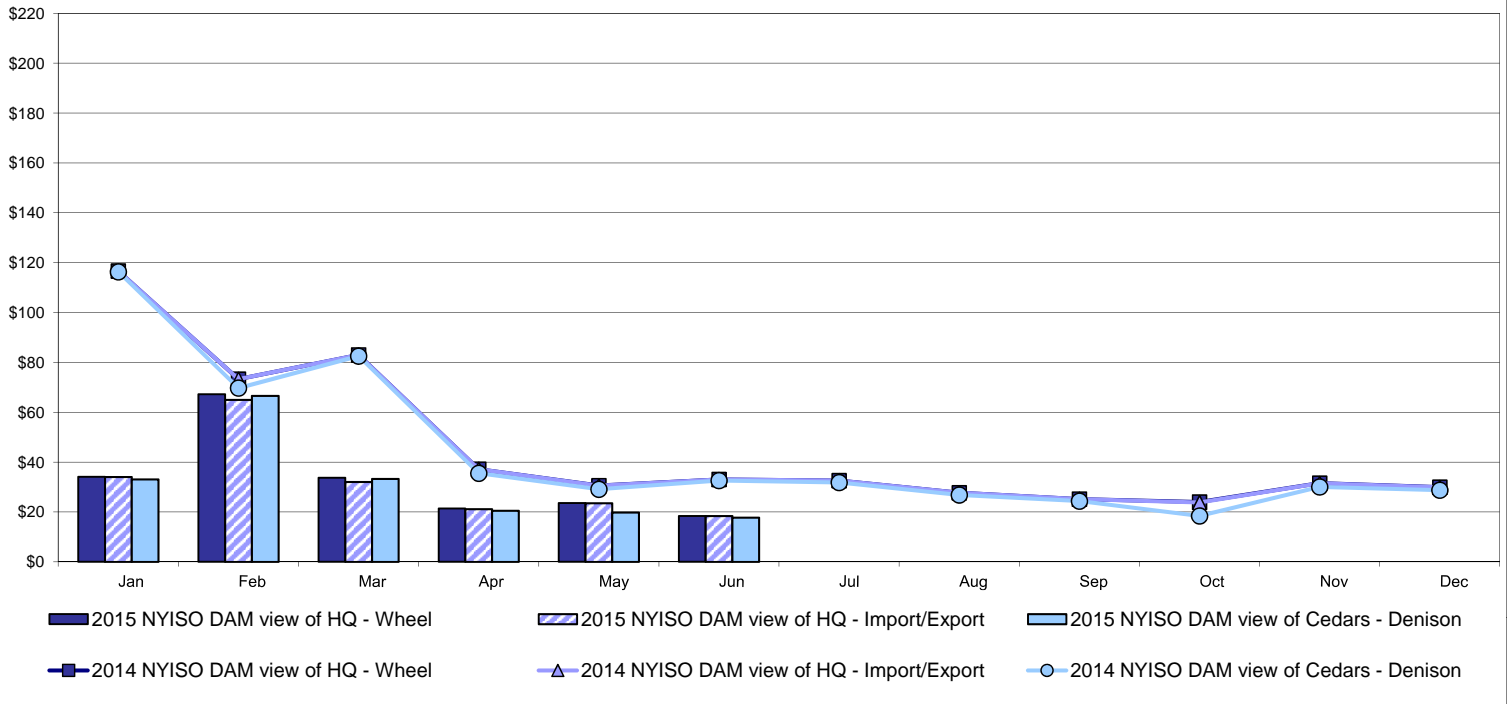


**Real Time Market Comparison: Neptune (\$/MWh)**

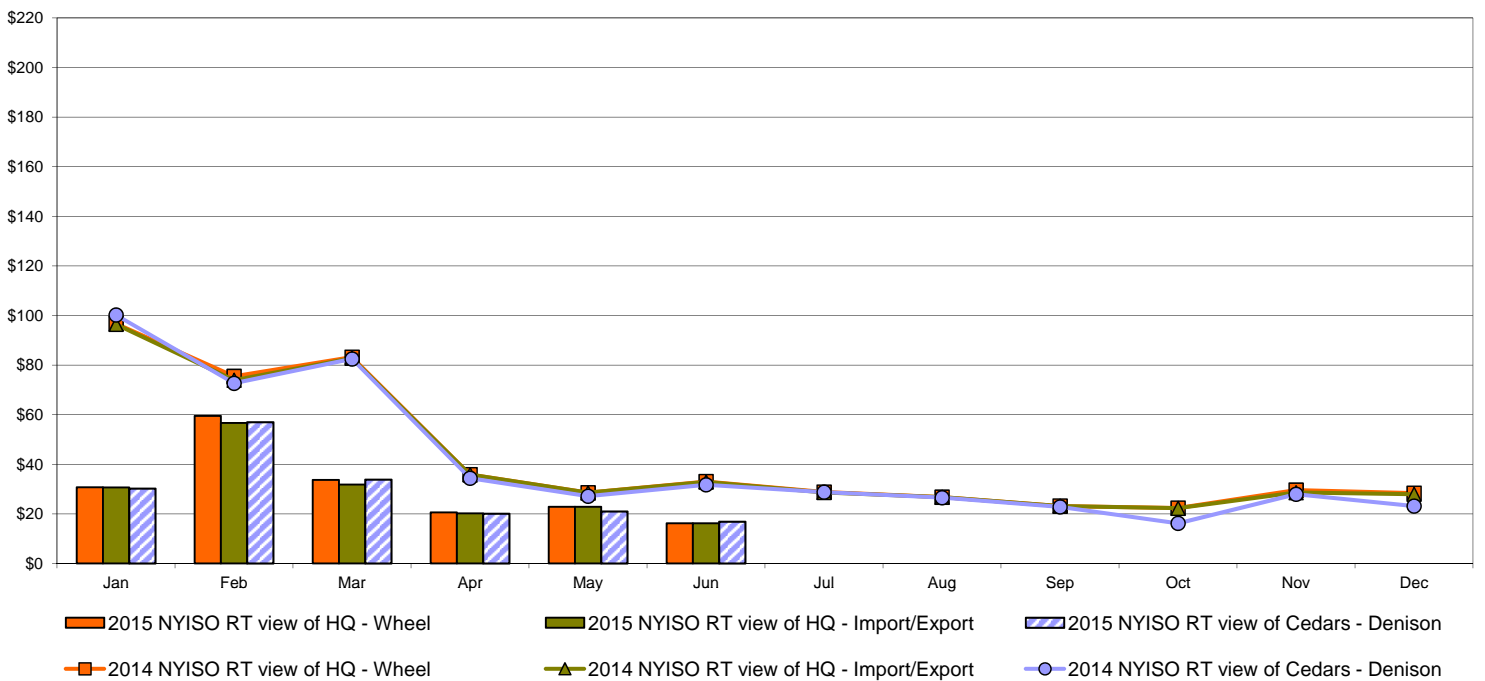


# External Comparison Hydro-Quebec

## Day Ahead Market External Zone Comparison - HQ (\$/MWh)

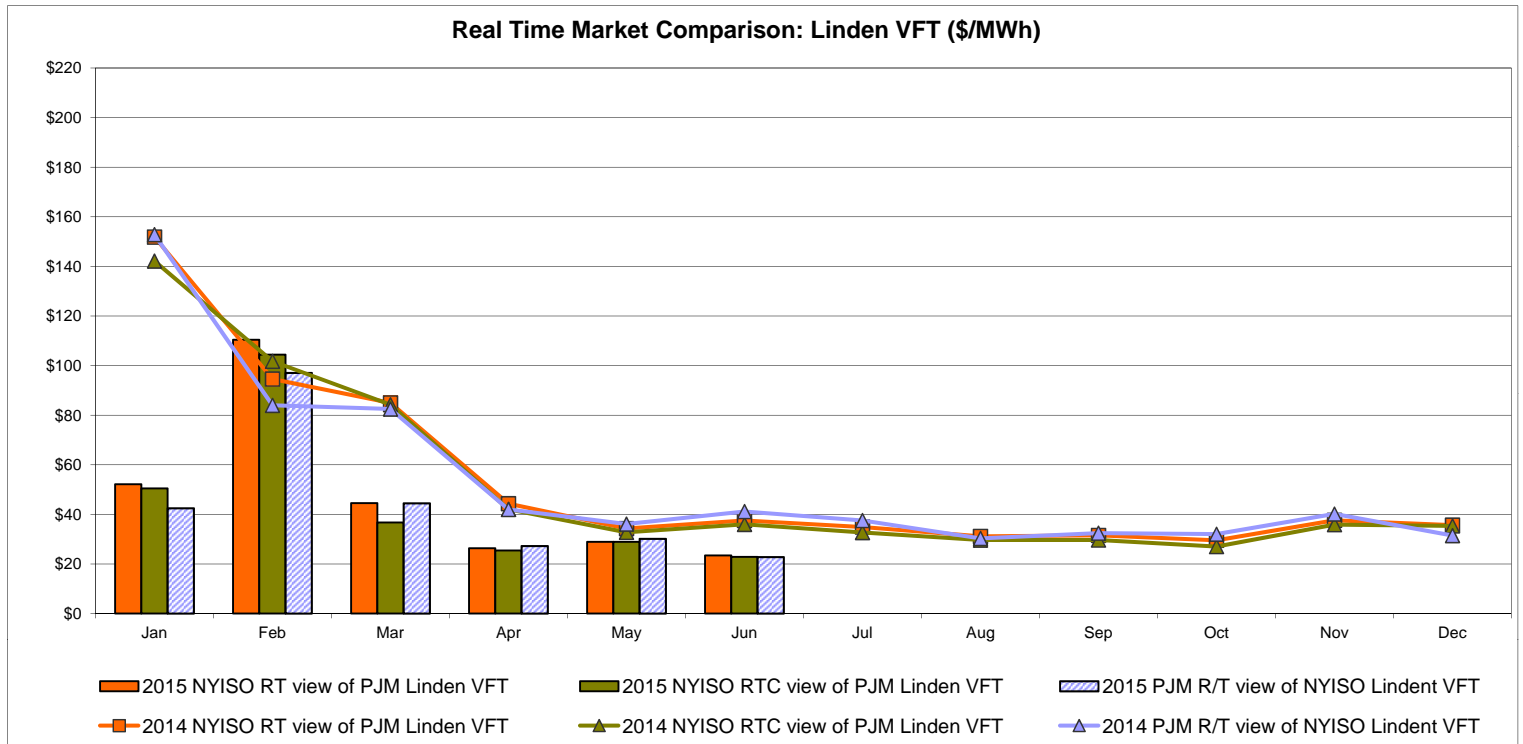
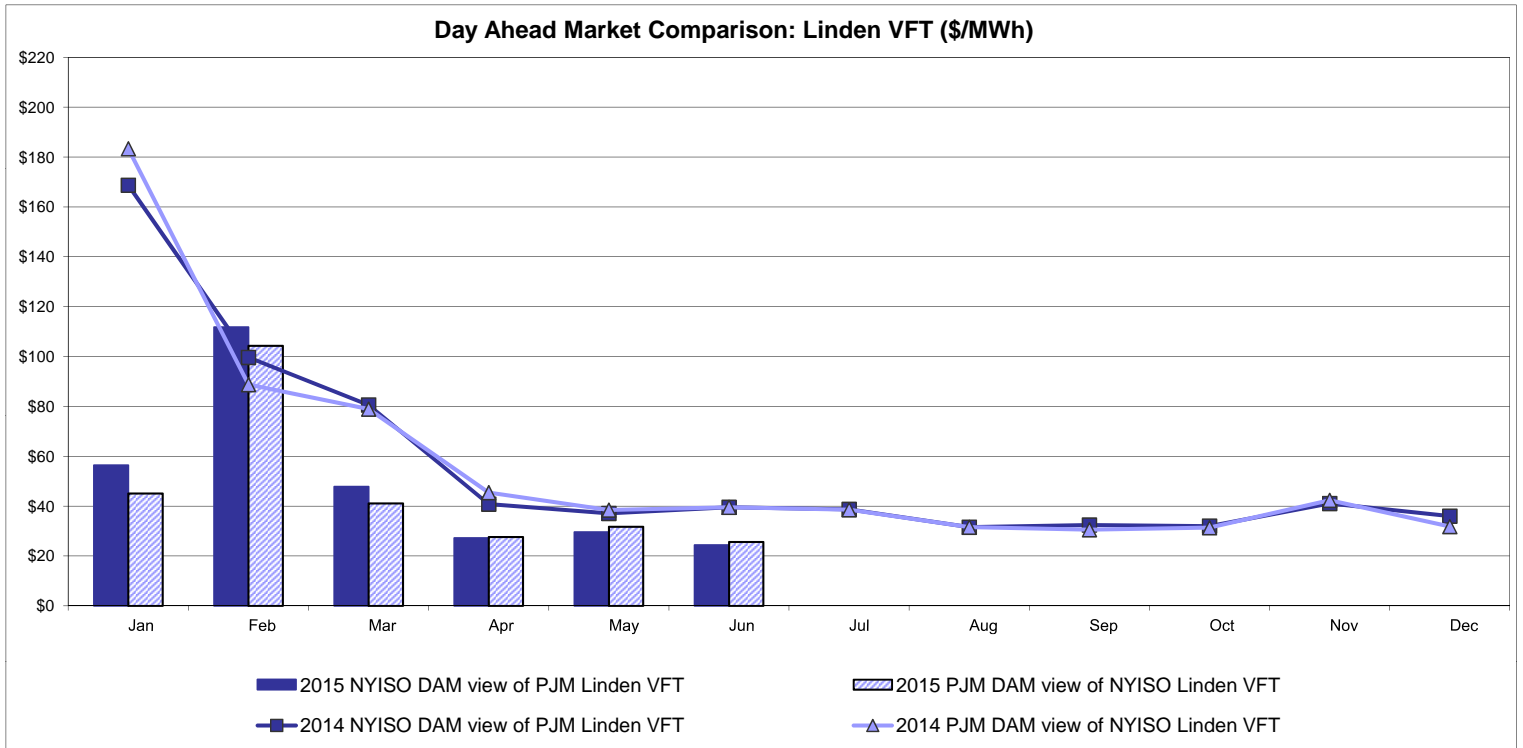


## Real Time Market External Zone Comparison - HQ (\$/MWh)

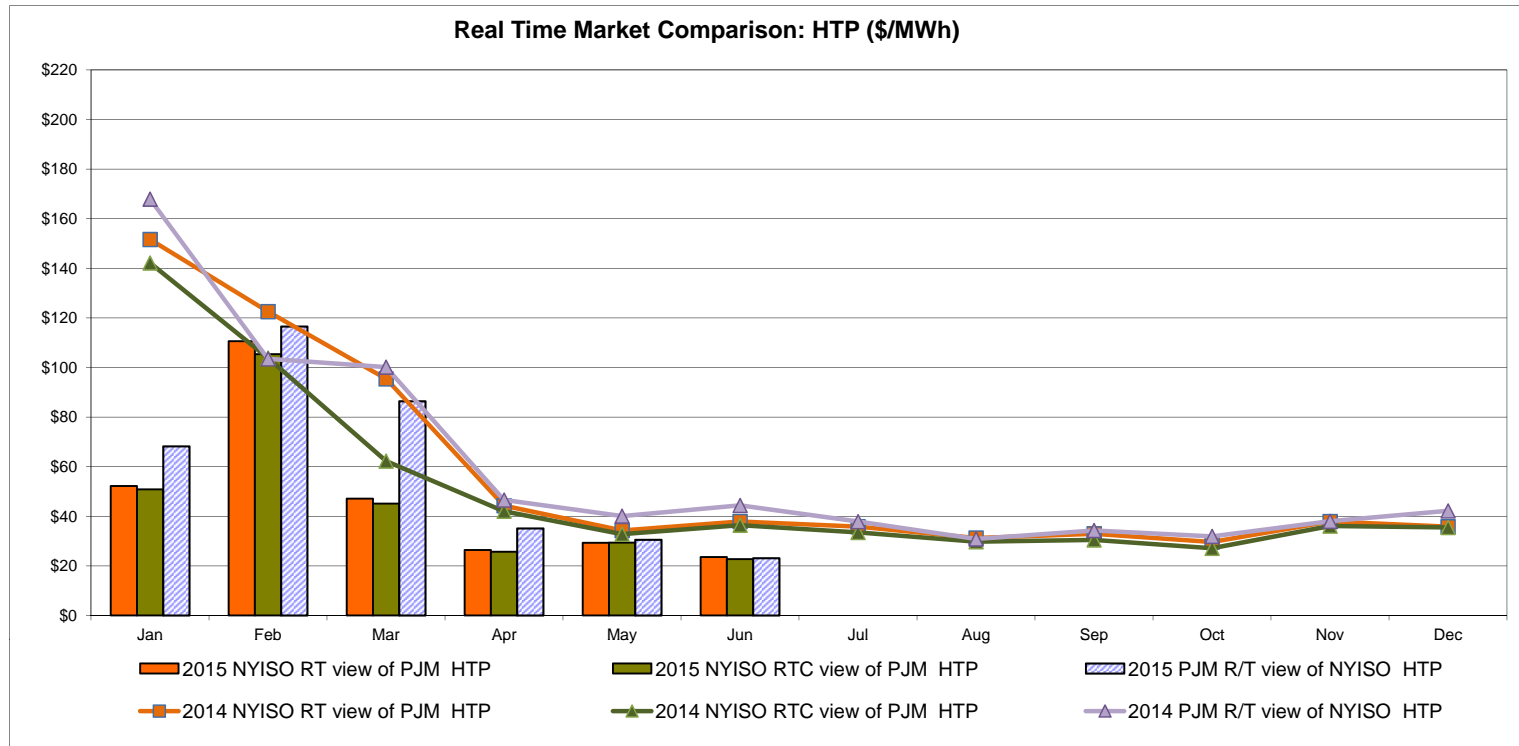
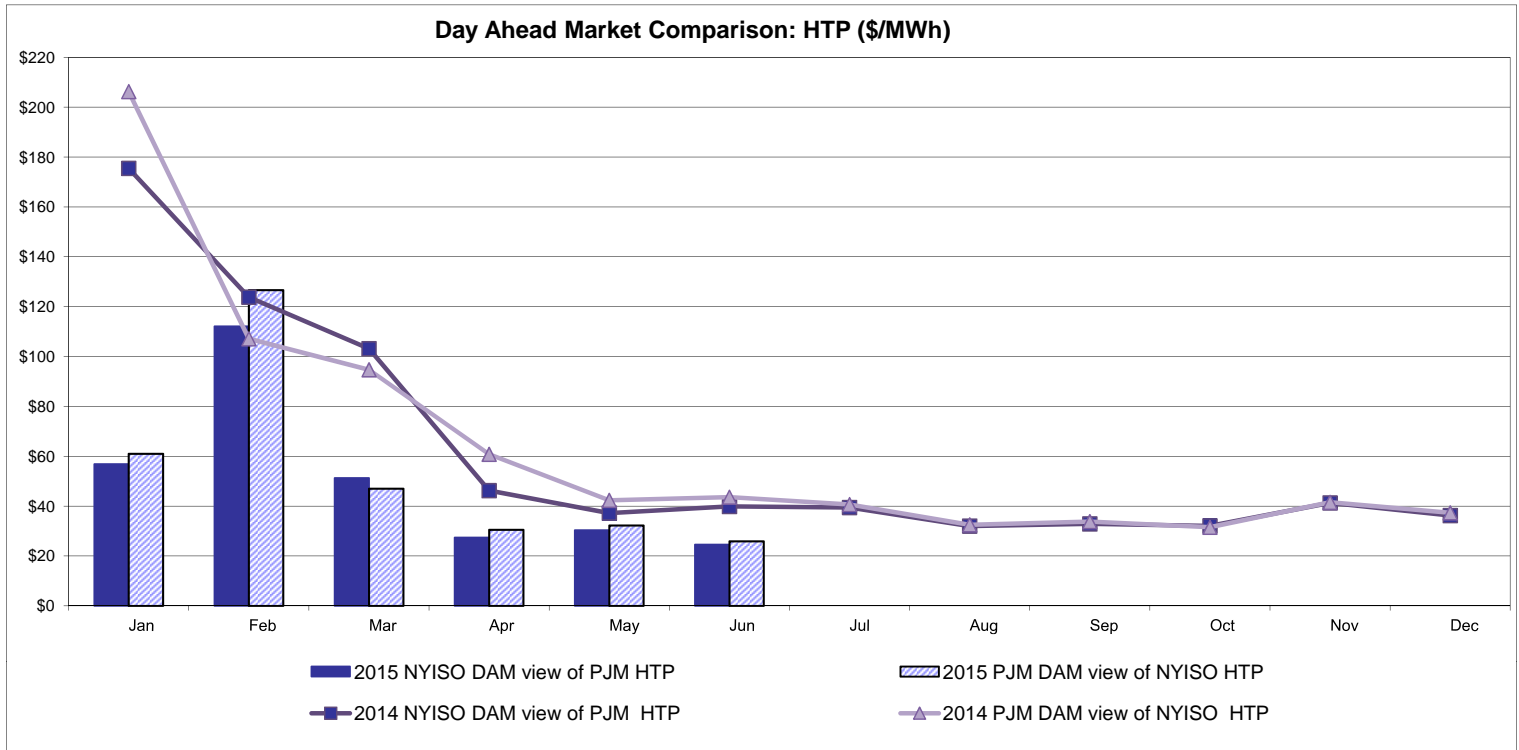


Note:  
Hydro-Quebec Prices are unavailable.

## External Controllable Line: Linden VFT (PJM)



## External Controllable Line: Hudson (PJM)

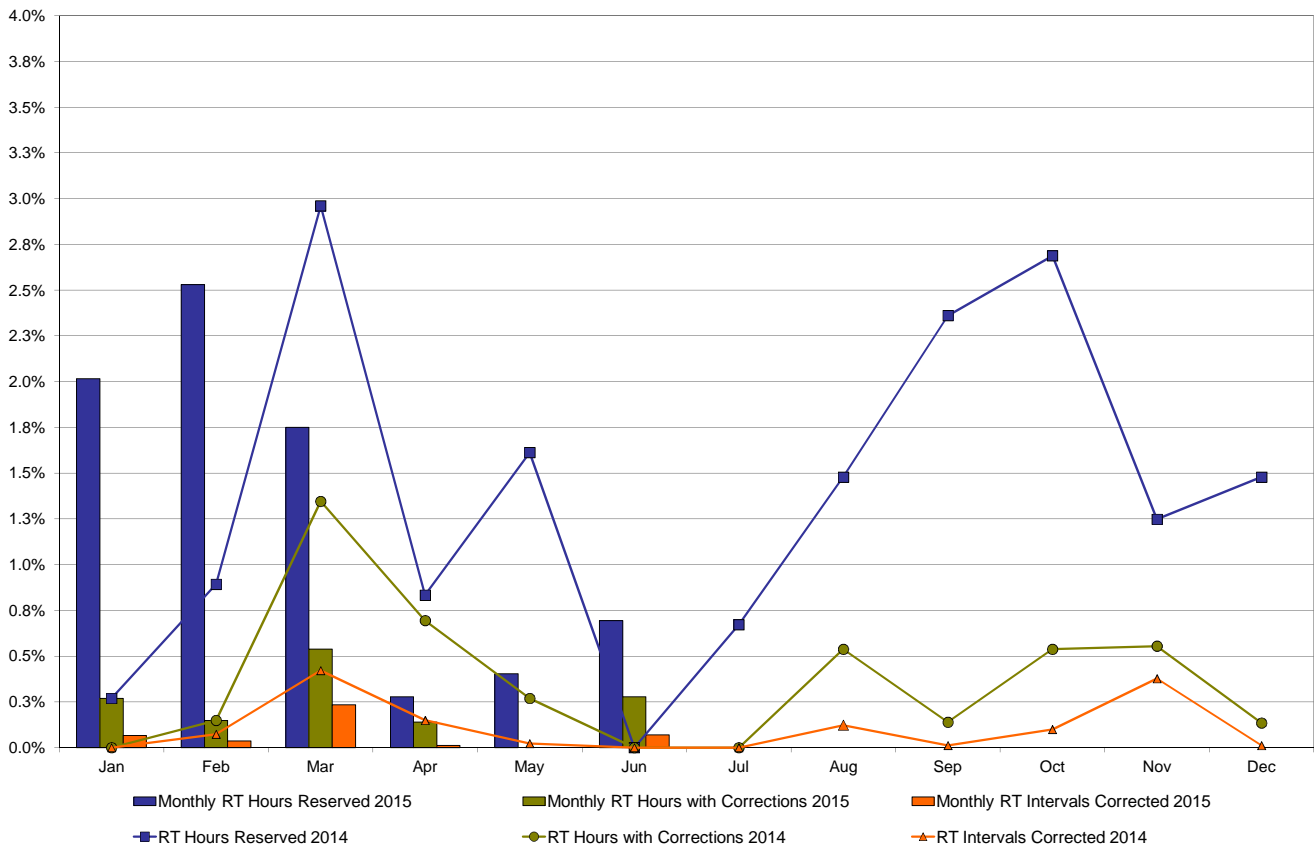


**NYISO Real Time Price Correction Statistics**

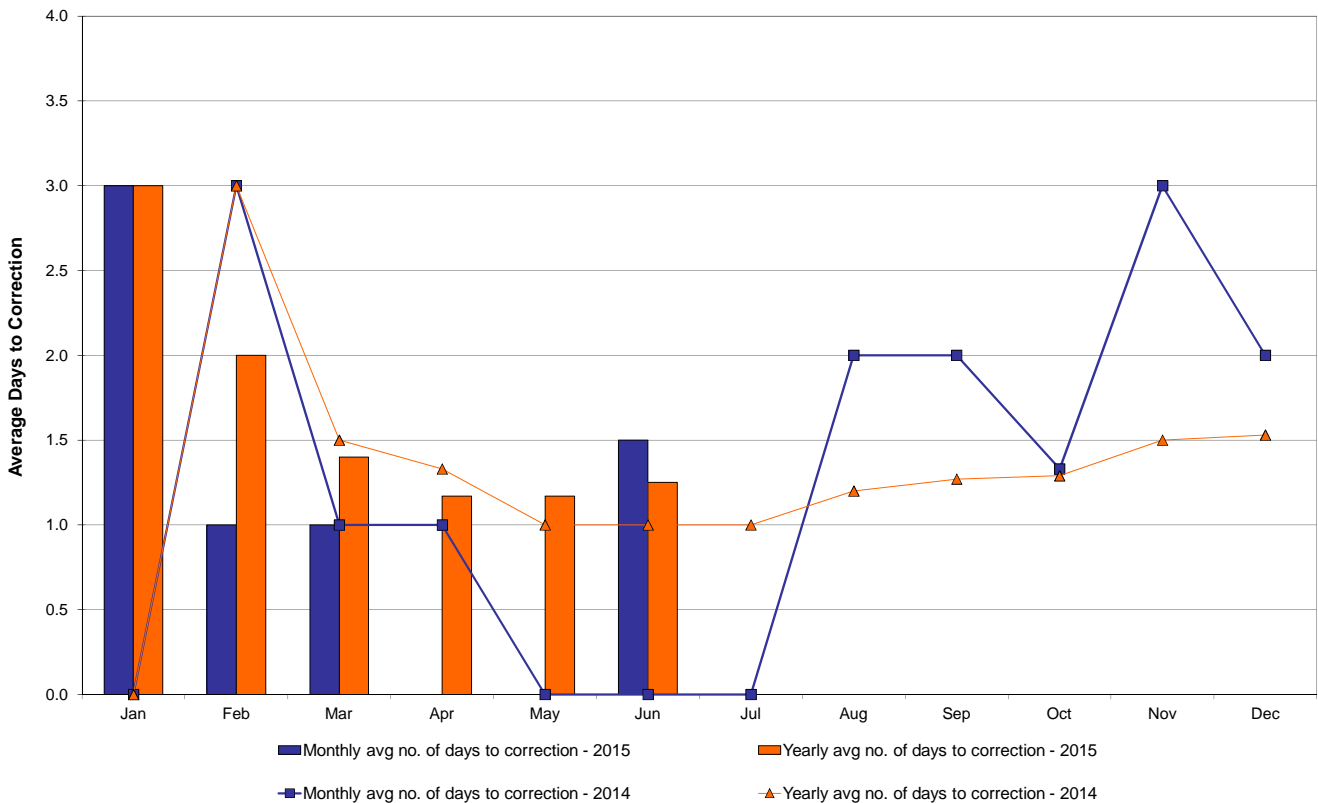
| <b>2015</b>                       |              | <u>January</u> | <u>February</u> | <u>March</u> | <u>April</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>August</u> | <u>September</u> | <u>October</u> | <u>November</u> | <u>December</u> |
|-----------------------------------|--------------|----------------|-----------------|--------------|--------------|------------|-------------|-------------|---------------|------------------|----------------|-----------------|-----------------|
| <b>Hour Corrections</b>           |              |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| Number of hours with corrections  | in the month | 2              | 1               | 4            | 1            | 0          | 2           |             |               |                  |                |                 |                 |
| Number of hours                   | in the month | 744            | 672             | 743          | 720          | 744        | 720         |             |               |                  |                |                 |                 |
| % of hours with corrections       | in the month | 0.27%          | 0.15%           | 0.54%        | 0.14%        | 0.00%      | 0.28%       |             |               |                  |                |                 |                 |
| % of hours with corrections       | year-to-date | 0.27%          | 0.21%           | 0.32%        | 0.28%        | 0.22%      | 0.23%       |             |               |                  |                |                 |                 |
| <b>Interval Corrections</b>       |              |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| Number of intervals corrected     | in the month | 6              | 3               | 21           | 1            | 0          | 6           |             |               |                  |                |                 |                 |
| Number of intervals               | in the month | 9,066          | 8,231           | 9,005        | 8,696        | 9,032      | 8,731       |             |               |                  |                |                 |                 |
| % of intervals corrected          | in the month | 0.07%          | 0.04%           | 0.23%        | 0.01%        | 0.00%      | 0.07%       |             |               |                  |                |                 |                 |
| % of intervals corrected          | year-to-date | 0.07%          | 0.05%           | 0.11%        | 0.09%        | 0.07%      | 0.07%       |             |               |                  |                |                 |                 |
| <b>Hours Reserved</b>             |              |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| Number of hours reserved          | in the month | 15             | 17              | 13           | 2            | 3          | 5           |             |               |                  |                |                 |                 |
| Number of hours                   | in the month | 744            | 672             | 743          | 720          | 744        | 720         |             |               |                  |                |                 |                 |
| % of hours reserved               | in the month | 2.02%          | 2.53%           | 1.75%        | 0.28%        | 0.40%      | 0.69%       |             |               |                  |                |                 |                 |
| % of hours reserved               | year-to-date | 2.02%          | 2.26%           | 2.08%        | 1.63%        | 1.38%      | 1.27%       |             |               |                  |                |                 |                 |
| <b>Days to Correction *</b>       |              |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| Avg. number of days to correction | in the month | 3.00           | 1.00            | 1.00         | 0.00         | 0.00       | 1.50        |             |               |                  |                |                 |                 |
| Avg. number of days to correction | year-to-date | 3.00           | 2.00            | 1.40         | 1.17         | 1.17       | 1.25        |             |               |                  |                |                 |                 |
| <b>Days Without Corrections</b>   |              |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| Days without corrections          | in the month | 30             | 27              | 28           | 29           | 31         | 28          |             |               |                  |                |                 |                 |
| Days without corrections          | year-to-date | 30             | 57              | 85           | 114          | 145        | 173         |             |               |                  |                |                 |                 |
| <b>2014</b>                       |              | <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> |
| <b>Hour Corrections</b>           |              |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| Number of hours with corrections  | in the month | 0              | 1               | 10           | 5            | 2          | 0           | 0           | 4             | 1                | 4              | 4               | 1               |
| Number of hours                   | in the month | 744            | 672             | 743          | 720          | 744        | 720         | 744         | 744           | 720              | 744            | 721             | 744             |
| % of hours with corrections       | in the month | 0.00%          | 0.15%           | 1.35%        | 0.69%        | 0.27%      | 0.00%       | 0.00%       | 0.54%         | 0.14%            | 0.54%          | 0.55%           | 0.13%           |
| % of hours with corrections       | year-to-date | 0.00%          | 0.07%           | 0.51%        | 0.56%        | 0.50%      | 0.41%       | 0.35%       | 0.38%         | 0.35%            | 0.37%          | 0.39%           | 0.37%           |
| <b>Interval Corrections</b>       |              |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| Number of intervals corrected     | in the month | 0              | 6               | 38           | 13           | 2          | 0           | 0           | 11            | 1                | 9              | 33              | 1               |
| Number of intervals               | in the month | 9,232          | 8,205           | 9,023        | 8,720        | 9,030      | 8,729       | 8,999       | 8,975         | 8,779            | 9,026          | 8,763           | 9,030           |
| % of intervals corrected          | in the month | 0.00%          | 0.07%           | 0.42%        | 0.15%        | 0.02%      | 0.00%       | 0.00%       | 0.12%         | 0.01%            | 0.10%          | 0.38%           | 0.01%           |
| % of intervals corrected          | year-to-date | 0.00%          | 0.03%           | 0.17%        | 0.16%        | 0.13%      | 0.11%       | 0.10%       | 0.10%         | 0.09%            | 0.09%          | 0.12%           | 0.11%           |
| <b>Hours Reserved</b>             |              |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| Number of hours reserved          | in the month | 2              | 6               | 22           | 6            | 12         | 0           | 5           | 11            | 17               | 20             | 9               | 11              |
| Number of hours                   | in the month | 744            | 672             | 743          | 720          | 744        | 720         | 744         | 744           | 720              | 744            | 721             | 744             |
| % of hours reserved               | in the month | 0.27%          | 0.89%           | 2.96%        | 0.83%        | 1.61%      | 0.00%       | 0.67%       | 1.48%         | 2.36%            | 2.69%          | 1.25%           | 1.48%           |
| % of hours reserved               | year-to-date | 0.27%          | 0.56%           | 1.39%        | 1.25%        | 1.32%      | 1.11%       | 1.04%       | 1.10%         | 1.24%            | 1.38%          | 1.37%           | 1.38%           |
| <b>Days to Correction *</b>       |              |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| Avg. number of days to correction | in the month | 0.00           | 3.00            | 1.00         | 1.00         | 0.00       | 0.00        | 0.00        | 2.00          | 2.00             | 1.33           | 3.00            | 2.00            |
| Avg. number of days to correction | year-to-date | 0.00           | 3.00            | 1.50         | 1.33         | 1.00       | 1.00        | 1.00        | 1.20          | 1.27             | 1.29           | 1.50            | 1.53            |
| <b>Days Without Corrections</b>   |              |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| Days without corrections          | in the month | 31             | 27              | 28           | 28           | 29         | 30          | 31          | 29            | 29               | 28             | 28              | 30              |
| Days without corrections          | year-to-date | 31             | 58              | 86           | 114          | 143        | 173         | 204         | 233           | 262              | 290            | 318             | 348             |

\* Calendar days from reservation date.

### Percentage of Real-Time Corrections

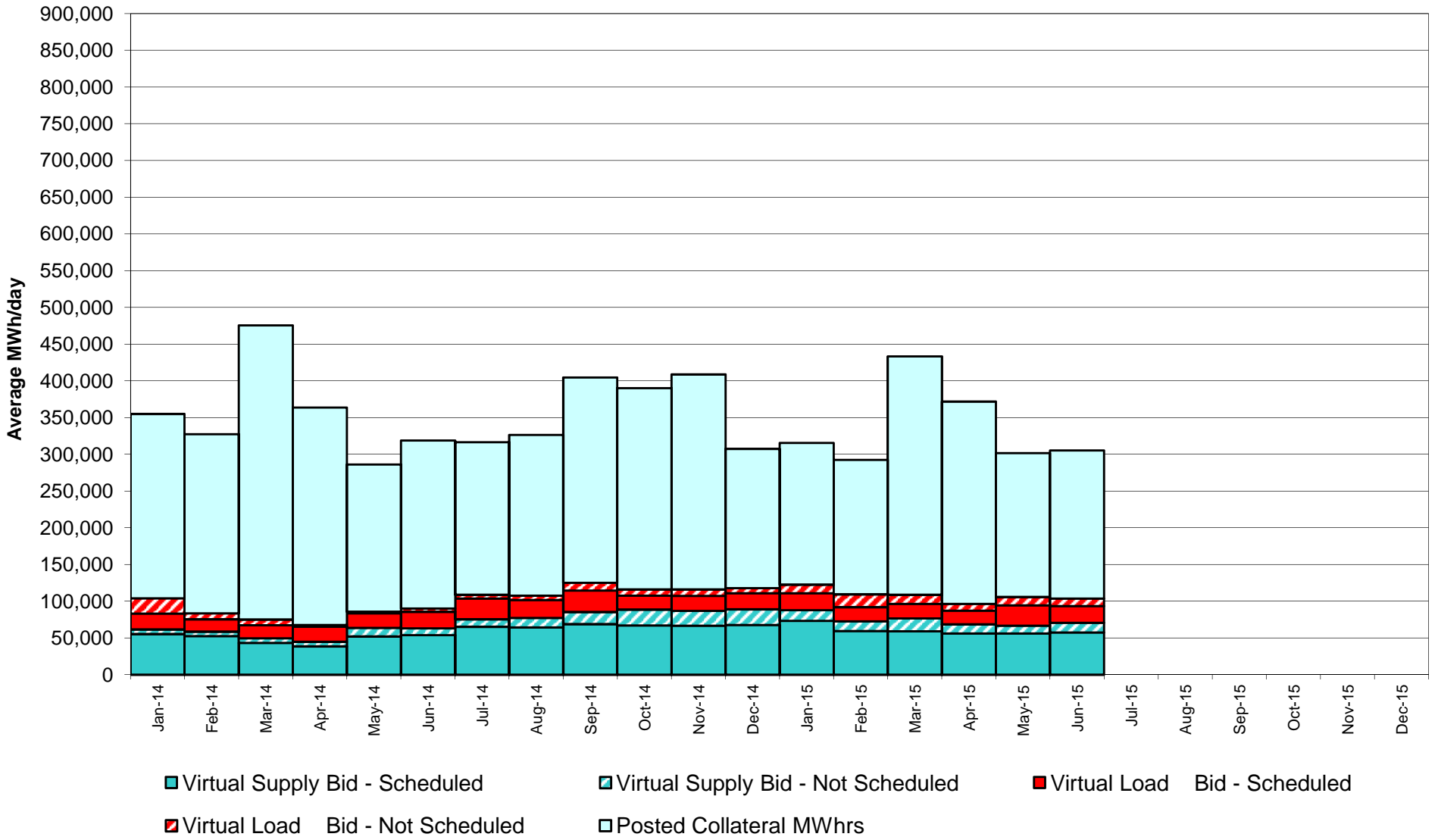


### Annual average time period for making Price Corrections (from reservation date) \*

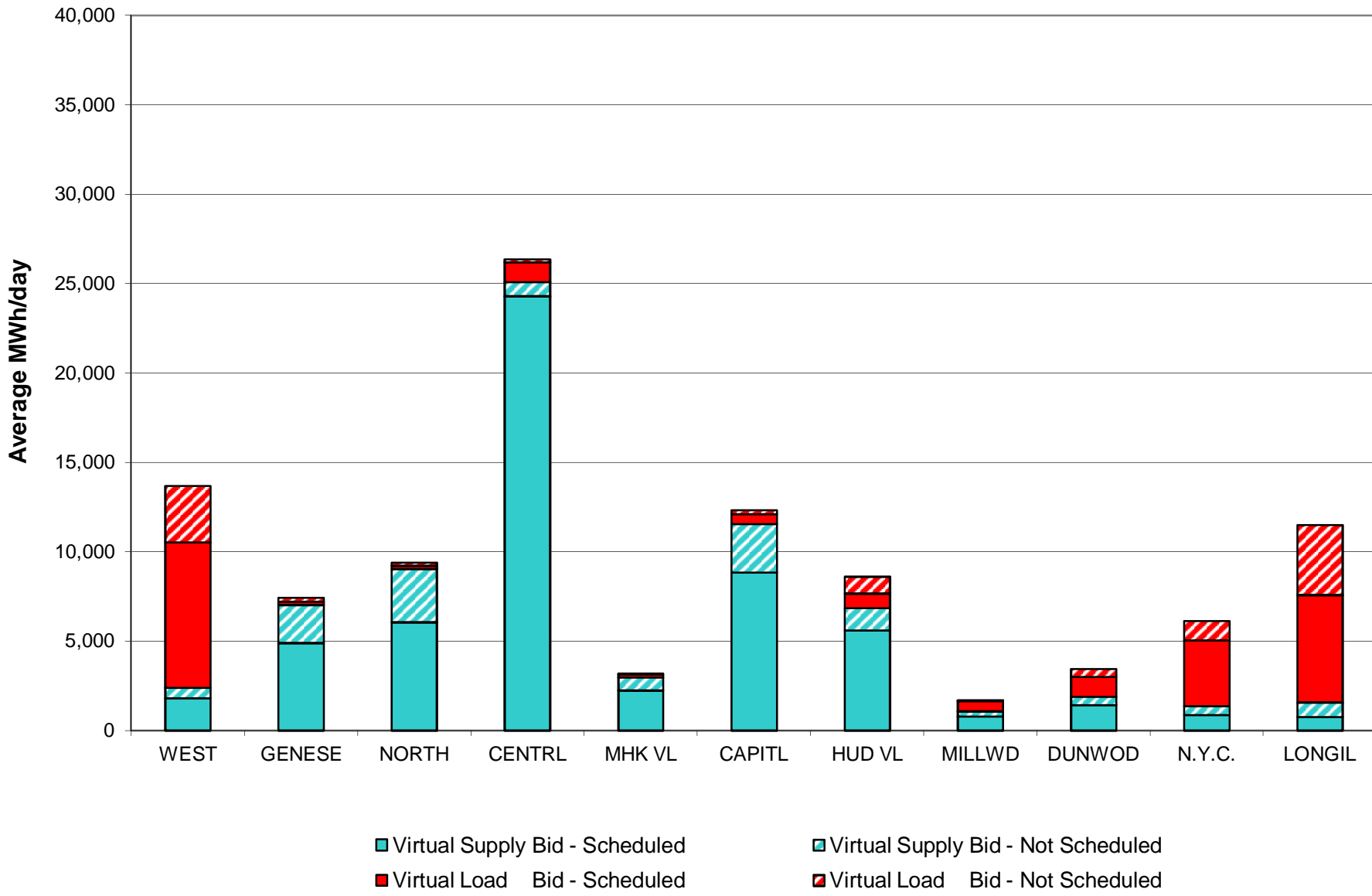


\* Calendar days from reservation date.

## NYISO Virtual Trading Average MWh per day



### Virtual Load and Supply Zonal Statistics through June 30, 2015

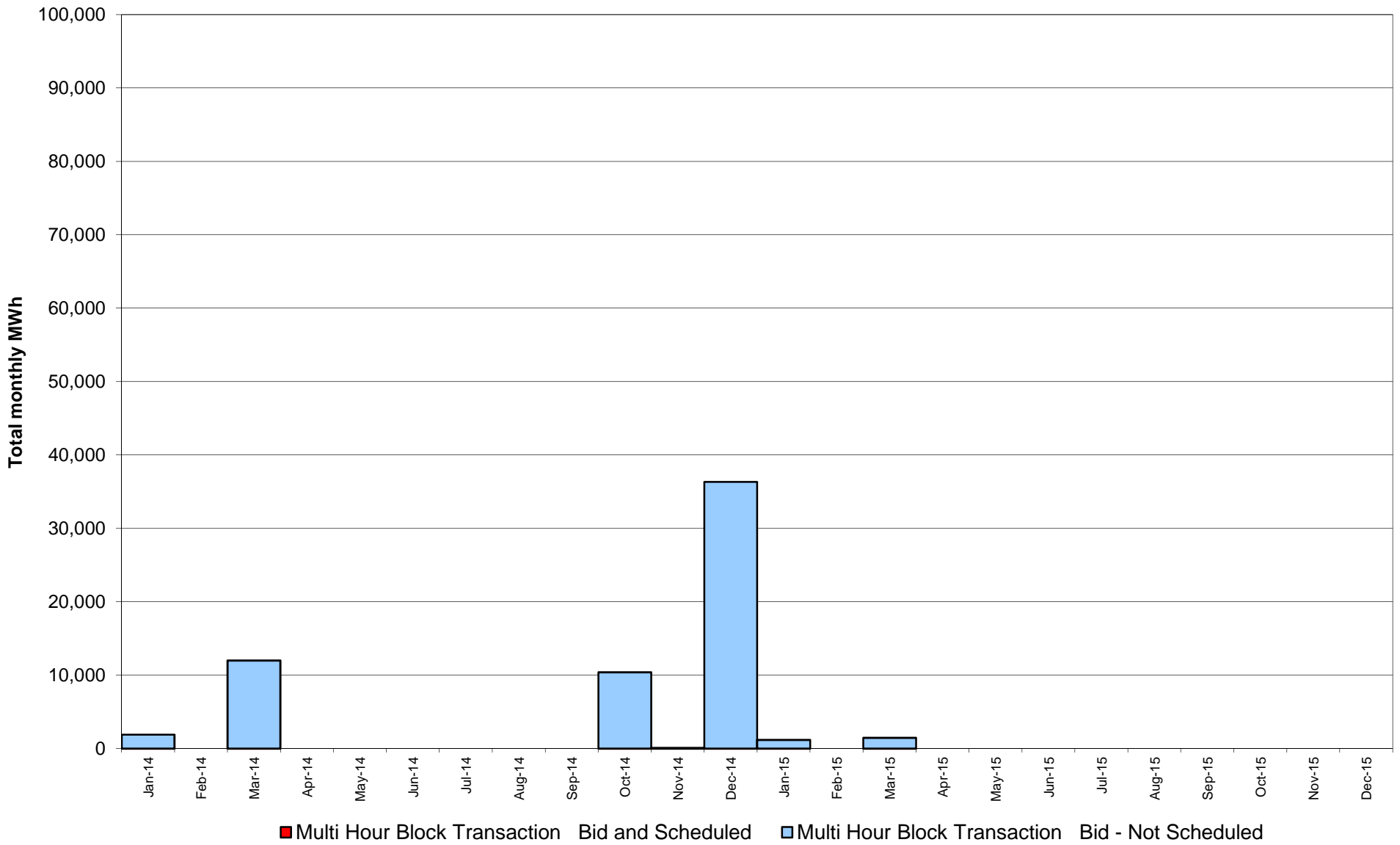




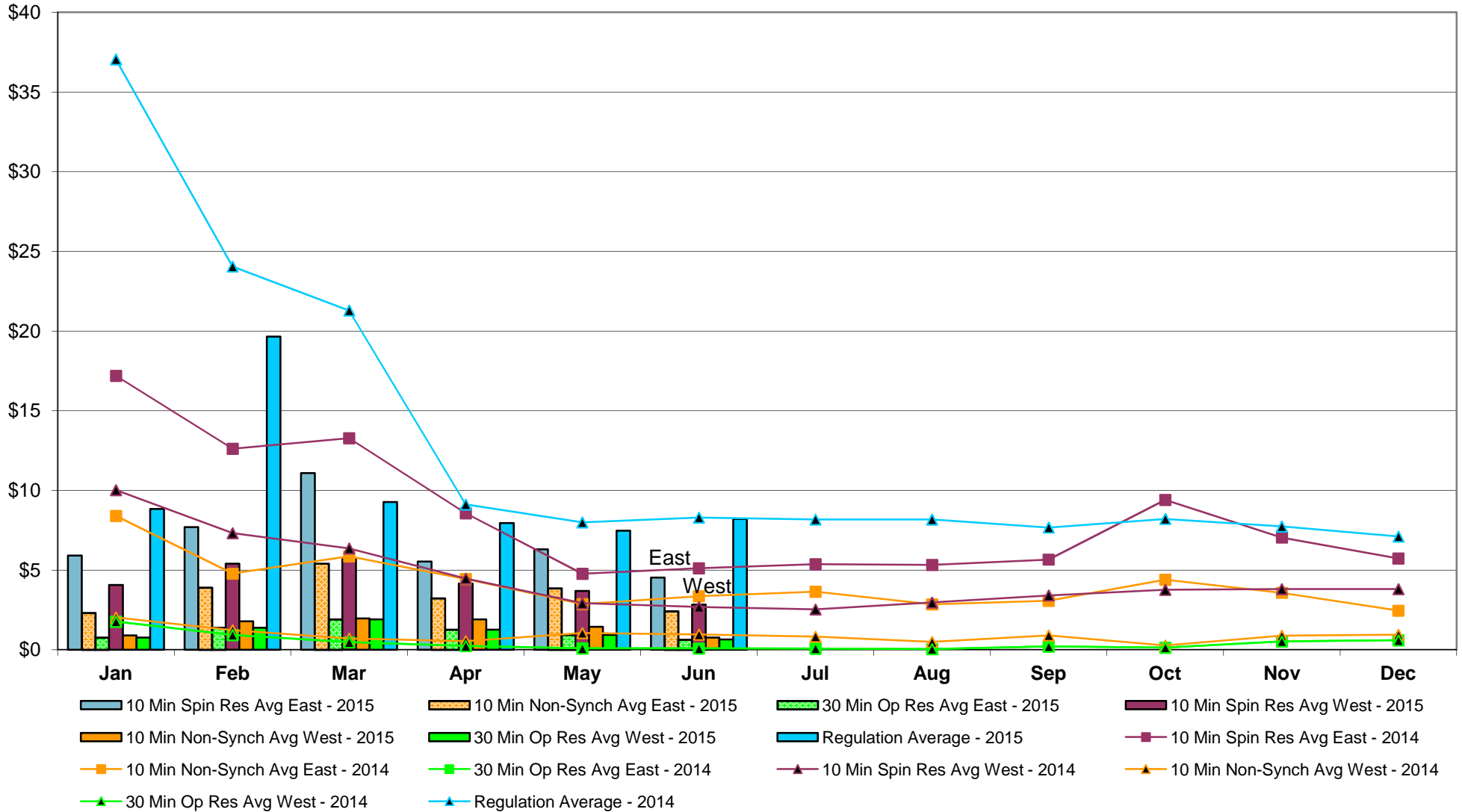
## Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2015

|              |               | Virtual Load Bid |               | Virtual Supply Bid |               |               |               | Virtual Load Bid |               | Virtual Supply Bid |               |               |        | Virtual Load Bid |               | Virtual Supply Bid |               |
|--------------|---------------|------------------|---------------|--------------------|---------------|---------------|---------------|------------------|---------------|--------------------|---------------|---------------|--------|------------------|---------------|--------------------|---------------|
| Zone         | Date          | Scheduled        | Not Scheduled | Scheduled          | Not Scheduled | Zone          | Date          | Scheduled        | Not Scheduled | Scheduled          | Not Scheduled | Zone          | Date   | Scheduled        | Not Scheduled | Scheduled          | Not Scheduled |
| <b>WEST</b>  | Jan-15        | 6,244            | 977           | 3,837              | 688           | <b>MHK VL</b> | Jan-15        | 534              | 185           | 1,757              | 1,021         | <b>DUNWOD</b> | Jan-15 | 669              | 444           | 831                | 166           |
|              | Feb-15        | 3,180            | 1,570         | 3,288              | 936           |               | Feb-15        | 901              | 790           | 1,446              | 812           |               | Feb-15 | 647              | 663           | 725                | 156           |
|              | Mar-15        | 5,796            | 1,992         | 3,185              | 1,223         |               | Mar-15        | 626              | 458           | 2,120              | 718           |               | Mar-15 | 621              | 566           | 1,224              | 536           |
|              | Apr-15        | 6,734            | 1,797         | 1,790              | 419           |               | Apr-15        | 293              | 226           | 3,094              | 867           |               | Apr-15 | 433              | 299           | 1,517              | 366           |
|              | May-15        | 9,778            | 3,320         | 1,381              | 465           |               | May-15        | 248              | 102           | 1,746              | 482           |               | May-15 | 1,385            | 308           | 904                | 400           |
|              | Jun-15        | 8,135            | 3,156         | 1,800              | 584           |               | Jun-15        | 151              | 24            | 2,252              | 734           |               | Jun-15 | 1,107            | 434           | 1,435              | 462           |
|              | Jul-15        |                  |               |                    |               |               | Jul-15        |                  |               |                    |               |               | Jul-15 |                  |               |                    |               |
|              | Aug-15        |                  |               |                    |               |               | Aug-15        |                  |               |                    |               |               | Aug-15 |                  |               |                    |               |
|              | Sep-15        |                  |               |                    |               |               | Sep-15        |                  |               |                    |               |               | Sep-15 |                  |               |                    |               |
|              | Oct-15        |                  |               |                    |               |               | Oct-15        |                  |               |                    |               |               | Oct-15 |                  |               |                    |               |
|              | Nov-15        |                  |               |                    |               |               | Nov-15        |                  |               |                    |               |               | Nov-15 |                  |               |                    |               |
|              | Dec-15        |                  |               |                    |               |               | Dec-15        |                  |               |                    |               |               | Dec-15 |                  |               |                    |               |
|              | <b>GENESE</b> | Jan-15           | 444           | 147                | 9,467         |               | 1,422         | <b>CAPITL</b>    | Jan-15        | 1,816              | 1,292         |               | 9,400  | 1,563            | <b>N.Y.C.</b> | Jan-15             | 3,367         |
| Feb-15       |               | 229              | 347           | 7,477              | 1,425         | Feb-15        | 3,192         |                  | 3,267         | 6,354              | 2,035         | Feb-15        | 2,944  | 2,375            |               | 658                | 690           |
| Mar-15       |               | 452              | 350           | 7,559              | 2,735         | Mar-15        | 2,234         |                  | 2,029         | 6,772              | 2,411         | Mar-15        | 2,687  | 1,133            |               | 894                | 1,593         |
| Apr-15       |               | 161              | 254           | 4,771              | 1,991         | Apr-15        | 1,558         |                  | 991           | 7,368              | 2,215         | Apr-15        | 2,470  | 377              |               | 808                | 500           |
| May-15       |               | 349              | 167           | 4,831              | 1,643         | May-15        | 1,518         |                  | 201           | 7,032              | 1,751         | May-15        | 5,397  | 1,487            |               | 918                | 367           |
| Jun-15       |               | 188              | 229           | 4,911              | 2,115         | Jun-15        | 563           |                  | 230           | 8,840              | 2,709         | Jun-15        | 3,683  | 1,091            |               | 864                | 494           |
| Jul-15       |               |                  |               |                    |               | Jul-15        |               |                  |               |                    |               | Jul-15        |        |                  |               |                    |               |
| Aug-15       |               |                  |               |                    |               | Aug-15        |               |                  |               |                    |               | Aug-15        |        |                  |               |                    |               |
| Sep-15       |               |                  |               |                    |               | Sep-15        |               |                  |               |                    |               | Sep-15        |        |                  |               |                    |               |
| Oct-15       |               |                  |               |                    |               | Oct-15        |               |                  |               |                    |               | Oct-15        |        |                  |               |                    |               |
| Nov-15       |               |                  |               |                    |               | Nov-15        |               |                  |               |                    |               | Nov-15        |        |                  |               |                    |               |
| Dec-15       |               |                  |               |                    |               | Dec-15        |               |                  |               |                    |               | Dec-15        |        |                  |               |                    |               |
| <b>NORTH</b> |               | Jan-15           | 537           | 300                | 7,590         | 2,868         | <b>HUD VL</b> |                  | Jan-15        | 1,006              | 1,747         | 4,703         | 2,133  | <b>LONGIL</b>    |               | Jan-15             | 5,510         |
|              | Feb-15        | 274              | 423           | 7,361              | 1,898         | Feb-15        |               | 769              | 2,147         | 2,841              | 2,800         | Feb-15        | 4,383  |                  | 3,985         | 613                | 1,722         |
|              | Mar-15        | 422              | 572           | 6,213              | 2,540         | Mar-15        |               | 747              | 1,578         | 5,045              | 3,272         | Mar-15        | 4,639  |                  | 2,844         | 464                | 1,719         |
|              | Apr-15        | 223              | 366           | 8,249              | 3,243         | Apr-15        |               | 1,180            | 1,056         | 6,875              | 1,292         | Apr-15        | 4,399  |                  | 3,064         | 760                | 678           |
|              | May-15        | 263              | 255           | 7,237              | 3,146         | May-15        |               | 1,267            | 1,372         | 5,580              | 1,488         | May-15        | 6,102  |                  | 3,728         | 936                | 394           |
|              | Jun-15        | 169              | 196           | 6,060              | 2,977         | Jun-15        |               | 825              | 914           | 5,600              | 1,251         | Jun-15        | 6,015  |                  | 3,918         | 768                | 792           |
|              | Jul-15        |                  |               |                    |               | Jul-15        |               |                  |               |                    |               | Jul-15        |        |                  |               |                    |               |
|              | Aug-15        |                  |               |                    |               | Aug-15        |               |                  |               |                    |               | Aug-15        |        |                  |               |                    |               |
|              | Sep-15        |                  |               |                    |               | Sep-15        |               |                  |               |                    |               | Sep-15        |        |                  |               |                    |               |
|              | Oct-15        |                  |               |                    |               | Oct-15        |               |                  |               |                    |               | Oct-15        |        |                  |               |                    |               |
|              | Nov-15        |                  |               |                    |               | Nov-15        |               |                  |               |                    |               | Nov-15        |        |                  |               |                    |               |
|              | Dec-15        |                  |               |                    |               | Dec-15        |               |                  |               |                    |               | Dec-15        |        |                  |               |                    |               |
|              | <b>CENTRL</b> | Jan-15           | 2,414         | 939                | 33,426        | 776           |               | <b>MILLWD</b>    | Jan-15        | 418                | 244           | 716           | 192    |                  | <b>NYISO</b>  | Jan-15             | 22,958        |
| Feb-15       |               | 2,306            | 1,265         | 28,050             | 579           | Feb-15        | 562           |                  | 674           | 627                | 186           | Feb-15        | 19,386 | 17,506           |               | 59,440             | 13,238        |
| Mar-15       |               | 1,168            | 538           | 24,644             | 587           | Mar-15        | 377           |                  | 389           | 947                | 287           | Mar-15        | 19,769 | 12,449           |               | 59,066             | 17,619        |
| Apr-15       |               | 927              | 311           | 20,024             | 588           | Apr-15        | 174           |                  | 239           | 979                | 298           | Apr-15        | 18,550 | 8,979            |               | 56,234             | 12,458        |
| May-15       |               | 908              | 249           | 24,901             | 400           | May-15        | 497           |                  | 126           | 668                | 200           | May-15        | 27,711 | 11,315           |               | 56,132             | 10,736        |
| Jun-15       |               | 1,104            | 194           | 24,287             | 791           | Jun-15        | 588           |                  | 24            | 790                | 277           | Jun-15        | 22,528 | 10,411           |               | 57,608             | 13,186        |
| Jul-15       |               |                  |               |                    |               | Jul-15        |               |                  |               |                    |               | Jul-15        |        |                  |               |                    |               |
| Aug-15       |               |                  |               |                    |               | Aug-15        |               |                  |               |                    |               | Aug-15        |        |                  |               |                    |               |
| Sep-15       |               |                  |               |                    |               | Sep-15        |               |                  |               |                    |               | Sep-15        |        |                  |               |                    |               |
| Oct-15       |               |                  |               |                    |               | Oct-15        |               |                  |               |                    |               | Oct-15        |        |                  |               |                    |               |
| Nov-15       |               |                  |               |                    |               | Nov-15        |               |                  |               |                    |               | Nov-15        |        |                  |               |                    |               |
| Dec-15       |               |                  |               |                    |               | Dec-15        |               |                  |               |                    |               | Dec-15        |        |                  |               |                    |               |

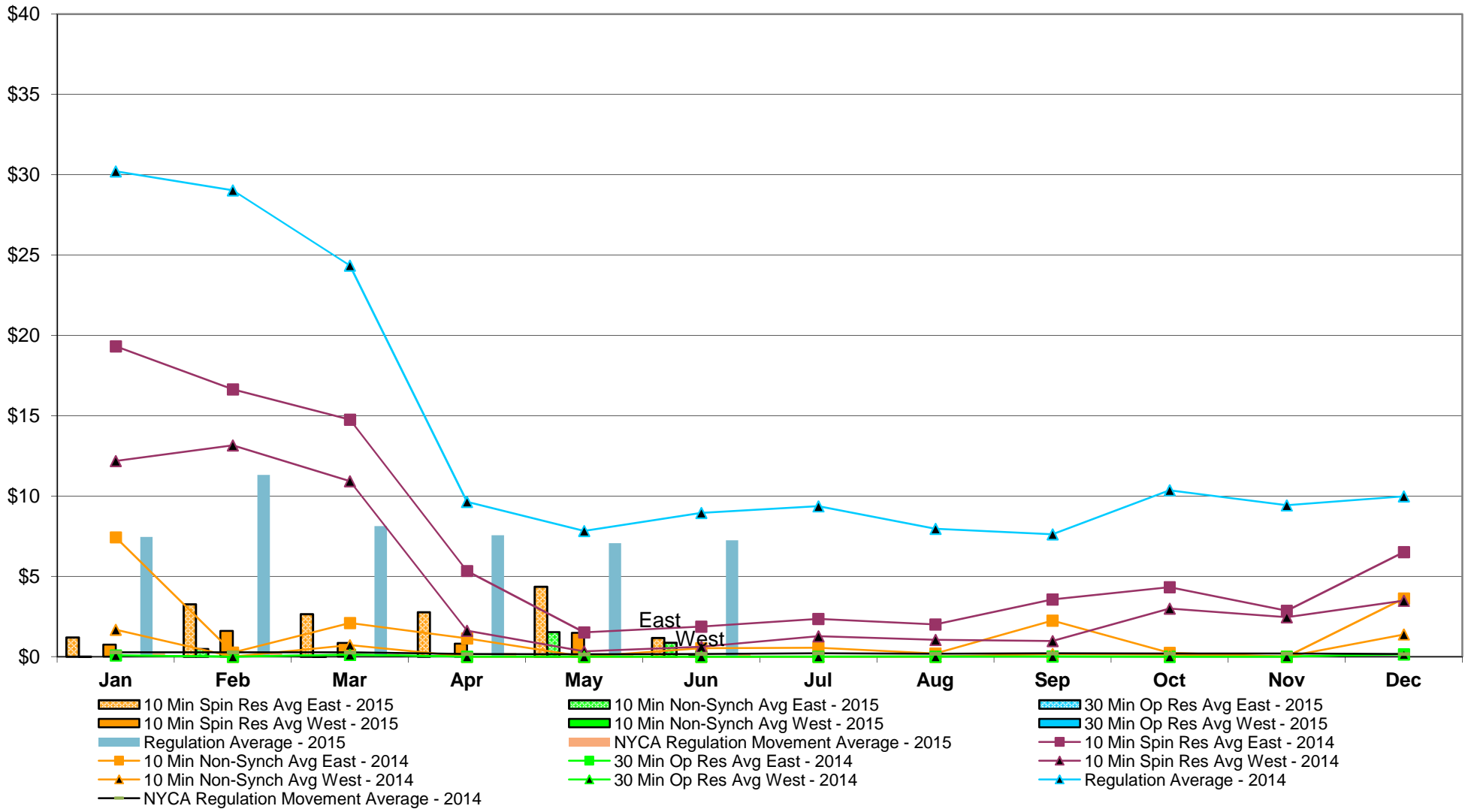
## NYISO Multi Hour Block Transactions Monthly Total MWh



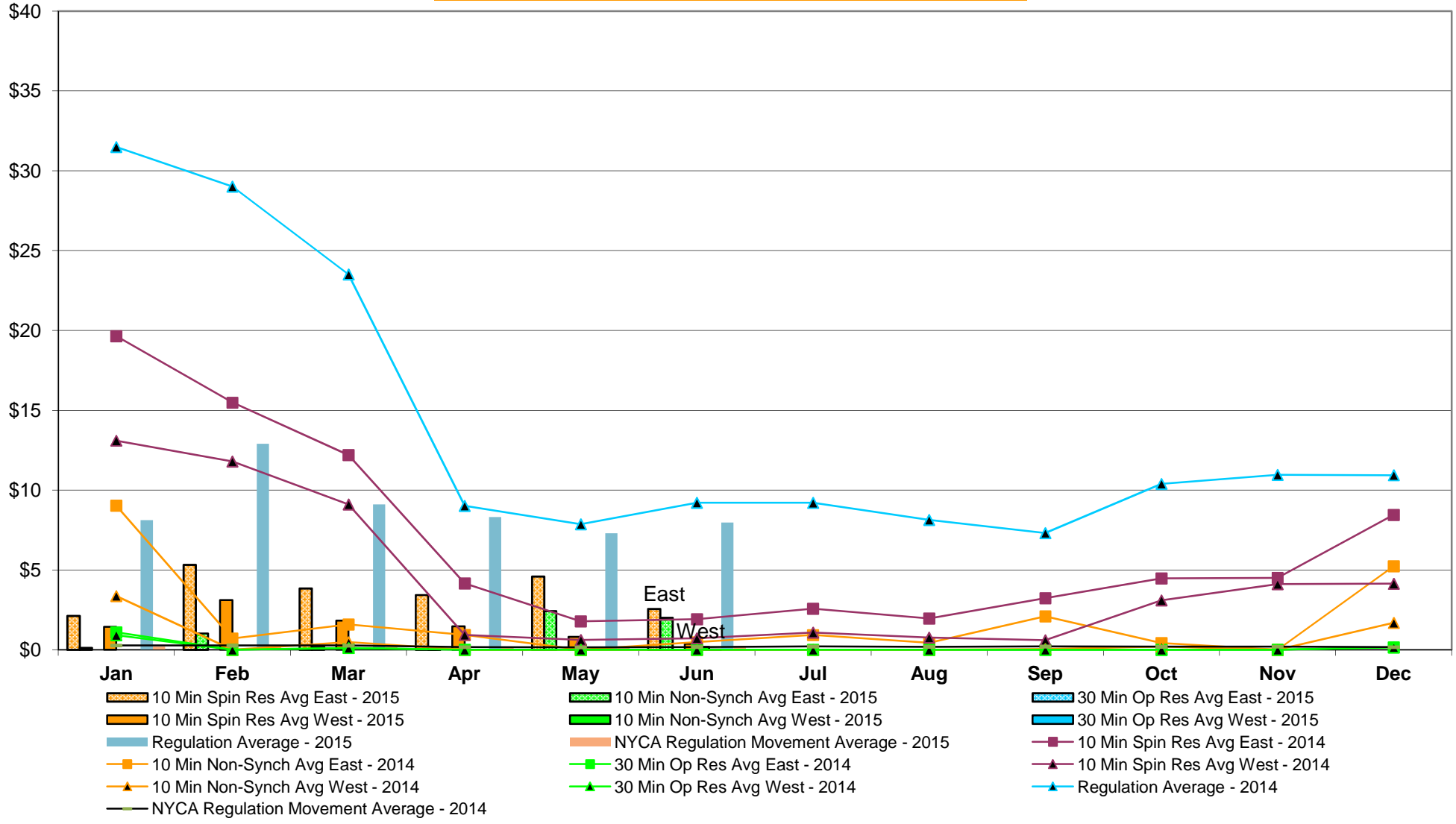
## NYISO Monthly Average Ancillary Service Prices Day Ahead Market 2014 - 2015



## NYISO Monthly Average Ancillary Service Prices RTC Market 2014 - 2015



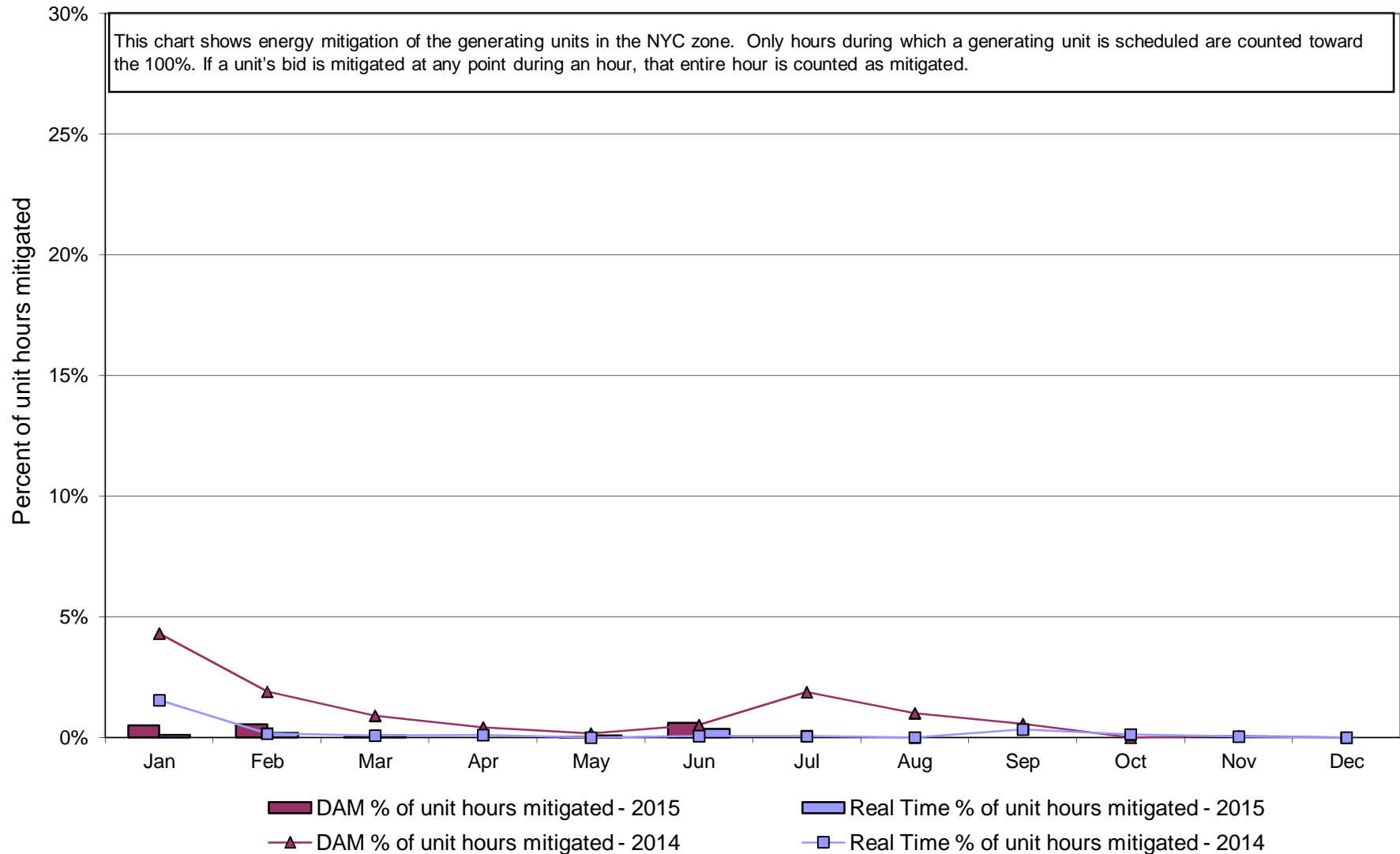
## NYISO Monthly Average Ancillary Service Prices Real Time Market 2014 - 2015



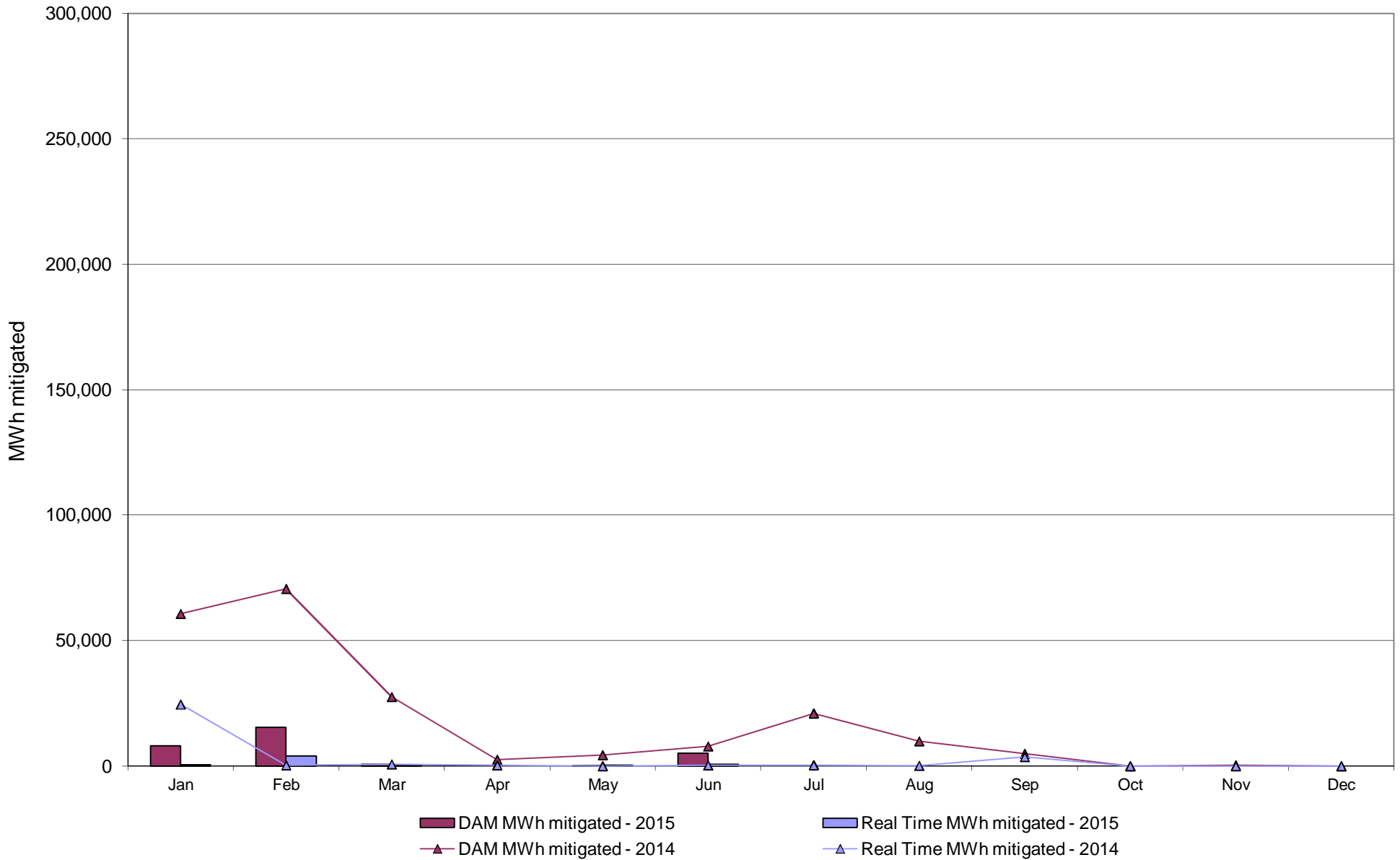
**NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH)**

| <b>2015</b>              | <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> |
|--------------------------|----------------|-----------------|--------------|--------------|------------|-------------|-------------|---------------|------------------|----------------|-----------------|-----------------|
| <b>Day Ahead Market</b>  |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| 10 Min Spin East         | 5.92           | 7.69            | 11.09        | 5.53         | 6.31       | 4.53        |             |               |                  |                |                 |                 |
| 10 Min Spin West         | 4.07           | 5.40            | 5.68         | 4.16         | 3.69       | 2.84        |             |               |                  |                |                 |                 |
| 10 Min Non Synch East    | 2.30           | 3.89            | 5.40         | 3.22         | 3.84       | 2.42        |             |               |                  |                |                 |                 |
| 10 Min Non Synch West    | 0.90           | 1.79            | 1.97         | 1.91         | 1.45       | 0.77        |             |               |                  |                |                 |                 |
| 30 Min East              | 0.77           | 1.38            | 1.91         | 1.26         | 0.93       | 0.64        |             |               |                  |                |                 |                 |
| 30 Min West              | 0.77           | 1.38            | 1.91         | 1.26         | 0.93       | 0.64        |             |               |                  |                |                 |                 |
| Regulation               | 8.84           | 19.65           | 9.27         | 7.94         | 7.48       | 8.20        |             |               |                  |                |                 |                 |
| <b>RTC Market</b>        |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| 10 Min Spin East         | 1.20           | 3.27            | 2.64         | 2.77         | 4.36       | 1.18        |             |               |                  |                |                 |                 |
| 10 Min Spin West         | 0.74           | 1.61            | 0.86         | 0.81         | 1.48       | 0.04        |             |               |                  |                |                 |                 |
| 10 Min Non Synch East    | 0.01           | 0.48            | 0.01         | 0.00         | 1.54       | 0.87        |             |               |                  |                |                 |                 |
| 10 Min Non Synch West    | 0.00           | 0.00            | 0.00         | 0.00         | 0.00       | 0.00        |             |               |                  |                |                 |                 |
| 30 Min East              | 0.00           | 0.00            | 0.00         | 0.00         | 0.00       | 0.00        |             |               |                  |                |                 |                 |
| 30 Min West              | 0.00           | 0.00            | 0.00         | 0.00         | 0.00       | 0.00        |             |               |                  |                |                 |                 |
| Regulation               | 7.45           | 11.32           | 8.13         | 7.56         | 7.06       | 7.24        |             |               |                  |                |                 |                 |
| NYCA Regulation Movement | 0.21           | 0.21            | 0.16         | 0.22         | 0.16       | 0.24        |             |               |                  |                |                 |                 |
| <b>Real Time Market</b>  |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| 10 Min Spin East         | 2.12           | 5.31            | 3.84         | 3.44         | 4.59       | 2.56        |             |               |                  |                |                 |                 |
| 10 Min Spin West         | 1.44           | 3.11            | 1.83         | 1.46         | 0.81       | 0.38        |             |               |                  |                |                 |                 |
| 10 Min Non Synch East    | 0.12           | 1.03            | 0.17         | 0.01         | 2.41       | 2.01        |             |               |                  |                |                 |                 |
| 10 Min Non Synch West    | 0.00           | 0.00            | 0.00         | 0.00         | 0.00       | 0.19        |             |               |                  |                |                 |                 |
| 30 Min East              | 0.00           | 0.00            | 0.00         | 0.00         | 0.00       | 0.02        |             |               |                  |                |                 |                 |
| 30 Min West              | 0.00           | 0.00            | 0.00         | 0.00         | 0.00       | 0.02        |             |               |                  |                |                 |                 |
| Regulation               | 8.12           | 12.91           | 9.11         | 8.32         | 7.30       | 7.97        |             |               |                  |                |                 |                 |
| NYCA Regulation Movement | 0.20           | 0.21            | 0.17         | 0.15         | 0.16       | 0.24        |             |               |                  |                |                 |                 |
| <b>2014</b>              | <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> |
| <b>Day Ahead Market</b>  |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| 10 Min Spin East         | 17.19          | 12.62           | 13.27        | 8.57         | 4.77       | 5.11        | 5.37        | 5.33          | 5.66             | 9.41           | 7.04            | 5.73            |
| 10 Min Spin West         | 10.02          | 7.32            | 6.36         | 4.47         | 2.92       | 2.69        | 2.54        | 2.96          | 3.41             | 3.76           | 3.82            | 3.82            |
| 10 Min Non Synch East    | 8.40           | 4.78            | 5.86         | 4.44         | 2.86       | 3.37        | 3.65        | 2.85          | 3.08             | 4.40           | 3.58            | 2.45            |
| 10 Min Non Synch West    | 2.02           | 1.23            | 0.70         | 0.55         | 1.06       | 0.96        | 0.83        | 0.49          | 0.91             | 0.27           | 0.89            | 0.95            |
| 30 Min East              | 1.77           | 0.93            | 0.47         | 0.24         | 0.09       | 0.08        | 0.08        | 0.04          | 0.21             | 0.14           | 0.53            | 0.60            |
| 30 Min West              | 1.77           | 0.93            | 0.47         | 0.24         | 0.09       | 0.08        | 0.08        | 0.04          | 0.21             | 0.14           | 0.53            | 0.60            |
| Regulation               | 37.05          | 24.05           | 21.29        | 9.12         | 7.99       | 8.30        | 8.18        | 8.18          | 7.67             | 8.21           | 7.74            | 7.12            |
| <b>RTC Market</b>        |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| 10 Min Spin East         | 19.32          | 16.64           | 14.76        | 5.34         | 1.52       | 1.87        | 2.35        | 2.00          | 3.57             | 4.32           | 2.86            | 6.51            |
| 10 Min Spin West         | 12.18          | 13.16           | 10.93        | 1.61         | 0.33       | 0.61        | 1.27        | 1.04          | 0.98             | 2.99           | 2.46            | 3.48            |
| 10 Min Non Synch East    | 7.43           | 0.26            | 2.10         | 1.14         | 0.00       | 0.52        | 0.55        | 0.20          | 2.25             | 0.25           | 0.00            | 3.62            |
| 10 Min Non Synch West    | 1.68           | 0.00            | 0.72         | 0.00         | 0.00       | 0.00        | 0.00        | 0.00          | 0.17             | 0.13           | 0.00            | 1.39            |
| 30 Min East              | 0.08           | 0.00            | 0.12         | 0.00         | 0.00       | 0.00        | 0.00        | 0.00          | 0.02             | 0.00           | 0.00            | 0.15            |
| 30 Min West              | 0.08           | 0.00            | 0.12         | 0.00         | 0.00       | 0.00        | 0.00        | 0.00          | 0.02             | 0.00           | 0.00            | 0.15            |
| Regulation               | 30.21          | 29.03           | 24.35        | 9.64         | 7.83       | 8.95        | 9.36        | 7.97          | 7.62             | 10.36          | 9.42            | 9.99            |
| NYCA Regulation Movement | 0.28           | 0.27            | 0.26         | 0.17         | 0.15       | 0.17        | 0.21        | 0.18          | 0.21             | 0.20           | 0.20            | 0.17            |
| <b>Real Time Market</b>  |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| 10 Min Spin East         | 19.64          | 15.48           | 12.19        | 4.15         | 1.78       | 1.92        | 2.57        | 1.96          | 3.23             | 4.47           | 4.51            | 8.45            |
| 10 Min Spin West         | 13.10          | 11.80           | 9.11         | 0.94         | 0.61       | 0.72        | 1.08        | 0.76          | 0.60             | 3.10           | 4.12            | 4.14            |
| 10 Min Non Synch East    | 9.03           | 0.70            | 1.59         | 0.93         | 0.00       | 0.48        | 0.92        | 0.44          | 2.09             | 0.42           | 0.00            | 5.23            |
| 10 Min Non Synch West    | 3.37           | 0.00            | 0.48         | 0.00         | 0.00       | 0.00        | 0.00        | 0.00          | 0.05             | 0.20           | 0.00            | 1.69            |
| 30 Min East              | 1.10           | 0.00            | 0.11         | 0.00         | 0.00       | 0.00        | 0.00        | 0.00          | 0.00             | 0.00           | 0.00            | 0.16            |
| 30 Min West              | 0.92           | 0.00            | 0.11         | 0.00         | 0.00       | 0.00        | 0.00        | 0.00          | 0.00             | 0.00           | 0.00            | 0.16            |
| Regulation               | 31.50          | 29.02           | 23.52        | 9.02         | 7.87       | 9.21        | 9.21        | 8.13          | 7.31             | 10.39          | 10.96           | 10.94           |
| NYCA Regulation Movement | 0.27           | 0.27            | 0.27         | 0.17         | 0.15       | 0.18        | 0.21        | 0.19          | 0.21             | 0.19           | 0.20            | 0.17            |

## NYISO In City Energy Mitigation - AMP (NYC Zone) 2014 - 2015 Percentage of committed unit-hours mitigated

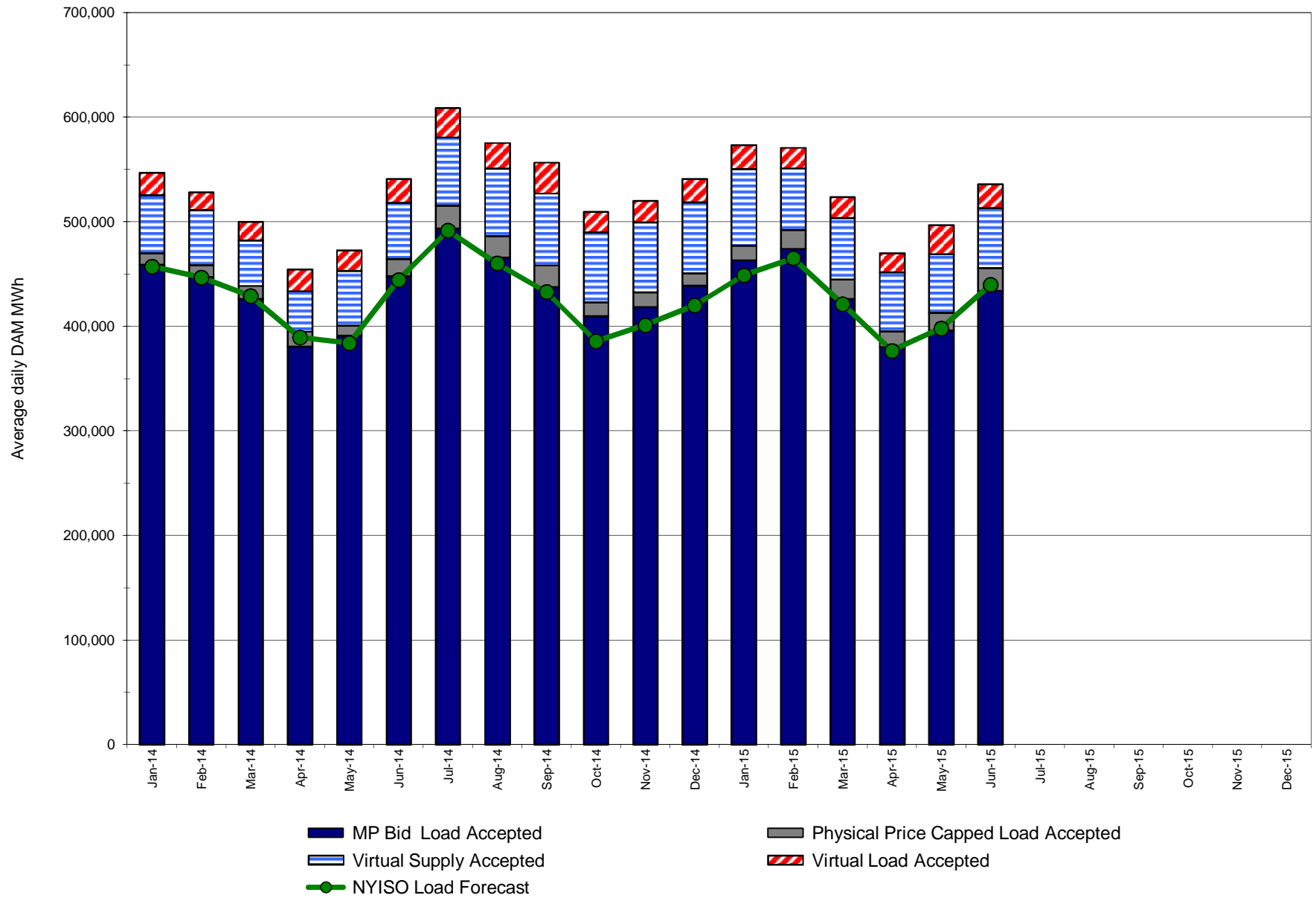


**NYISO In City Energy Mitigation (NYC Zone) 2014 - 2015**  
**Monthly megawatt hours mitigated**

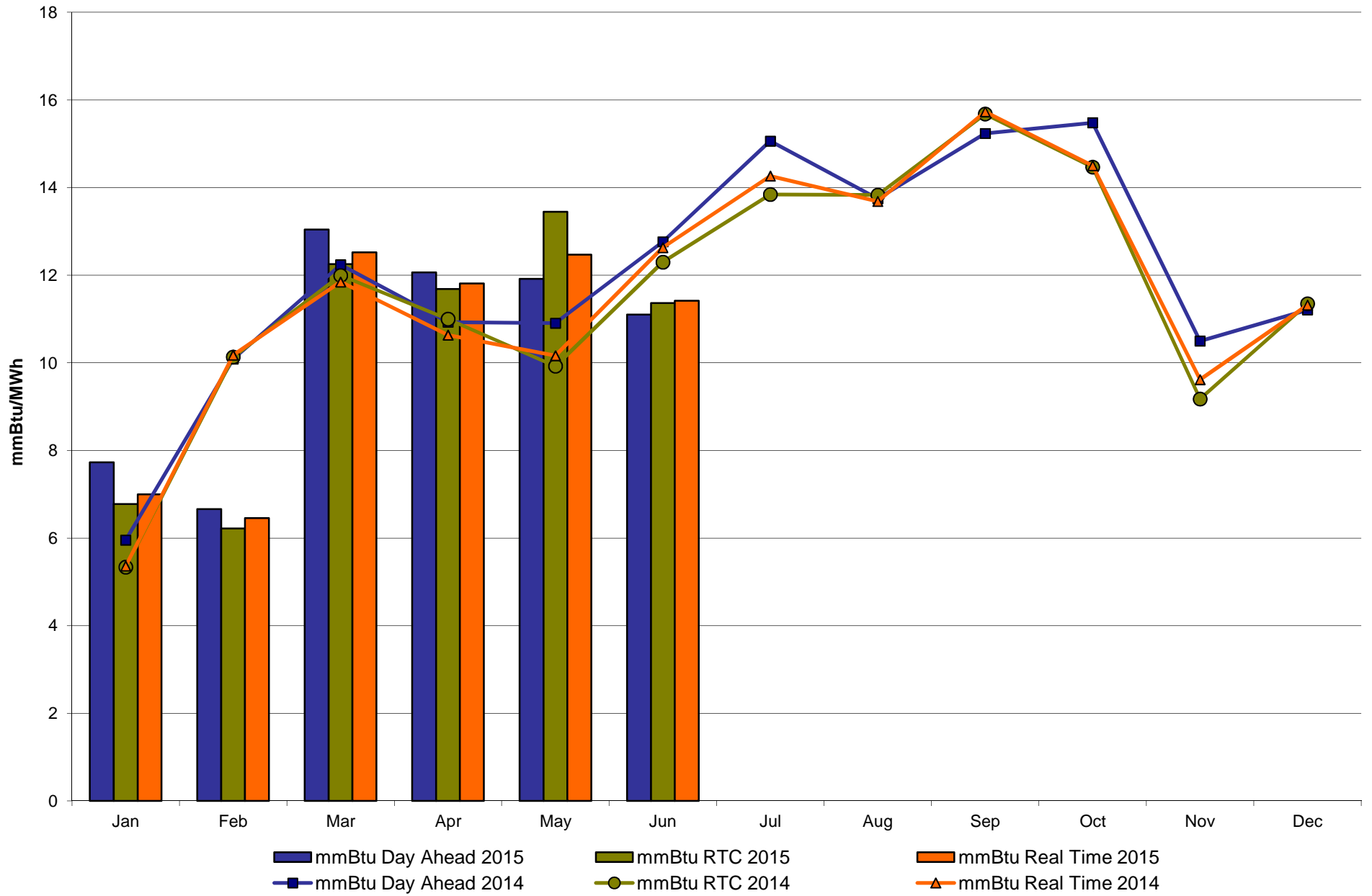




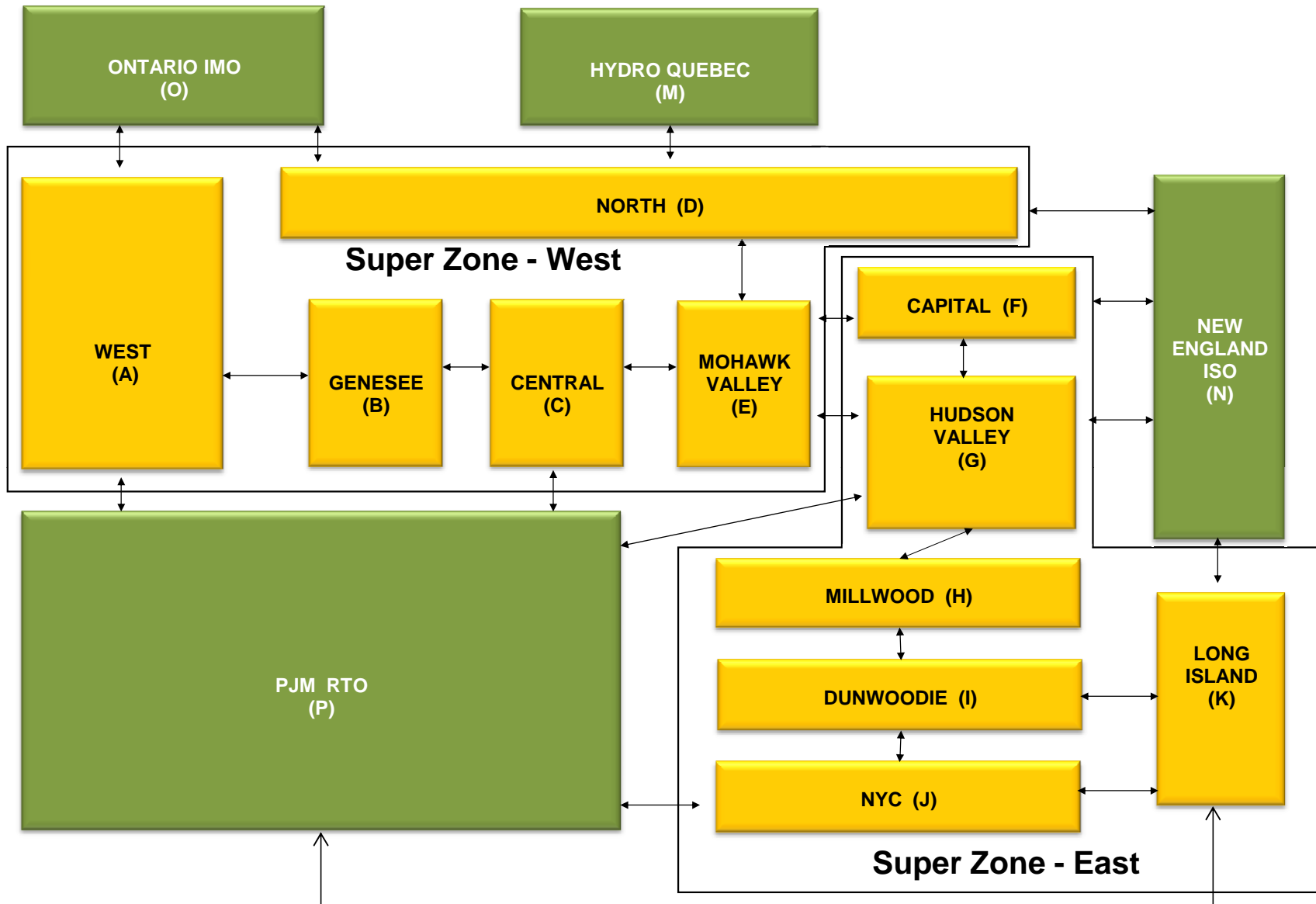
### NYISO Average Daily DAM Load Bid Summary



## Monthly Implied Heat Rate 2014-2015



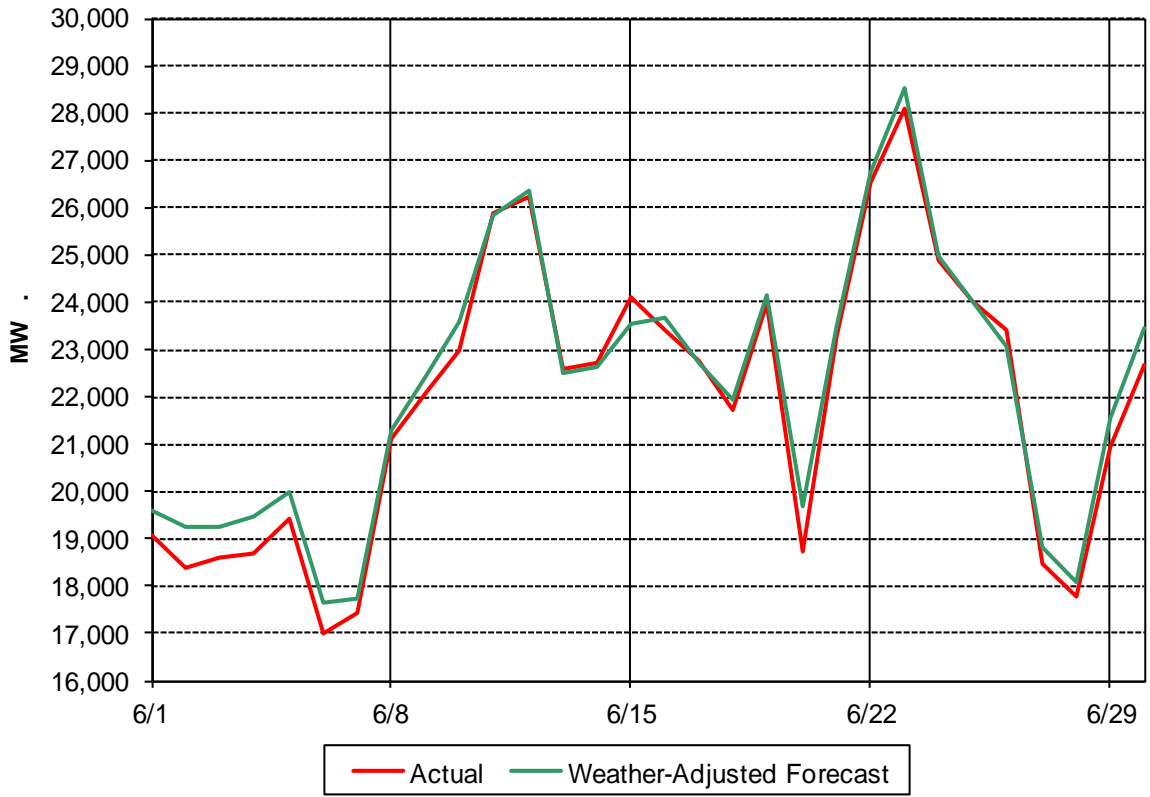
# NYISO LBMP ZONES



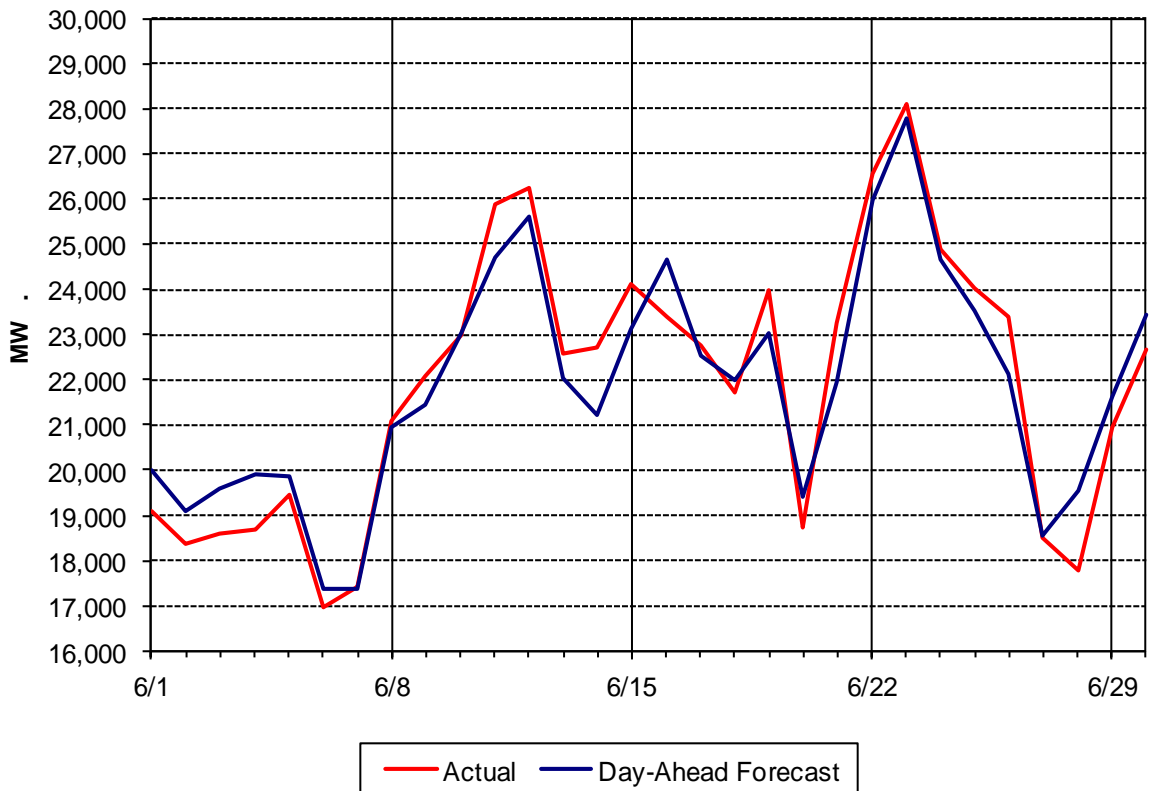
**Billing Codes for Chart 4-C**

| <b>Chart - C Category Name</b>            | <b>Billing Code</b> | <b>Billing Category Name</b>   |
|---|---------------------|--|
| 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   |

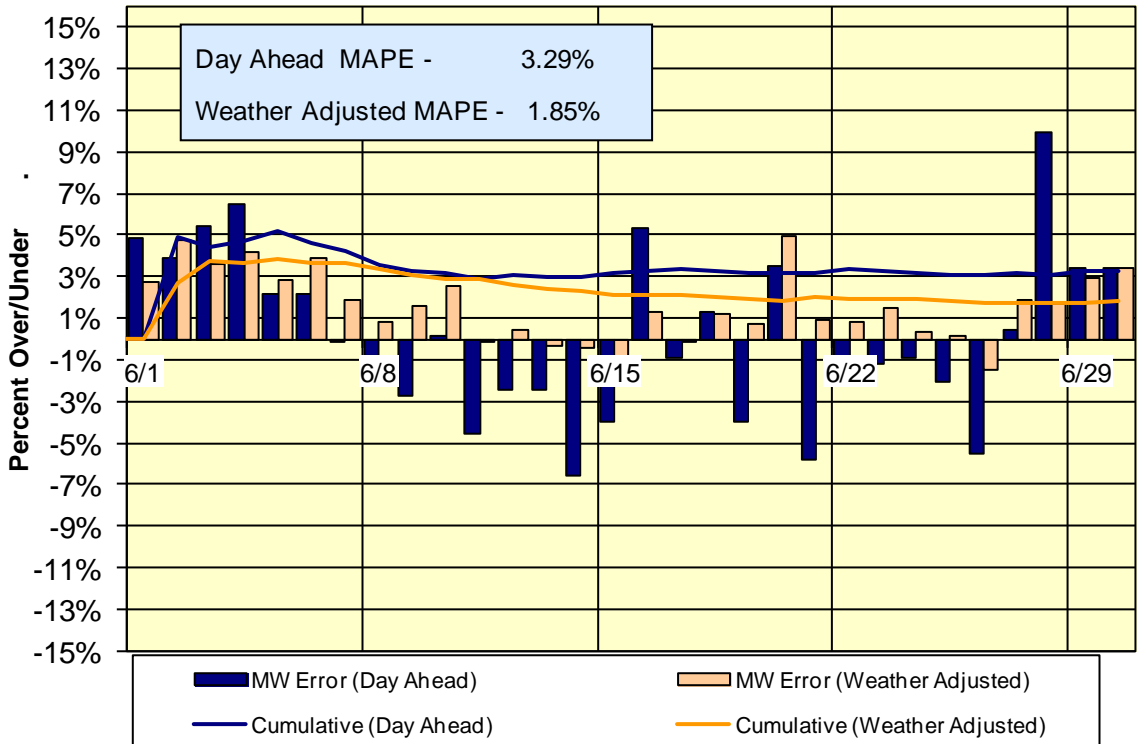
**NYISO Daily Peak Load - June 2015  
Actual vs. Weather-Adjusted Forecast**



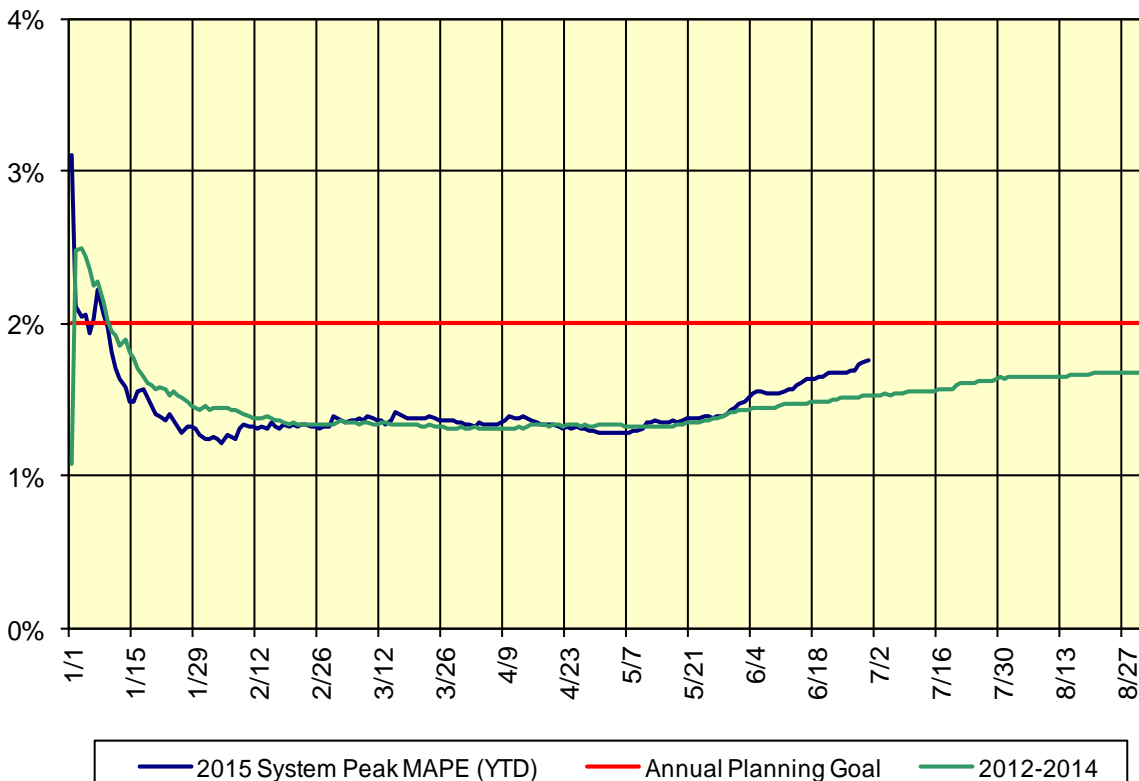
**NYISO Daily Peak Load - June 2015  
Actual vs. Forecast**



### Day Ahead Peak Forecast - June 2015 Percent Error - Actual & Weather Adjusted



### Day-Ahead Forecast Accuracy - Cumulative Performance 2015 Year-to-Date



## Summary Description of Regulatory Filings, Investigations, Rulemakings and Related Orders in NYISO Matters – June 2015

| <b>Filing Date</b>       | <b>Filing Summary</b>  | <b>Docket</b>                  | <b>Order Date</b> | <b>Order Summary</b>  |
|--------------------------|--|--------------------------------|-------------------|---|
| 02/13/2015<br>04/30/2015 | NYISO 205 filing re: revisions to the design of the compensation to Suppliers providing Voltage Support Service based on a VSS Supplier's capability to provide both leading and lagging voltage support | ER15-1042-000<br>ER15-1042-001 | 06/30/2015        | FERC order accepted revisions effective 01/01/2016, as requested      |
| 04/29/2015               | NYISO filing re: proposed credit policy revisions to require market participants to annually file updated financial information  | ER15-1590-000                  | 06/30/2015        | FERC letter order accepted revisions effective 07/15/15, as requested |
| 05/15/2015               | NYISO filing re: request for an extension of time until 10/19/15 to make the reliability must run compliance filing  | EL15-37-000                    | 06/04/2015        | FERC notice granted the extension request                             |
| 05/20/2015               | NYISO filing re: eight executed non-conforming Interconnection Facilities Study Agreements for certain projects entering the NYISO's Class Year 2015 Interconnection Facilities Study                    | ER15-1757-000                  | 06/30/2015        | FERC letter order accepted the greements                              |
| 06/01/2015               | NYISO filing re: semi-annual compliance report on new generation projects and demand response programs in the NYCA   | ER03-647-000<br>ER01-3001-000  |                   |   |
| 06/01/2015               | NYISO compliance filing re: buyer-side mitigation rules  | ER14-2414-003                  |                   |   |
| 06/01/2015               | NYISO compliance filing re: market rules concerning outage states  | ER14-2518-003                  |                   |   |
| 06/01/2015               | NYISO informational report re: whether or not to model Load Zone K as an export-constrained zone for a future ICAP Demand Curve reset proceeding   | AD14-16-000                    |                   |   |
| 06/02/2015               | NYISO filing on behalf of Niagara Mohawk Power Corporation (NMPC) of an amended and restated LGIA (SA 2220) between NMPC and Fortistar North Tonawanda   | ER15-1835-000                  |                   |   |
| 06/03/2015               | NYISO filing on behalf of O&R and Con Ed of an interconnection agreement (SA 2216) re: the reconnection of a transmission line at the Ramapo Substation  | ER15-1845-000                  |                   |   |

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| 06/03/2015 | NYISO filing on behalf of O&R and Con Ed of an interconnection agreement (SA 2217) re:link connectors within the Sugarloaf Substation                                | ER15-1846-000                 |  |  |
| 06/03/2015 | NYISO refiling to correct errors and omissions re: 6/1/15 compliance filing concerning buyer-side market mitigation rules  | ER14-2414-004                 |  |  |
| 06/04/2015 | NYISO filing to the NYPSC of a letter from S. Whitley to PSC Chair A. Zibelman re: transmission upgrades in New York   | PSC Case No. 14-E-0454        |  |  |
| 06/10/2015 | NYISO filing re: document-less motion to intervene in the Linden VFT v PJM proceeding  | EL15-67-000                   |  |  |
| 06/10/2015 | NYISO filing re: large generator interconnection agreement (Service Agreement No. 2214) among NYISO, NYPA and CPV Valley   | ER15-1895-000                 |  |  |
| 06/12/2015 | NYISO filing on behalf of National Grid re: compliance revisions to the National Grid wholesale TSC rate formulas in OATT Section 14                                 | ER15-1911-000                 |  |  |
| 06/12/2015 | NYISO confidential filing to the NYPSC re: three-month <i>Reliability Commitment Data Report</i> for the period ending 05/31/2015                                    | PSC Matter No. 10-02007       |  |  |
| 06/17/2015 | NYISO compliance report re: analyses of the applicability of the buyer side mitigation rules to the rest of state and projects developed under repowering agreements | EL13-62-002                   |  |  |
| 06/19/2015 | NYISO letter filing to the PSC re: response to the 5/21/2015 request for records   | PSC Matter No. 13-01288       |  |  |
| 06/23/2015 | NYISO filing re: answer to third party protests of the joint NYISO/NYTO supplemental Order No. 1000 compliance filing  | ER13-102-007                  |  |  |
| 06/26/2015 | NYISO filing of a motion to intervene and comment re: third party request for tariff waiver of the deadline for submission of SCR performance data                   | ER15-1926-000                 |  |  |
| 06/29/2015 | NYISO filing of a motion to intervene and comment re: third party request for tariff waiver of the deadline for submission of SCR performance data                   | ER15-1951-000                 |  |  |
| 06/29/2015 | NYISO filing of a motion to intervene in the Con Ed., et al. v. FERC proceeding to review certain buyer side mitigation orders                                       | DC Circuit Court Case 15-1138 |  |  |



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| 06/29/2015 | NYISO 205 filing re: revisions to the public policy transmission planning process portion of its comprehensive system planning process | ER15-2059-000 |  |  |
| 06/29/2015 | NYISO filing of an answer re: a complaint v. NYISO filed by NYPSC, NYSEDA and NYPA concerning the buyer side mitigation rules          | EL15-64-000   |  |  |
| 06/30/2015 | NYISO filing re: engineering, procurement and construction agreement (SA 2215) among NYISO, NYSEG and CPV Valley                       | ER15-2079-000 |  |  |
| 06/30/2015 | NYISO filing re: engineering, procurement, and construction agreement (SA 2218) among NYISO, Central Hudson and CPV Valley             | ER15-2083-000 |  |  |