



# Monthly Report

September 2016

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



## ***September 2016 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 October 10, 2016.

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## September 2016 Operations Performance Highlights

- Peak load of 29,637 MW occurred on 09/09/2016 HB 16
- All-time summer capability period peak load of 33,956 MW occurred on 7/19/2013 HB 16
- 0 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.

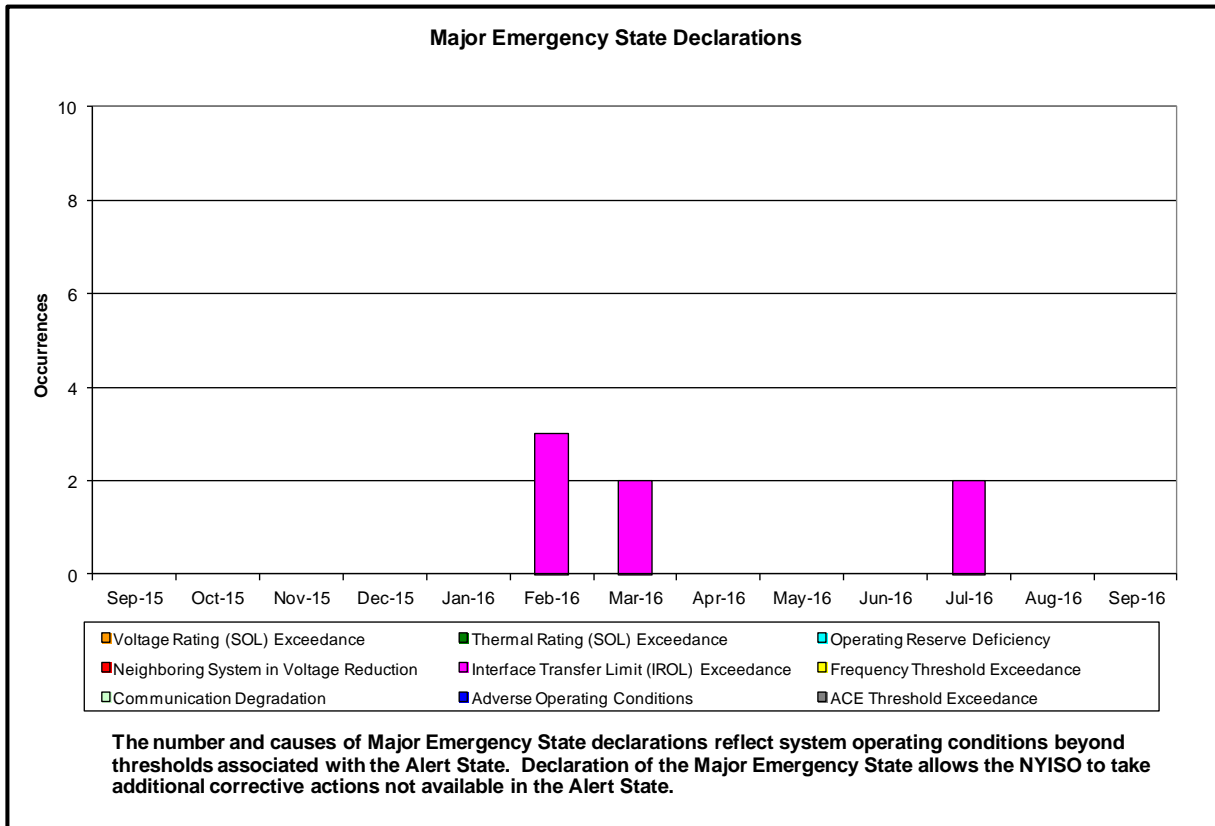
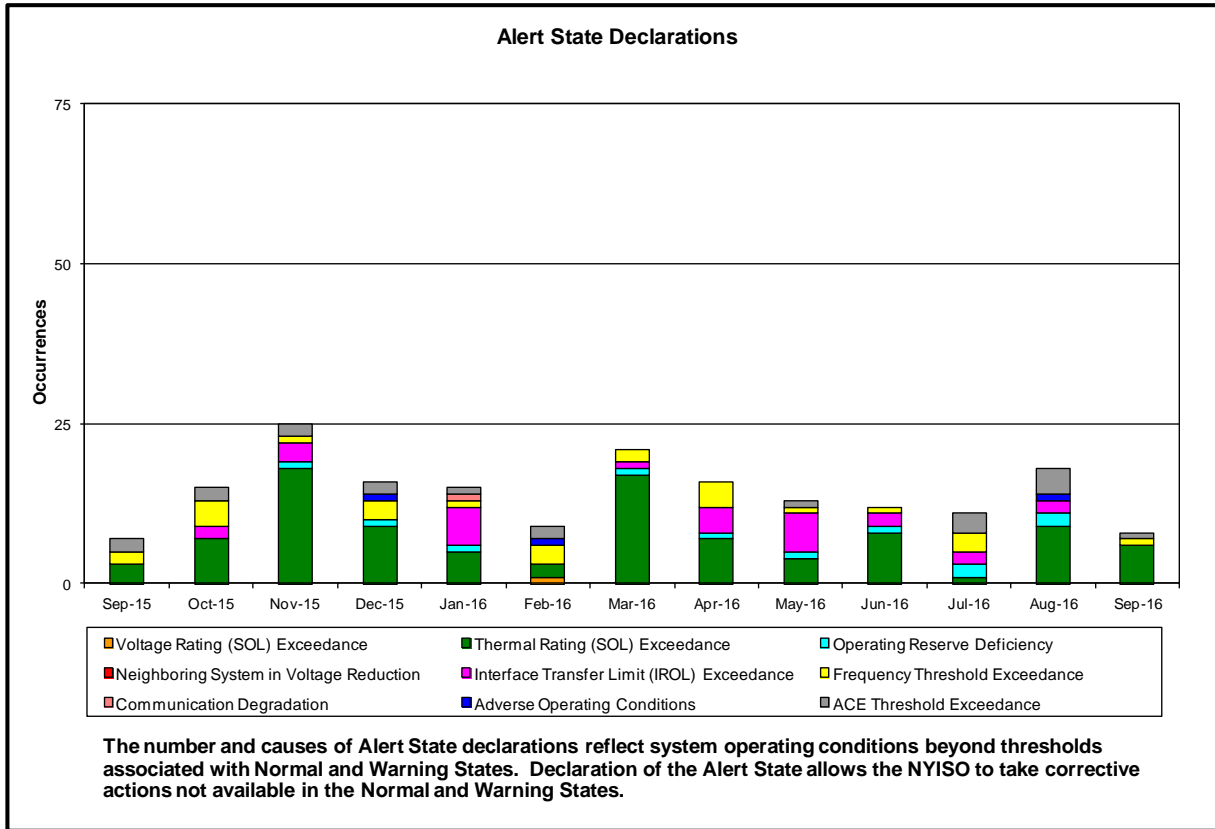
|  | Current Month Value (\$M) | Year-to-Date Value (\$M) |
|--|---------------------------|--------------------------|
| <b>NY Savings from PJM-NY Congestion Coordination</b>                  | \$0.33                    | \$16.59                  |
| <b>NY Savings from PJM-NY Coordinated Transaction Scheduling</b>       | \$0.00                    | (\$0.47)                 |
| <b>NY Savings from NE-NY Coordinated Transaction Scheduling</b>        | (\$0.10)                  | (\$1.48)                 |
| <b>Total NY Savings</b>  | \$0.23                    | \$14.64                  |
| <b>Regional Savings from PJM-NY Coordinated Transaction Scheduling</b> | \$0.24                    | \$2.01                   |
| <b>Regional Savings from NE-NY Coordinated Transaction Scheduling</b>  | \$0.11                    | \$1.44                   |
| <b>Total Regional Savings</b>  | \$0.35                    | \$3.45                   |

- Statewide uplift cost monthly average was (\$0.29)/MWh
- The following table identifies the Monthly ICAP spot market prices by locality and the price delta.

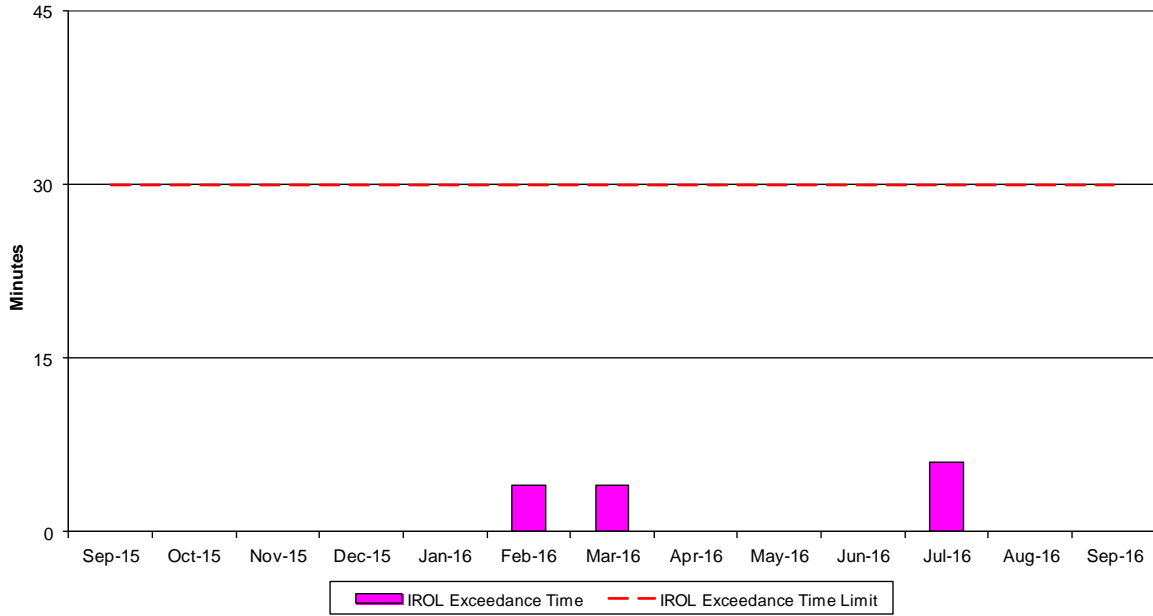
| Spot Auction Price Results | NYCA     | Lower Hudson Valley Zones | New York City Zone | Long Island Zone |
|----------------------------|----------|---------------------------|--------------------|------------------|
| October 2016 Spot Price    | \$3.12   | \$9.16                    | \$12.14            | \$4.34           |
| September 2016 Spot Price  | \$3.32   | \$9.15                    | \$12.19            | \$4.46           |
| Delta                      | (\$0.20) | \$0.01                    | (\$0.05)           | (\$0.12)         |

- NYCA - Price decreases by \$0.20 due to an increase in Net Imports
- LI – Price decreases by \$0.12 due to an increase in total capacity sold

- Reliability Performance Metrics

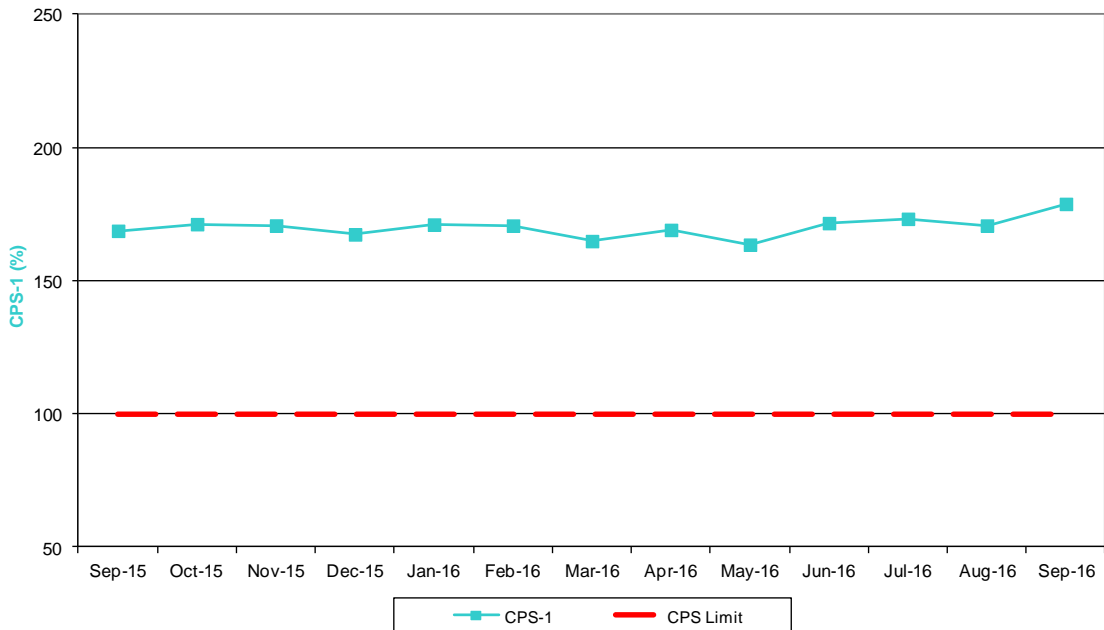


### NERC IROL Time Over Limit

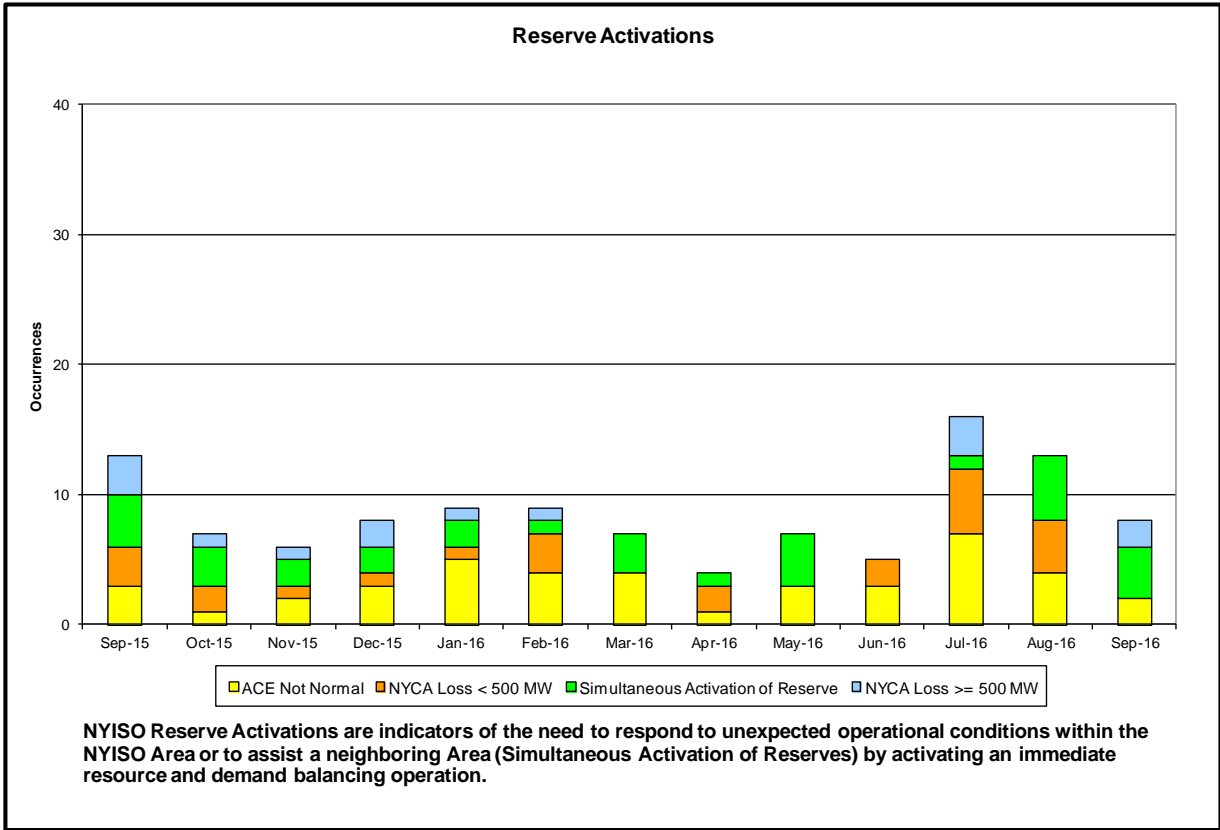
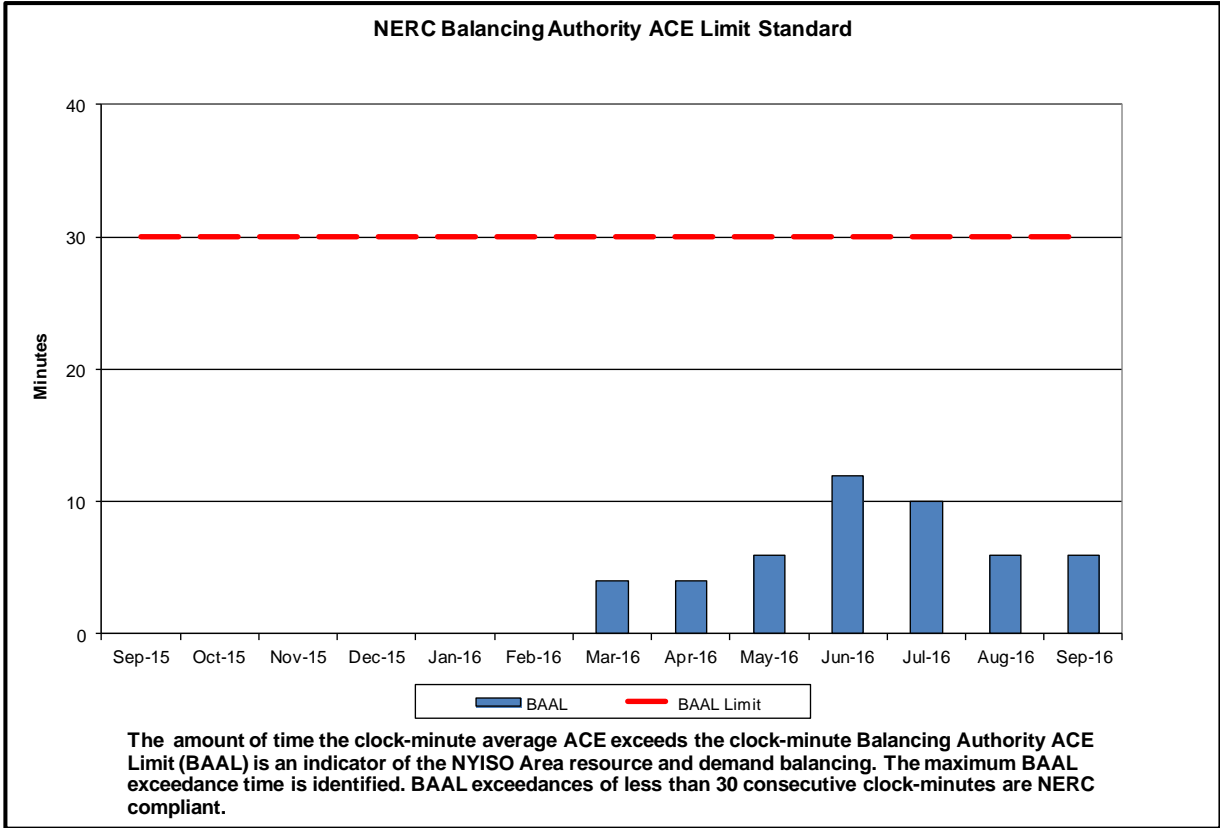


For IROL exceedances leading to Major Emergency State declarations, the maximum IROL exceedance time is identified. IROL exceedances of less than thirty minutes are considered NERC compliant.

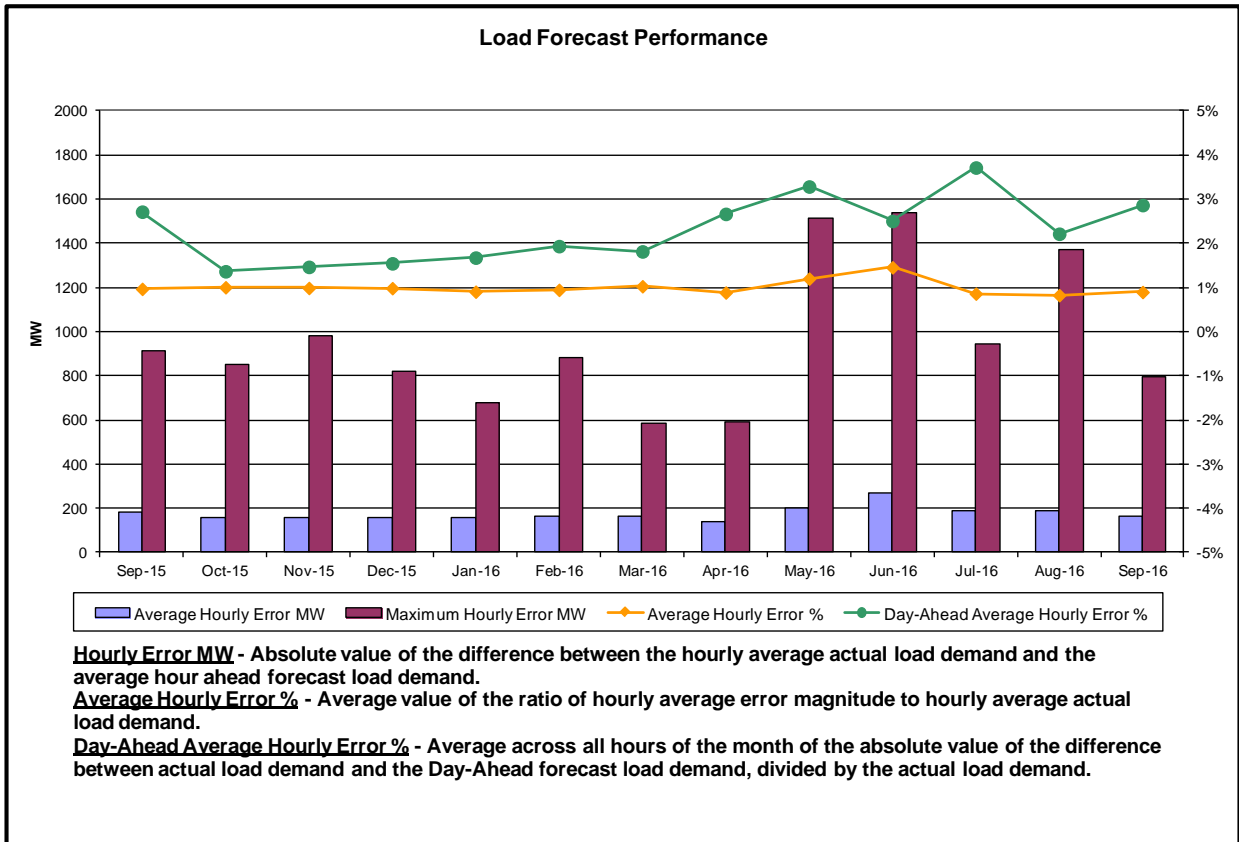
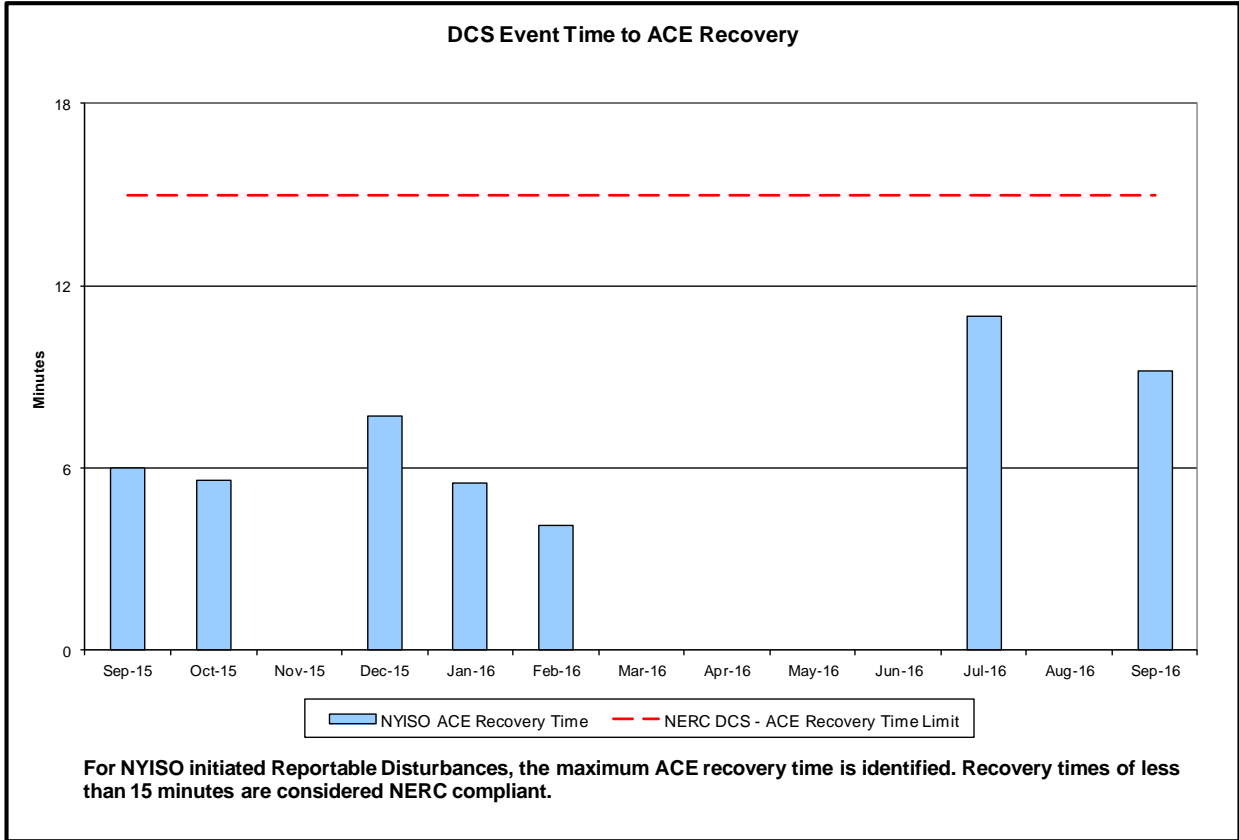
### NERC Control Performance Standards

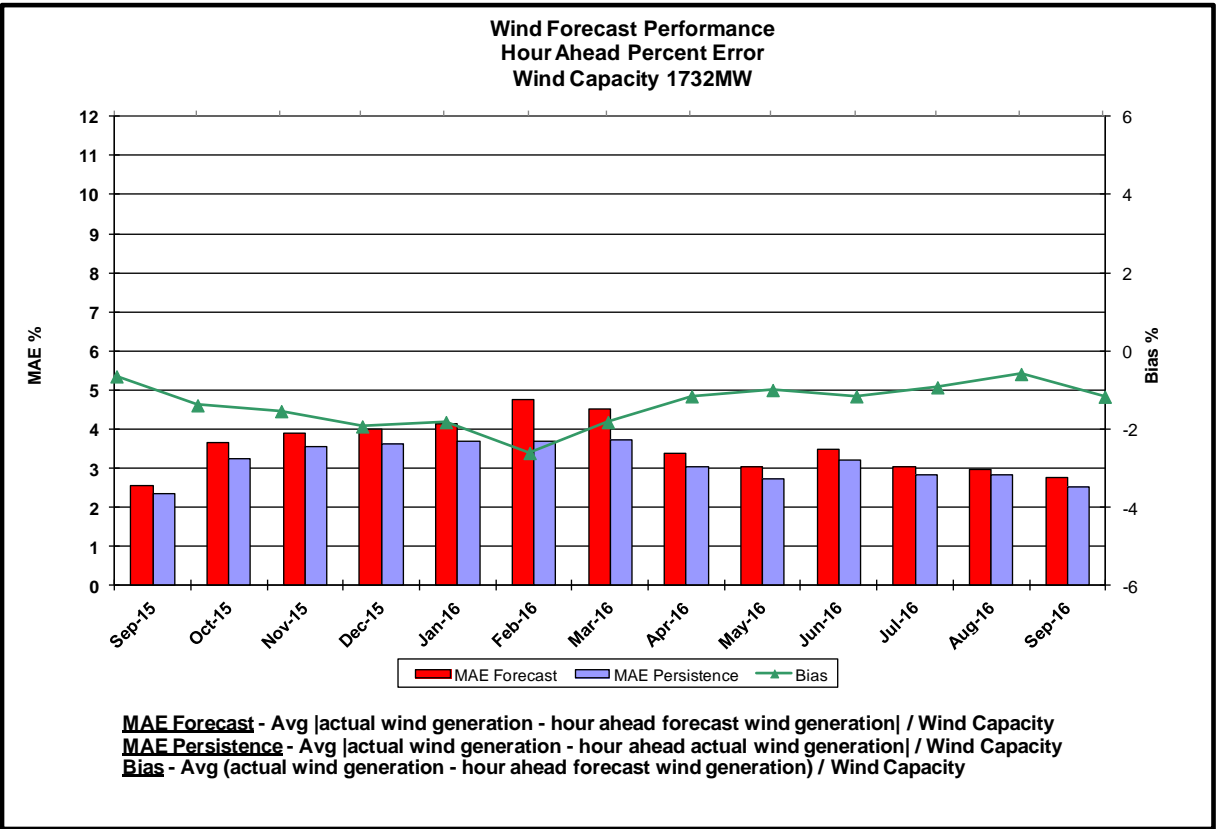
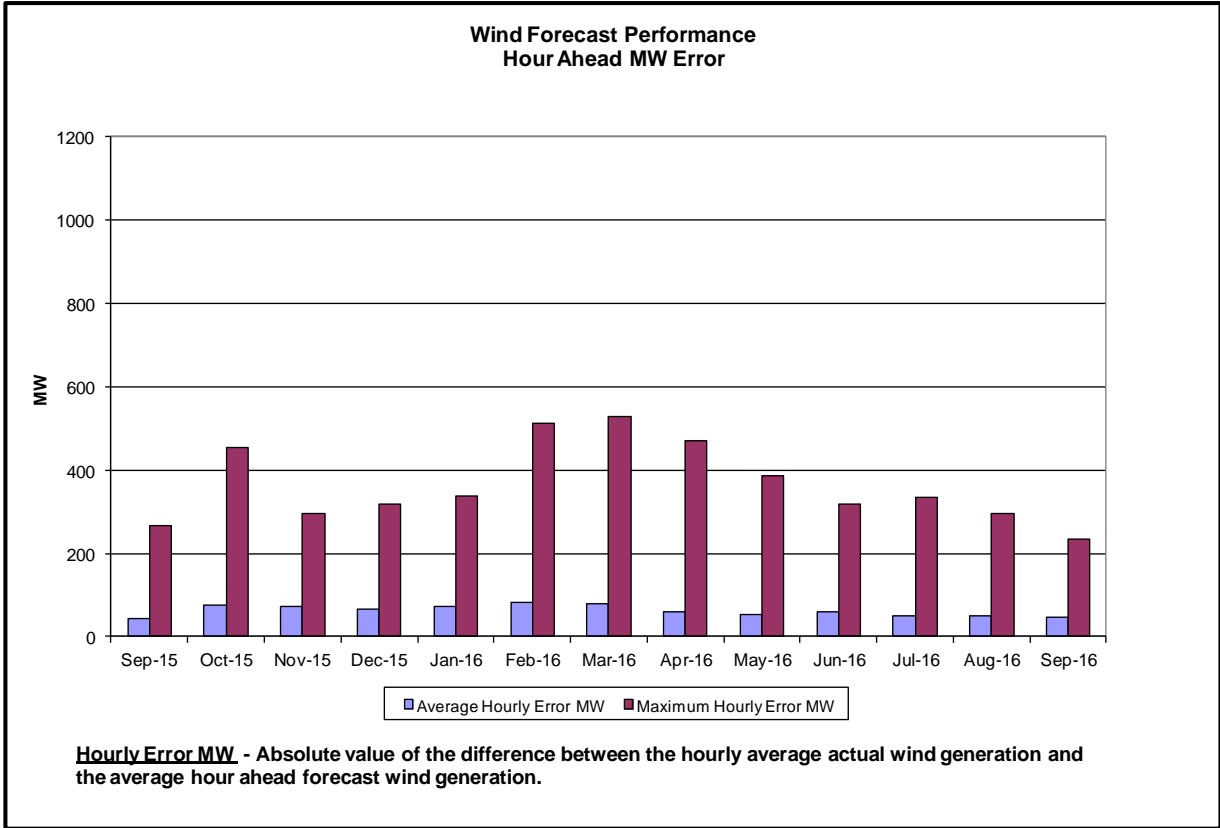


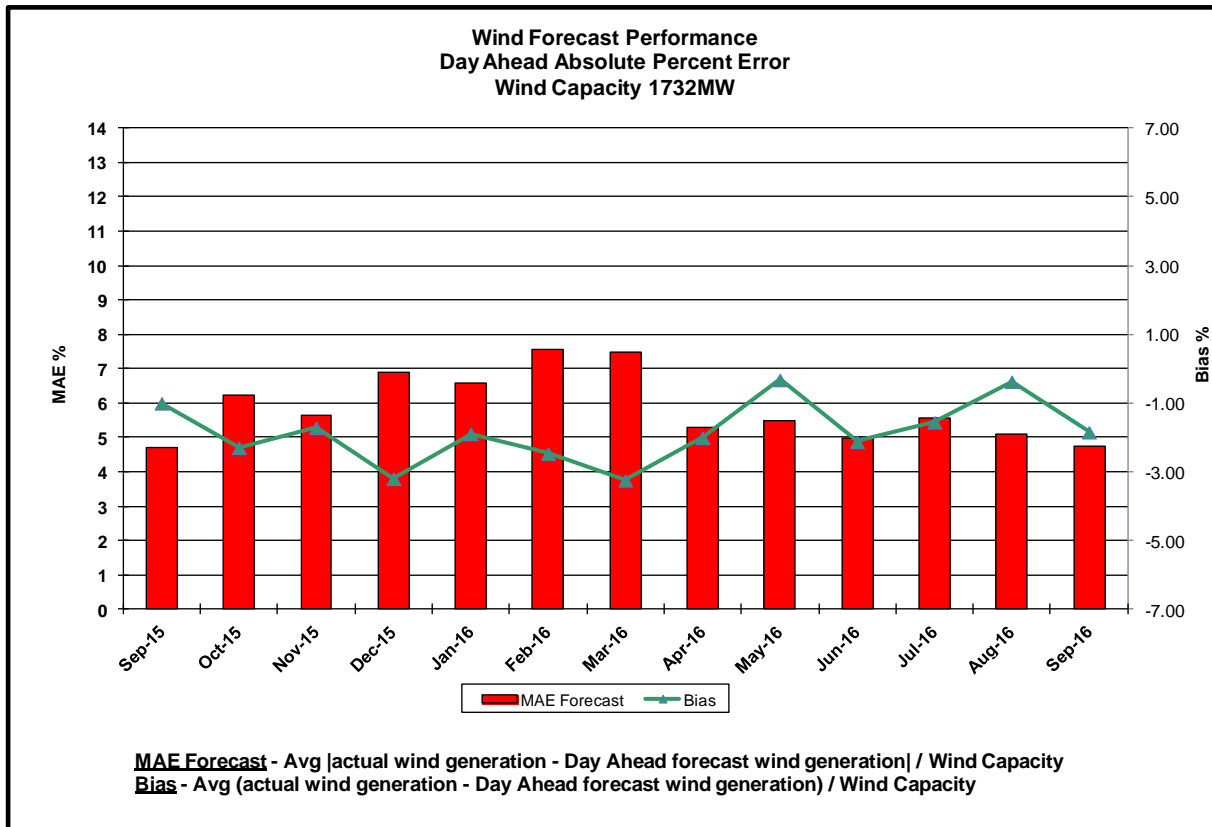
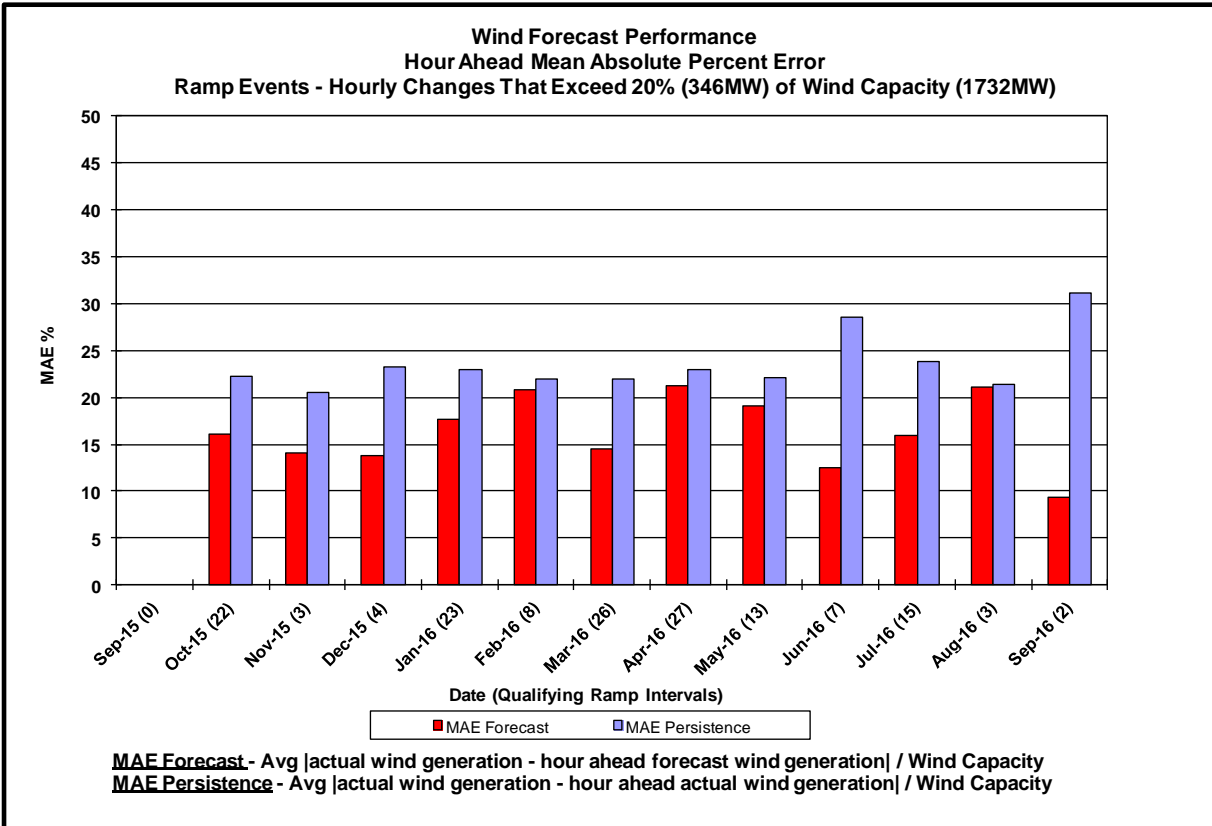
The value of NERC Control Performance Standards (CPS-1) is an indicator of the NYISO Area resource and demand balancing. Values exceeding the identified threshold are NERC compliant.

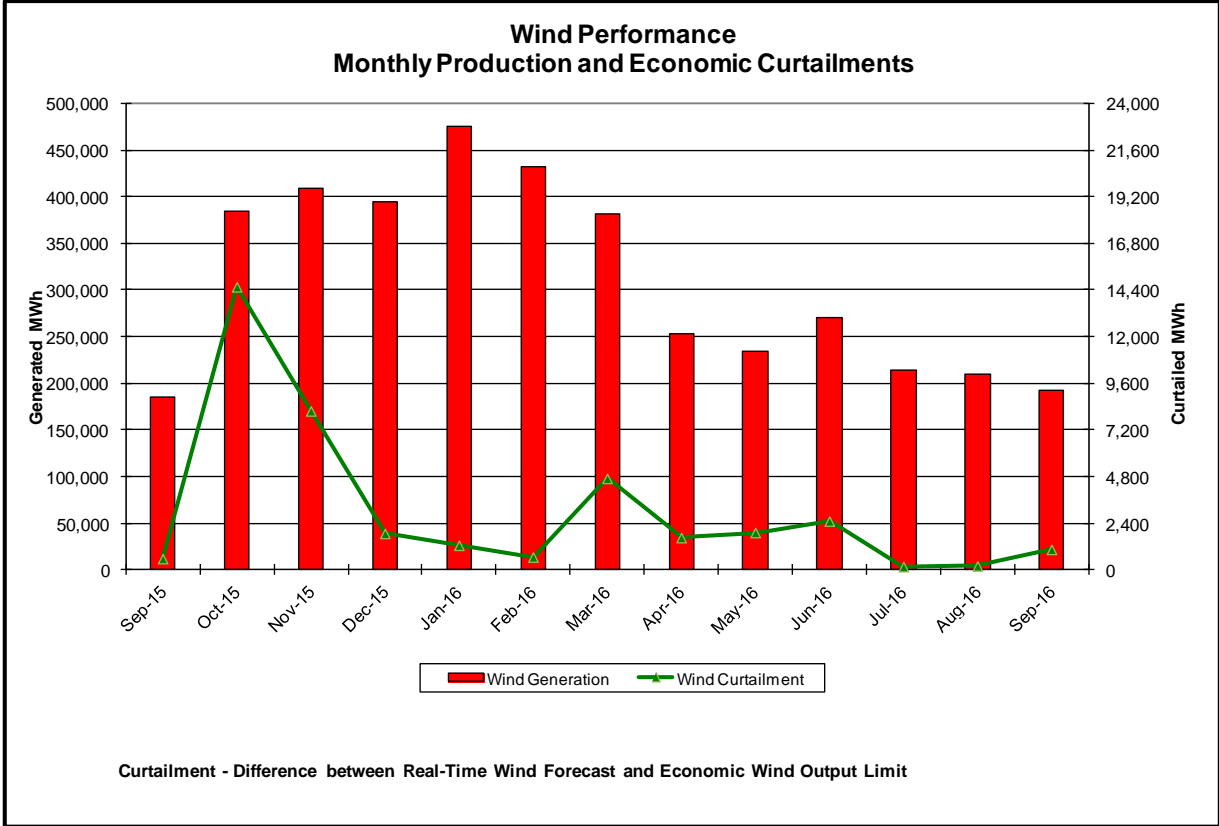


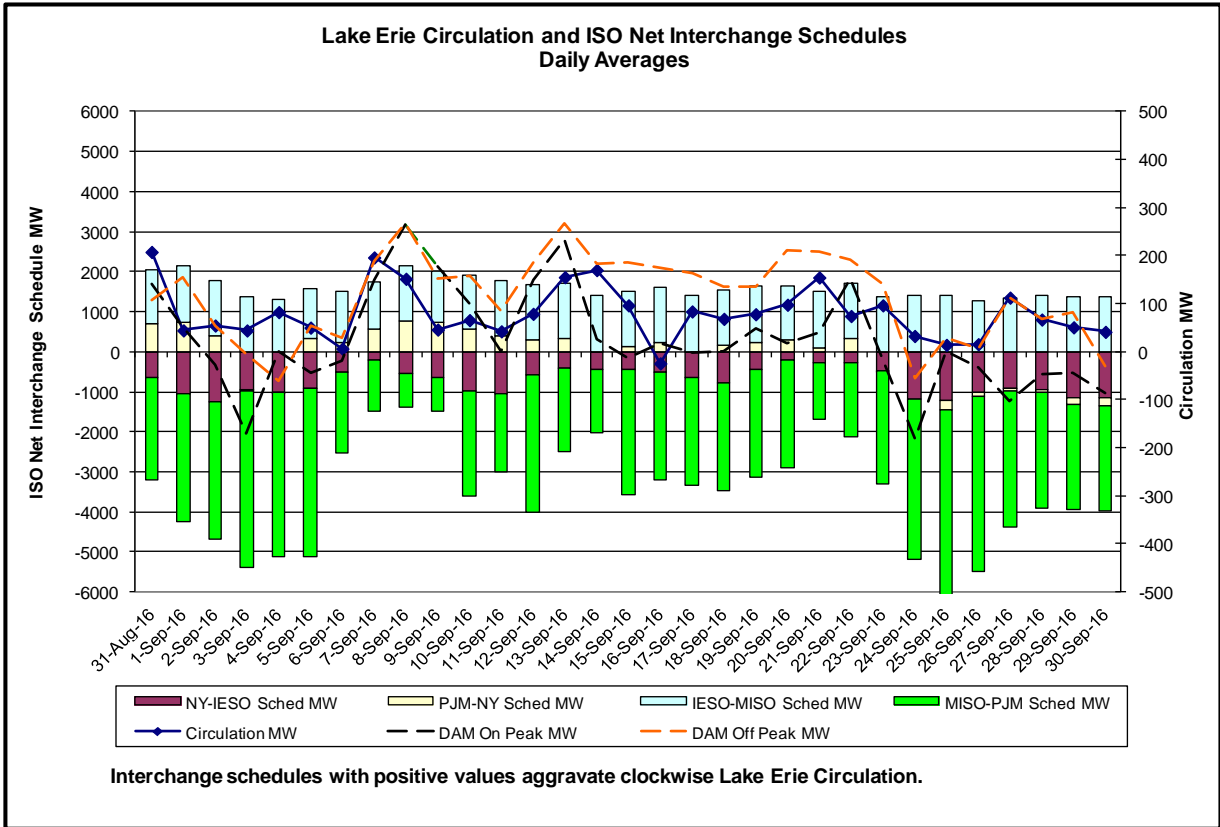
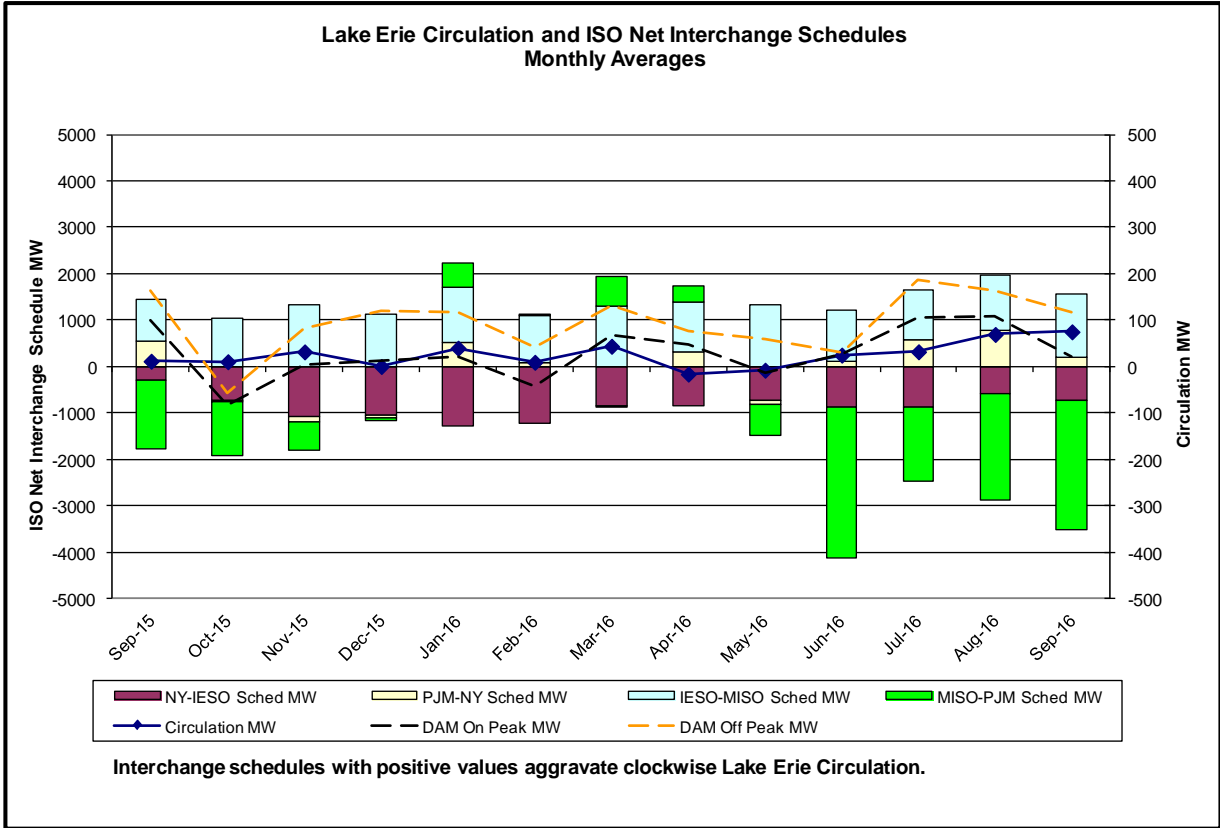




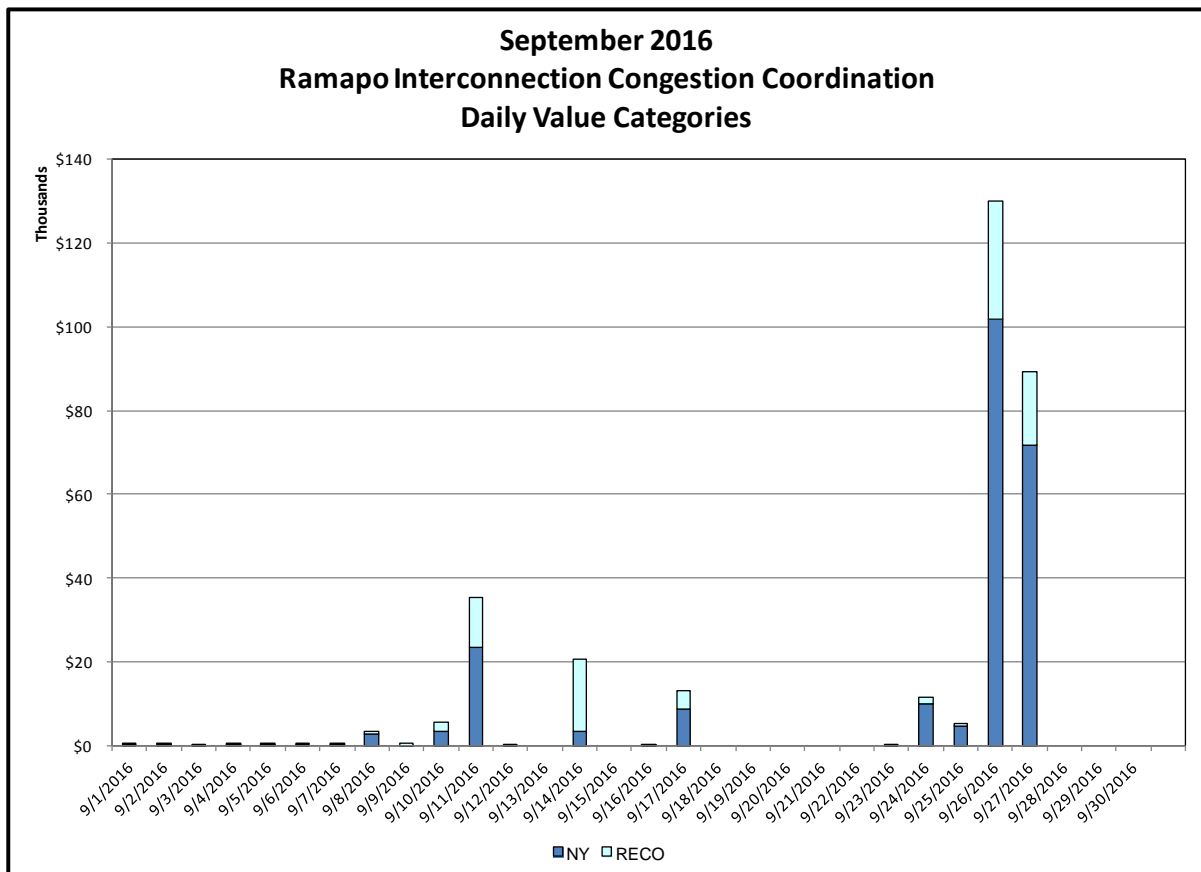
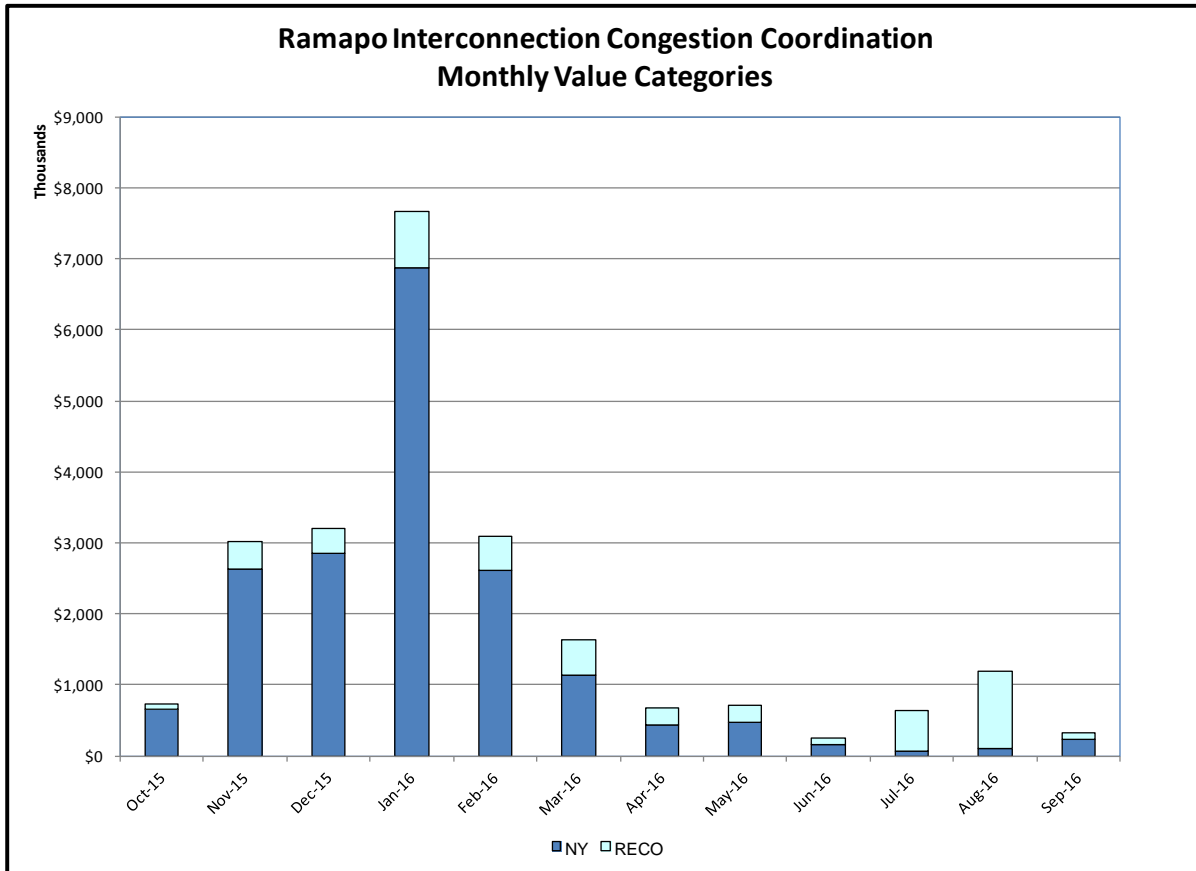






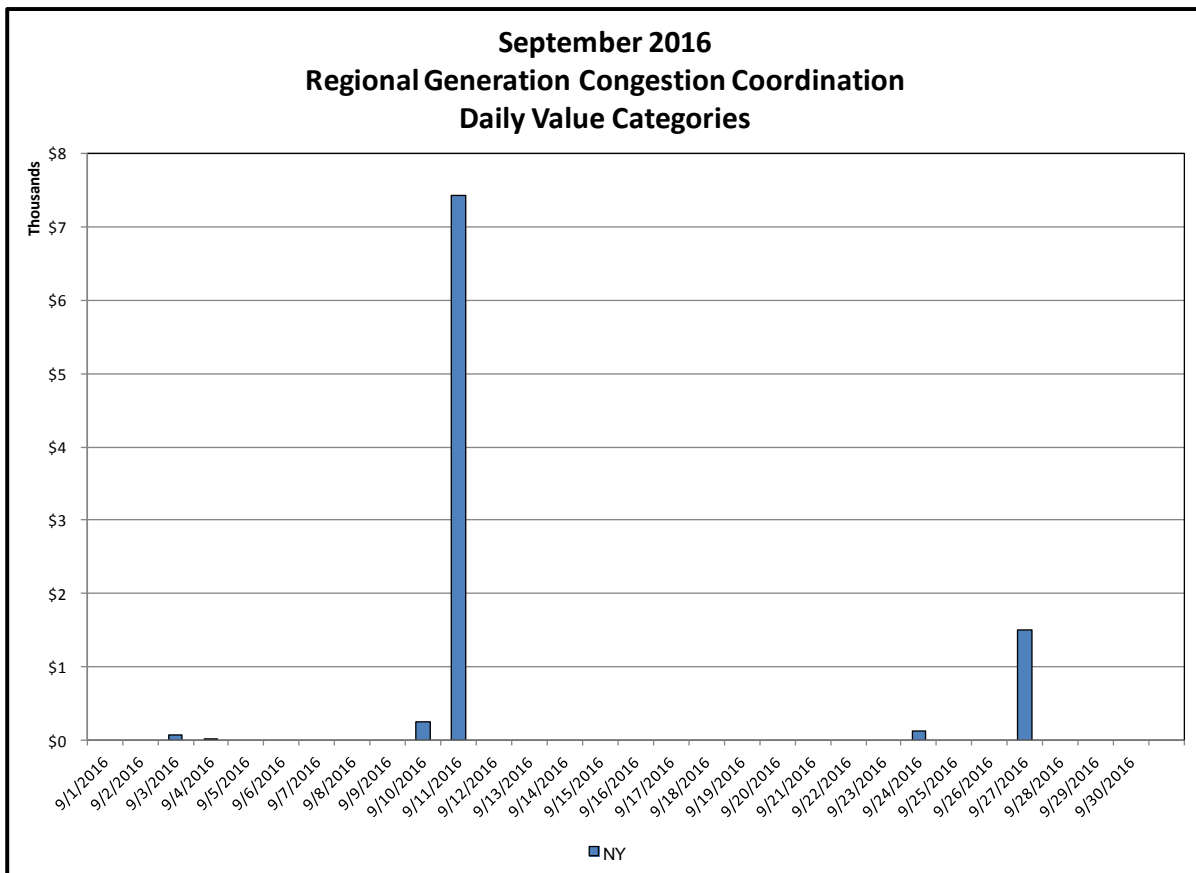
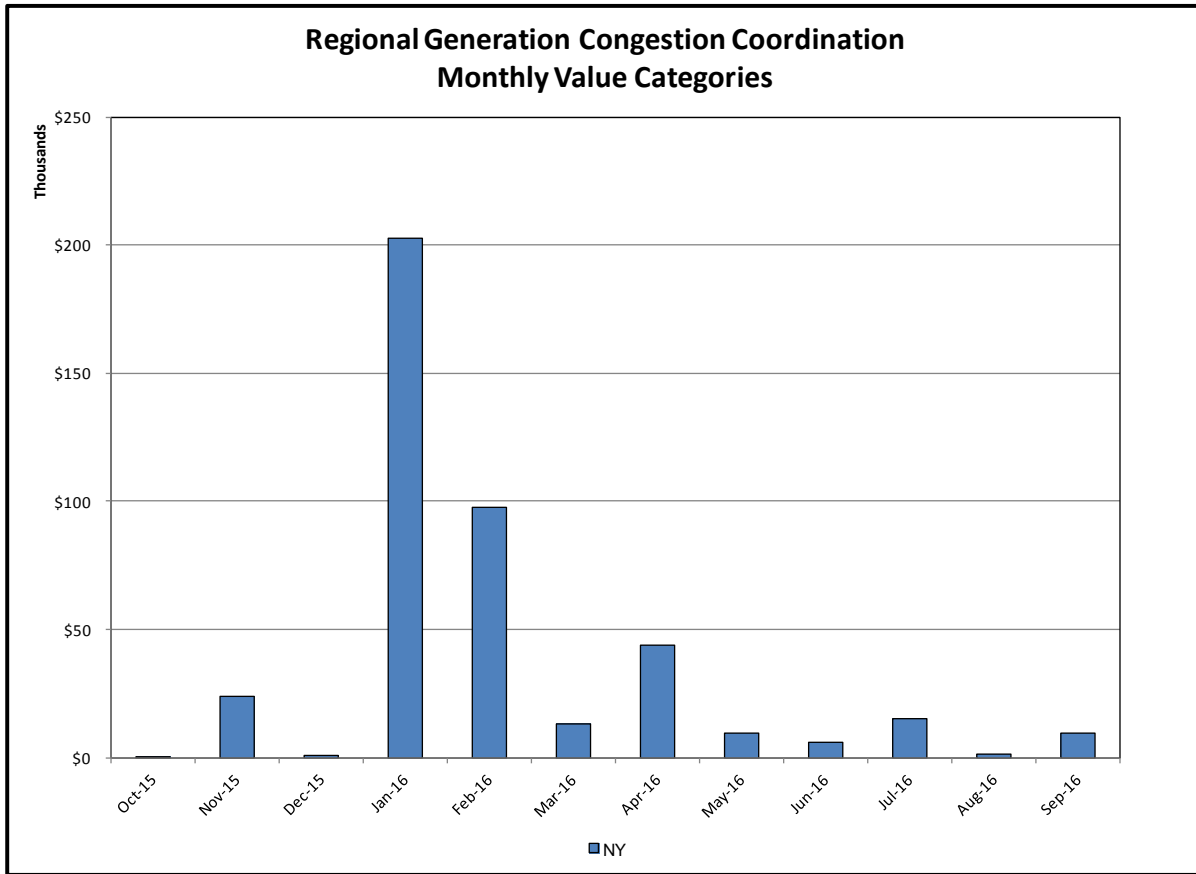


## Broader Regional Market Performance Metrics



**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.                             |





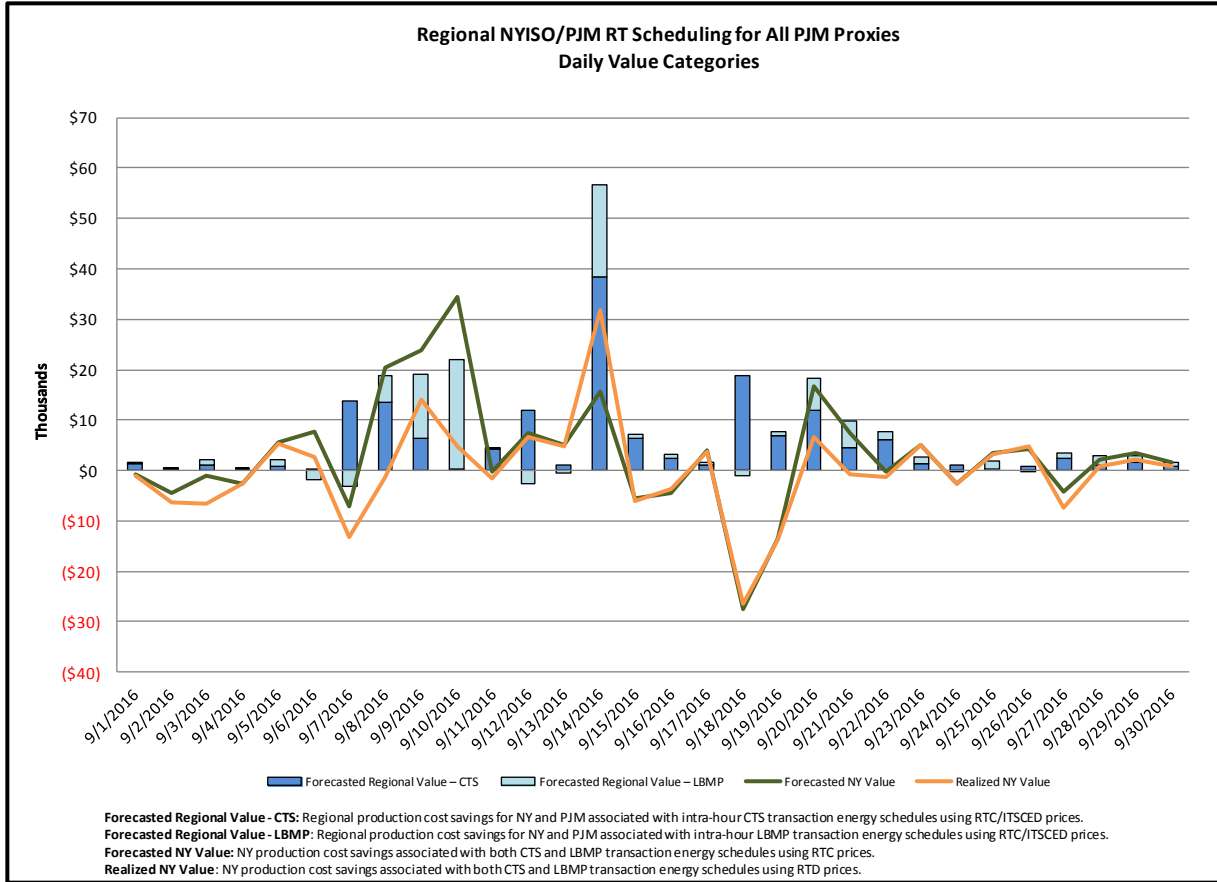
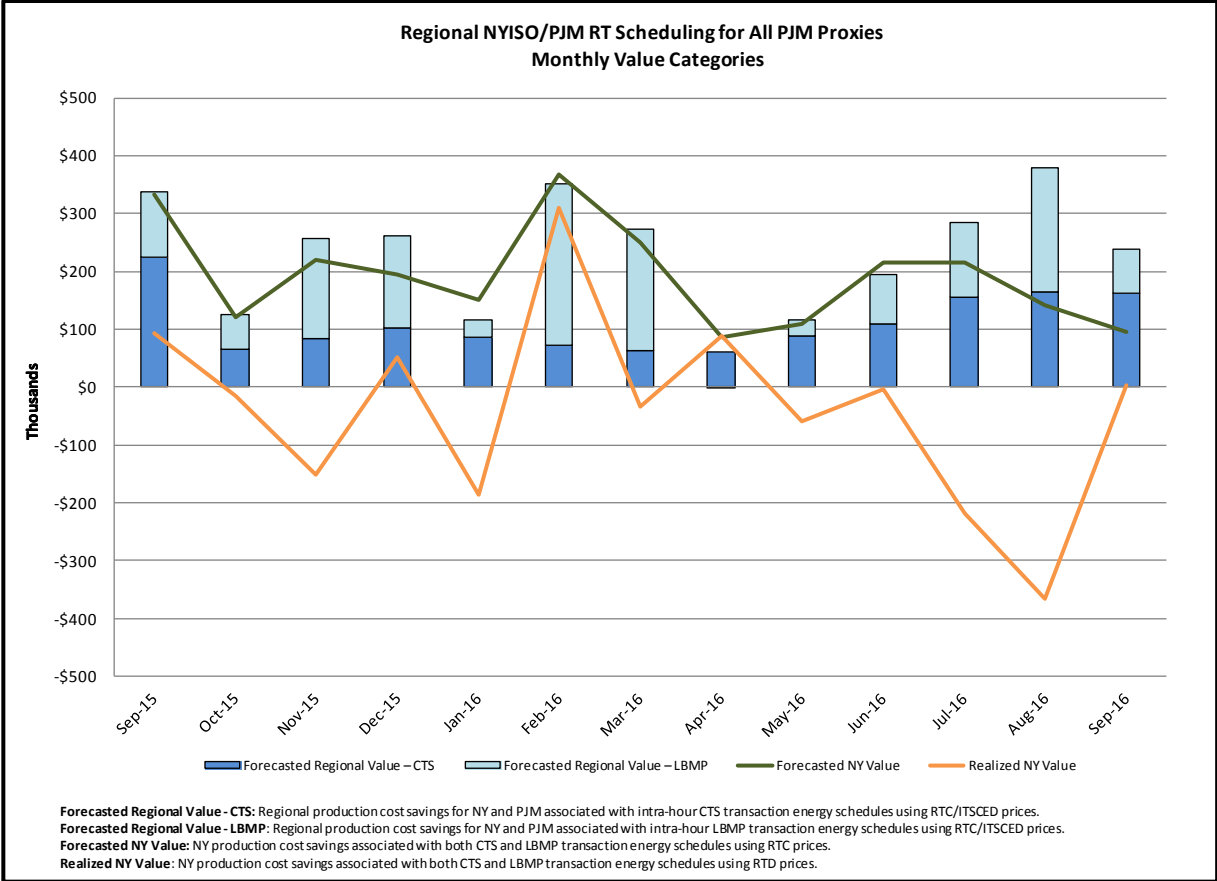
### Regional Generation Congestion Coordination

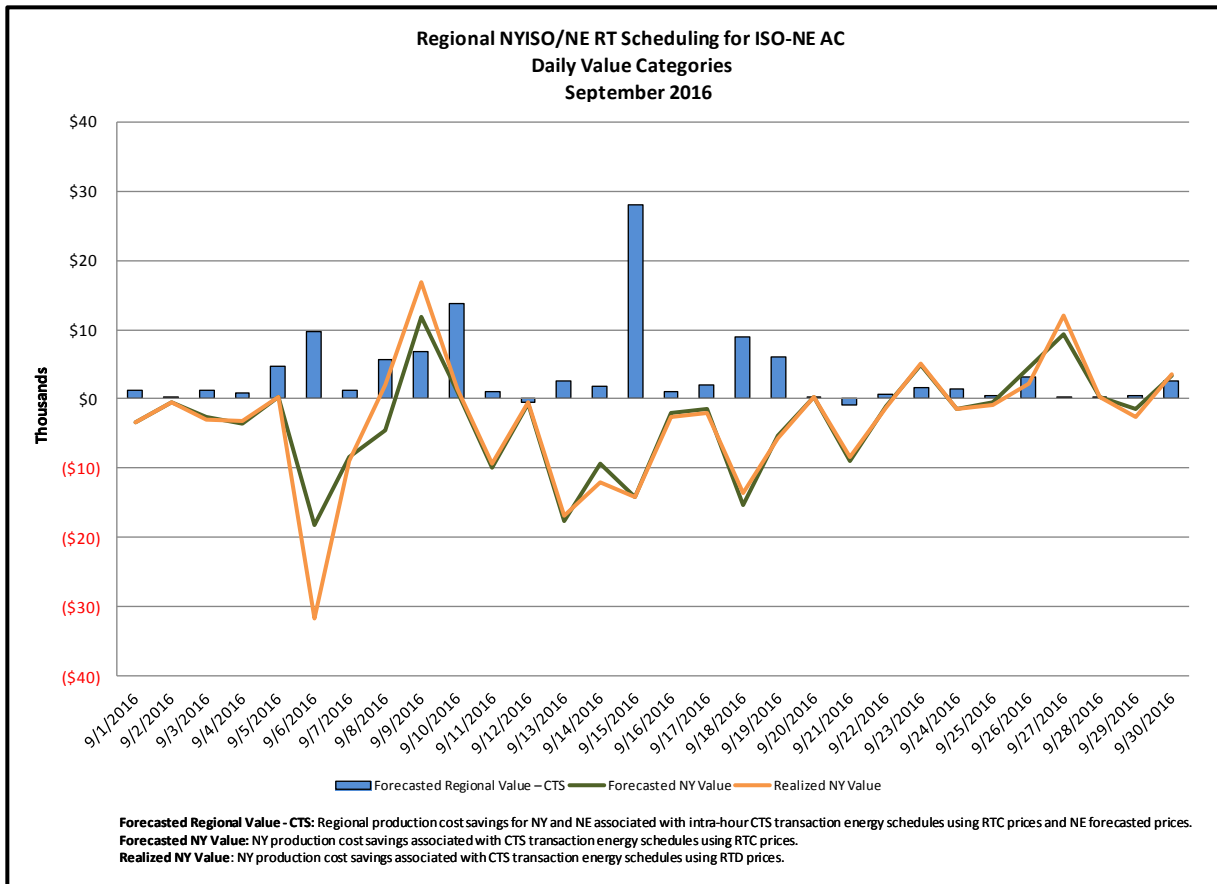
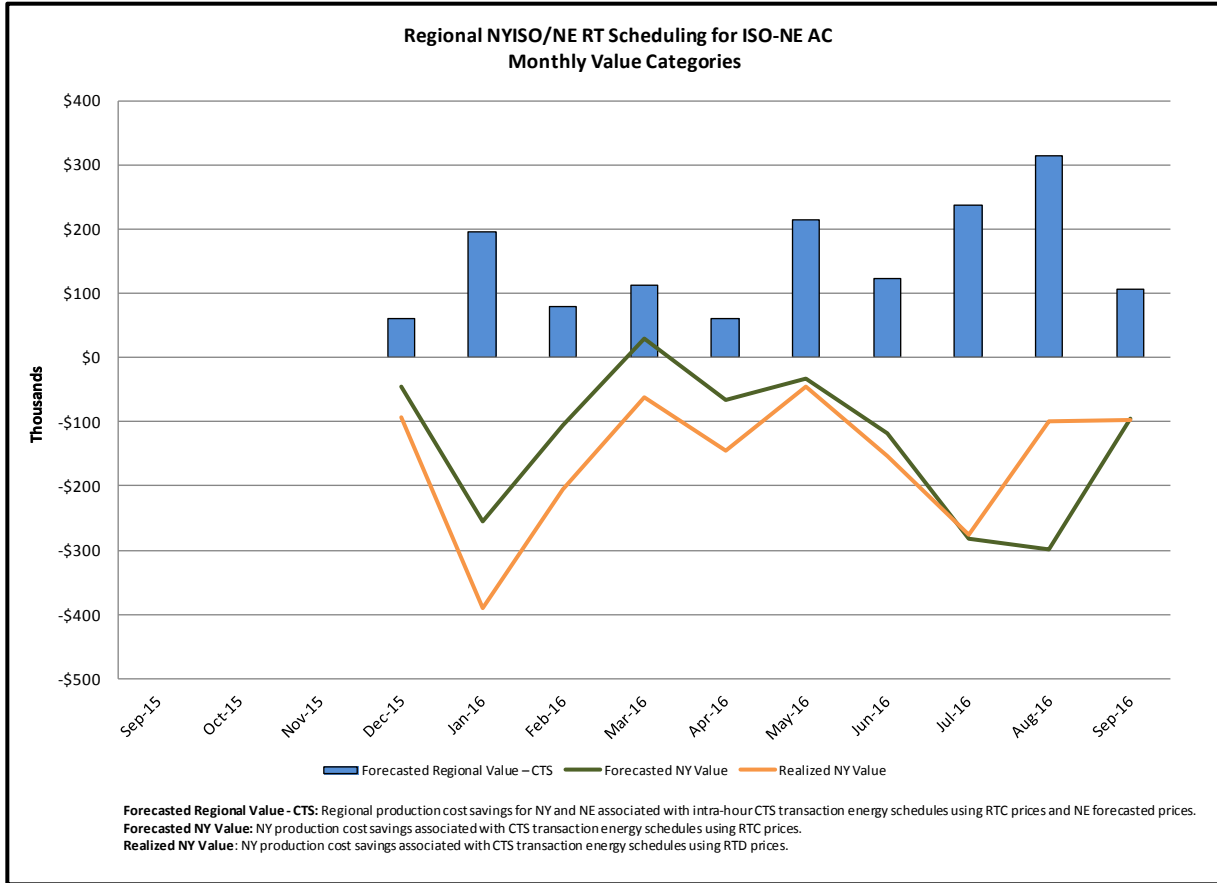
Category

NY

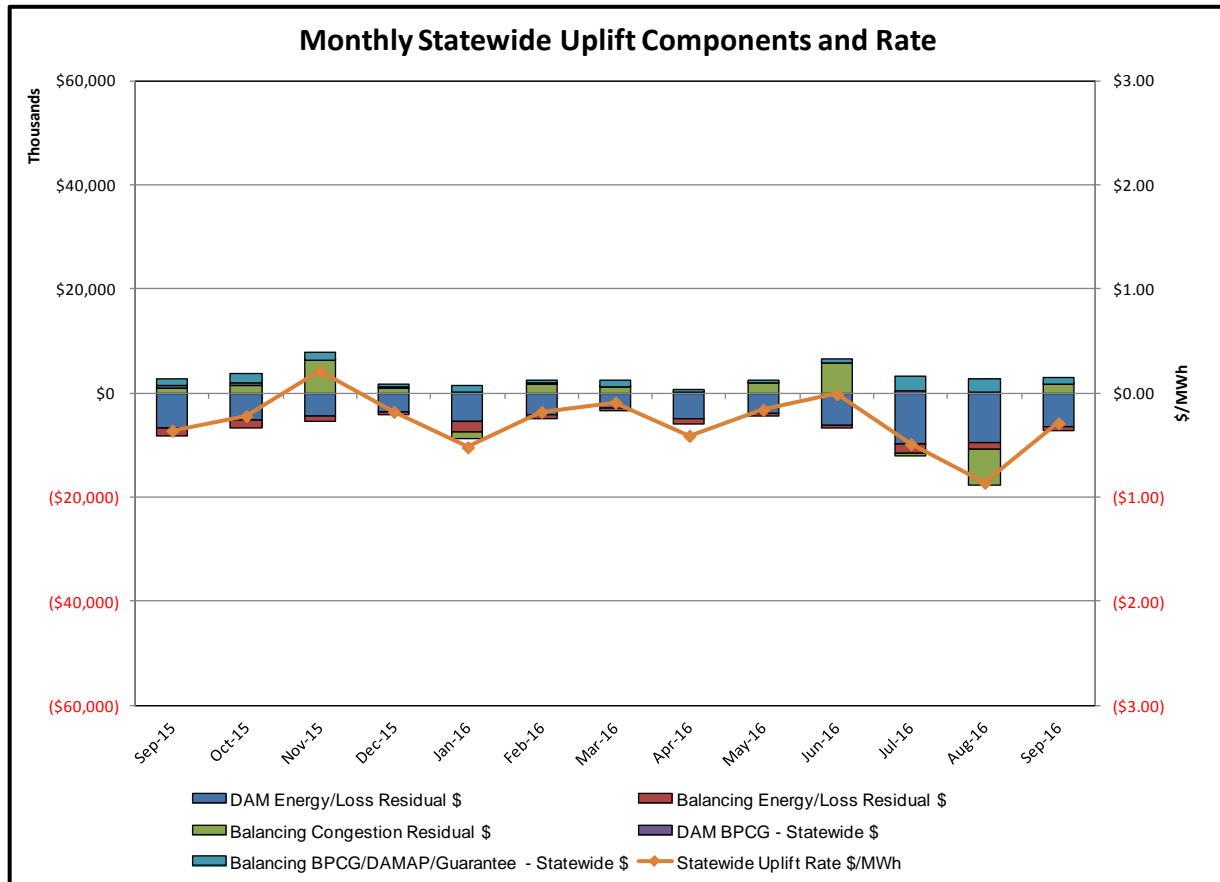
Description

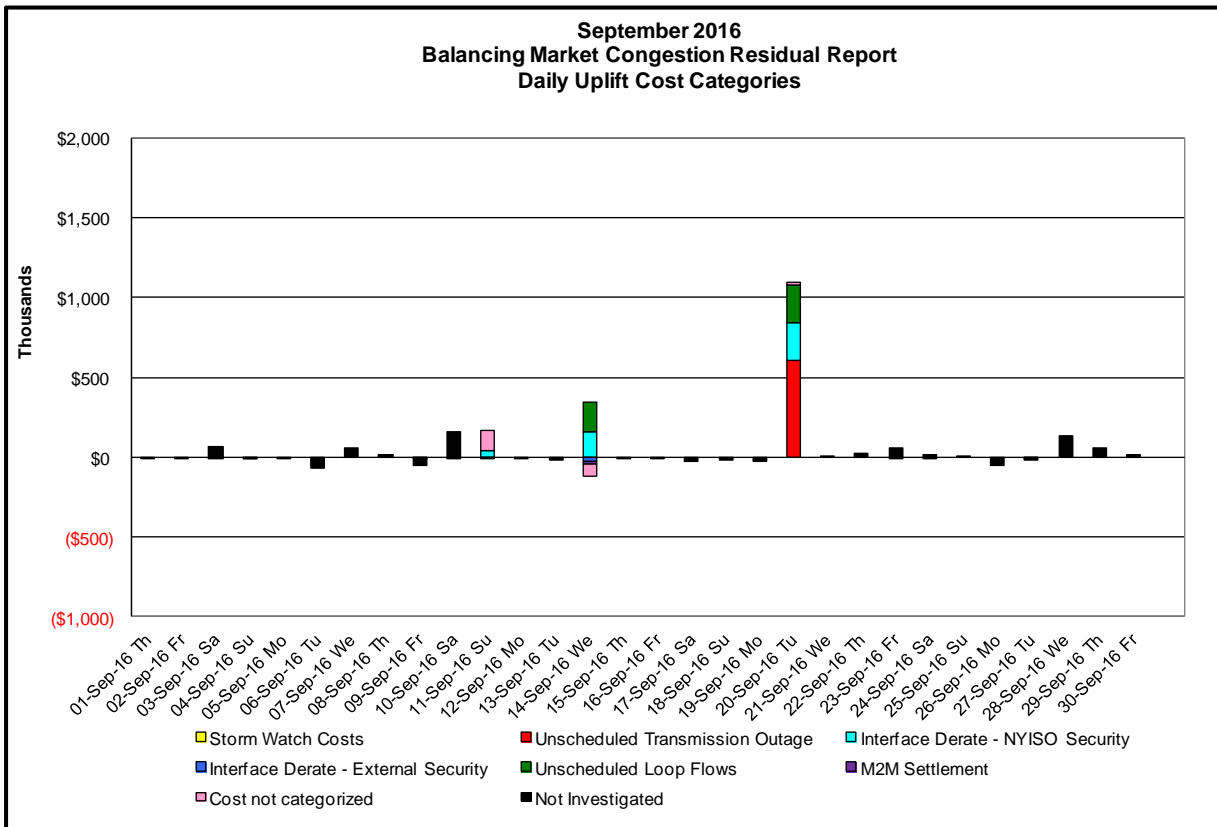
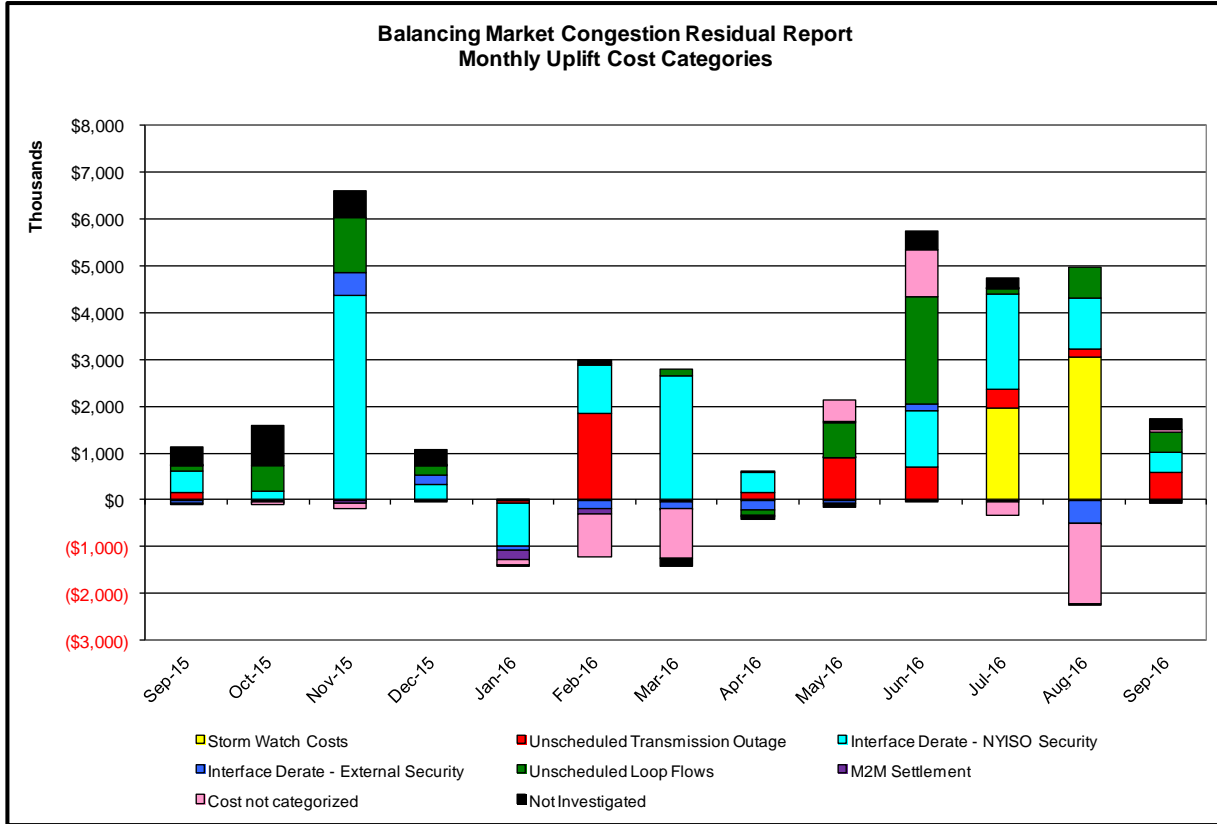
NYISO savings that result from PJM payments to NYISO when PJM's transmission use (PJM's market flow) is greater than PJM's entitlement of the NY transmission system and NYISO is incurring Western or Central NY congestion. Additionally, NYISO savings may result from the more efficient regional utilization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





## Market Performance Metrics





Day's investigated in September: 11, 14, 20

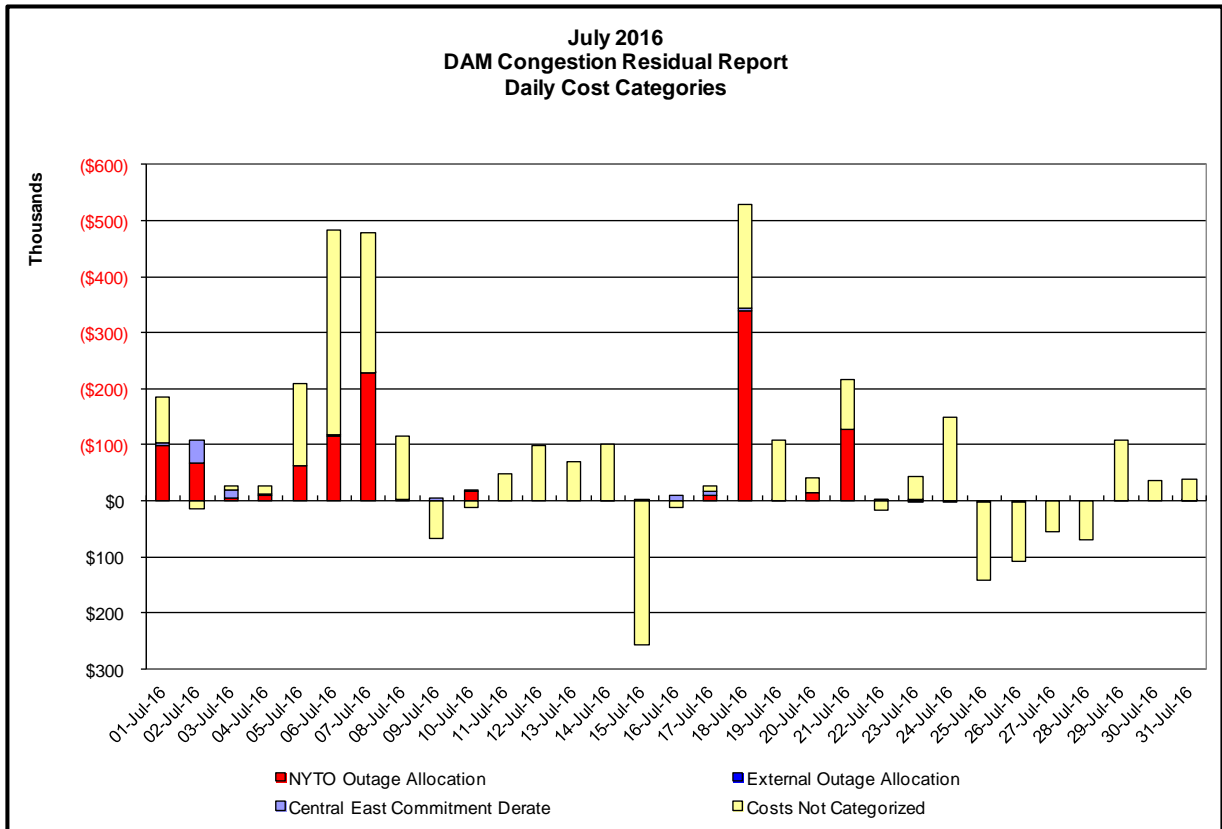
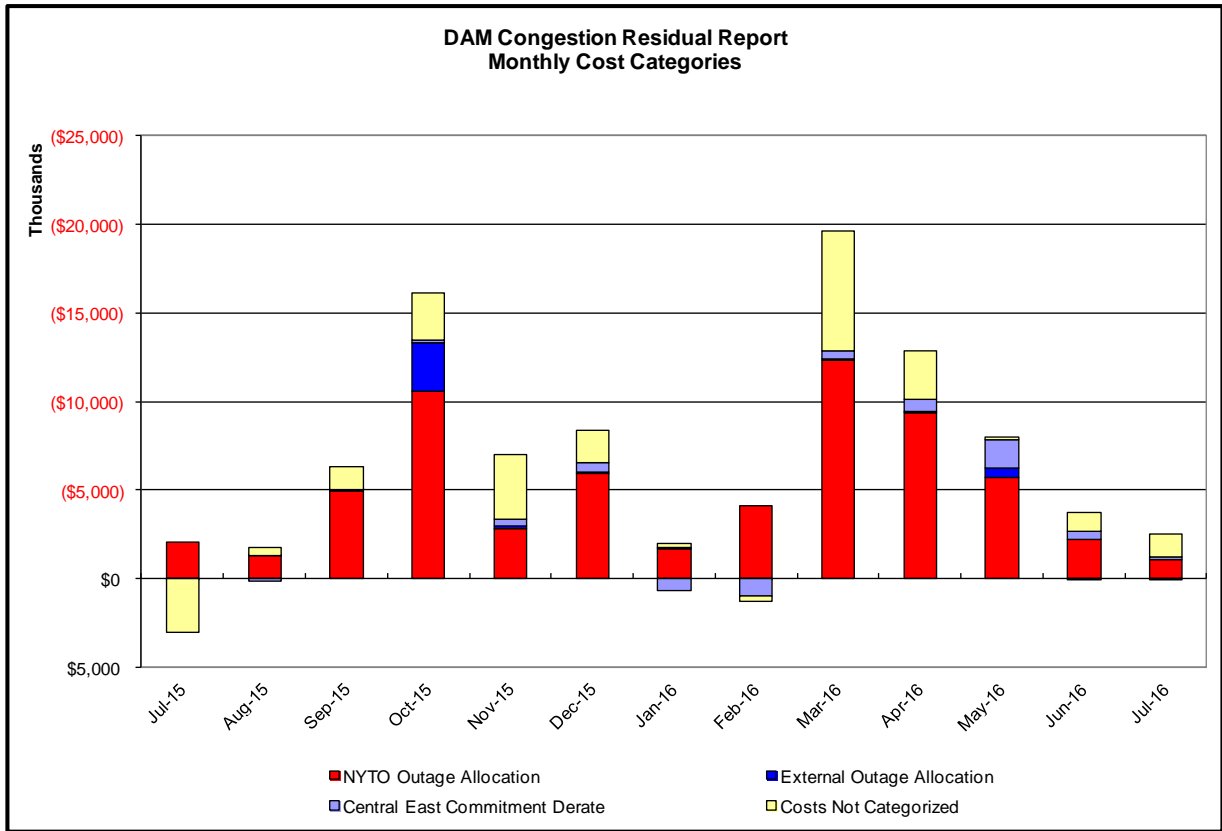
| Event | Date (yyyymmdd) | Hours          | Description  |
|-------|-----------------|----------------|--|
|       | 9/11/2016       | 11-14          | Derate Gowanus-Greenwood 138kV (#42231) for I/o TWR:GOETHALS 22 & 21                 |
|       | 9/14/2016       | 14, 16, 17     | Derate Dunwodie-Shore Road 345kV (#Y50) for I/o Neptune HVDC TIE LINE                |
|       | 9/14/2016       | 16             | Derate Packard-Sawyer 230kV (#78) for I/o Packard-Sawyer 345kV (#77)                 |
|       | 9/14/2016       | 15             | Uprate Athens-Pleasant Valley 345kV (#91) for I/o Leeds-Pleasant Valley 345kV (#92)  |
|       | 9/14/2016       | 15             | Uprate Leeds-Pleasant Valley 345kV (#92) for I/o Athens-Pleasant Valley 345kV (#91)  |
|       | 9/14/2016       | 14, 15         | NYCA DNI Ramp Limit  |
|       | 9/14/2016       | 15             | PJM_AC DNI Ramp Limit  |
|       | 9/14/2016       | 15             | NE_AC DNI Ramp Limit   |
|       | 9/14/2016       | 17             | NE_NNC1385-NY Scheduling Limit   |
|       | 9/14/2016       | 15             | NE_AC-NY Scheduling Limit  |
|       | 9/14/2016       | 14, 16         | Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Packard-Sawyer 230kV (#78)          |
|       | 9/14/2016       | 14, 16         | Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Niagara-Packard 230kV (#62)         |
|       | 9/20/2016       | 16, 17         | Forced outage Moses-Adirondack 230kV (#MA2)  |
|       | 9/20/2016       | 15-19          | Extended outage Sprainbrook-East Garden City 345kV (#Y49)                            |
|       | 9/20/2016       | 13-14          | Forced outage Elm Street-Seneca-Gardenville 230kV (#71)                              |
|       | 9/20/2016       | 11, 13, 14     | Derate Moses-Adirondack 230kV (#MA1) for I/o SIN:MSU1&7040& HQ GN&LD PROXY           |
|       | 9/20/2016       | 11, 13, 14, 16 | Derate Packard-Sawyer 230kV (#78) for I/o Packard-Sawyer 345kV (#77)                 |
|       | 9/20/2016       | 14             | NYCA DNI Ramp Limit  |
|       | 9/20/2016       | 11, 13, 14, 16 | Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Packard-Sawyer 230kV (#78)          |
|       | 9/20/2016       | 13, 14         | Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Gardenville-Stolle Road 230kV (#66) |
|       | 9/20/2016       | 13             | Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Niagara-Packard 230kV (#61)         |
|       | 9/20/2016       | 14             | Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Niagara-Packard 230kV (#62)         |

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

| Category                             | Cost Assignment | Events Types  | Event Examples                                       |
|--------------------------------------|-----------------|---|--|
| 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 Lake Erie Loop Flows exceeding +/- 125 MW |
| M2M Settlement                       | Market-wide     | Settlement result inclusive of coordinated redispatch and Ramapo flowgates                      |  |

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

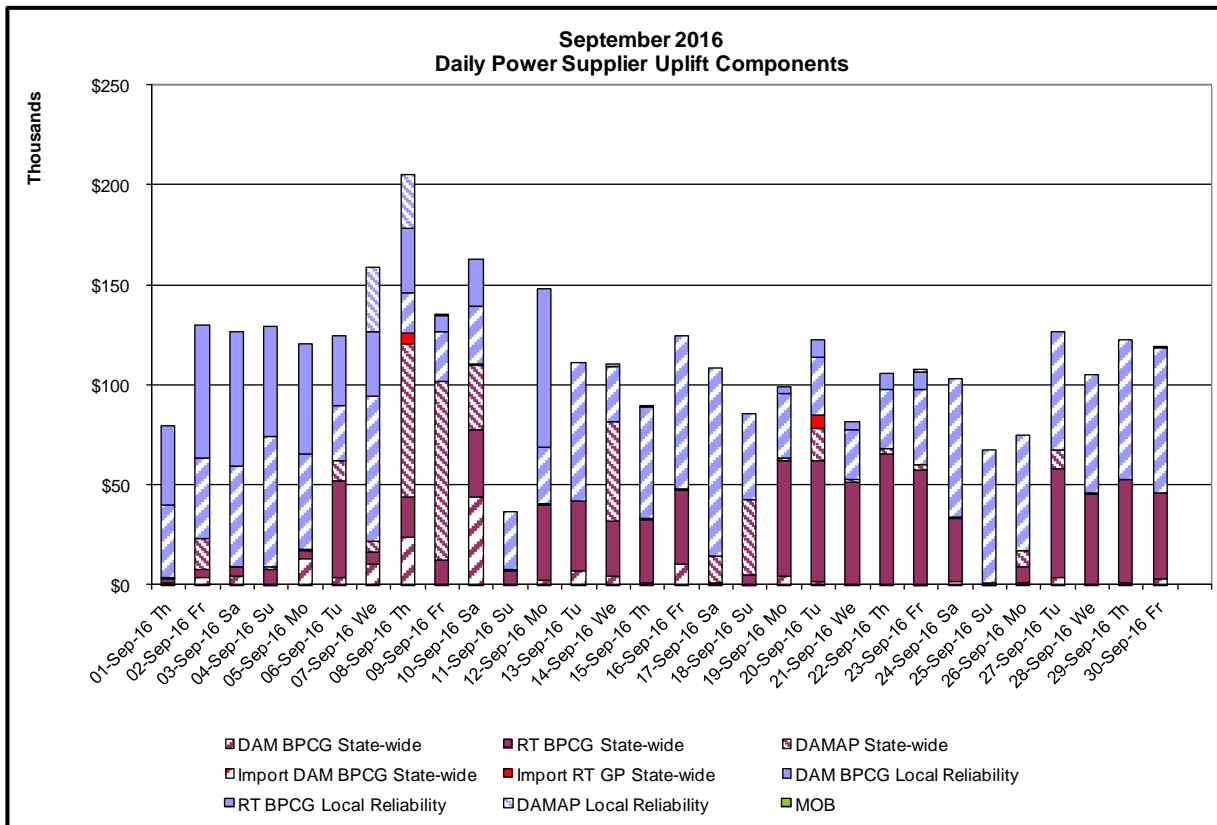
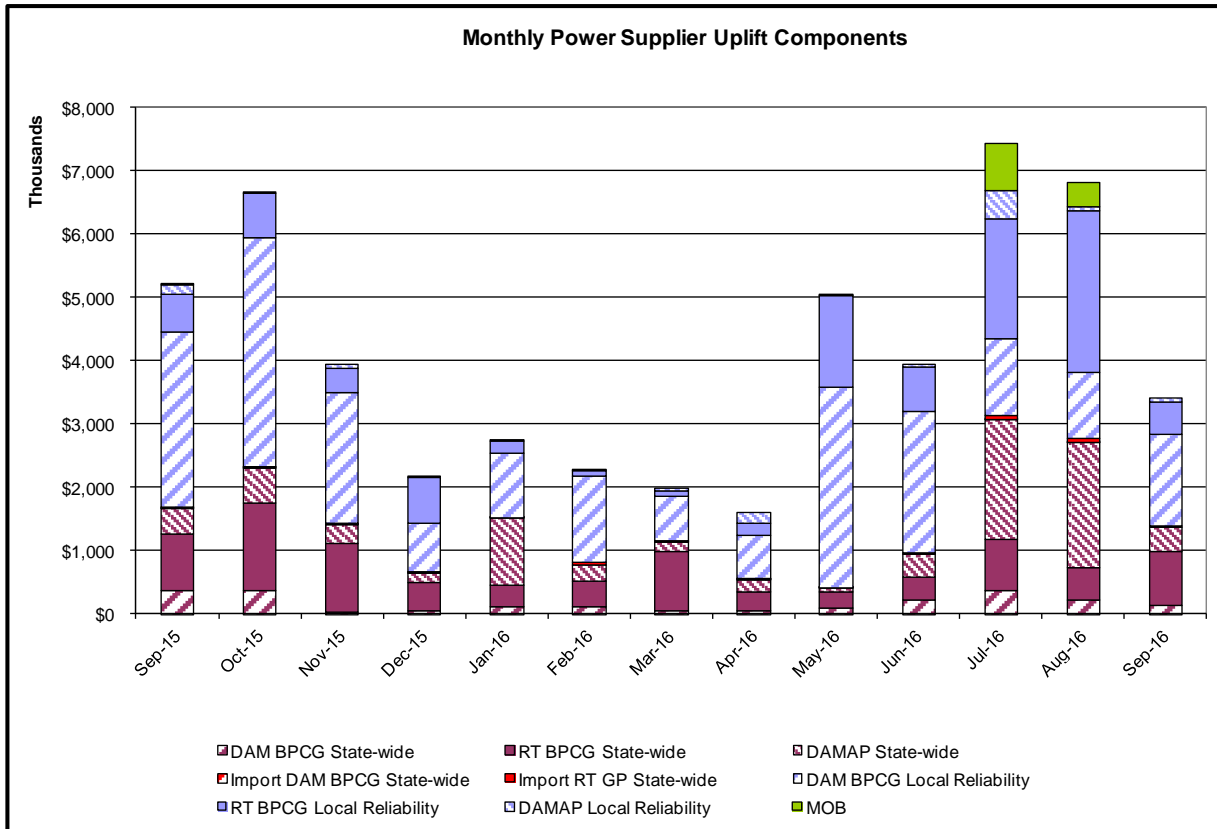
- 1) Storm Watch Costs are identified as daily total uplift costs
- 2) Days with a value of BMCR less M2M Settlement of \$100K/HR, shortfall of \$200K/Day or more, or surplus of \$100K/Day or more are investigated.
- 3) Uplift costs associated with multiple event types are apportioned equally by hour

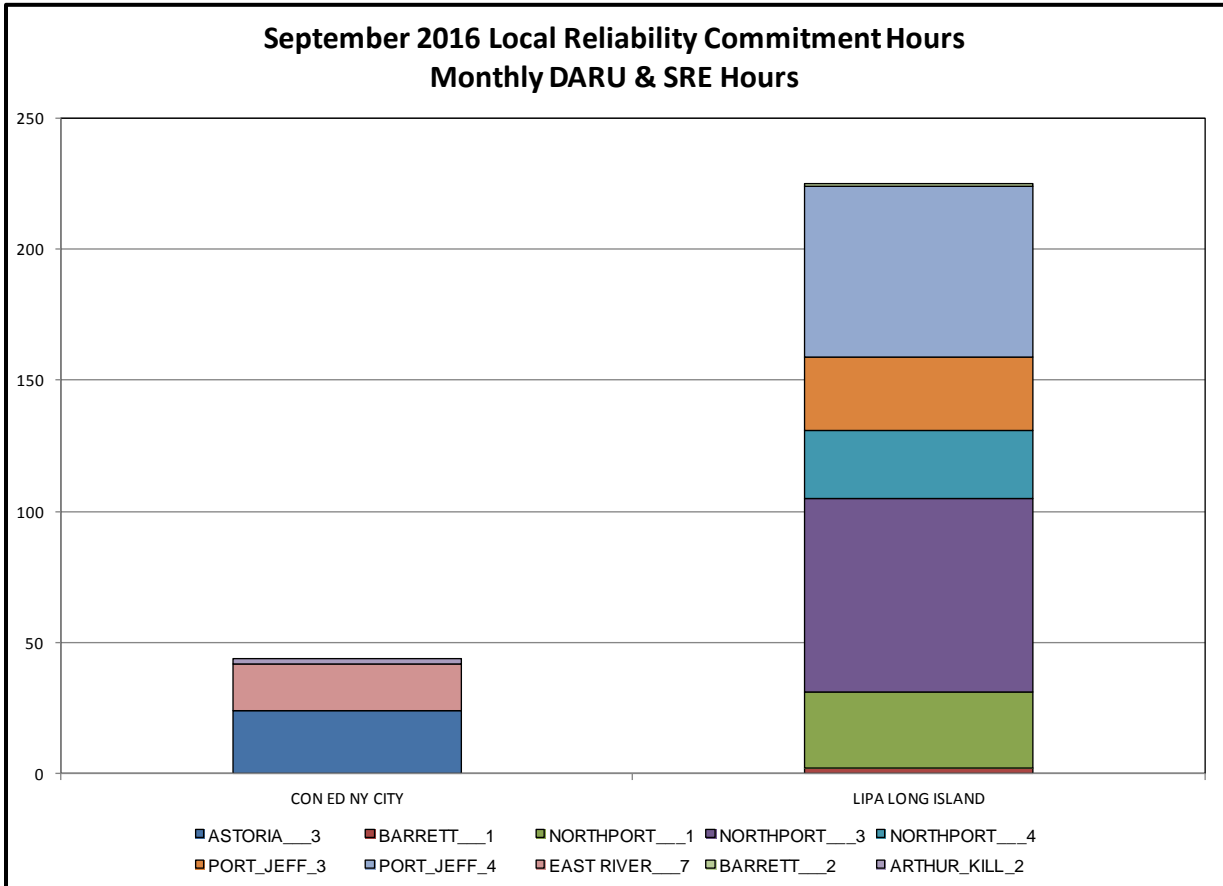
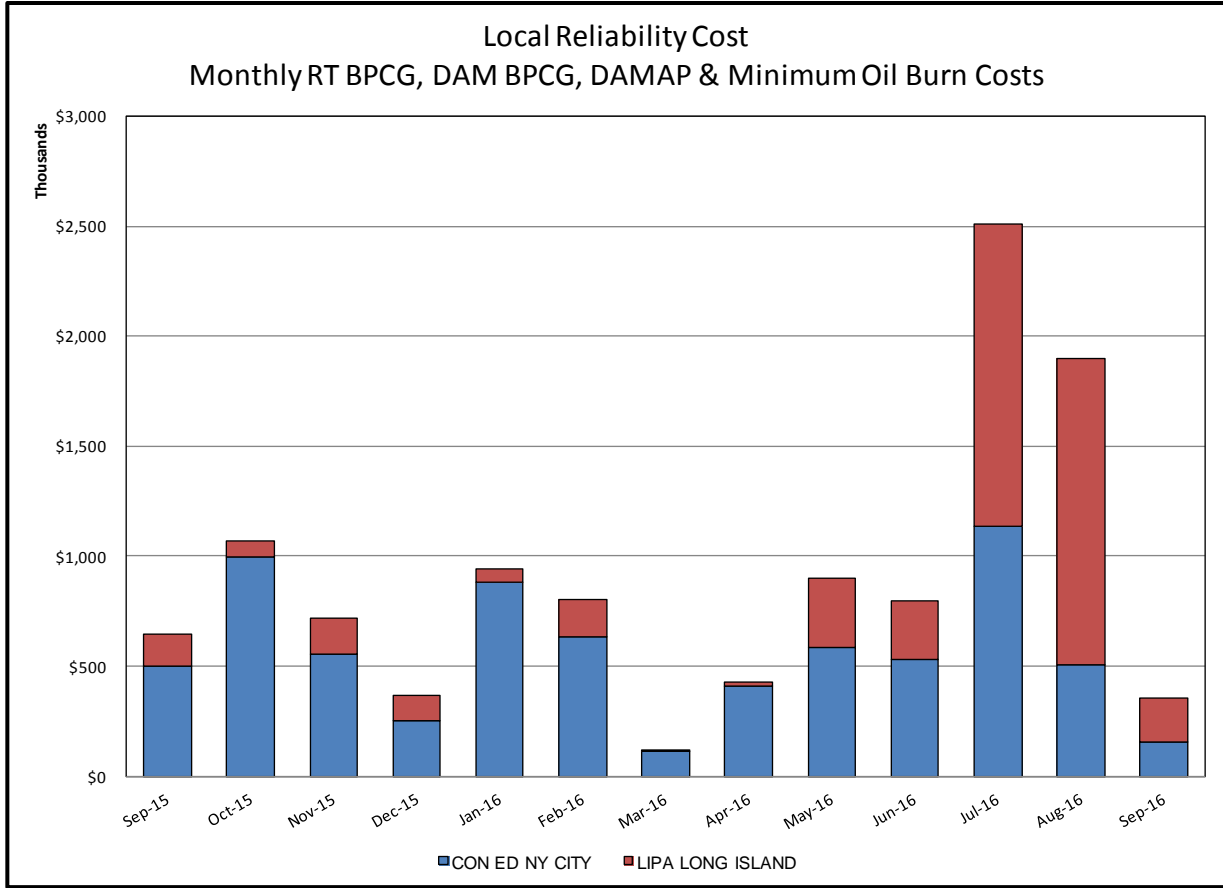


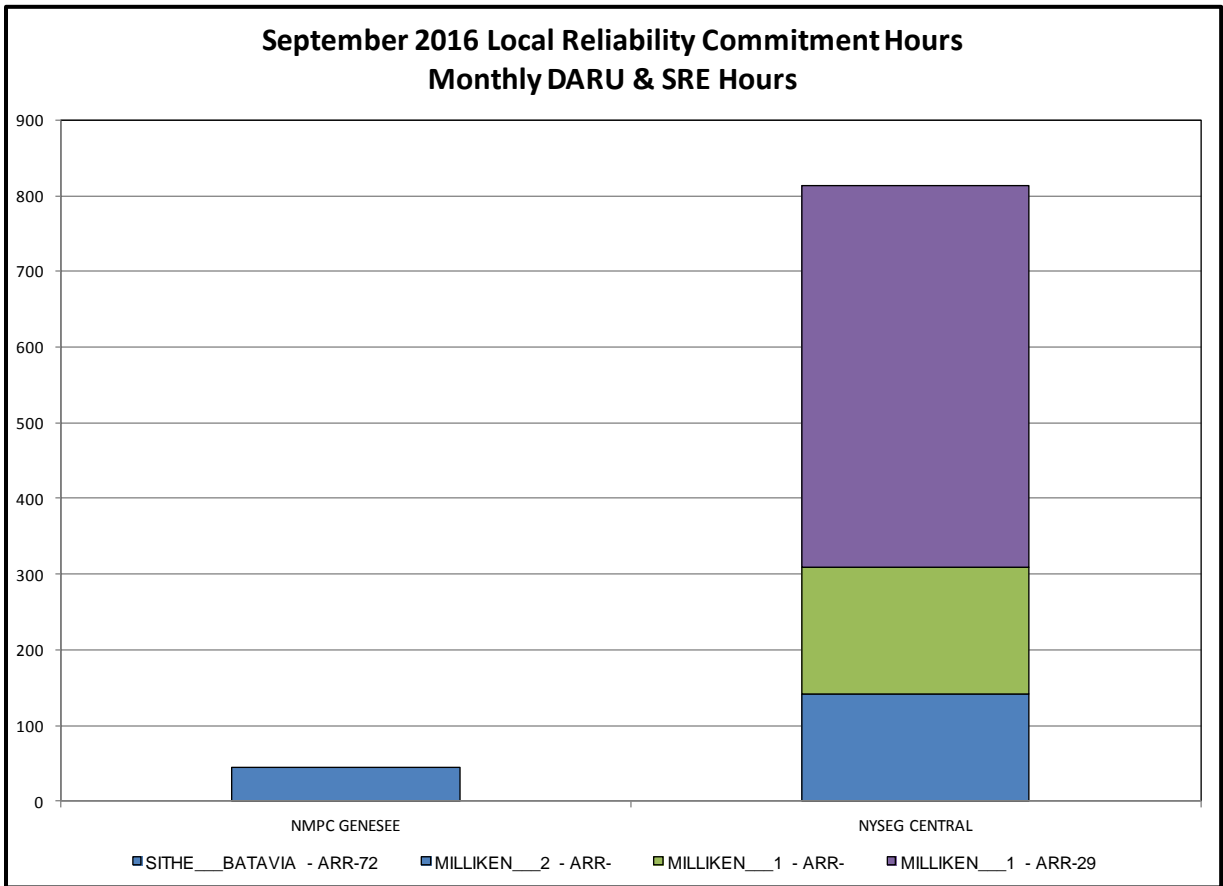
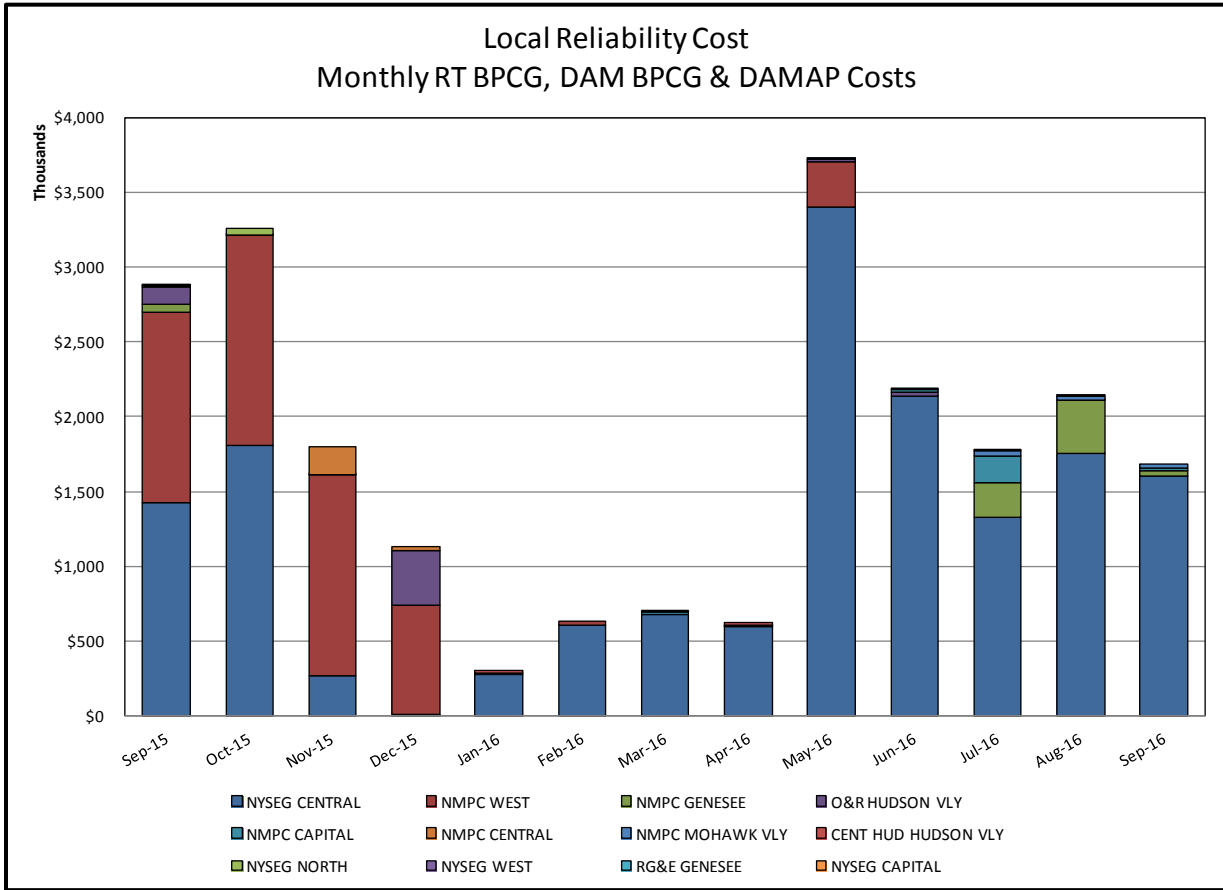
**Day-Ahead Market Congestion Residual Categories**

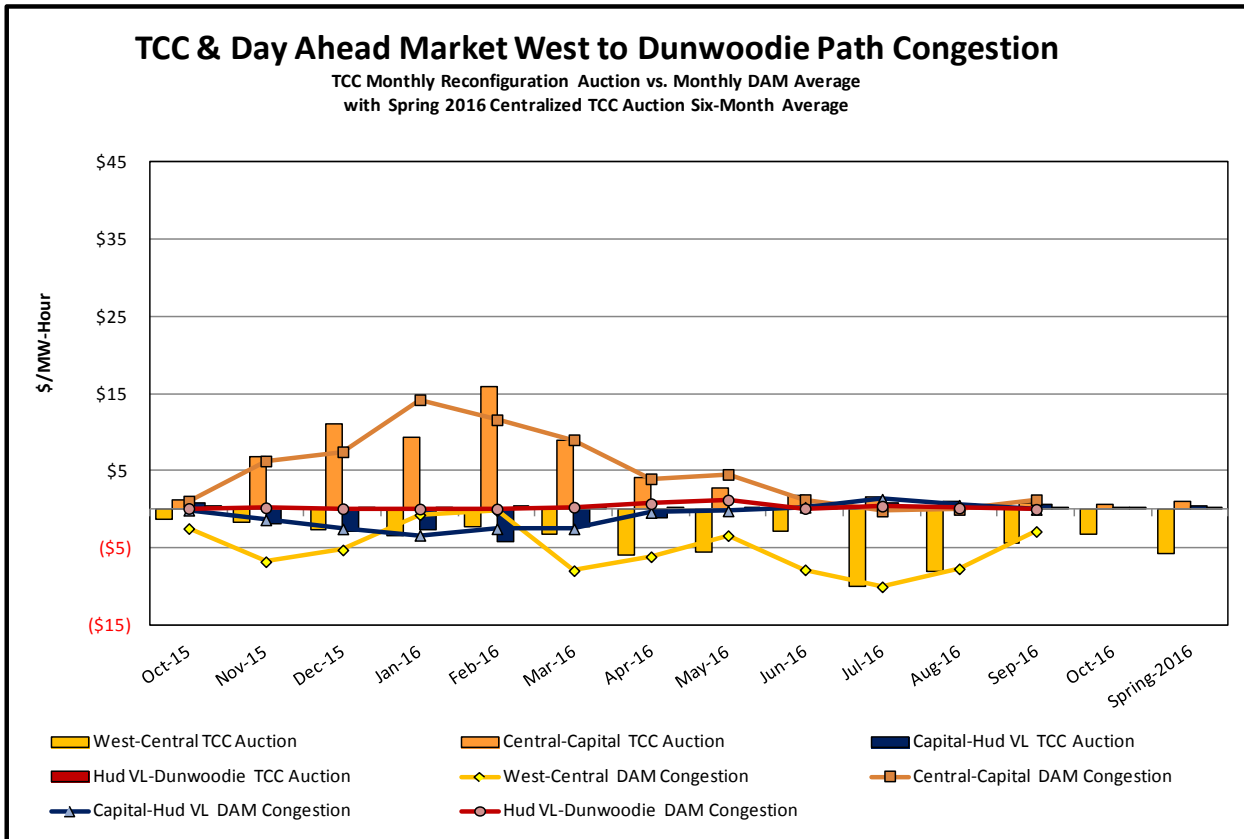
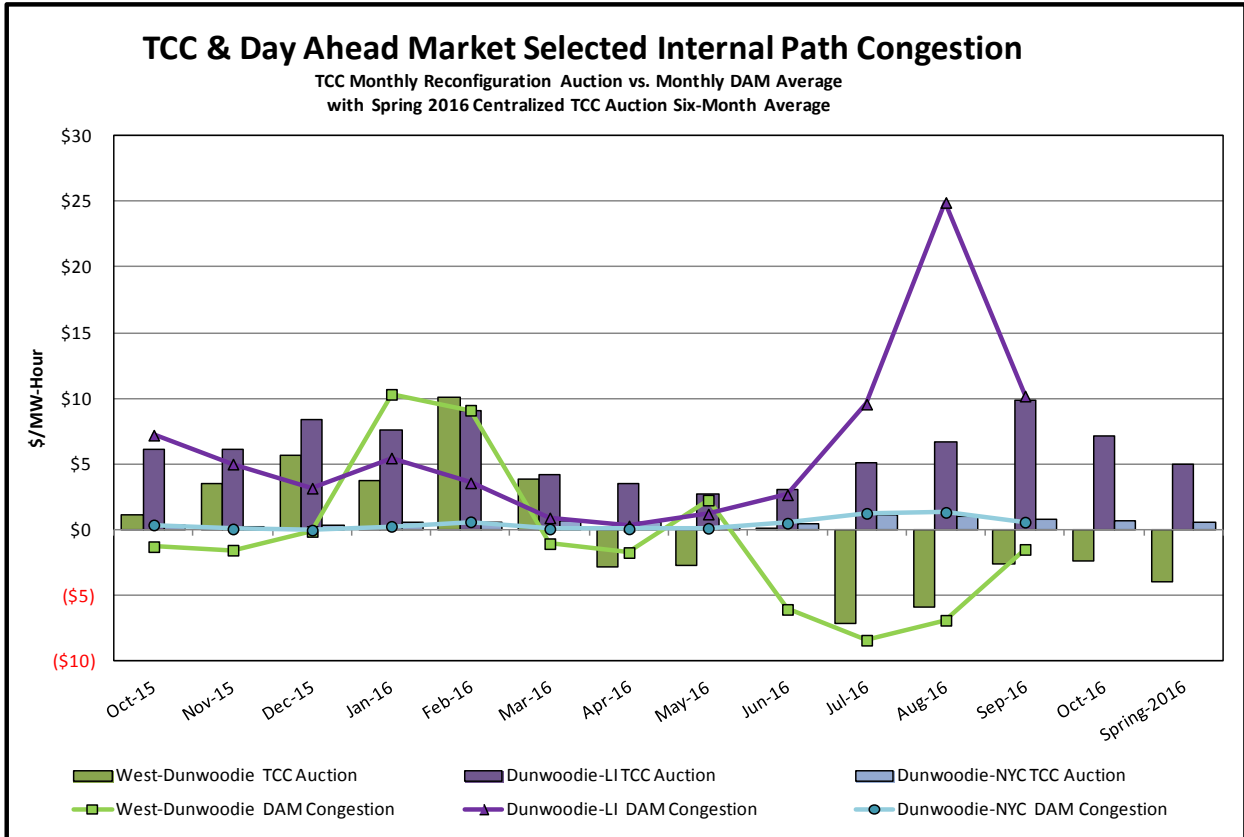
| <u>Category</u>                | <u>Cost Assignment</u>              | <u>Events Types</u>  | <u>Event Examples</u>  |
|--------------------------------|-------------------------------------|--|--|
| NYTO Outage Allocation         | Responsible TO                      | Direct allocation to NYTO's 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. |  |





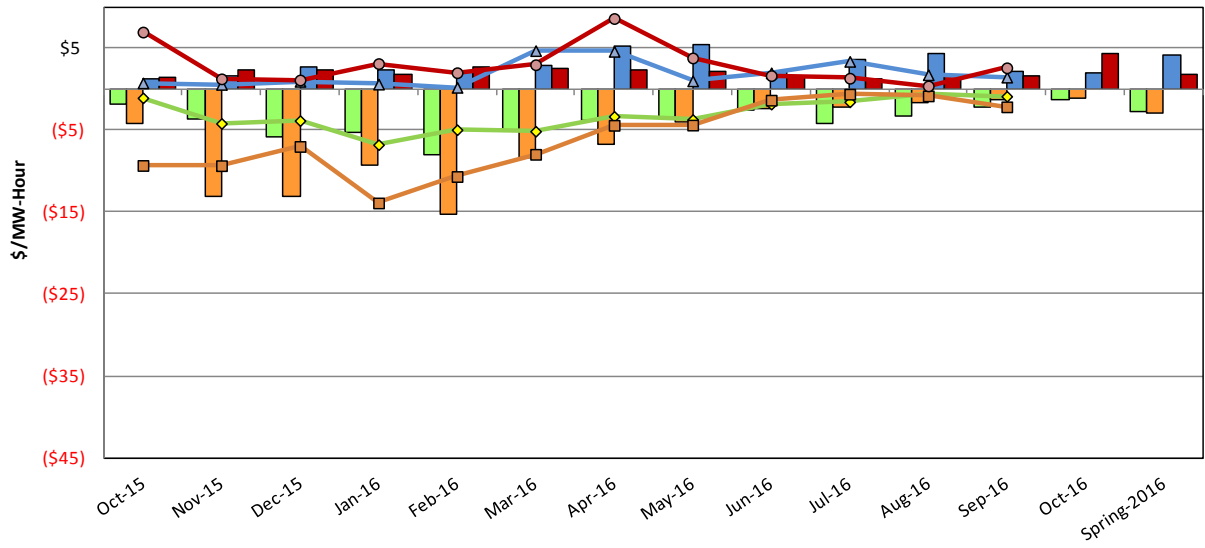




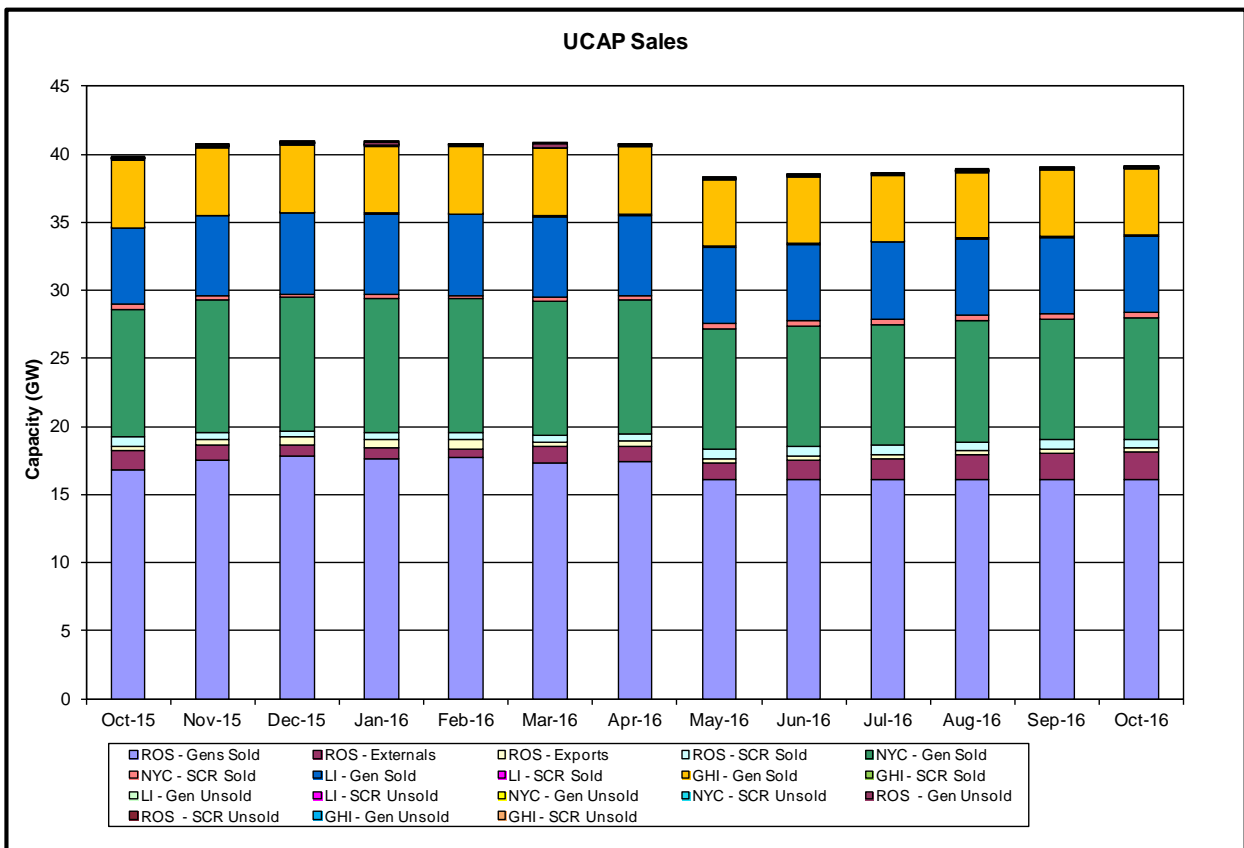
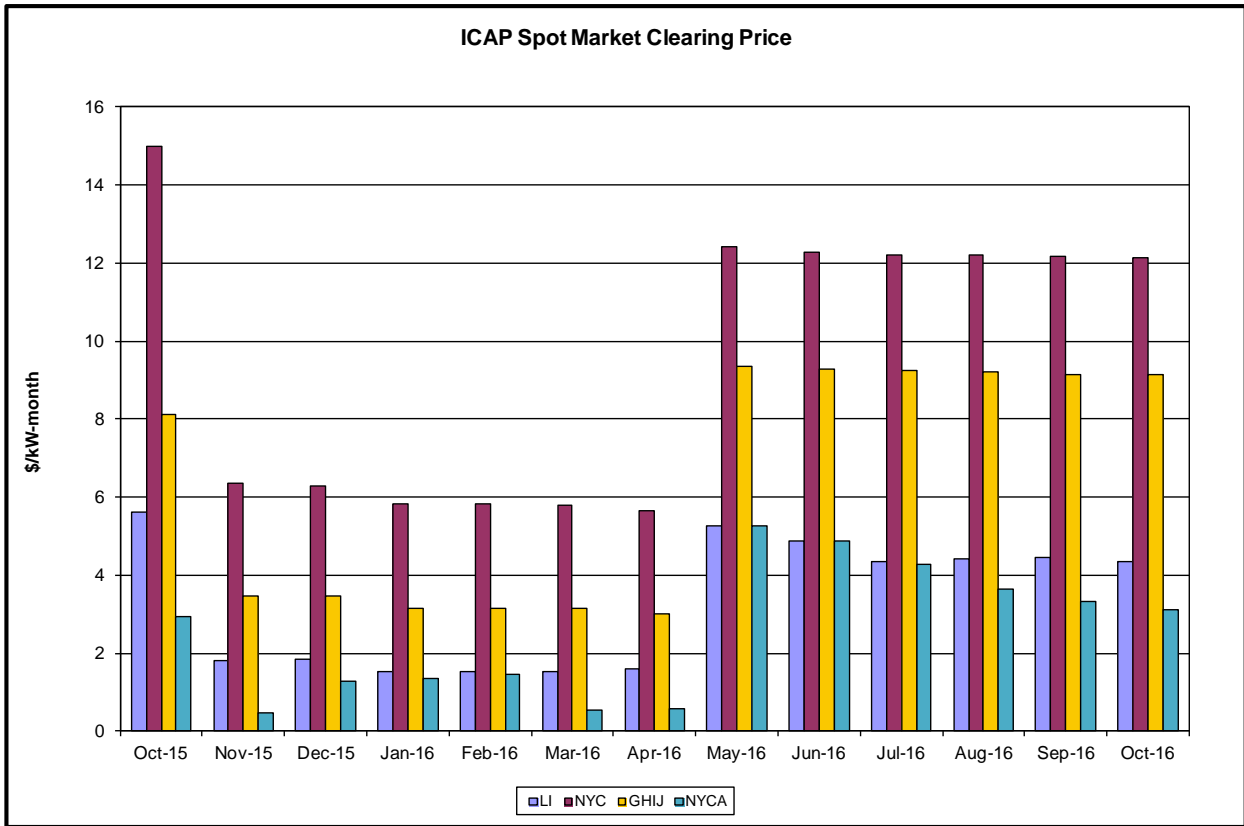


### TCC & Day Ahead Market Selected External Path Congestion

TCC Monthly Reconfiguration Auction vs. Monthly DAM Average  
with Spring 2016 Centralized TCC Auction Six-Month Average



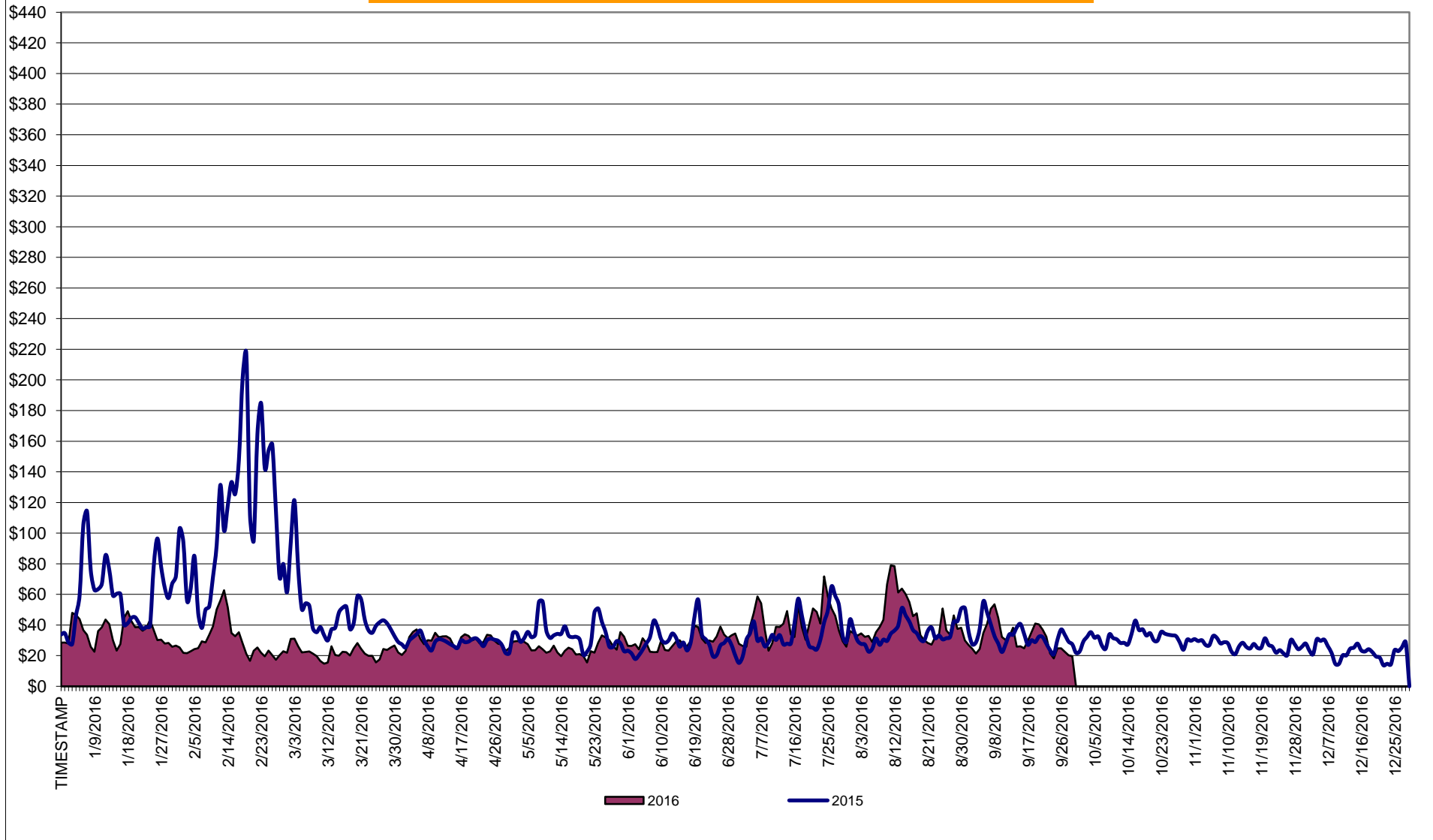
- PJM-Central TCC Auction
- NE-Central TCC Auction
- OH-Central TCC Auction
- HQ-Central TCC Auction
- ◆ PJM-Central DAM Congestion
- ◆ NE-Central DAM Congestion
- ◆ OH-Central DAM Congestion
- ◆ HQ-Central DAM Congestion



# Market Performance Highlights for September 2016

- **LBMP for September is \$30.89/MWh; lower than \$42.99/MWh in August 2016 and \$34.40/MWh in September 2015.**
  - Day Ahead and Real Time Load Weighted LBMPs are lower compared to August.
- **September 2016 average year-to-date monthly cost of \$34.31/MWh is a 29% decrease from \$48.59/MWh in September 2015.**
- **Average daily sendout is 458 GWh/day in September; lower than 548 GWh/day in August 2016 and 473 GWh/day in September 2015.**
- **Natural gas prices were lower and distillate prices were higher compared to the previous month.**
  - Natural Gas (Transco Z6 NY) was \$1.32/MMBtu, down from \$2.01/MMBtu in August.
    - Natural gas prices are down 37.2% year-over-year
  - Jet Kerosene Gulf Coast was \$9.73/MMBtu, up from \$9.66/MMBtu in August.
  - Ultra Low Sulfur No.2 Diesel NY Harbor was \$10.09/MMBtu, up from \$10.06/MMBtu in August.
    - Distillate prices are down 6.5% year-over-year
- **Uplift per MWh is higher compared to the previous month.**
  - Uplift (not including NYISO cost of operations) is (\$0.15)/MWh; higher than (\$0.63)/MWh in August.
    - Local Reliability Share is \$0.14/MWh, lower than \$0.22/MWh in August.
    - Statewide Share is (\$0.29)/MWh, higher than (\$0.86)/MWh in August.
  - TSA \$ per NYC MWh is \$0.00/MWh.
  - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are lower than August.

**Daily NYISO Average Cost/MWh (Energy & Ancillary Services)\***  
**2015 Annual Average \$44.10/MWh**  
**September 2015 YTD Average \$48.59/MWh**  
**September 2016 YTD Average \$34.31/MWh**



\* Excludes ICAP payments.



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

| <b>2016</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                            | 34.29          | 28.71           | 20.66        | 27.96        | 23.31       | 27.35       | 40.01       | 42.99         | 30.89            |                |                 |                 |
| NTAC                            | 0.59           | 0.78            | 0.62         | 1.14         | 1.10        | 0.93        | 0.78        | 0.54          | 0.55             |                |                 |                 |
| Reserve                         | 0.77           | 0.73            | 0.73         | 0.87         | 0.71        | 0.59        | 0.67        | 0.68          | 0.69             |                |                 |                 |
| Regulation                      | 0.12           | 0.12            | 0.12         | 0.12         | 0.11        | 0.12        | 0.10        | 0.10          | 0.10             |                |                 |                 |
| NYISO Cost of Operations        | 0.64           | 0.65            | 0.65         | 0.64         | 0.65        | 0.66        | 0.65        | 0.65          | 0.64             |                |                 |                 |
| FERC Fee Recovery               | 0.09           | 0.10            | 0.11         | 0.10         | 0.09        | 0.09        | 0.07        | 0.06          | 0.08             |                |                 |                 |
| Uplift                          | (0.43)         | (0.07)          | (0.03)       | (0.34)       | 0.19        | 0.20        | (0.26)      | (0.63)        | (0.15)           |                |                 |                 |
| Uplift: Local Reliability Share | 0.09           | 0.11            | 0.06         | 0.07         | 0.35        | 0.21        | 0.23        | 0.22          | 0.14             |                |                 |                 |
| Uplift: Statewide Share         | (0.52)         | (0.18)          | (0.09)       | (0.41)       | (0.16)      | (0.01)      | (0.49)      | (0.86)        | (0.29)           |                |                 |                 |
| Voltage Support and Black Start | <u>0.35</u>    | <u>0.36</u>     | <u>0.36</u>  | <u>0.35</u>  | <u>0.36</u> | <u>0.36</u> | <u>0.36</u> | <u>0.36</u>   | <u>0.36</u>      |                |                 |                 |
| <b>Avg Monthly Cost</b>         | 36.42          | 31.37           | 23.23        | 30.84        | 26.52       | 30.29       | 42.40       | 44.75         | 33.16            |                |                 |                 |
| Avg YTD Cost                    | 36.42          | 34.02           | 30.68        | 30.71        | 29.85       | 29.93       | 32.32       | 34.43         | 34.31            |                |                 |                 |
| TSA \$ per NYC MWh              | 0.00           | 0.00            | 0.05         | 0.00         | 0.00        | 0.02        | 0.84        | 1.64          | 0.00             |                |                 |                 |
| <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                            | 59.61          | 114.37          | 52.09        | 28.36        | 32.98       | 28.20       | 34.77       | 33.09         | 34.40            | 30.05          | 24.83           | 20.91           |
| NTAC                            | 0.32           | 0.35            | 0.41         | 0.64         | 0.56        | 0.80        | 0.54        | 0.60          | 0.63             | 0.53           | 0.68            | 1.05            |
| Reserve                         | 0.27           | 0.37            | 0.56         | 0.36         | 0.38        | 0.24        | 0.27        | 0.20          | 0.28             | 0.28           | 0.47            | 0.60            |
| Regulation                      | 0.10           | 0.18            | 0.11         | 0.12         | 0.10        | 0.13        | 0.12        | 0.12          | 0.10             | 0.12           | 0.13            | 0.13            |
| NYISO Cost of Operations        | 0.70           | 0.70            | 0.70         | 0.70         | 0.70        | 0.70        | 0.70        | 0.70          | 0.70             | 0.69           | 0.70            | 0.69            |
| Uplift                          | (0.48)         | (1.08)          | (0.68)       | (0.15)       | 0.26        | 0.33        | 0.04        | 0.03          | (0.15)           | 0.10           | 0.44            | (0.07)          |
| Uplift: Local Reliability Share | 0.25           | 0.33            | 0.13         | 0.27         | 0.30        | 0.37        | 0.35        | 0.36          | 0.22             | 0.33           | 0.20            | 0.12            |
| Uplift: Statewide Share         | (0.73)         | (1.41)          | (0.81)       | (0.42)       | (0.05)      | (0.04)      | (0.30)      | (0.33)        | (0.37)           | (0.23)         | 0.25            | (0.18)          |
| Voltage Support and Black Start | <u>0.39</u>    | <u>0.39</u>     | <u>0.39</u>  | <u>0.39</u>  | <u>0.39</u> | <u>0.39</u> | <u>0.39</u> | <u>0.39</u>   | <u>0.39</u>      | <u>0.39</u>    | <u>0.39</u>     | <u>0.38</u>     |
| <b>Avg Monthly Cost</b>         | 60.91          | 115.27          | 53.58        | 30.41        | 35.37       | 30.79       | 36.84       | 35.14         | 36.35            | 32.18          | 27.64           | 23.71           |
| Avg YTD Cost                    | 60.91          | 87.74           | 76.64        | 66.82        | 60.96       | 56.02       | 52.77       | 50.20         | 48.59            | 47.17          | 45.66           | 44.10           |
| TSA \$ per NYC MWh              | 0.00           | 0.00            | 0.00         | 0.00         | 0.17        | 0.50        | 0.07        | 0.06          | 0.01             | 0.00           | 0.00            | 0.00            |
| <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 | <u>0.36</u>    | <u>0.36</u>     | <u>0.36</u>  | <u>0.36</u>  | <u>0.36</u> | <u>0.36</u> | <u>0.36</u> | <u>0.36</u>   | <u>0.36</u>      | <u>0.36</u>    | <u>0.36</u>     | <u>0.36</u>     |
| <b>Avg Monthly Cost</b>         | 186.24         | 126.14          | 112.15       | 48.82        | 42.51       | 45.39       | 45.57       | 36.14         | 39.38            | 37.59          | 44.71           | 40.09           |
| 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            |

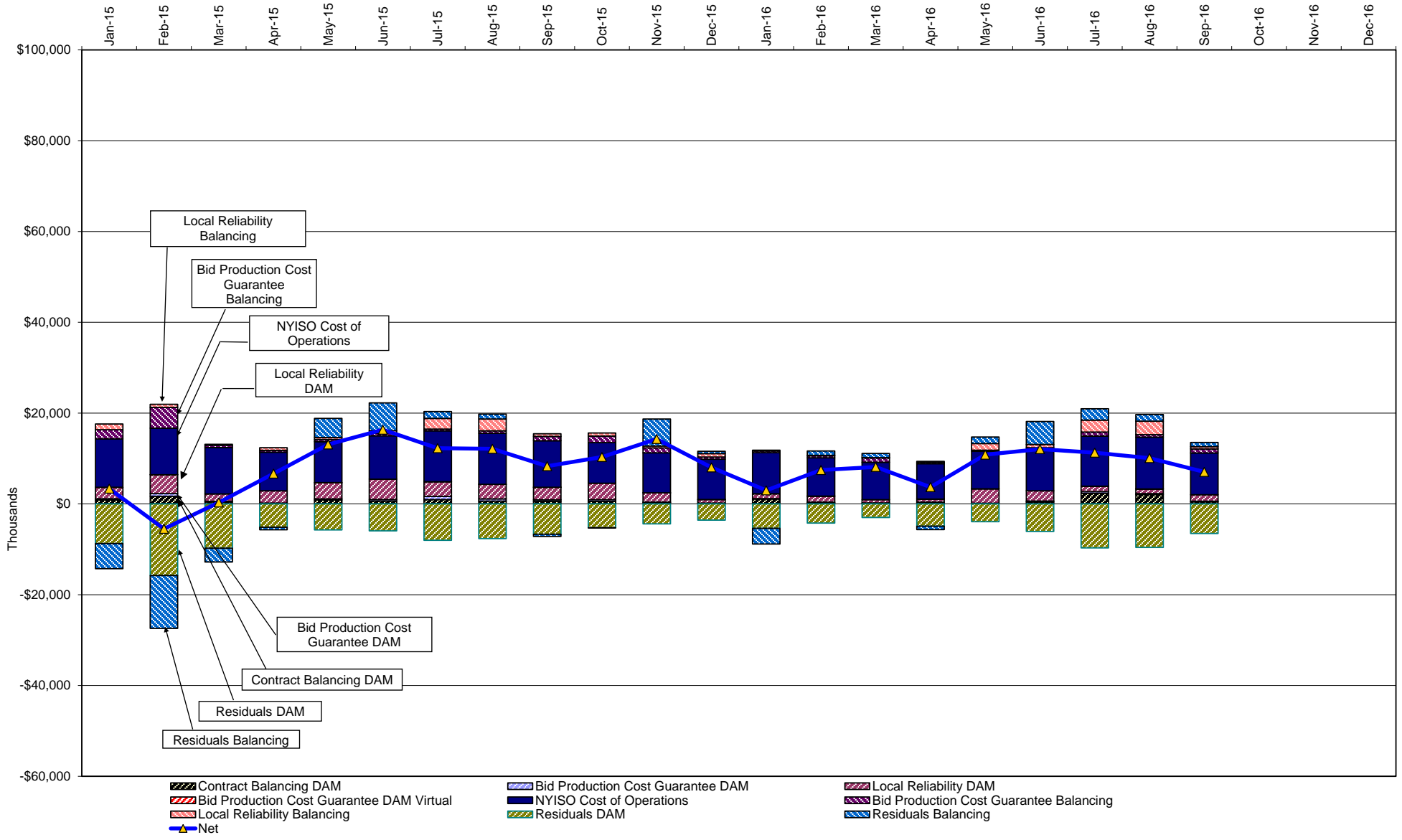
\* Excludes ICAP payments.

Market Mitigation and Analysis  
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Data reflects true-ups thru December 2015.

As of Jan. 2016, the annual FERC fee is recovered separately from Cost of Ops.

# NYISO Dollar Flows - Uplift - OATT Schedule 1 components - Data through September 30, 2016



## NYISO Markets Transactions

| <b>2016</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 MWh</b>                                    | 14,760,915     | 13,614,754      | 13,413,781   | 12,496,141   | 12,959,886 | 14,095,904  | 16,950,819  | 17,413,898    | 14,563,318       |                |                 |                 |
| DAM LSE Internal LBMP Energy Sales                             | 54%            | 55%             | 55%          | 57%          | 58%        | 60%         | 64%         | 63%           | 60%              |                |                 |                 |
| DAM External TC LBMP Energy Sales                              | 4%             | 2%              | 1%           | 5%           | 2%         | 1%          | 1%          | 3%            | 3%               |                |                 |                 |
| DAM Bilateral - Internal Bilaterals                            | 34%            | 34%             | 35%          | 28%          | 31%        | 30%         | 28%         | 27%           | 30%              |                |                 |                 |
| DAM Bilateral - Import/Non-LBMP Market Bilaterals              | 5%             | 5%              | 5%           | 6%           | 5%         | 5%          | 4%          | 4%            | 5%               |                |                 |                 |
| DAM Bilateral - Export/Non-LBMP Market Bilaterals              | 2%             | 1%              | 2%           | 2%           | 2%         | 2%          | 1%          | 1%            | 1%               |                |                 |                 |
| DAM Bilateral - Wheel Through Bilaterals                       | 2%             | 2%              | 2%           | 2%           | 2%         | 2%          | 2%          | 2%            | 2%               |                |                 |                 |
| <b>Balancing Energy Market MWh</b>                             | -522,919       | -580,900        | -741,701     | -303,313     | -180,848   | -143,015    | -86,025     | 224,316       | -250,802         |                |                 |                 |
| Balancing Energy LSE Internal LBMP Energy Sales                | -125%          | -114%           | -118%        | -76%         | -147%      | -203%       | -347%       | 42%           | -139%            |                |                 |                 |
| Balancing Energy External TC LBMP Energy Sales                 | 12%            | 13%             | 19%          | -13%         | 55%        | 77%         | 204%        | 56%           | 49%              |                |                 |                 |
| Balancing Energy Bilateral - Internal Bilaterals               | 19%            | 9%              | 4%           | 8%           | 27%        | 47%         | 62%         | 28%           | 18%              |                |                 |                 |
| Balancing Energy Bilateral - Import/Non-LBMP Market Bilaterals | 0%             | 0%              | 0%           | 0%           | 0%         | 0%          | 0%          | 0%            | 0%               |                |                 |                 |
| Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals | 6%             | 5%              | 3%           | 5%           | 7%         | 10%         | 15%         | 5%            | 5%               |                |                 |                 |
| Balancing Energy Bilateral - Wheel Through Bilaterals          | -12%           | -12%            | -8%          | -24%         | -42%       | -32%        | -34%        | -31%          | -32%             |                |                 |                 |
| <b>Transactions Summary</b>                                    |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| LBMP   | 56%            | 56%             | 54%          | 62%          | 59%        | 61%         | 65%         | 66%           | 62%              |                |                 |                 |
| Internal Bilaterals  | 36%            | 36%             | 37%          | 29%          | 32%        | 31%         | 28%         | 27%           | 30%              |                |                 |                 |
| Import Bilaterals  | 5%             | 5%              | 6%           | 6%           | 5%         | 5%          | 4%          | 4%            | 5%               |                |                 |                 |
| Export Bilaterals  | 2%             | 2%              | 2%           | 2%           | 2%         | 2%          | 1%          | 1%            | 1%               |                |                 |                 |
| Wheels Through   | 1%             | 1%              | 1%           | 1%           | 2%         | 2%          | 1%          | 1%            | 2%               |                |                 |                 |
| <b>Market Share of Total Load</b>                              |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| Day Ahead Market   | 103.7%         | 104.5%          | 105.9%       | 102.5%       | 101.4%     | 101.0%      | 100.5%      | 98.7%         | 101.8%           |                |                 |                 |
| Balancing Energy +   | -3.7%          | -4.5%           | -5.9%        | -2.5%        | -1.4%      | -1.0%       | -0.5%       | 1.3%          | -1.8%            |                |                 |                 |
| Total MWh  | 14,237,996     | 13,033,853      | 12,672,080   | 12,192,828   | 12,779,038 | 13,952,889  | 16,864,794  | 17,638,213    | 14,312,516       |                |                 |                 |
| Average Daily Energy Sendout/Month GWh                         | 439            | 436             | 397          | 385          | 397        | 456         | 532         | 548           | 458              |                |                 |                 |

| <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 MWh</b>                                    | 15,961,306     | 14,967,371      | 15,059,207   | 12,589,321   | 13,291,917 | 14,277,299  | 16,573,027  | 16,333,932    | 14,740,907       | 13,546,033     | 13,338,332      | 13,620,002      |
| DAM LSE Internal LBMP Energy Sales                             | 55%            | 54%             | 53%          | 55%          | 57%        | 57%         | 62%         | 61%           | 58%              | 53%            | 53%             | 55%             |
| DAM External TC LBMP Energy Sales                              | 5%             | 6%              | 6%           | 4%           | 2%         | 1%          | 1%          | 1%            | 3%               | 6%             | 5%              | 1%              |
| DAM Bilateral - Internal Bilaterals                            | 35%            | 33%             | 33%          | 33%          | 35%        | 33%         | 30%         | 31%           | 31%              | 34%            | 33%             | 35%             |
| DAM Bilateral - Import/Non-LBMP Market Bilaterals              | 3%             | 5%              | 5%           | 6%           | 4%         | 5%          | 4%          | 4%            | 5%               | 5%             | 5%              | 5%              |
| DAM Bilateral - Export/Non-LBMP Market Bilaterals              | 2%             | 2%              | 1%           | 2%           | 1%         | 1%          | 1%          | 1%            | 1%               | 2%             | 2%              | 2%              |
| DAM Bilateral - Wheel Through Bilaterals                       | 0%             | 1%              | 1%           | 1%           | 0%         | 2%          | 2%          | 2%            | 2%               | 1%             | 2%              | 2%              |
| <b>Balancing Energy Market MWh</b>                             | -650,944       | -296,616        | -396,739     | -409,205     | -331,091   | -549,794    | -505,637    | -228,461      | -33,268          | -604,600       | -718,787        | -642,268        |
| Balancing Energy LSE Internal LBMP Energy Sales                | -149%          | -247%           | -192%        | -147%        | -142%      | -106%       | -120%       | -139%         | -345%            | -115%          | -110%           | -115%           |
| Balancing Energy External TC LBMP Energy Sales                 | 30%            | 113%            | 64%          | 36%          | 35%        | 16%         | 25%         | 50%           | 110%             | 12%            | 12%             | 17%             |
| Balancing Energy Bilateral - Internal Bilaterals               | 13%            | 14%             | 19%          | 5%           | 6%         | 6%          | 13%         | 25%           | 239%             | 7%             | 4%              | 5%              |
| Balancing Energy Bilateral - Import/Non-LBMP Market Bilaterals | 0%             | 0%              | 0%           | 0%           | 0%         | 1%          | 0%          | 0%            | 0%               | 0%             | 0%              | 0%              |
| Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals | 6%             | 8%              | 12%          | 12%          | 10%        | 4%          | 3%          | 8%            | 46%              | 5%             | 5%              | 6%              |
| Balancing Energy Bilateral - Wheel Through Bilaterals          | 0%             | 12%             | -4%          | -5%          | -9%        | -22%        | -21%        | -44%          | -149%            | -9%            | -11%            | -13%            |
| <b>Transactions Summary</b>                                    |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| LBMP   | 58%            | 59%             | 57%          | 57%          | 58%        | 57%         | 61%         | 61%           | 61%              | 56%            | 56%             | 54%             |
| Internal Bilaterals  | 37%            | 34%             | 35%          | 35%          | 36%        | 35%         | 32%         | 32%           | 32%              | 36%            | 35%             | 37%             |
| Import Bilaterals  | 3%             | 5%              | 5%           | 6%           | 4%         | 5%          | 5%          | 5%            | 5%               | 5%             | 6%              | 6%              |
| Export Bilaterals  | 2%             | 2%              | 2%           | 2%           | 2%         | 1%          | 1%          | 1%            | 1%               | 2%             | 2%              | 2%              |
| Wheels Through   | 0%             | 1%              | 1%           | 0%           | 0%         | 1%          | 1%          | 1%            | 1%               | 0%             | 1%              | 1%              |
| <b>Market Share of Total Load</b>                              |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| Day Ahead Market   | 104.3%         | 102.0%          | 102.7%       | 103.4%       | 102.6%     | 104.0%      | 103.1%      | 101.4%        | 100.2%           | 104.7%         | 105.7%          | 104.9%          |
| Balancing Energy +   | -4.3%          | -2.0%           | -2.7%        | -3.4%        | -2.6%      | -4.0%       | -3.1%       | -1.4%         | -0.2%            | -4.7%          | -5.7%           | -4.9%           |
| Total MWh  | 15,310,362     | 14,670,755      | 14,662,468   | 12,180,116   | 12,960,826 | 13,727,505  | 16,067,390  | 16,105,471    | 14,707,639       | 12,941,433     | 12,619,545      | 12,977,734      |
| Average Daily Energy Sendout/Month GWh                         | 462            | 481             | 436          | 387          | 409        | 450         | 512         | 511           | 473              | 389            | 396             | 408             |

+ 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 2016 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 *                                | \$31.01        | \$25.76         | \$18.63      | \$26.39      | \$21.07    | \$24.83     | \$35.24     | \$38.25       | \$27.15          |                |                 |                 |
| Standard Deviation                     | \$10.86        | \$12.46         | \$6.99       | \$6.95       | \$7.04     | \$9.21      | \$18.37     | \$20.59       | \$13.55          |                |                 |                 |
| Load Weighted Price **                 | \$32.13        | \$26.75         | \$19.37      | \$27.14      | \$22.12    | \$26.30     | \$38.29     | \$41.41       | \$29.38          |                |                 |                 |
| <b><u>RTC LBMP</u></b>                 |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| Price *                                | \$26.12        | \$24.10         | \$16.41      | \$23.41      | \$19.96    | \$24.29     | \$36.22     | \$45.03       | \$24.70          |                |                 |                 |
| Standard Deviation                     | \$16.06        | \$17.89         | \$11.32      | \$9.09       | \$11.44    | \$16.58     | \$38.04     | \$70.57       | \$17.46          |                |                 |                 |
| Load Weighted Price **                 | \$27.16        | \$25.29         | \$17.11      | \$24.10      | \$21.23    | \$25.73     | \$39.42     | \$50.28       | \$26.97          |                |                 |                 |
| <b><u>REAL TIME LBMP</u></b>           |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| Price *                                | \$30.15        | \$24.28         | \$17.84      | \$25.71      | \$20.67    | \$25.87     | \$34.40     | \$40.87       | \$24.90          |                |                 |                 |
| Standard Deviation                     | \$60.09        | \$18.19         | \$15.06      | \$16.59      | \$12.84    | \$19.27     | \$38.56     | \$52.85       | \$20.70          |                |                 |                 |
| Load Weighted Price **                 | \$31.80        | \$25.61         | \$18.64      | \$26.57      | \$21.99    | \$27.39     | \$38.20     | \$45.82       | \$27.38          |                |                 |                 |
| Average Daily Energy Sendout/Month GWh | 439            | 436             | 397          | 385          | 397        | 456         | 532         | 548           | 458              |                |                 |                 |

### 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     | \$30.27     | \$30.01       | \$30.18          | \$27.11        | \$22.18         | \$18.94         |
| Standard Deviation                     | \$24.61        | \$48.85         | \$21.51      | \$6.73       | \$13.44    | \$11.96     | \$17.67     | \$12.05       | \$13.37          | \$7.64         | \$7.94          | \$8.41          |
| Load Weighted Price **                 | \$55.40        | \$104.52        | \$48.01      | \$26.84      | \$31.08    | \$26.12     | \$32.94     | \$31.81       | \$32.46          | \$27.95        | \$23.12         | \$19.97         |
| <b><u>RTC LBMP</u></b>                 |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| Price *                                | \$46.98        | \$95.06         | \$43.43      | \$25.11      | \$32.85    | \$24.73     | \$27.51     | \$31.83       | \$32.39          | \$23.97        | \$20.07         | \$19.34         |
| Standard Deviation                     | \$22.84        | \$47.55         | \$29.42      | \$12.31      | \$35.40    | \$24.71     | \$21.84     | \$23.25       | \$22.99          | \$10.56        | \$15.66         | \$14.23         |
| Load Weighted Price **                 | \$48.59        | \$97.62         | \$45.10      | \$26.00      | \$35.08    | \$26.73     | \$29.76     | \$34.04       | \$34.99          | \$24.79        | \$21.17         | \$20.46         |
| <b><u>REAL TIME LBMP</u></b>           |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| Price *                                | \$48.51        | \$98.83         | \$44.38      | \$25.46      | \$30.39    | \$23.96     | \$27.71     | \$31.54       | \$34.82          | \$25.50        | \$21.33         | \$20.75         |
| Standard Deviation                     | \$25.99        | \$52.53         | \$29.07      | \$12.66      | \$31.69    | \$31.14     | \$23.42     | \$26.51       | \$34.85          | \$12.56        | \$18.76         | \$19.00         |
| Load Weighted Price **                 | \$50.18        | \$101.34        | \$46.10      | \$26.28      | \$32.52    | \$26.86     | \$30.50     | \$34.05       | \$38.48          | \$26.29        | \$22.47         | \$21.86         |
| Average Daily Energy Sendout/Month GWh | 462            | 481             | 436          | 387          | 409        | 450         | 512         | 511           | 473              | 389            | 396             | 408             |

\* Average zonal load weighted prices.

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

### NYISO Monthly Average Internal LBMPs 2015- 2016

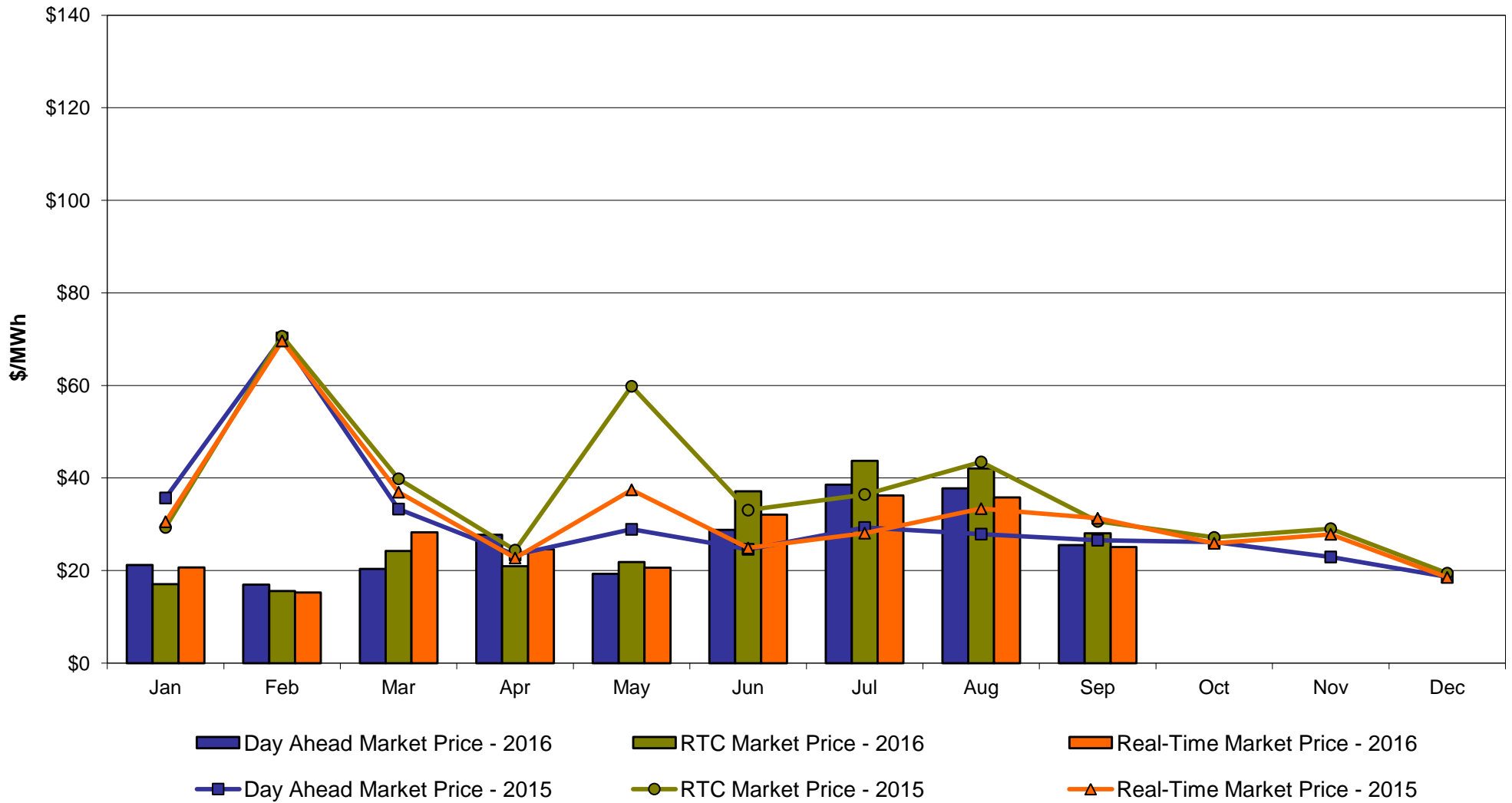


**September 2016 Zonal LBMP Statistics for NYISO (\$/MWh)**

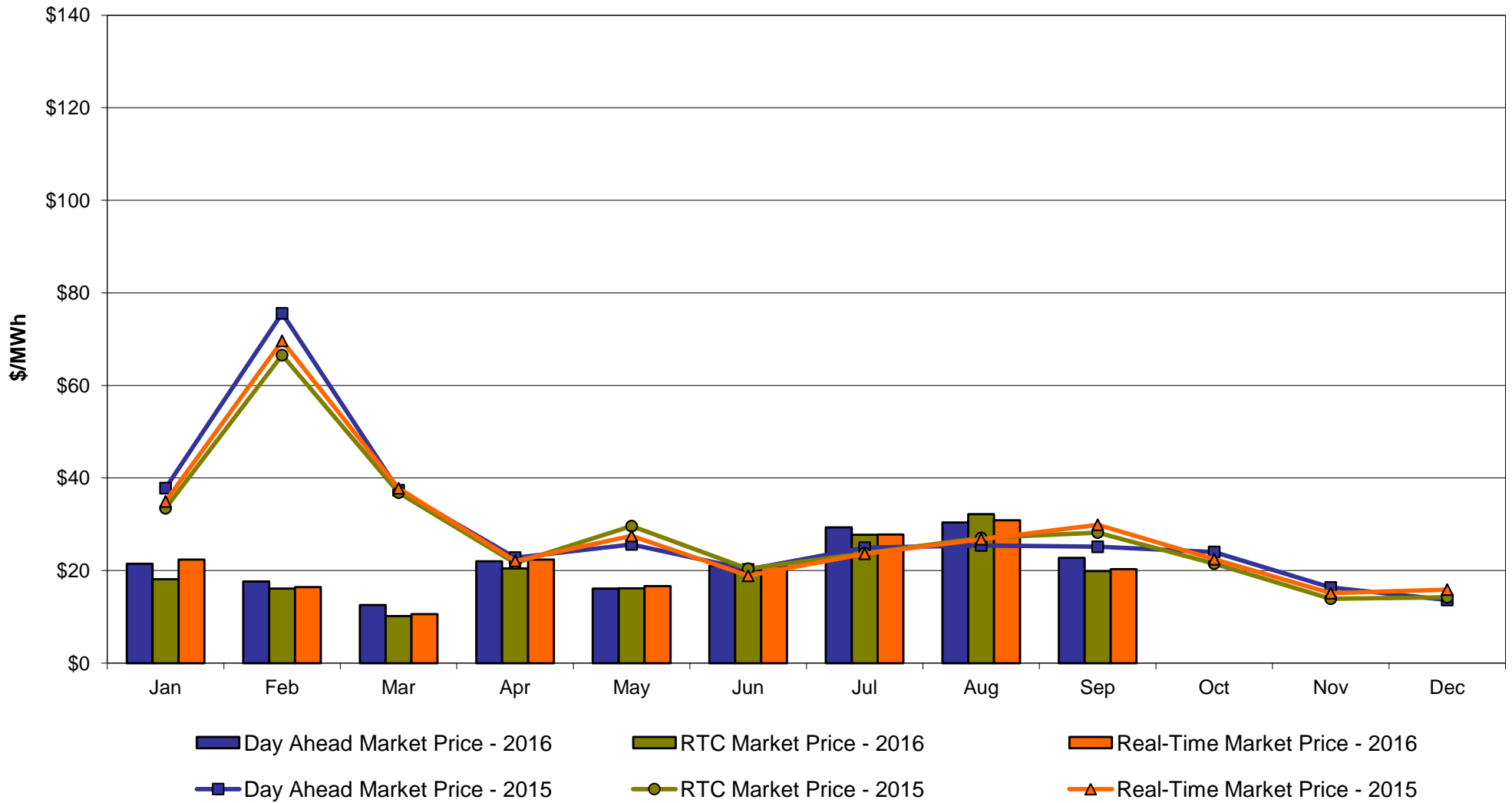
|                              | <u>WEST<br/>Zone A</u>             | <u>GENESEE<br/>Zone B</u>                      | <u>NORTH<br/>Zone D</u>                                | <u>CENTRAL<br/>Zone C</u> | <u>MOHAWK<br/>VALLEY<br/>Zone E</u> | <u>CAPITAL<br/>Zone F</u>                                  | <u>HUDSON<br/>VALLEY<br/>Zone G</u>                     | <u>MILLWOOD<br/>Zone H</u>               | <u>DUNWOODIE<br/>Zone I</u>                 | <u>NEW YORK<br/>CITY<br/>Zone J</u>     | <u>LONG<br/>ISLAND<br/>Zone K</u>         |
|------------------------------|------------------------------------|--|--|---------------------------|-------------------------------------|--|---|--|---|---|---|
| <b><u>DAY AHEAD LBMP</u></b> |                                    |  |  |                           |                                     |  |   |  |   |   |   |
| Unweighted Price *           | 25.50                              | 22.36  | 17.66  | 22.75                     | 22.84                               | 25.31  | 26.07   | 26.24                                    | 26.23                                       | 27.01                                   | 37.12                                     |
| Standard Deviation           | 15.23                              | 9.80   | 8.92   | 9.98                      | 9.98                                | 10.10  | 11.46   | 11.67                                    | 11.64                                       | 12.01                                   | 28.19                                     |
| <b><u>RTC LBMP</u></b>       |                                    |  |  |                           |                                     |  |   |  |   |   |   |
| Unweighted Price *           | 28.03                              | 19.45  | 16.67  | 19.89                     | 19.84                               | 22.65  | 22.59   | 22.65                                    | 22.60                                       | 23.15                                   | 36.49                                     |
| Standard Deviation           | 65.04                              | 10.66  | 15.37  | 11.11                     | 10.64                               | 10.62  | 10.87   | 10.89                                    | 10.86                                       | 11.44                                   | 58.34                                     |
| <b><u>REAL TIME LBMP</u></b> |                                    |  |  |                           |                                     |  |   |  |   |   |   |
| Unweighted Price *           | 25.06                              | 20.05  | 15.93  | 20.31                     | 20.35                               | 23.49  | 23.43   | 23.50                                    | 23.45                                       | 24.87                                   | 34.03                                     |
| Standard Deviation           | 55.98                              | 15.74  | 26.87  | 16.08                     | 15.44                               | 15.57  | 16.48   | 16.71                                    | 16.66                                       | 20.48                                   | 43.13                                     |
|                              | <u>ONTARIO<br/>IESO<br/>Zone O</u> | <u>HYDRO<br/>QUEBEC<br/>(Wheel)<br/>Zone M</u> | <u>HYDRO<br/>QUEBEC<br/>(Import/Export)<br/>Zone M</u> | <u>PJM<br/>Zone P</u>     | <u>NEW<br/>ENGLAND<br/>Zone N</u>   | <u>CROSS<br/>SOUND<br/>CABLE<br/>Controllable<br/>Line</u> | <u>NORTHPORT-<br/>NORWALK<br/>Controllable<br/>Line</u> | <u>NEPTUNE<br/>Controllable<br/>Line</u> | <u>LINDEN VFT<br/>Controllable<br/>Line</u> | <u>HUDSON<br/>Controllable<br/>Line</u> | <u>Dennison<br/>Controllable<br/>Line</u> |
| <b><u>DAY AHEAD LBMP</u></b> |                                    |  |  |                           |                                     |  |   |  |   |   |   |
| Unweighted Price *           | 20.58                              | 19.05  | 19.05  | 24.25                     | 26.41                               | 36.28  | 29.92   | 32.99                                    | 26.21                                       | 26.35                                   | 17.43                                     |
| Standard Deviation           | 8.59                               | 9.41   | 9.41   | 10.81                     | 10.95                               | 27.25  | 13.29   | 22.44                                    | 10.86                                       | 11.68                                   | 8.70                                      |
| <b><u>RTC LBMP</u></b>       |                                    |  |  |                           |                                     |  |   |  |   |   |   |
| Unweighted Price *           | 16.92                              | 17.35  | 17.35  | 21.60                     | 26.94                               | 31.40  | 28.69   | 26.52                                    | 21.81                                       | 22.67                                   | 16.89                                     |
| Standard Deviation           | 13.55                              | 13.10  | 13.10  | 13.68                     | 15.32                               | 45.06  | 34.66   | 32.65                                    | 10.48                                       | 10.91                                   | 18.60                                     |
| <b><u>REAL TIME LBMP</u></b> |                                    |  |  |                           |                                     |  |   |  |   |   |   |
| Unweighted Price *           | 18.91                              | 17.04  | 17.04  | 21.82                     | 25.51                               | 31.37  | 27.64   | 27.34                                    | 22.32                                       | 23.52                                   | 15.96                                     |
| Standard Deviation           | 22.43                              | 24.11  | 24.11  | 18.76                     | 16.40                               | 37.03  | 38.25   | 25.99                                    | 17.27                                       | 16.73                                   | 27.70                                     |

\* Straight LBMP averages

## West Zone A Monthly Average LBMP Prices 2015 - 2016

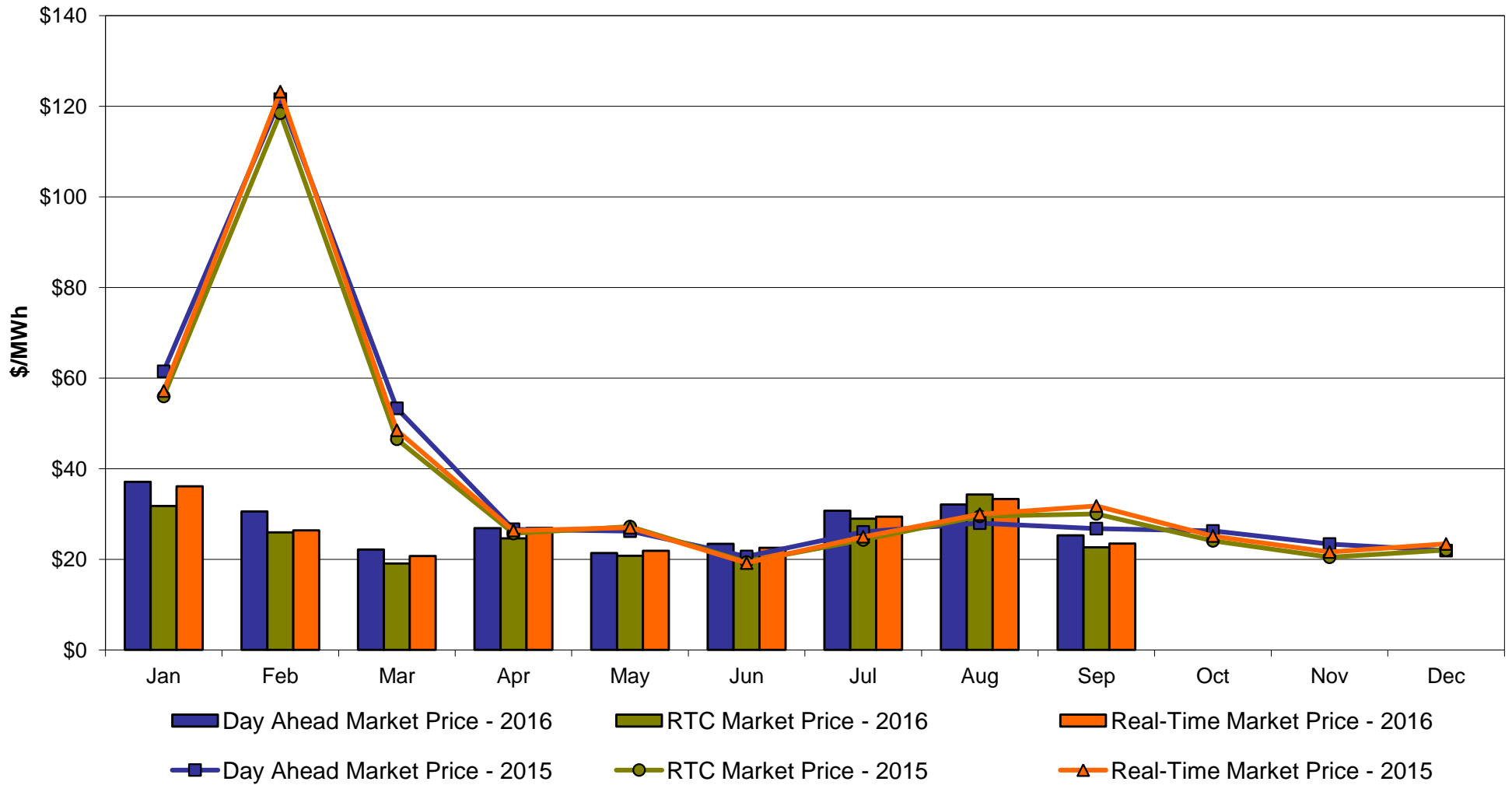


**Central Zone C  
Monthly Average LBMP Prices 2015 - 2016**

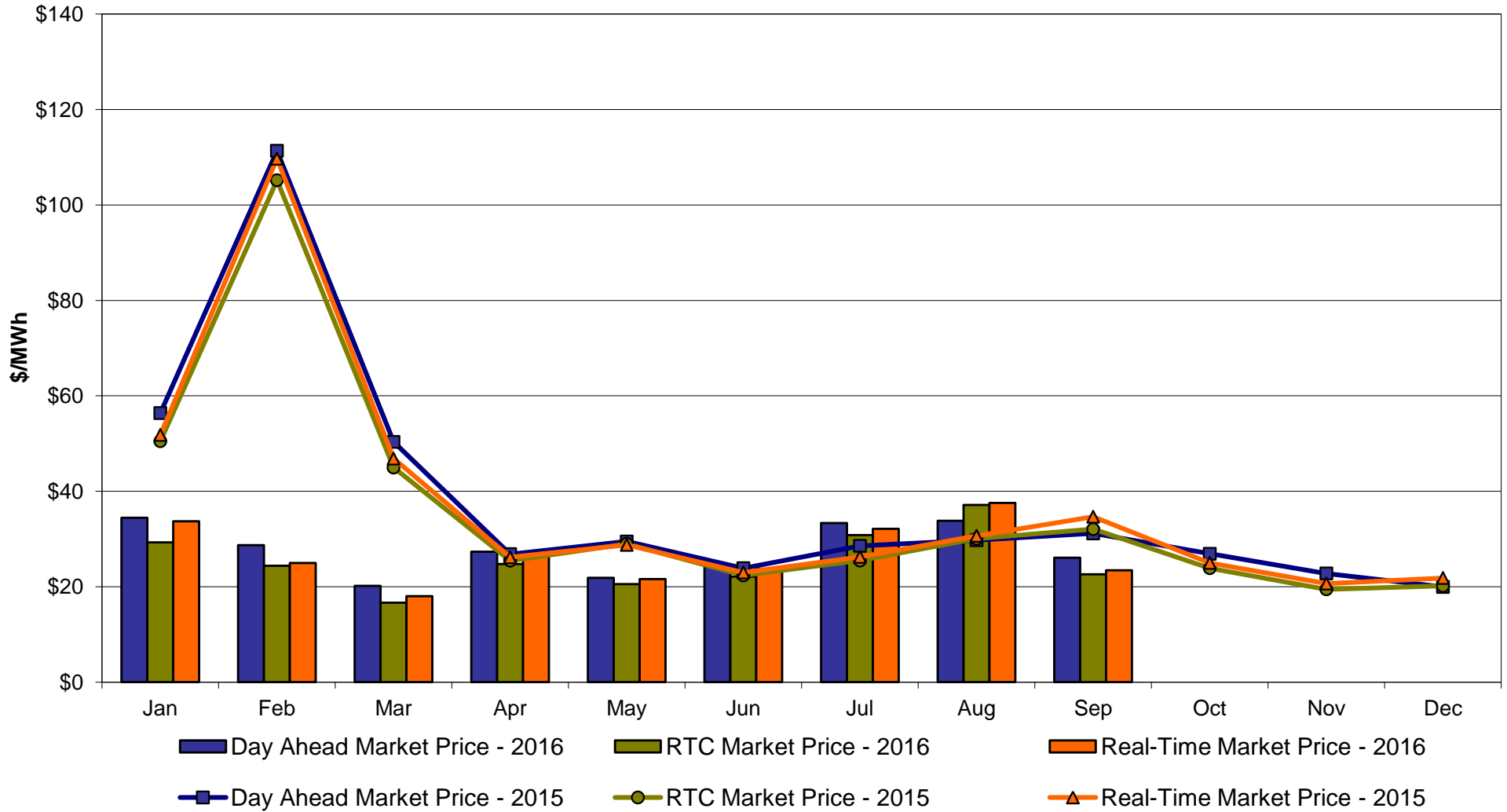




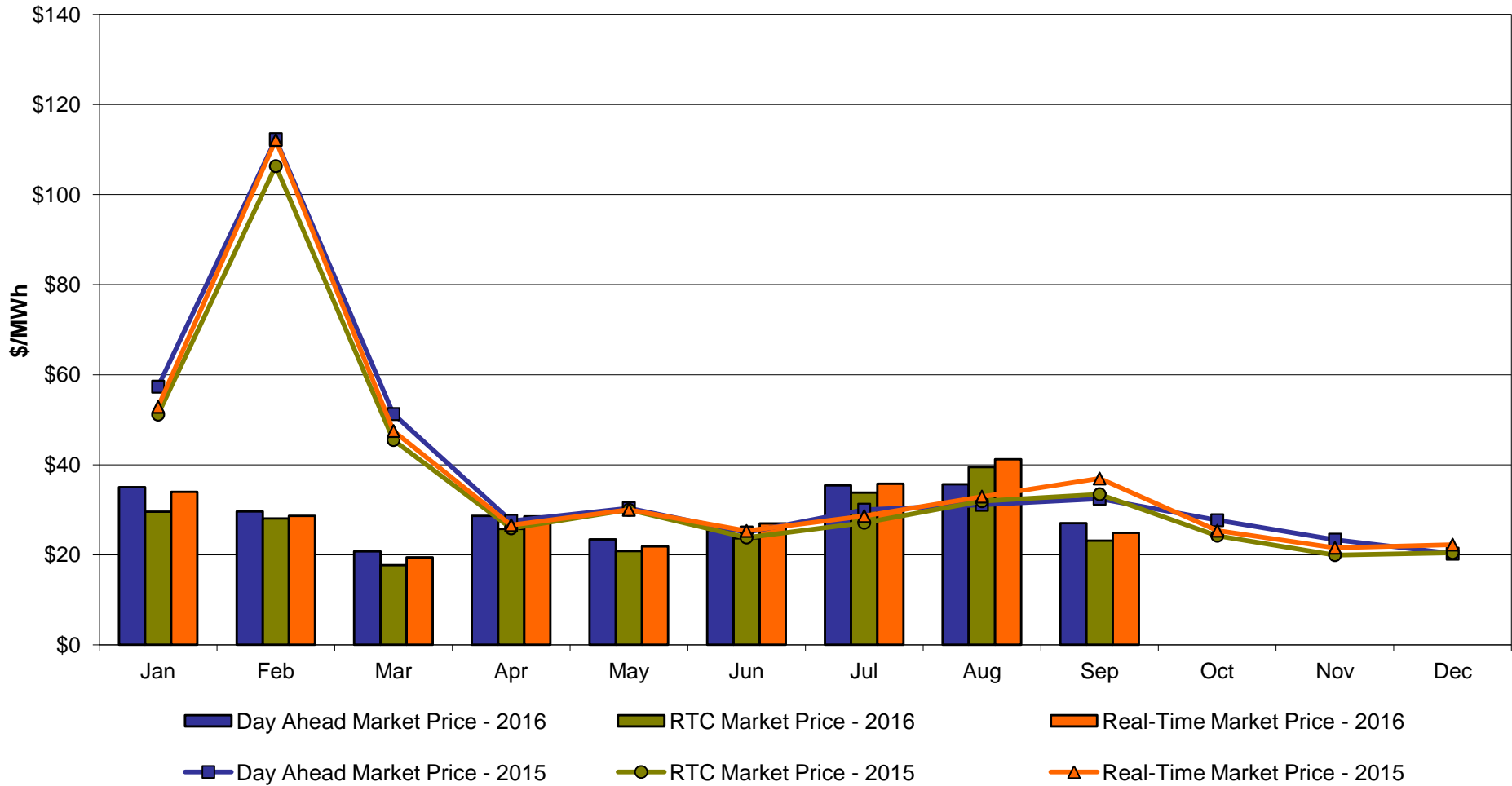
### Capital Zone F Monthly Average LBMP Prices 2015 - 2016



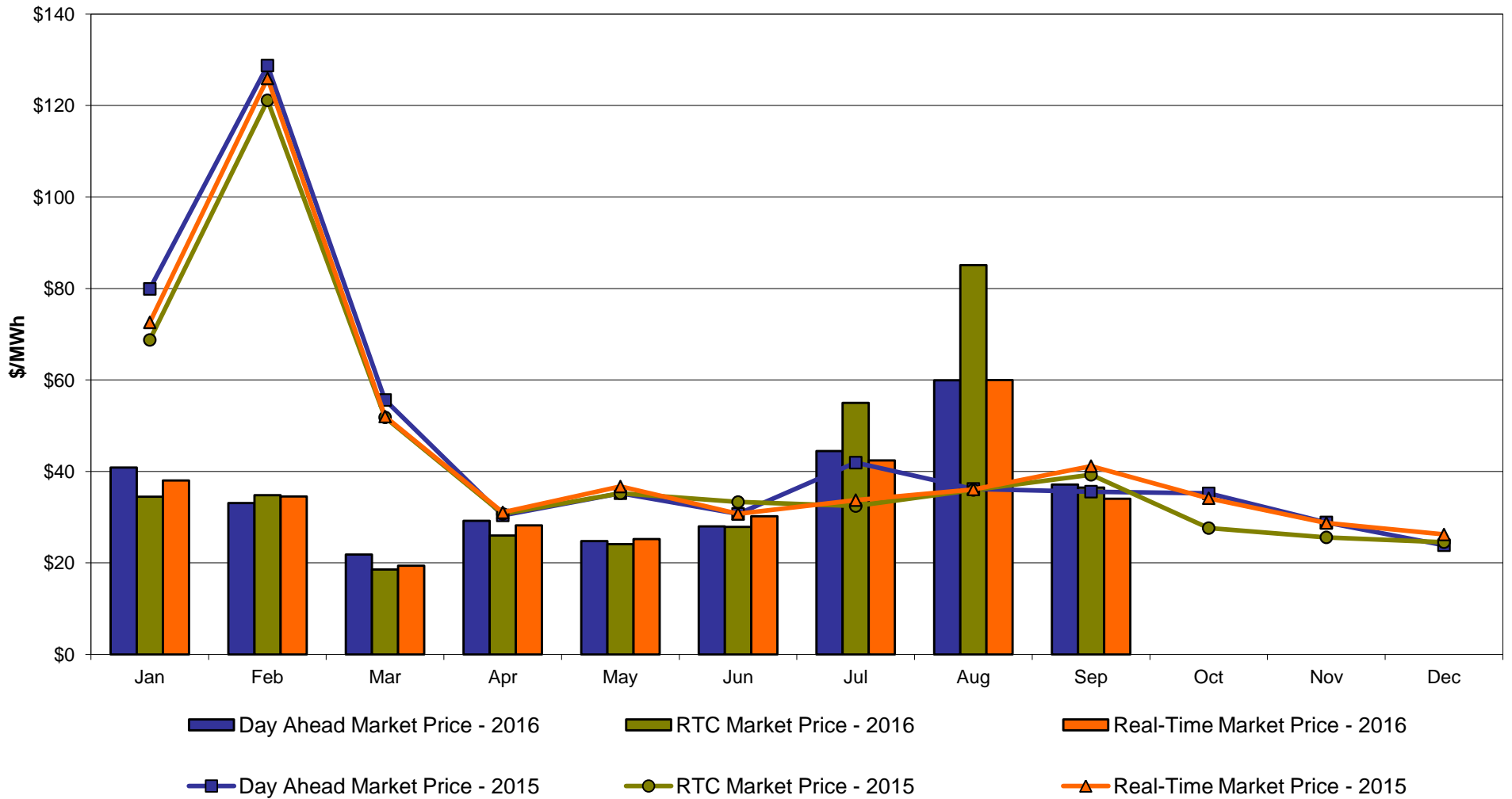
## Hudson Valley Zone G Monthly Average LBMP Prices 2015 - 2016



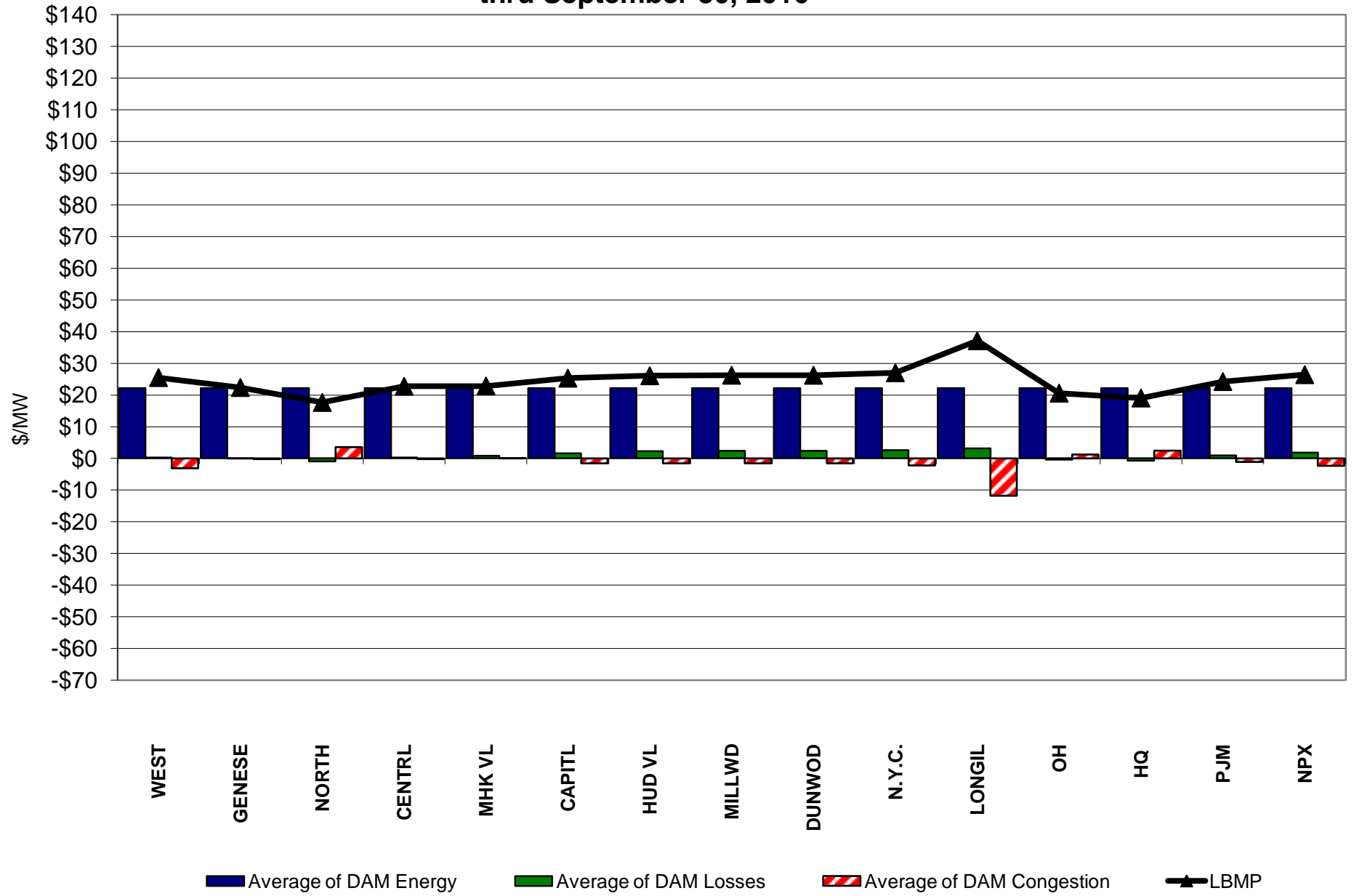
## NYC Zone J Monthly Average LBMP Prices 2015 - 2016



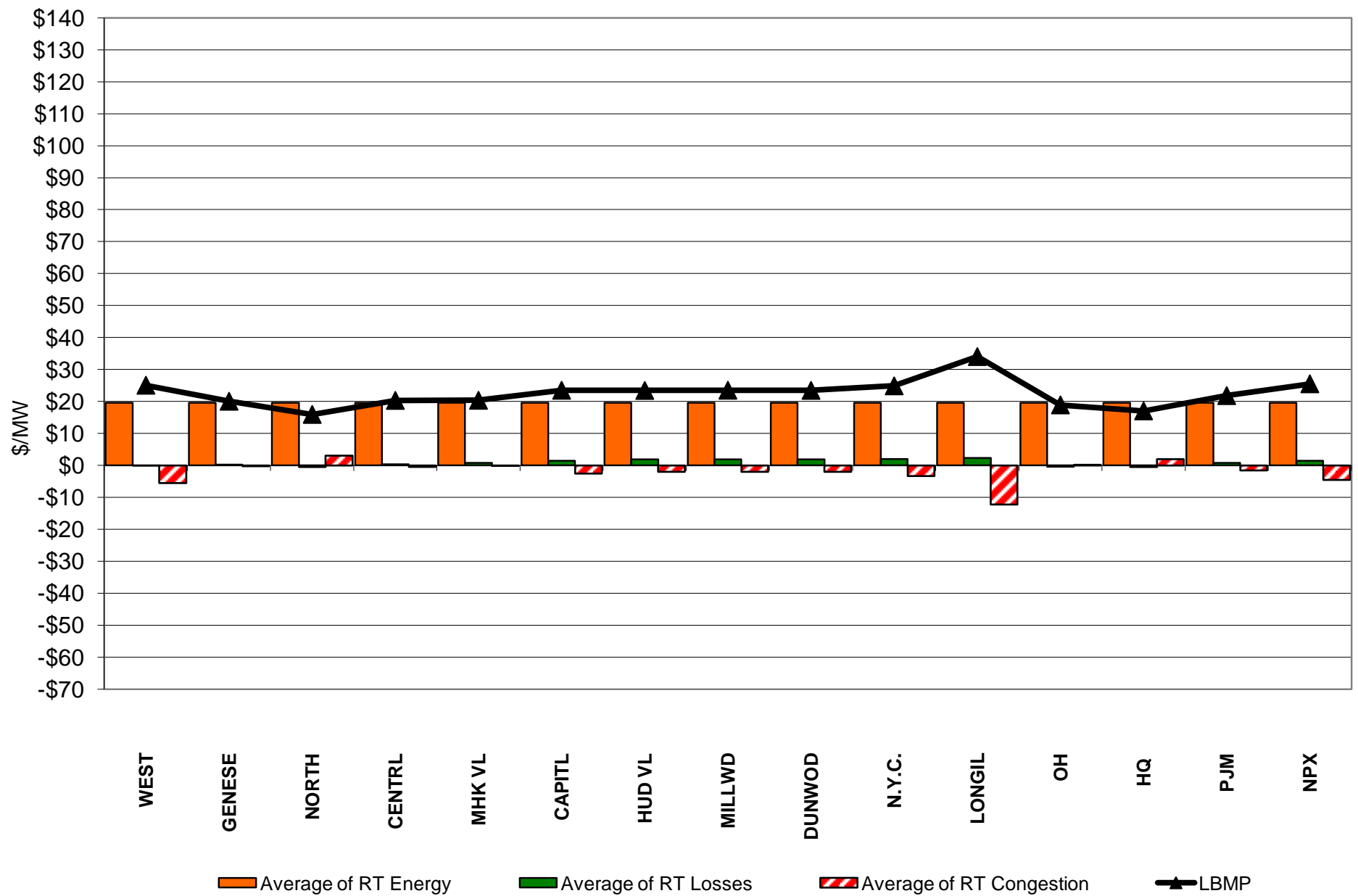
## Long Island Zone K Monthly Average LBMP Prices 2015 - 2016



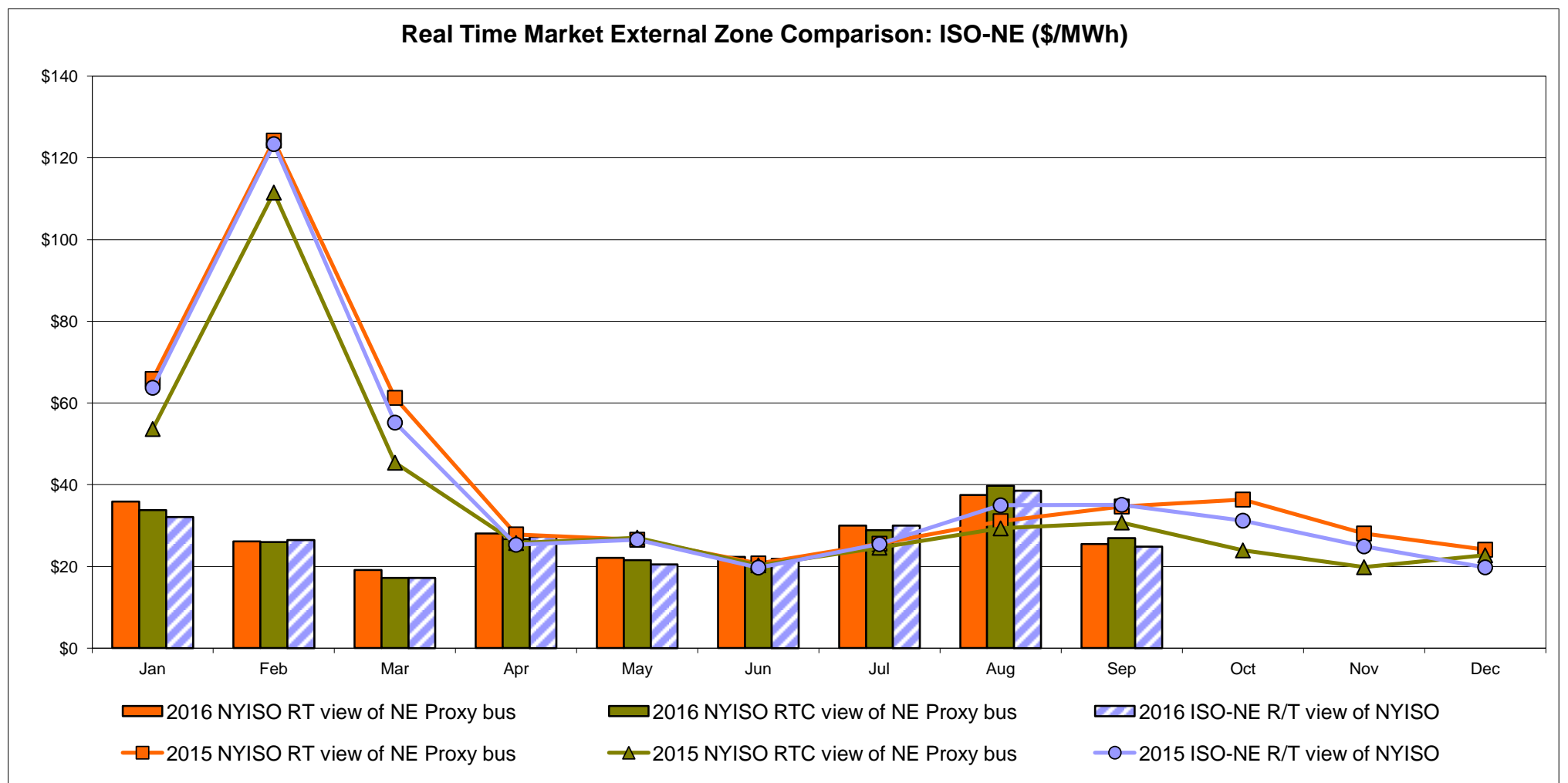
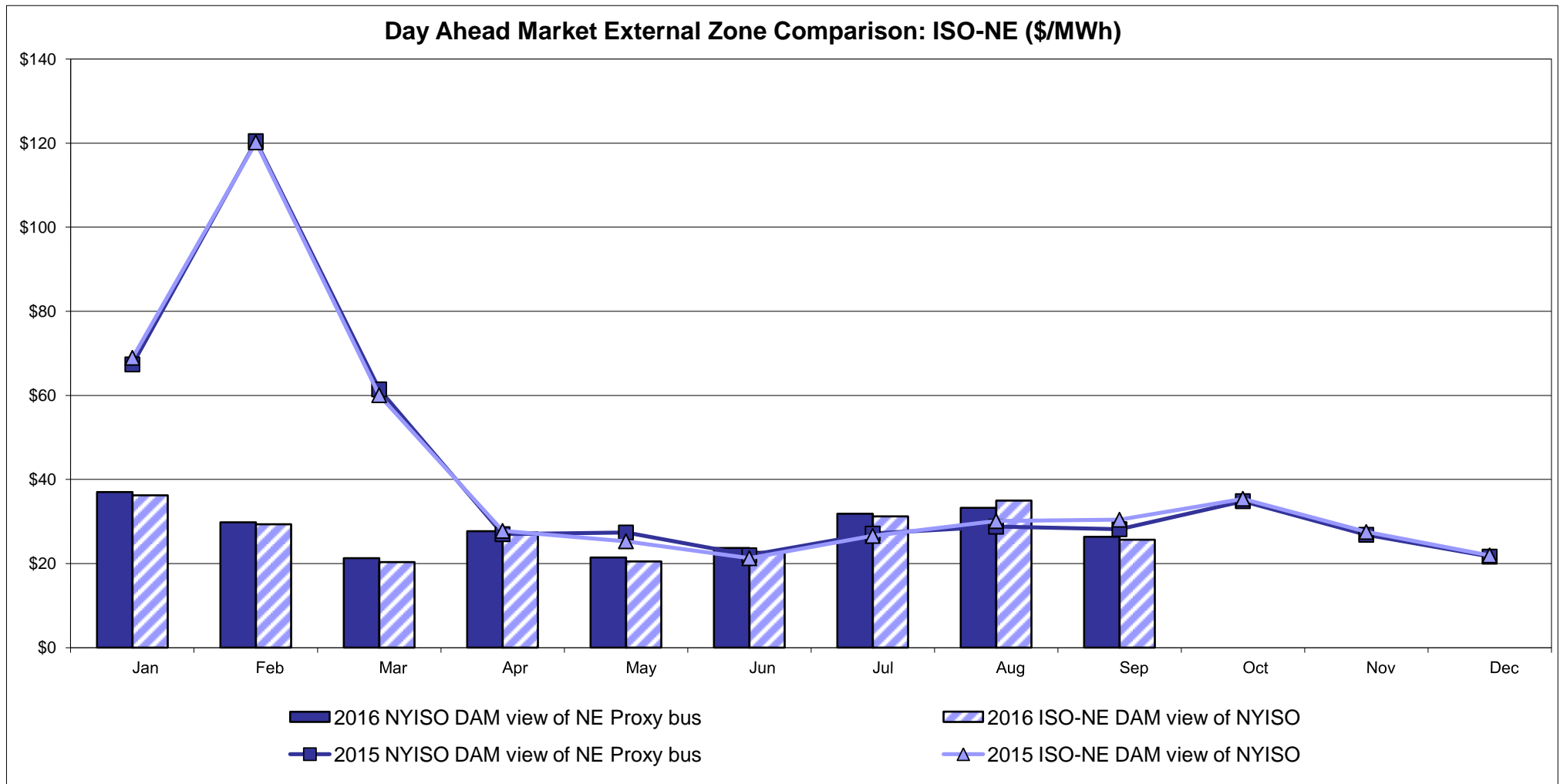
**DAM Zonal Unweighted Monthly Average LBMP Components  
thru September 30, 2016**



**RT Zonal Unweighted Monthly Average LBMP Components  
thru September 30, 2016**

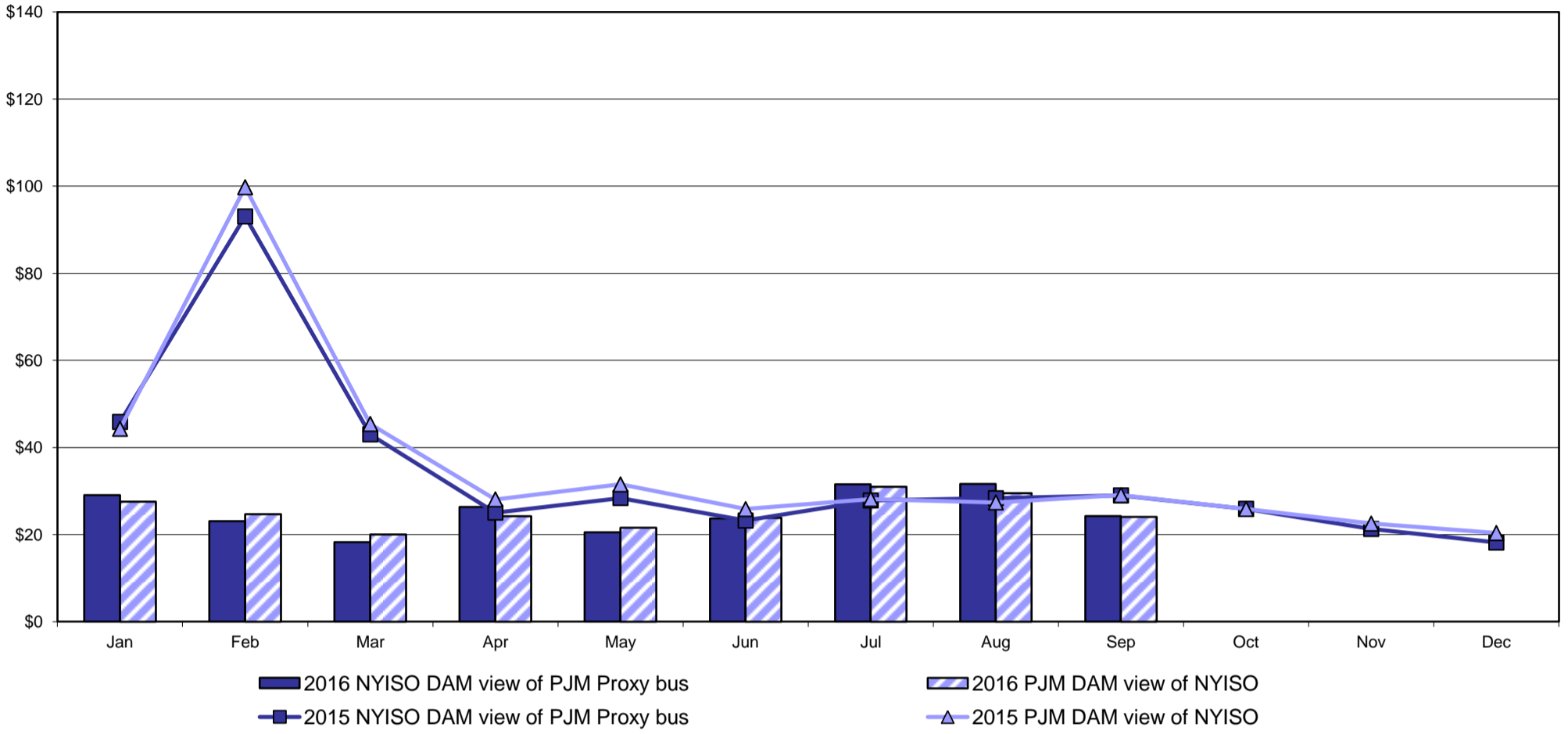


# External Comparison ISO-New England

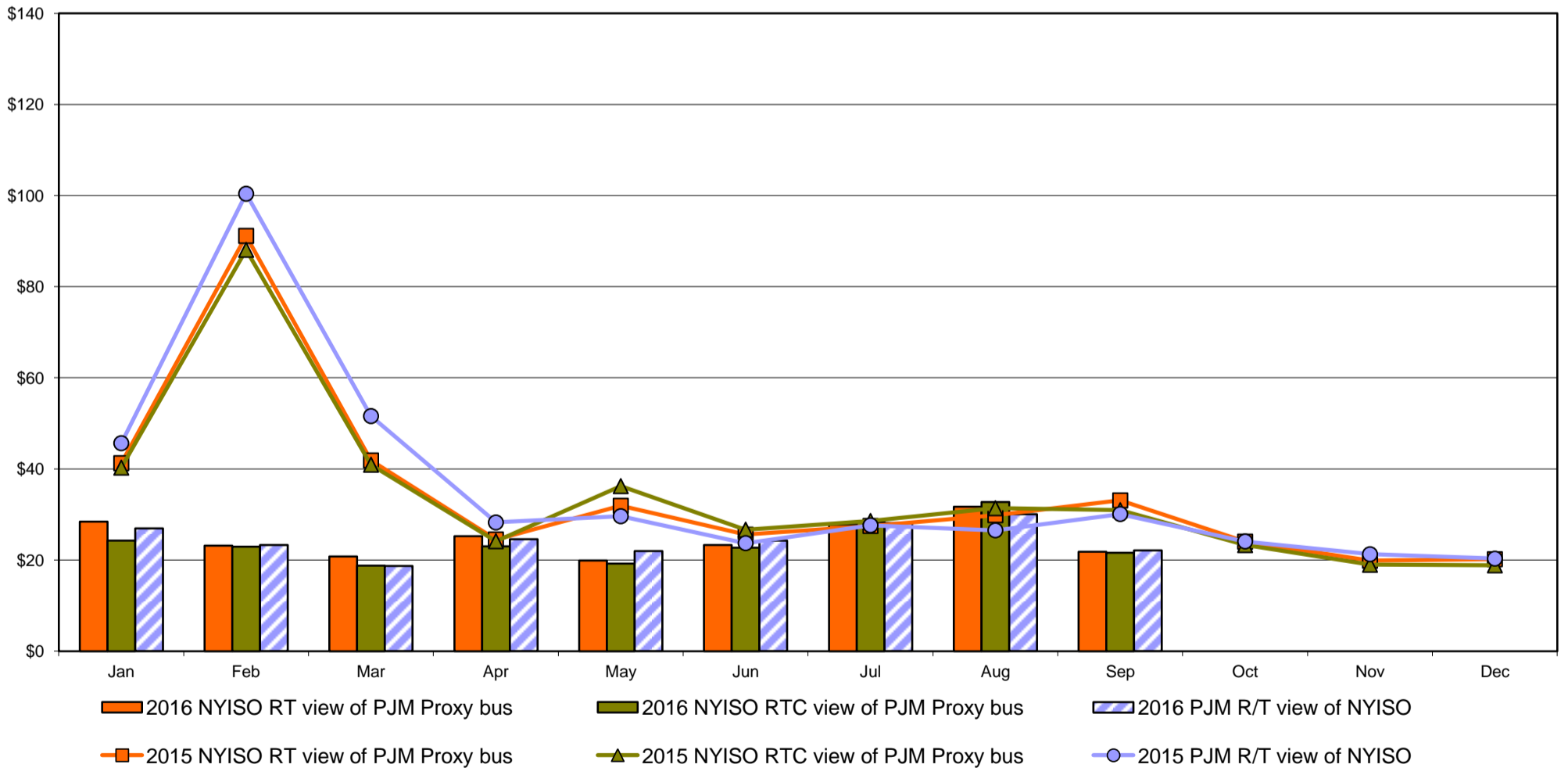


# External Comparison PJM

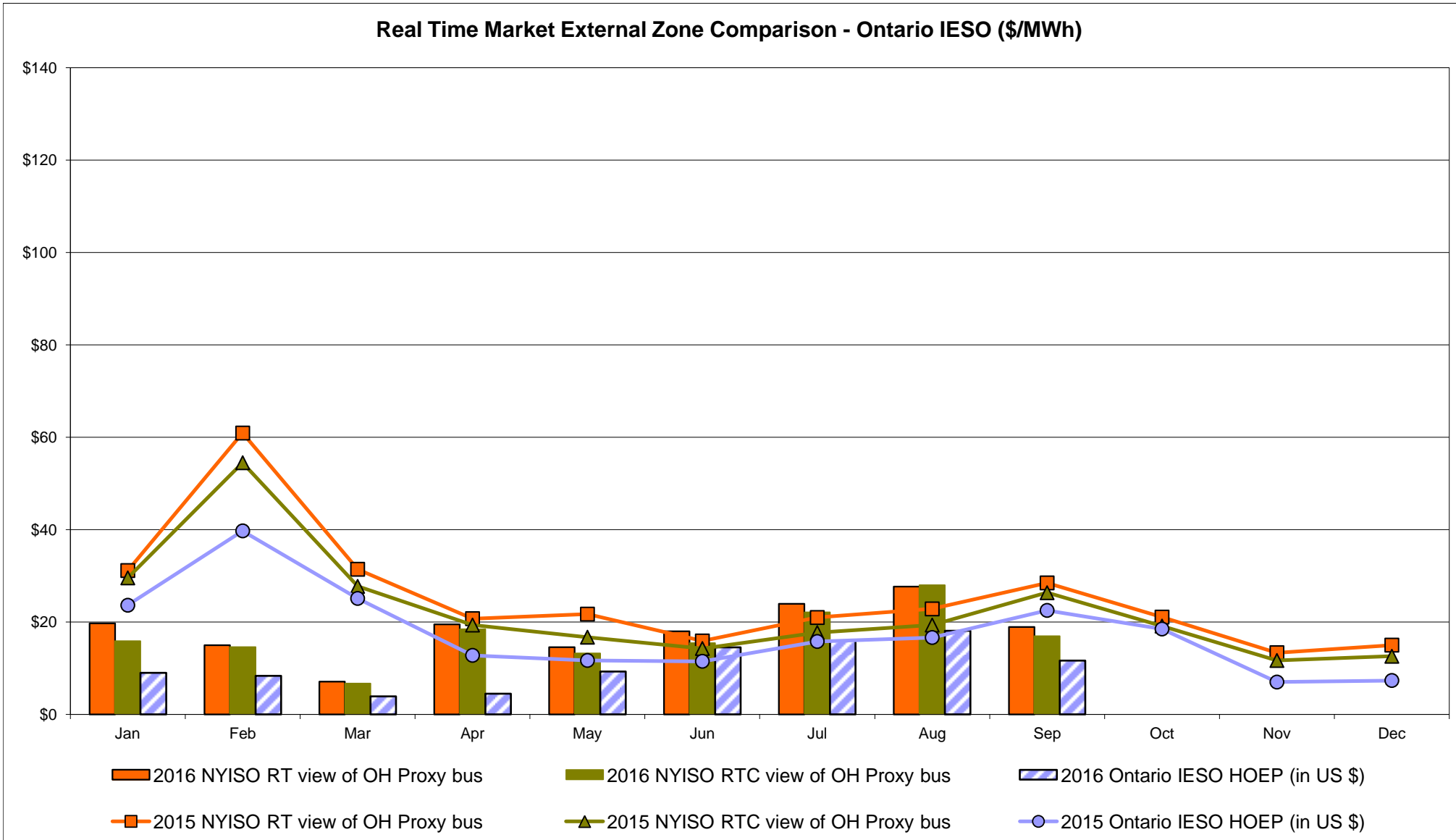
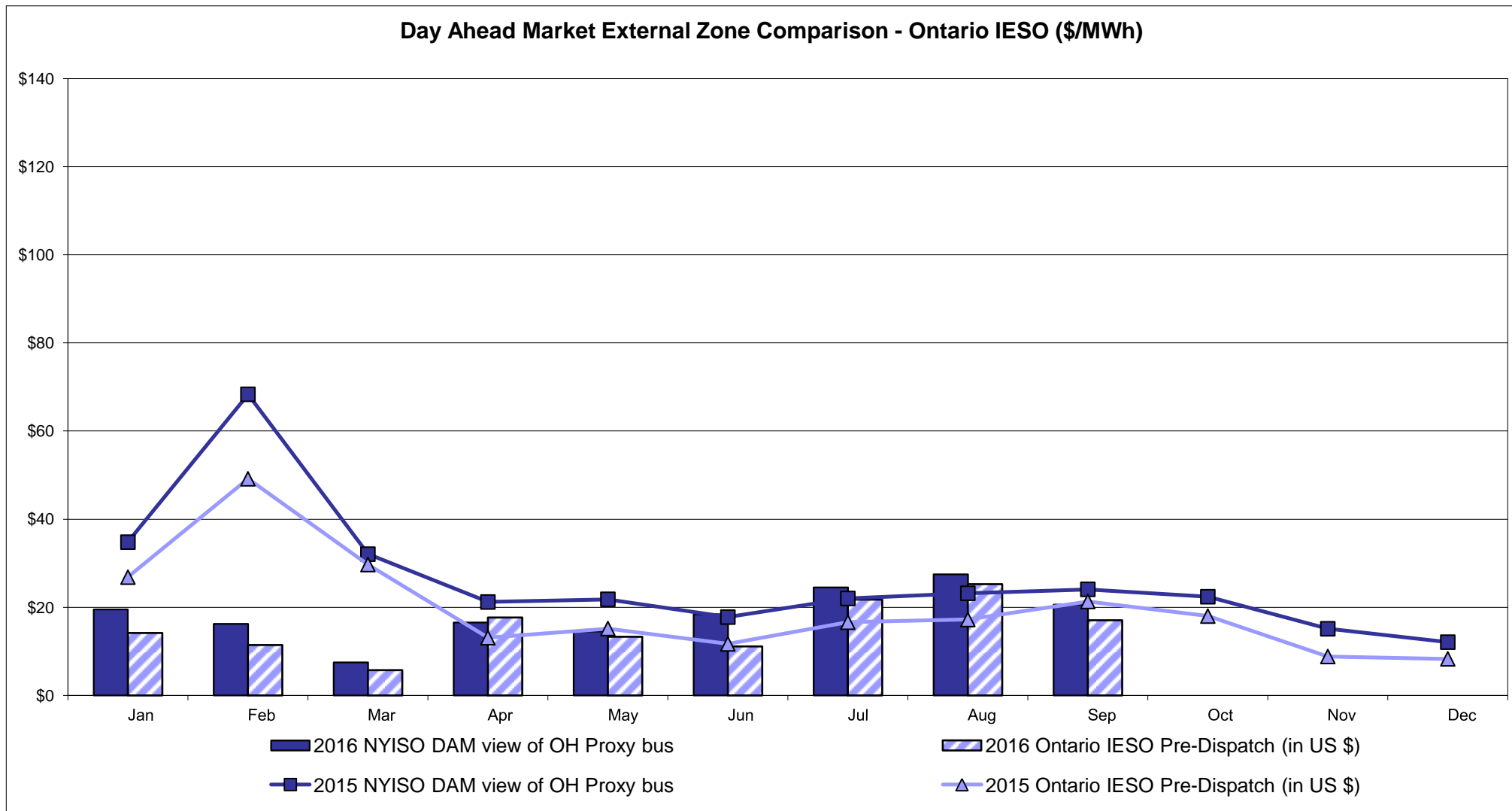
## Day Ahead Market External Zone Comparison - PJM (\$/MWh)



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



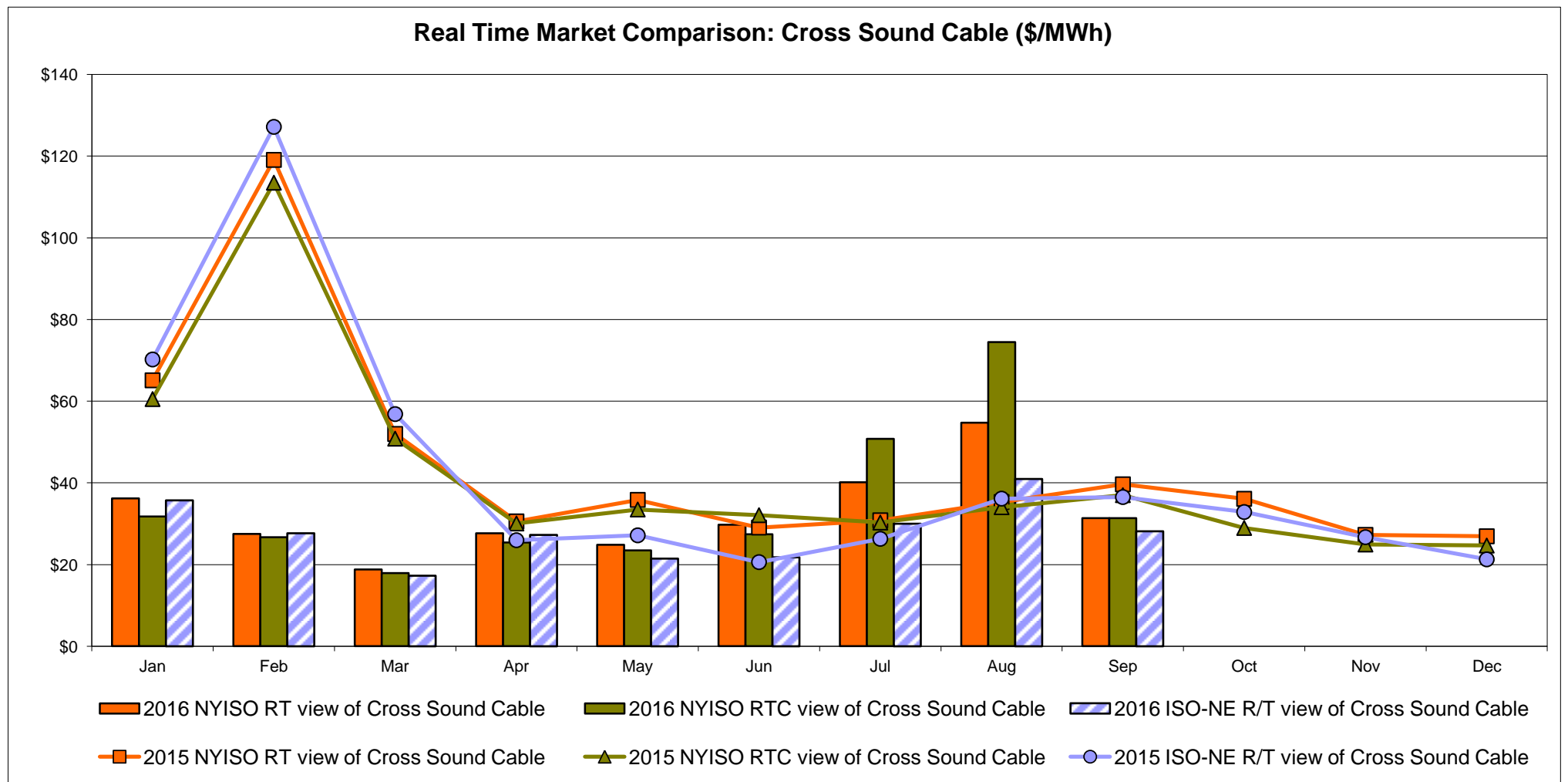
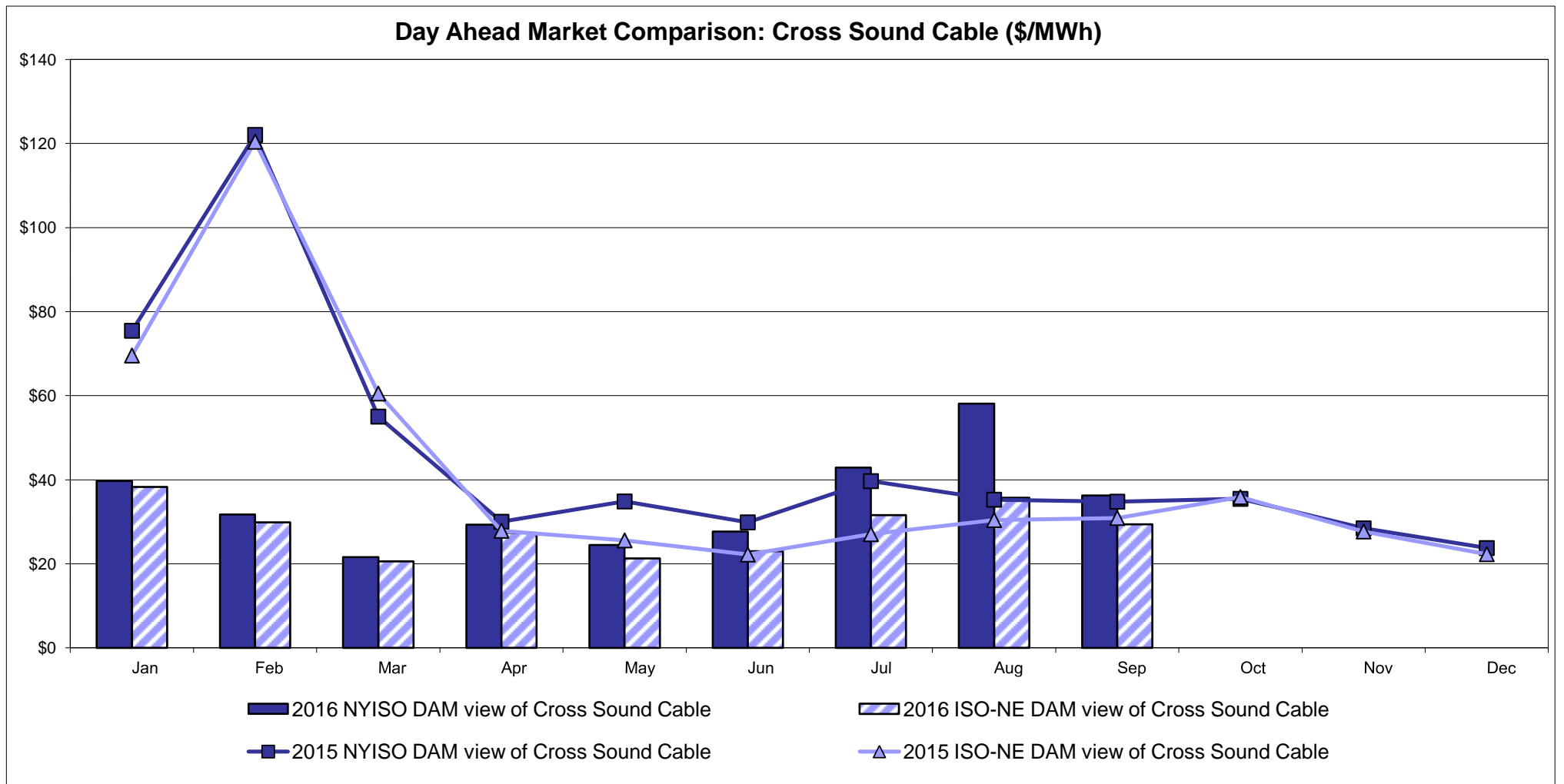
# External Comparison Ontario IESO



Notes: Exchange factor used for September 2016 was 0.762893 to US  
 HOEP: Hourly Ontario Energy Price  
 Pre-Dispatch: Projected Energy Price

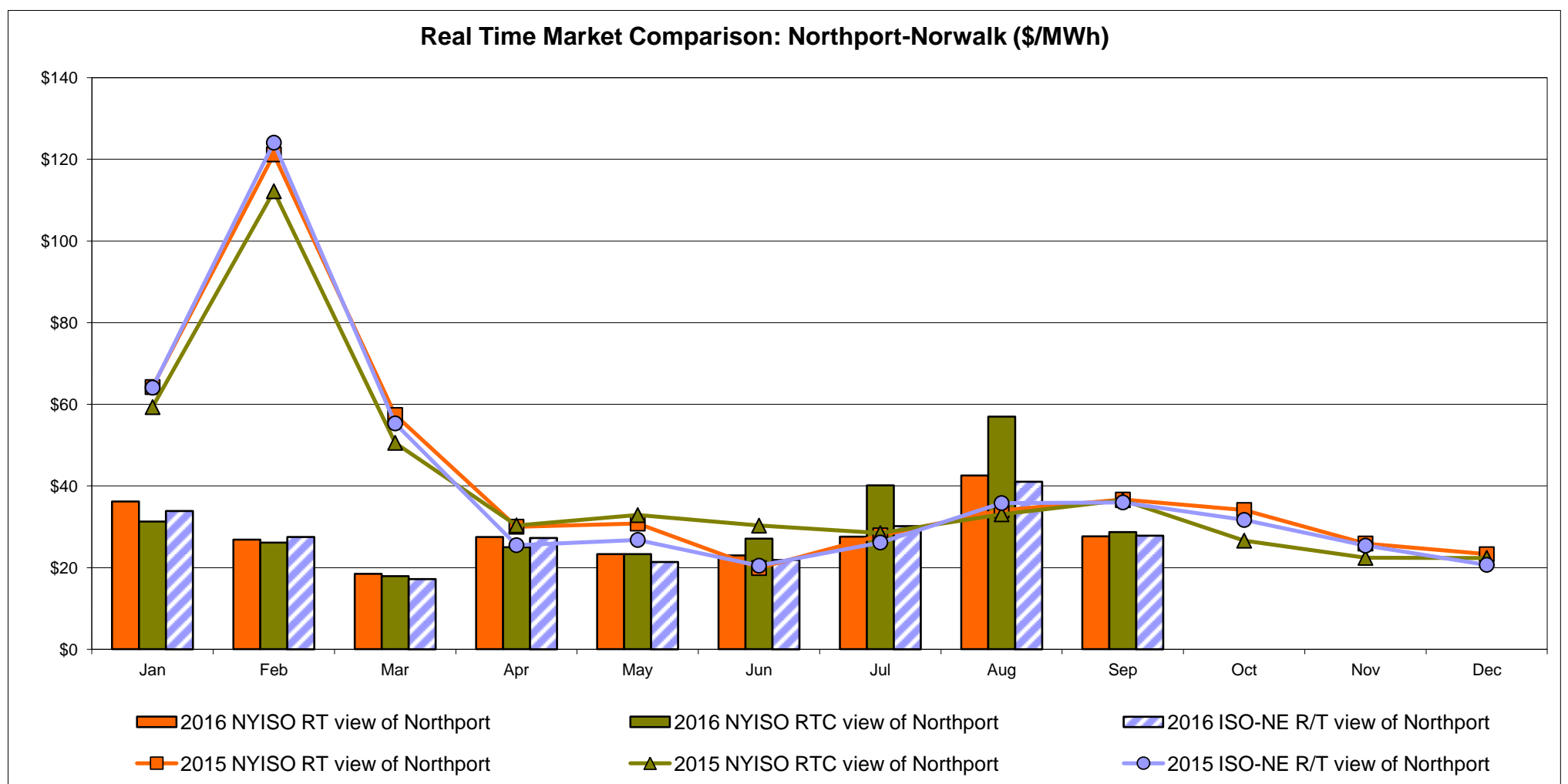
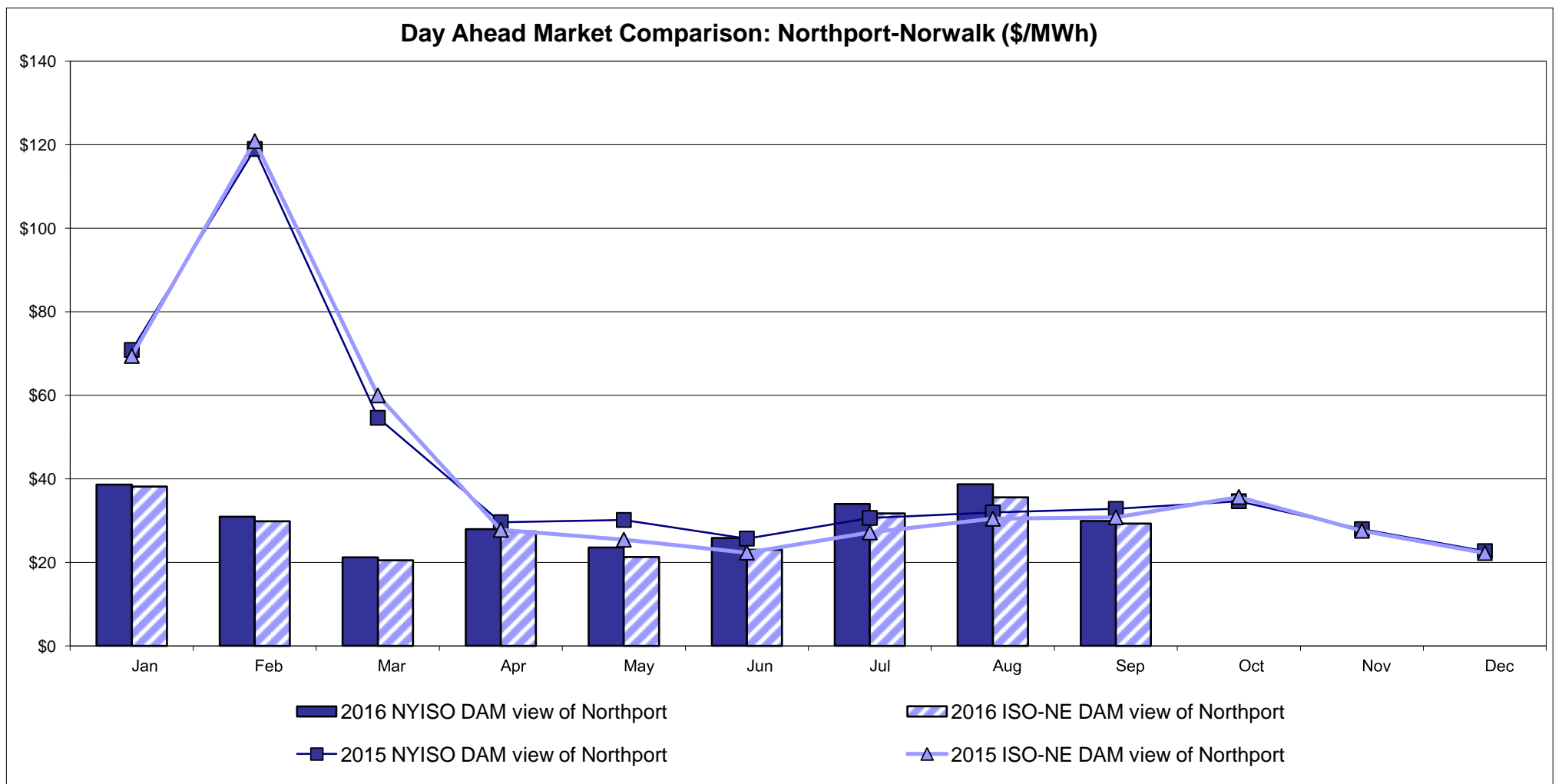


# External Controllable Line: Cross Sound Cable (New England)



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.

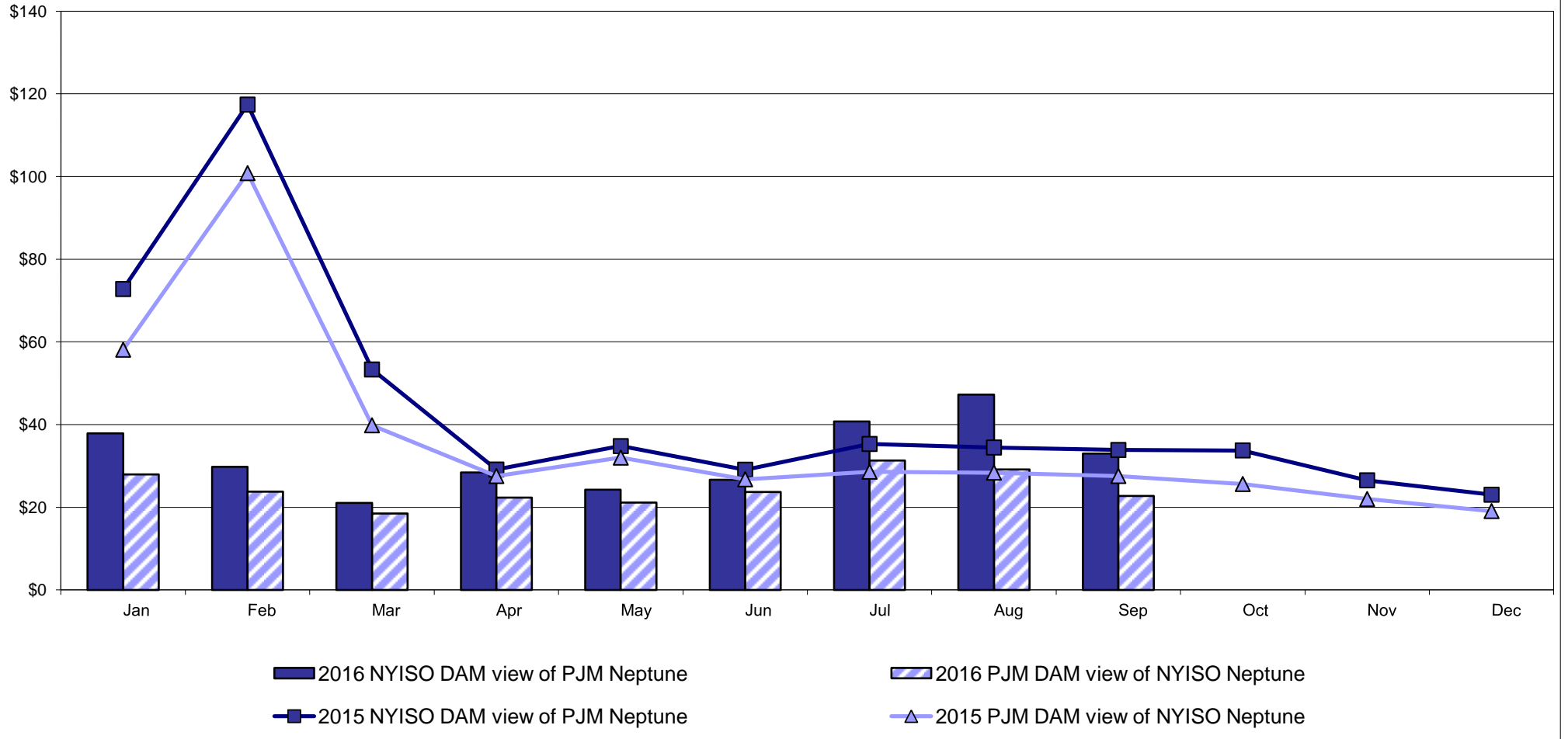
# External Controllable Line: Northport - Norwalk (New England)



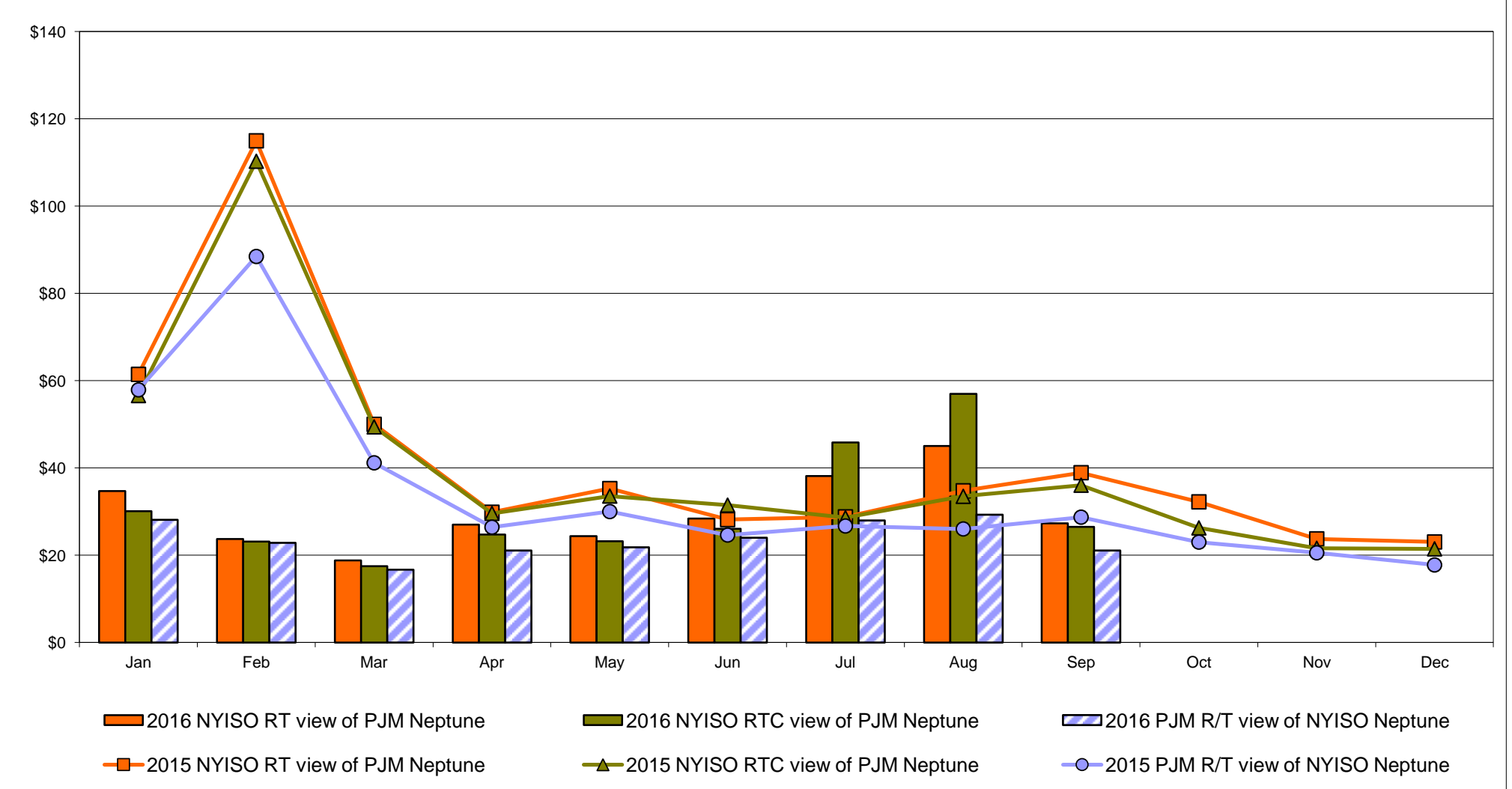
Note:  
 ISO-NE Forecast is an advisory posting @ 18:00 day before.  
 The DAM and R/T prices at the Northport 138 interface are used for ISO-NE.  
 The DAM and R/T prices at the 1385 interface are used for NYISO.

# External Controllable Line: Neptune (PJM)

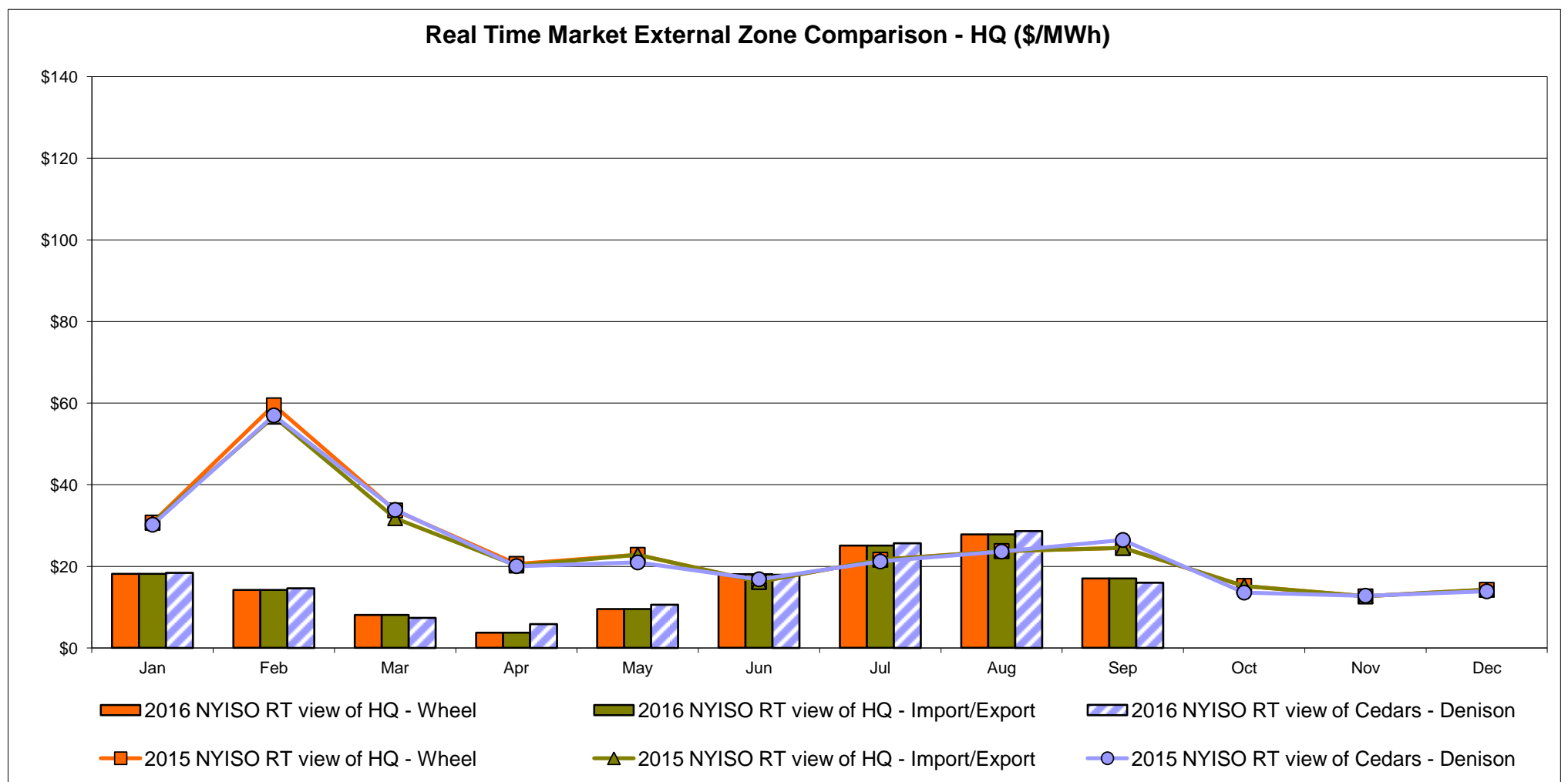
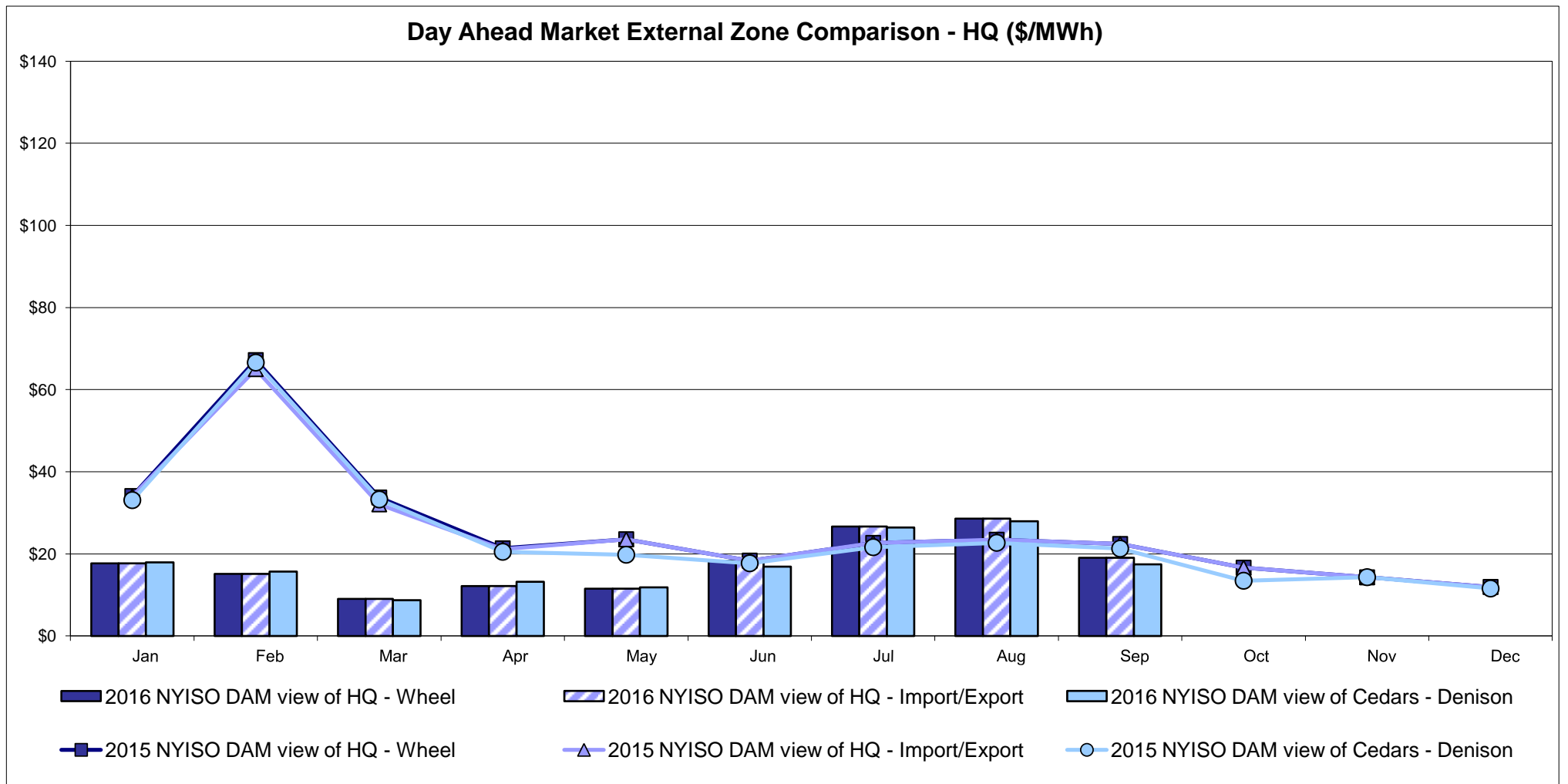
## Day Ahead Market Comparison: Neptune (\$/MWh)



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

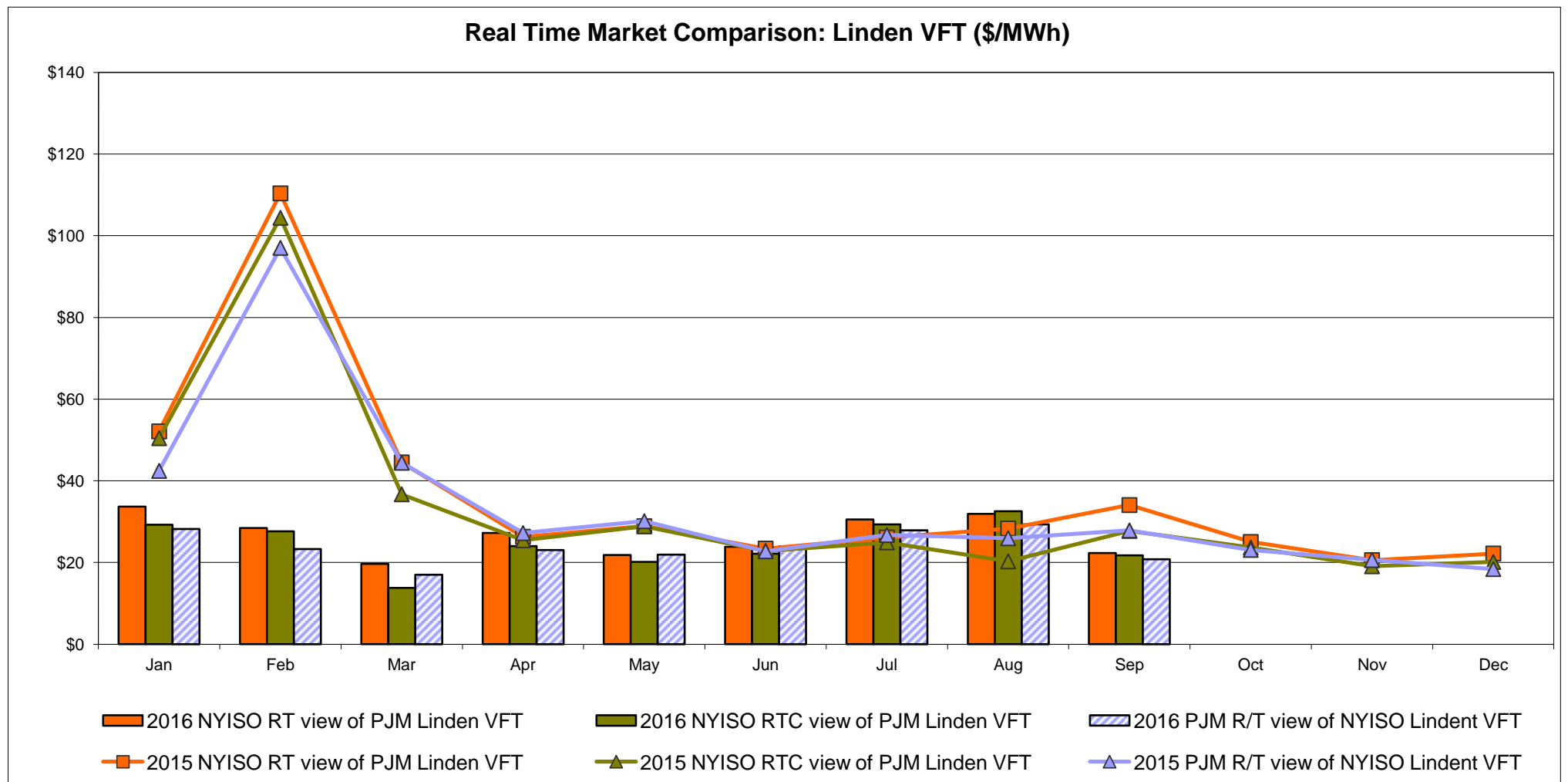
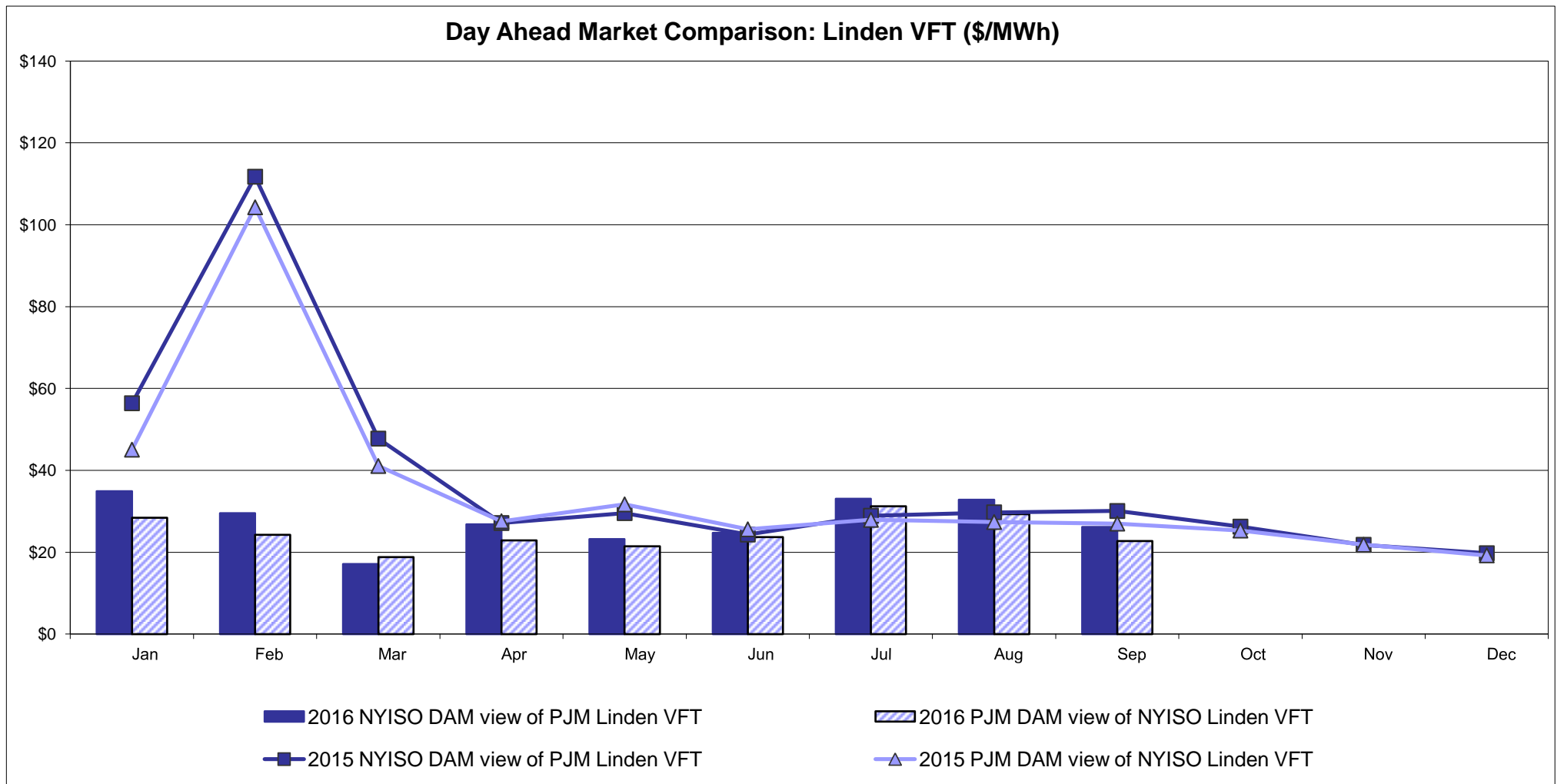


# External Comparison Hydro-Quebec

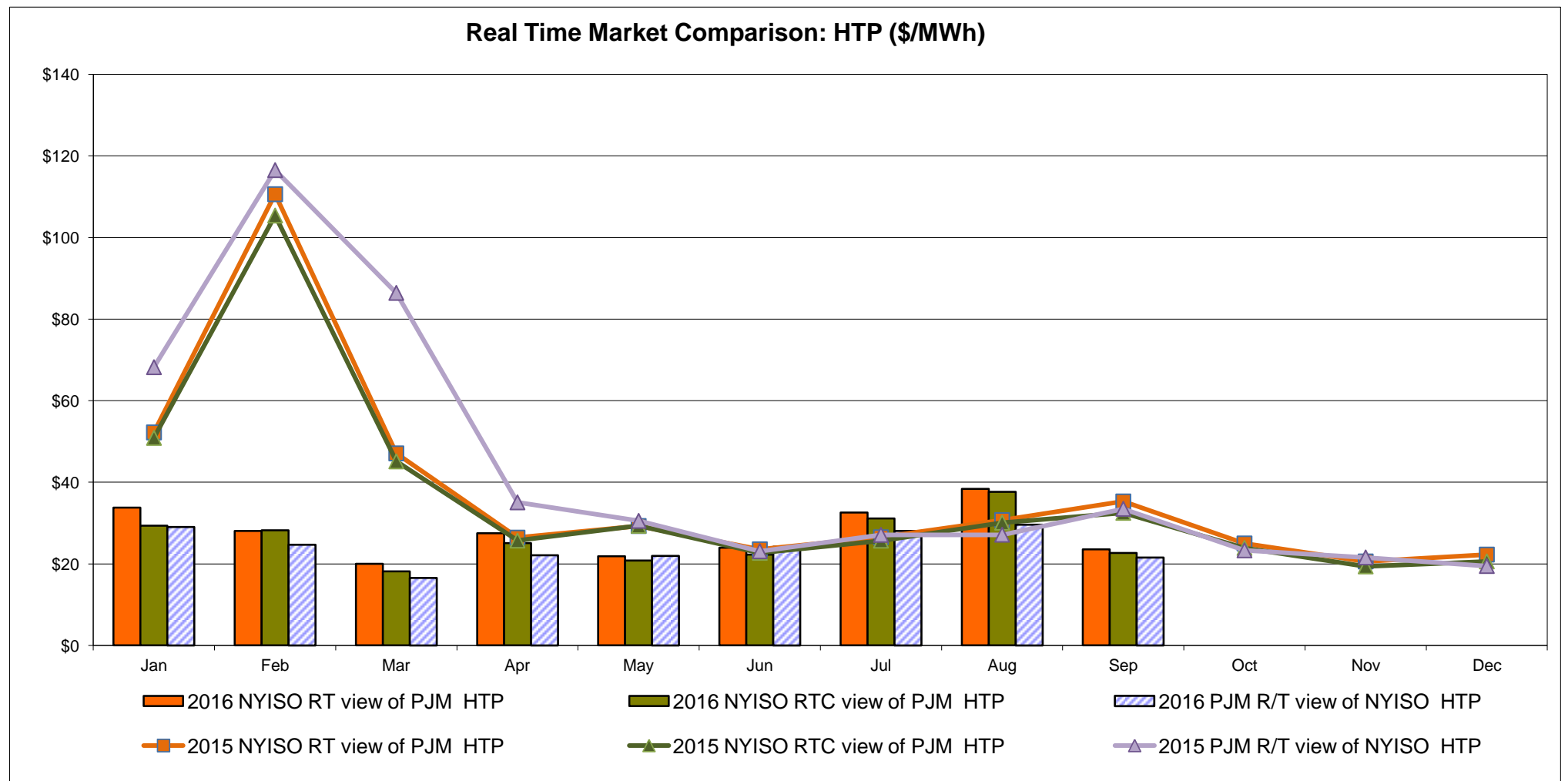
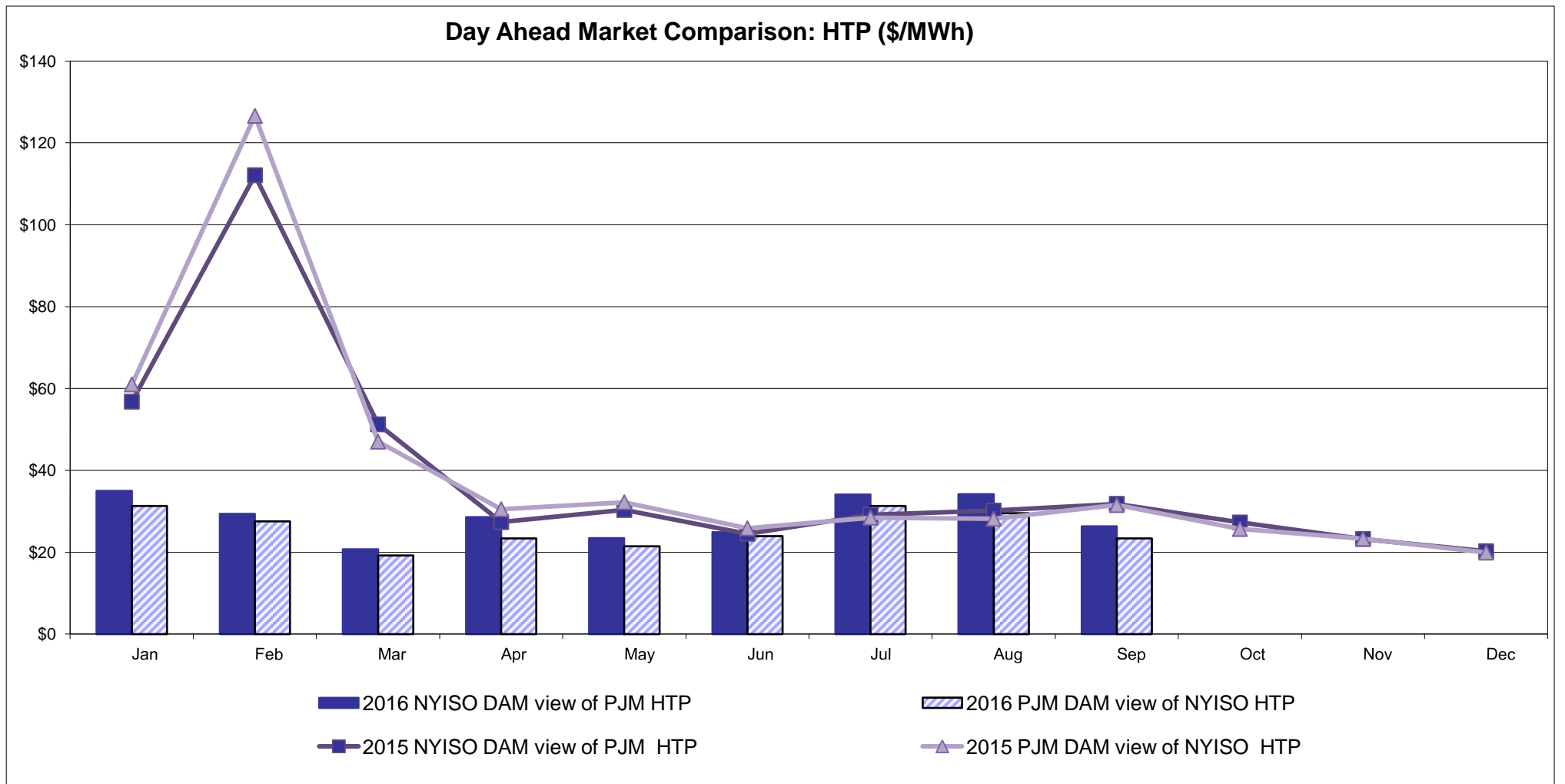


Note:  
Hydro-Quebec Prices are unavailable.

## External Controllable Line: Linden VFT (PJM)



## External Controllable Line: Hudson (PJM)

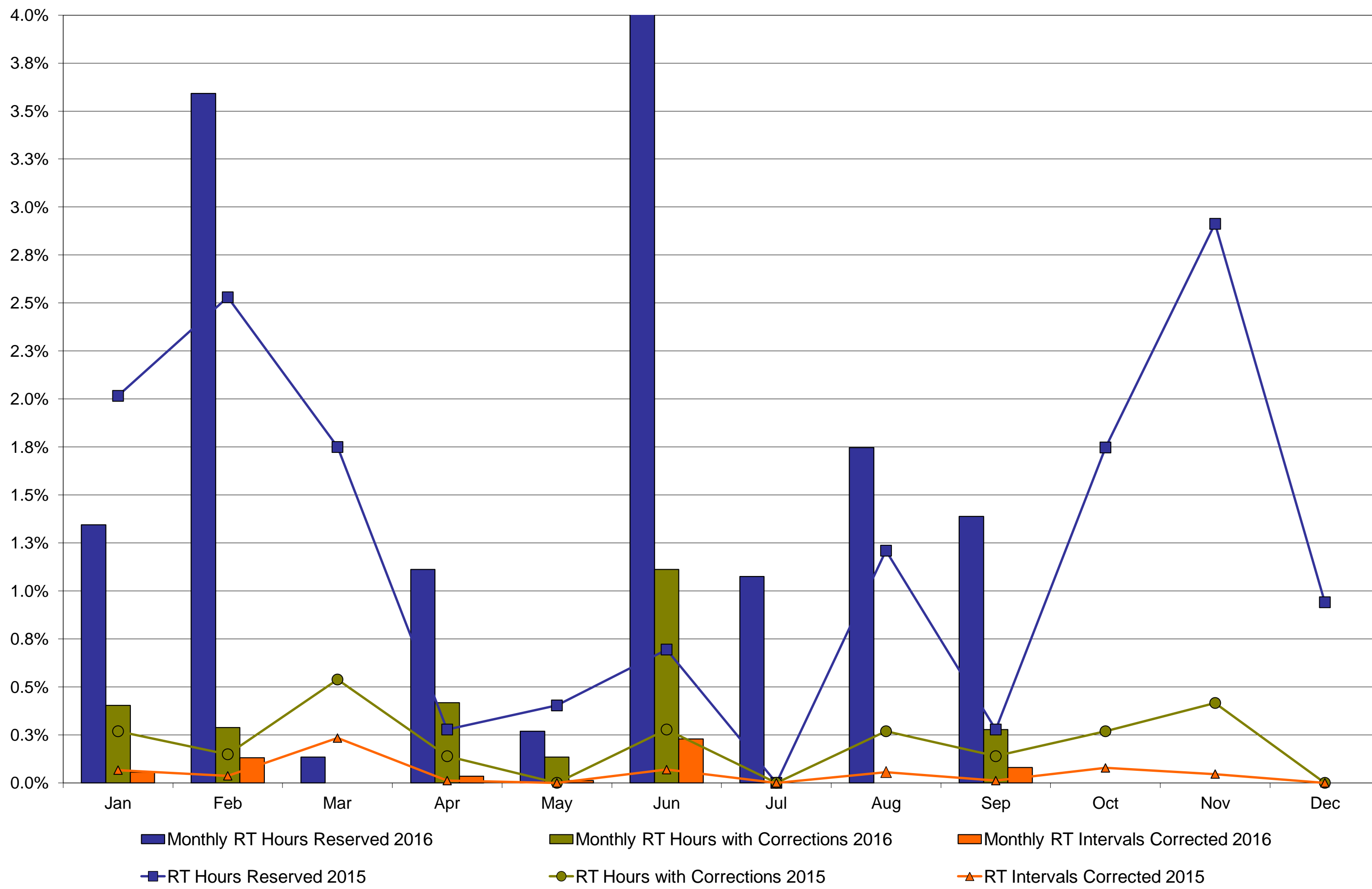


### NYISO Real Time Price Correction Statistics

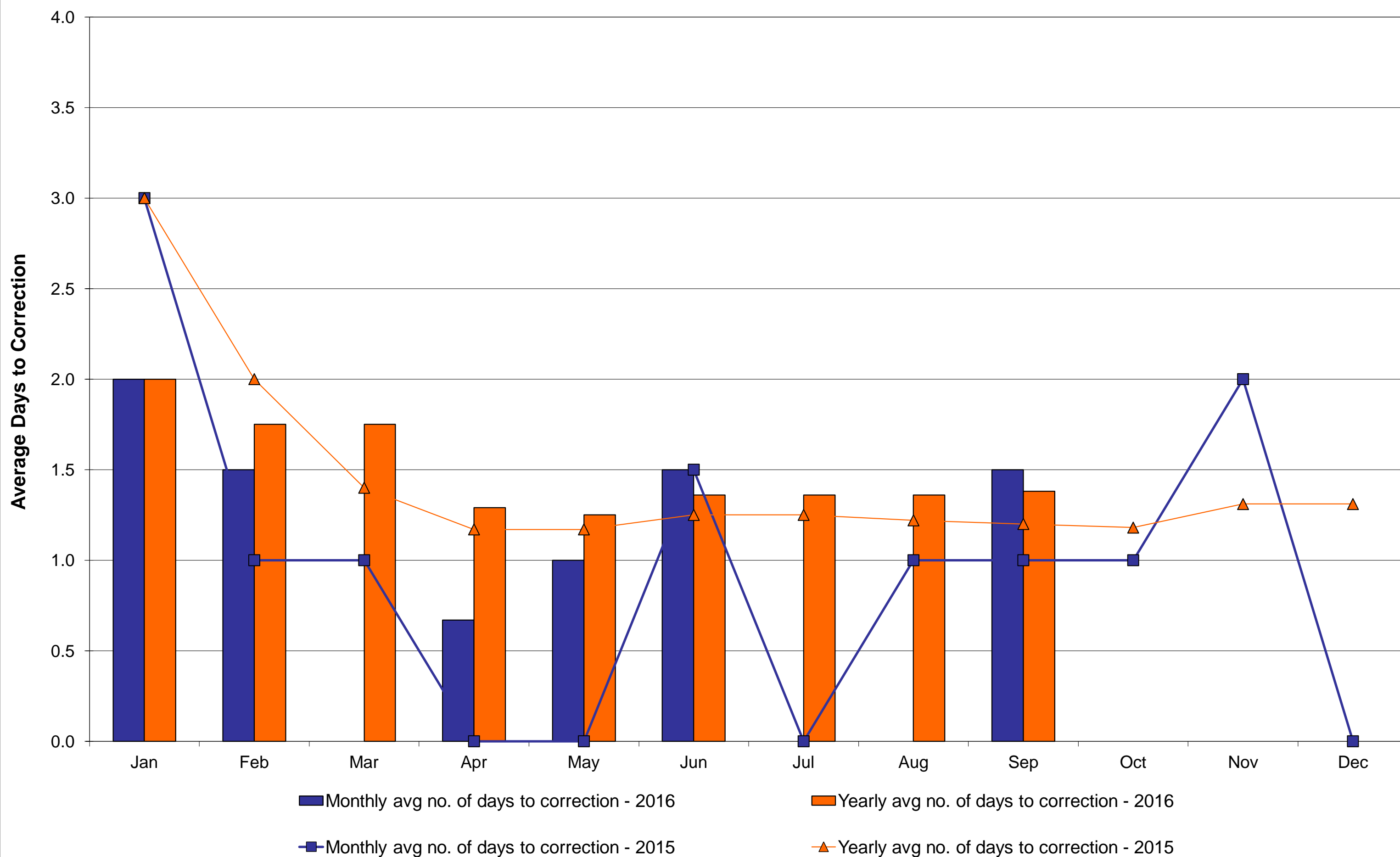
| 2016                              |              | January | February | March | April | May   | June  | July  | August | September | October | November | December |
|-----------------------------------|--------------|---------|----------|-------|-------|-------|-------|-------|--------|-----------|---------|----------|----------|
| <b>Hour Corrections</b>           |              |         |          |       |       |       |       |       |        |           |         |          |          |
| Number of hours with corrections  | in the month | 3       | 2        | 0     | 3     | 1     | 8     | 0     | 0      | 2         |         |          |          |
| Number of hours                   | in the month | 744     | 696      | 743   | 720   | 744   | 720   | 744   | 744    | 720       |         |          |          |
| % of hours with corrections       | in the month | 0.40%   | 0.29%    | 0.00% | 0.42% | 0.13% | 1.11% | 0.00% | 0.00%  | 0.28%     |         |          |          |
| % of hours with corrections       | year-to-date | 0.40%   | 0.35%    | 0.23% | 0.28% | 0.25% | 0.39% | 0.33% | 0.29%  | 0.29%     |         |          |          |
| <b>Interval Corrections</b>       |              |         |          |       |       |       |       |       |        |           |         |          |          |
| Number of intervals corrected     | in the month | 5       | 11       | 0     | 3     | 1     | 20    | 0     | 0      | 7         |         |          |          |
| Number of intervals               | in the month | 9,000   | 8,440    | 8,995 | 8,724 | 8,987 | 8,725 | 9,038 | 9,048  | 8,713     |         |          |          |
| % of intervals corrected          | in the month | 0.06%   | 0.13%    | 0.00% | 0.03% | 0.01% | 0.23% | 0.00% | 0.00%  | 0.08%     |         |          |          |
| % of intervals corrected          | year-to-date | 0.06%   | 0.09%    | 0.06% | 0.05% | 0.05% | 0.08% | 0.06% | 0.06%  | 0.06%     |         |          |          |
| <b>Hours Reserved</b>             |              |         |          |       |       |       |       |       |        |           |         |          |          |
| Number of hours reserved          | in the month | 10      | 25       | 1     | 8     | 2     | 32    | 8     | 13     | 10        |         |          |          |
| Number of hours                   | in the month | 744     | 696      | 743   | 720   | 744   | 720   | 744   | 744    | 720       |         |          |          |
| % of hours reserved               | in the month | 1.34%   | 3.59%    | 0.13% | 1.11% | 0.27% | 4.44% | 1.08% | 1.75%  | 1.39%     |         |          |          |
| % of hours reserved               | year-to-date | 1.34%   | 2.43%    | 1.65% | 1.52% | 1.26% | 1.79% | 1.68% | 1.69%  | 1.66%     |         |          |          |
| <b>Days to Correction *</b>       |              |         |          |       |       |       |       |       |        |           |         |          |          |
| Avg. number of days to correction | in the month | 2.00    | 1.50     | 0.00  | 0.67  | 1.00  | 1.50  | 0.00  | 0.00   | 1.50      |         |          |          |
| Avg. number of days to correction | year-to-date | 2.00    | 1.75     | 1.75  | 1.29  | 1.25  | 1.36  | 1.36  | 1.36   | 1.38      |         |          |          |
| <b>Days Without Corrections</b>   |              |         |          |       |       |       |       |       |        |           |         |          |          |
| Days without corrections          | in the month | 29      | 27       | 31    | 27    | 30    | 24    | 31    | 31     | 28        |         |          |          |
| Days without corrections          | year-to-date | 29      | 56       | 87    | 114   | 144   | 168   | 199   | 230    | 258       |         |          |          |
| 2015                              |              | January | February | March | April | May   | June  | July  | August | September | October | November | December |
| <b>Hour Corrections</b>           |              |         |          |       |       |       |       |       |        |           |         |          |          |
| Number of hours with corrections  | in the month | 2       | 1        | 4     | 1     | 0     | 2     | 0     | 2      | 1         | 2       | 3        | 0        |
| 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 | 0.27%   | 0.15%    | 0.54% | 0.14% | 0.00% | 0.28% | 0.00% | 0.27%  | 0.14%     | 0.27%   | 0.42%    | 0.00%    |
| % of hours with corrections       | year-to-date | 0.27%   | 0.21%    | 0.32% | 0.28% | 0.22% | 0.23% | 0.20% | 0.21%  | 0.20%     | 0.21%   | 0.22%    | 0.21%    |
| <b>Interval Corrections</b>       |              |         |          |       |       |       |       |       |        |           |         |          |          |
| Number of intervals corrected     | in the month | 6       | 3        | 21    | 1     | 0     | 6     | 0     | 5      | 1         | 7       | 4        | 0        |
| Number of intervals               | in the month | 9,066   | 8,231    | 9,005 | 8,696 | 9,032 | 8,731 | 9,025 | 8,987  | 8,728     | 9,008   | 8,743    | 8,975    |
| % of intervals corrected          | in the month | 0.07%   | 0.04%    | 0.23% | 0.01% | 0.00% | 0.07% | 0.00% | 0.06%  | 0.01%     | 0.08%   | 0.05%    | 0.00%    |
| % of intervals corrected          | year-to-date | 0.07%   | 0.05%    | 0.11% | 0.09% | 0.07% | 0.07% | 0.06% | 0.06%  | 0.05%     | 0.06%   | 0.06%    | 0.05%    |
| <b>Hours Reserved</b>             |              |         |          |       |       |       |       |       |        |           |         |          |          |
| Number of hours reserved          | in the month | 15      | 17       | 13    | 2     | 3     | 5     | 0     | 9      | 2         | 13      | 21       | 7        |
| Number of hours                   | in the month | 744     | 672      | 743   | 720   | 744   | 720   | 744   | 744    | 720       | 744     | 721      | 744      |
| % of hours reserved               | in the month | 2.02%   | 2.53%    | 1.75% | 0.28% | 0.40% | 0.69% | 0.00% | 1.21%  | 0.28%     | 1.75%   | 2.91%    | 0.94%    |
| % of hours reserved               | year-to-date | 2.02%   | 2.26%    | 2.08% | 1.63% | 1.38% | 1.27% | 1.08% | 1.10%  | 1.01%     | 1.08%   | 1.25%    | 1.22%    |
| <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  | 0.00  | 1.00   | 1.00      | 1.00    | 2.00     | 0.00     |
| Avg. number of days to correction | year-to-date | 3.00    | 2.00     | 1.40  | 1.17  | 1.17  | 1.25  | 1.25  | 1.22   | 1.20      | 1.18    | 1.31     | 1.31     |
| <b>Days Without Corrections</b>   |              |         |          |       |       |       |       |       |        |           |         |          |          |
| Days without corrections          | in the month | 30      | 27       | 28    | 29    | 31    | 28    | 31    | 30     | 29        | 30      | 28       | 31       |
| Days without corrections          | year-to-date | 30      | 57       | 85    | 114   | 145   | 173   | 204   | 234    | 263       | 293     | 321      | 352      |

\* Calendar days from reservation date.

### Percentage of Real-Time Corrections



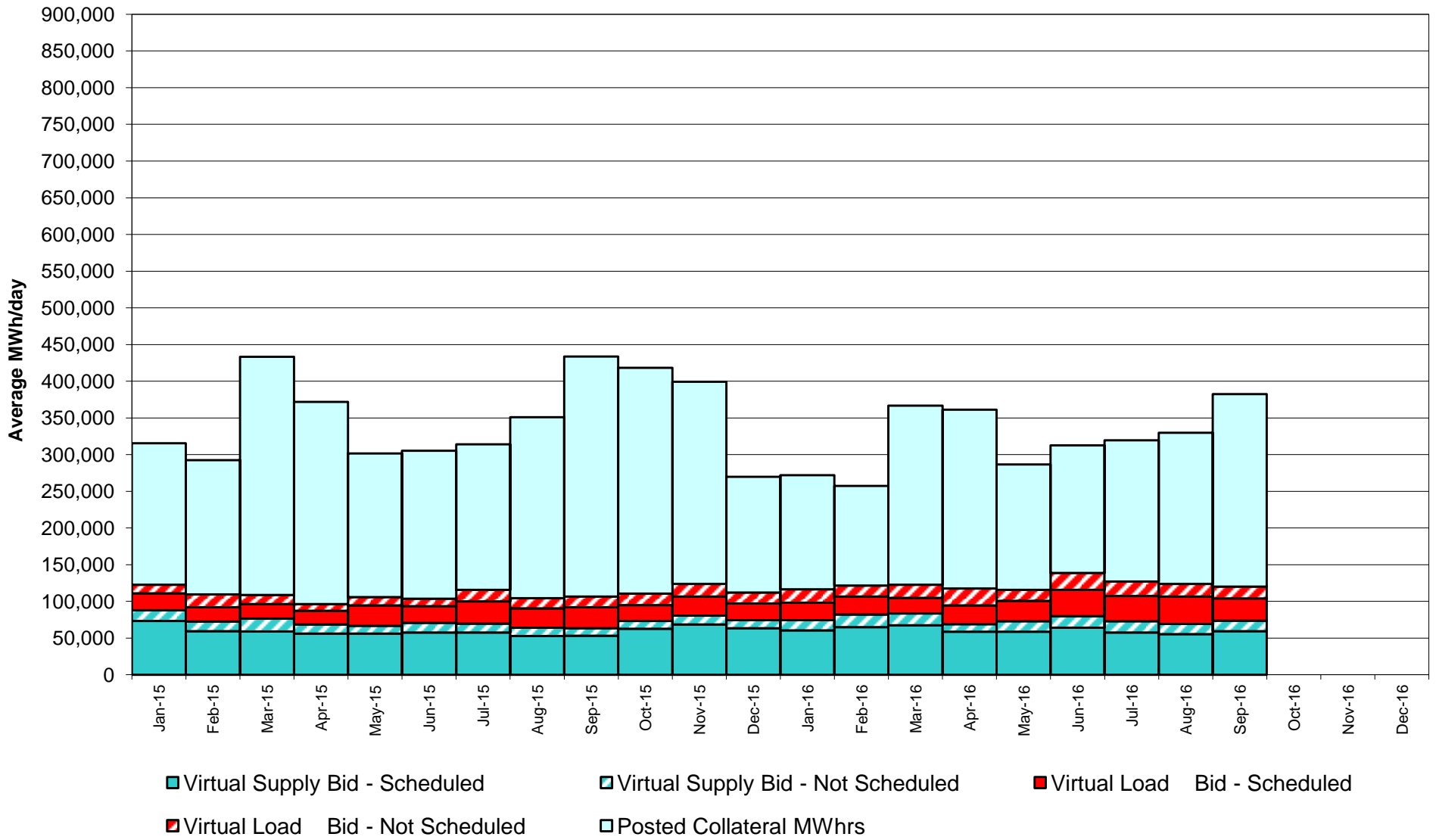
### Annual average time period for making Price Corrections (from reservation date) \*



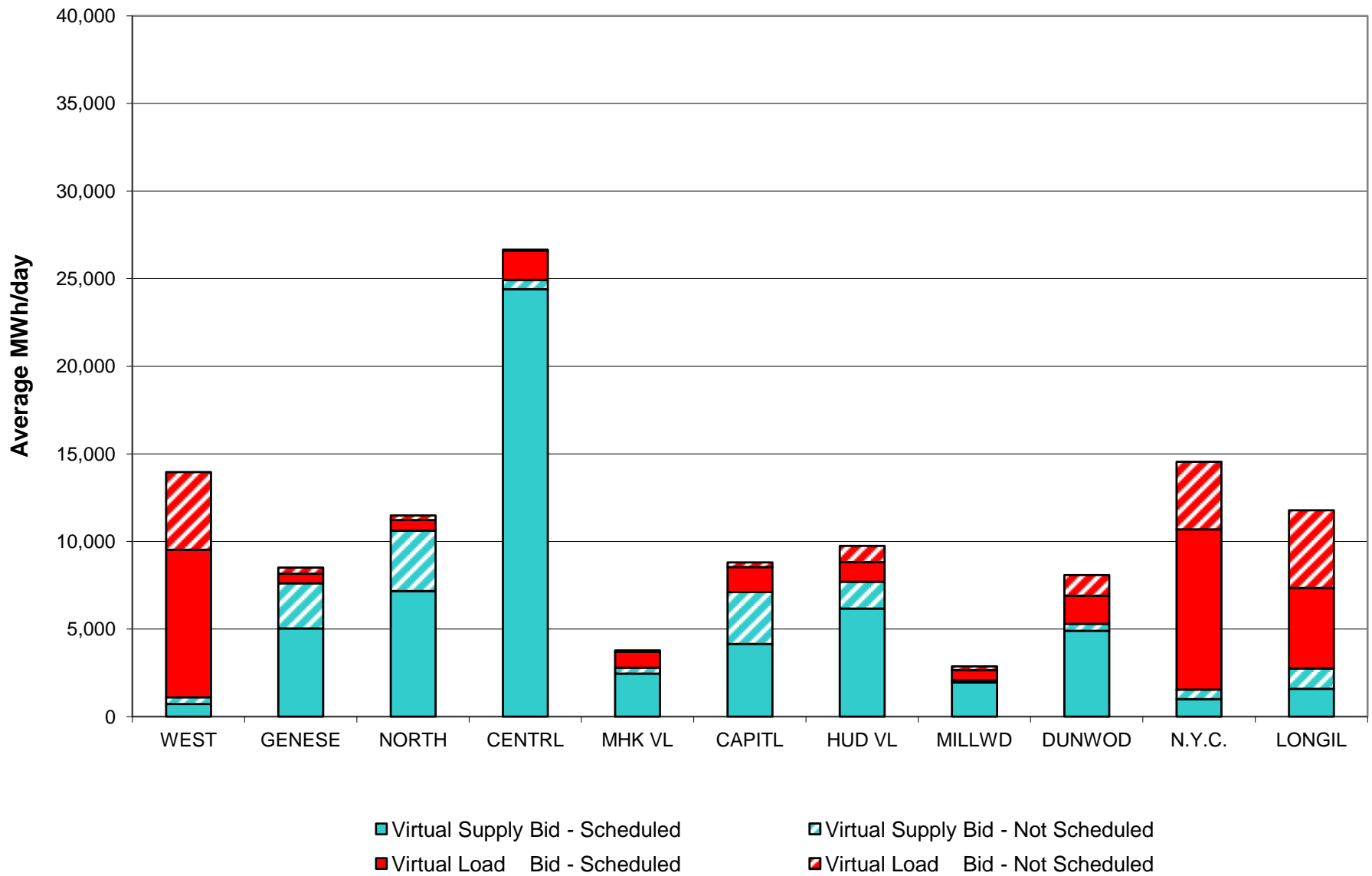
\* Calendar days from reservation date.



## NYISO Virtual Trading Average MWh per day



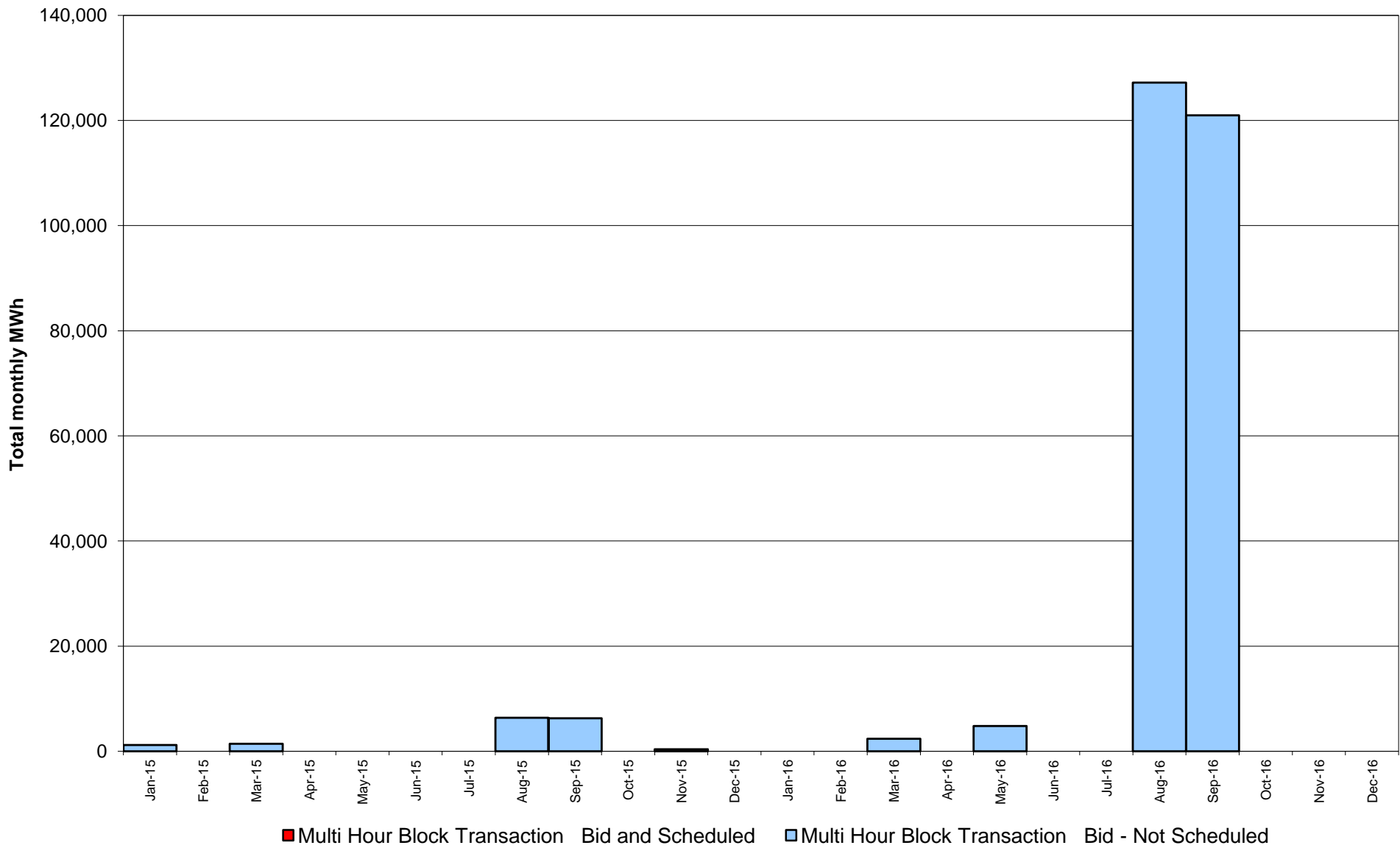
### Virtual Load and Supply Zonal Statistics through September 30, 2016



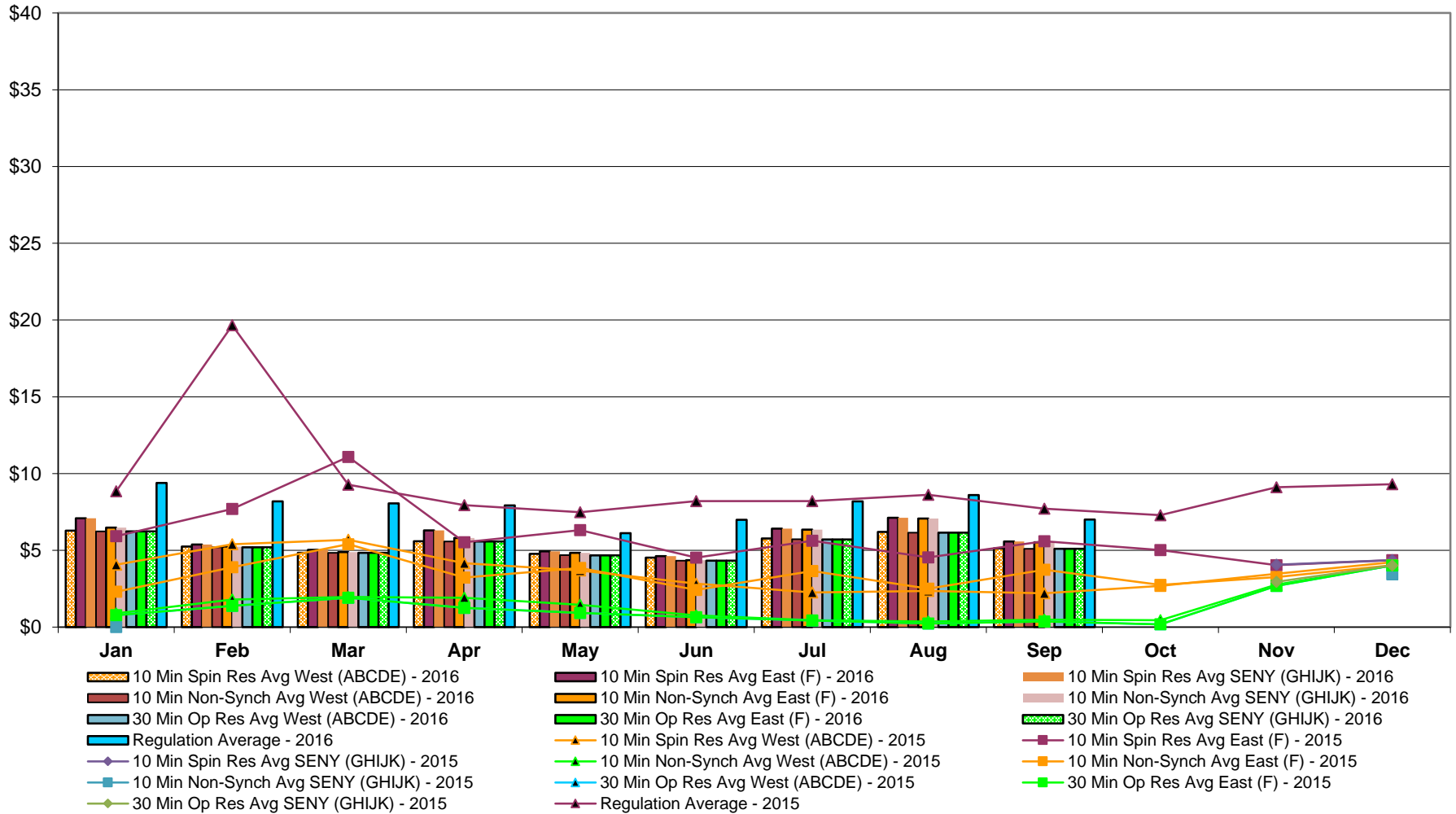
**Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2016**

|               |        | 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-16 | 8,416            | 4,440         | 2,862              | 419           | <b>MHK VL</b> | Jan-16 | 463              | 92            | 2,024              | 146           | <b>DUNWOD</b> | Jan-16 | 402              | 216           | 3,262              | 61            |
|               | Feb-16 | 7,967            | 3,554         | 2,706              | 521           |               | Feb-16 | 544              | 80            | 2,329              | 611           |               | Feb-16 | 803              | 185           | 3,555              | 269           |
|               | Mar-16 | 7,947            | 7,233         | 2,564              | 720           |               | Mar-16 | 440              | 49            | 2,695              | 931           |               | Mar-16 | 460              | 100           | 4,207              | 304           |
|               | Apr-16 | 11,544           | 10,793        | 1,645              | 263           |               | Apr-16 | 735              | 55            | 2,236              | 317           |               | Apr-16 | 277              | 48            | 4,840              | 190           |
|               | May-16 | 8,896            | 4,966         | 2,511              | 678           |               | May-16 | 673              | 33            | 2,036              | 588           |               | May-16 | 660              | 435           | 6,261              | 431           |
|               | Jun-16 | 13,365           | 10,864        | 1,364              | 609           |               | Jun-16 | 605              | 139           | 2,887              | 447           |               | Jun-16 | 996              | 208           | 4,433              | 347           |
|               | Jul-16 | 8,357            | 6,943         | 2,167              | 612           |               | Jul-16 | 830              | 123           | 3,170              | 244           |               | Jul-16 | 1,953            | 578           | 4,363              | 313           |
|               | Aug-16 | 9,364            | 5,185         | 1,663              | 391           |               | Aug-16 | 1,071            | 52            | 2,517              | 144           |               | Aug-16 | 2,194            | 450           | 5,201              | 174           |
|               | Sep-16 | 8,425            | 4,437         | 717                | 386           |               | Sep-16 | 913              | 68            | 2,453              | 345           |               | Sep-16 | 1,617            | 1,167         | 4,907              | 386           |
|               | Oct-16 |                  |               |                    |               |               | Oct-16 |                  |               |                    |               |               | Oct-16 |                  |               |                    |               |
|               | Nov-16 |                  |               |                    |               |               | Nov-16 |                  |               |                    |               |               | Nov-16 |                  |               |                    |               |
|               | Dec-16 |                  |               |                    |               |               | Dec-16 |                  |               |                    |               |               | Dec-16 |                  |               |                    |               |
| <b>GENESE</b> | Jan-16 | 1,030            | 638           | 3,868              | 2,421         | <b>CAPITL</b> | Jan-16 | 2,195            | 1,472         | 4,568              | 3,470         | <b>N.Y.C.</b> | Jan-16 | 2,862            | 4,976         | 2,531              | 648           |
|               | Feb-16 | 795              | 923           | 3,461              | 3,707         |               | Feb-16 | 1,593            | 684           | 5,140              | 3,581         |               | Feb-16 | 3,281            | 4,752         | 2,390              | 403           |
|               | Mar-16 | 824              | 1,113         | 5,340              | 3,764         |               | Mar-16 | 960              | 238           | 5,023              | 2,071         |               | Mar-16 | 1,838            | 4,229         | 1,239              | 748           |
|               | Apr-16 | 448              | 1,398         | 6,028              | 1,718         |               | Apr-16 | 1,410            | 198           | 6,433              | 1,645         |               | Apr-16 | 3,263            | 4,302         | 1,221              | 336           |
|               | May-16 | 411              | 125           | 3,793              | 2,664         |               | May-16 | 1,885            | 251           | 5,843              | 2,876         |               | May-16 | 4,517            | 3,352         | 1,425              | 472           |
|               | Jun-16 | 501              | 323           | 4,945              | 2,340         |               | Jun-16 | 959              | 119           | 6,428              | 4,625         |               | Jun-16 | 7,465            | 3,847         | 930                | 245           |
|               | Jul-16 | 615              | 312           | 3,785              | 2,492         |               | Jul-16 | 1,152            | 271           | 5,755              | 3,969         |               | Jul-16 | 10,899           | 3,980         | 692                | 341           |
|               | Aug-16 | 576              | 80            | 3,626              | 2,944         |               | Aug-16 | 964              | 274           | 5,085              | 3,917         |               | Aug-16 | 12,696           | 3,433         | 599                | 363           |
|               | Sep-16 | 533              | 355           | 5,036              | 2,580         |               | Sep-16 | 1,426            | 271           | 4,145              | 2,965         |               | Sep-16 | 9,145            | 3,857         | 1,003              | 539           |
|               | Oct-16 |                  |               |                    |               |               | Oct-16 |                  |               |                    |               |               | Oct-16 |                  |               |                    |               |
|               | Nov-16 |                  |               |                    |               |               | Nov-16 |                  |               |                    |               |               | Nov-16 |                  |               |                    |               |
|               | Dec-16 |                  |               |                    |               |               | Dec-16 |                  |               |                    |               |               | Dec-16 |                  |               |                    |               |
| <b>NORTH</b>  | Jan-16 | 274              | 312           | 7,038              | 3,010         | <b>HUD VL</b> | Jan-16 | 1,036            | 1,609         | 6,763              | 2,202         | <b>LONGIL</b> | Jan-16 | 6,153            | 3,761         | 700                | 985           |
|               | Feb-16 | 499              | 215           | 7,169              | 3,894         |               | Feb-16 | 1,008            | 1,135         | 9,550              | 3,078         |               | Feb-16 | 6,539            | 3,211         | 814                | 869           |
|               | Mar-16 | 338              | 107           | 6,127              | 4,874         |               | Mar-16 | 964              | 510           | 10,835             | 1,568         |               | Mar-16 | 6,305            | 3,906         | 1,090              | 411           |
|               | Apr-16 | 666              | 332           | 8,237              | 3,363         |               | Apr-16 | 821              | 1,176         | 9,231              | 1,566         |               | Apr-16 | 5,087            | 4,696         | 1,511              | 215           |
|               | May-16 | 556              | 157           | 6,029              | 4,034         |               | May-16 | 1,488            | 911           | 6,686              | 1,490         |               | May-16 | 5,837            | 4,419         | 1,331              | 431           |
|               | Jun-16 | 519              | 445           | 7,892              | 4,126         |               | Jun-16 | 1,392            | 1,684         | 7,583              | 1,398         |               | Jun-16 | 7,178            | 4,811         | 1,377              | 786           |
|               | Jul-16 | 517              | 310           | 5,791              | 3,043         |               | Jul-16 | 1,699            | 1,290         | 5,809              | 2,344         |               | Jul-16 | 5,383            | 5,288         | 1,195              | 1,215         |
|               | Aug-16 | 630              | 314           | 6,066              | 2,521         |               | Aug-16 | 2,064            | 1,663         | 4,961              | 1,948         |               | Aug-16 | 4,823            | 5,354         | 1,395              | 1,259         |
|               | Sep-16 | 602              | 270           | 7,162              | 3,455         |               | Sep-16 | 1,120            | 932           | 6,164              | 1,529         |               | Sep-16 | 4,604            | 4,432         | 1,590              | 1,159         |
|               | Oct-16 |                  |               |                    |               |               | Oct-16 |                  |               |                    |               |               | Oct-16 |                  |               |                    |               |
|               | Nov-16 |                  |               |                    |               |               | Nov-16 |                  |               |                    |               |               | Nov-16 |                  |               |                    |               |
|               | Dec-16 |                  |               |                    |               |               | Dec-16 |                  |               |                    |               |               | Dec-16 |                  |               |                    |               |
| <b>CENTRL</b> | Jan-16 | 954              | 502           | 25,792             | 259           | <b>MILLWD</b> | Jan-16 | 304              | 114           | 1,211              | 60            | <b>NYISO</b>  | Jan-16 | 24,086           | 18,132        | 60,619             | 13,680        |
|               | Feb-16 | 975              | 212           | 26,176             | 301           |               | Feb-16 | 403              | 145           | 1,477              | 100           |               | Feb-16 | 24,407           | 15,096        | 64,766             | 17,335        |
|               | Mar-16 | 1,076            | 70            | 26,818             | 564           |               | Mar-16 | 182              | 60            | 1,462              | 239           |               | Mar-16 | 21,332           | 17,615        | 67,399             | 16,195        |
|               | Apr-16 | 1,124            | 159           | 15,555             | 284           |               | Apr-16 | 186              | 26            | 1,913              | 101           |               | Apr-16 | 25,563           | 23,182        | 58,849             | 9,998         |
|               | May-16 | 2,369            | 250           | 21,046             | 367           |               | May-16 | 471              | 121           | 1,743              | 264           |               | May-16 | 27,763           | 15,021        | 58,704             | 14,296        |
|               | Jun-16 | 2,285            | 469           | 23,910             | 277           |               | Jun-16 | 489              | 121           | 2,582              | 449           |               | Jun-16 | 35,754           | 23,031        | 64,331             | 15,648        |
|               | Jul-16 | 2,117            | 385           | 22,271             | 529           |               | Jul-16 | 868              | 103           | 2,732              | 238           |               | Jul-16 | 34,388           | 19,583        | 57,728             | 15,341        |
|               | Aug-16 | 1,984            | 204           | 21,918             | 187           |               | Aug-16 | 894              | 234           | 2,267              | 104           |               | Aug-16 | 37,261           | 17,244        | 55,297             | 13,952        |
|               | Sep-16 | 1,645            | 75            | 24,400             | 529           |               | Sep-16 | 580              | 219           | 1,955              | 121           |               | Sep-16 | 30,611           | 16,083        | 59,531             | 13,992        |
|               | Oct-16 |                  |               |                    |               |               | Oct-16 |                  |               |                    |               |               | Oct-16 |                  |               |                    |               |
|               | Nov-16 |                  |               |                    |               |               | Nov-16 |                  |               |                    |               |               | Nov-16 |                  |               |                    |               |
|               | Dec-16 |                  |               |                    |               |               | Dec-16 |                  |               |                    |               |               | Dec-16 |                  |               |                    |               |

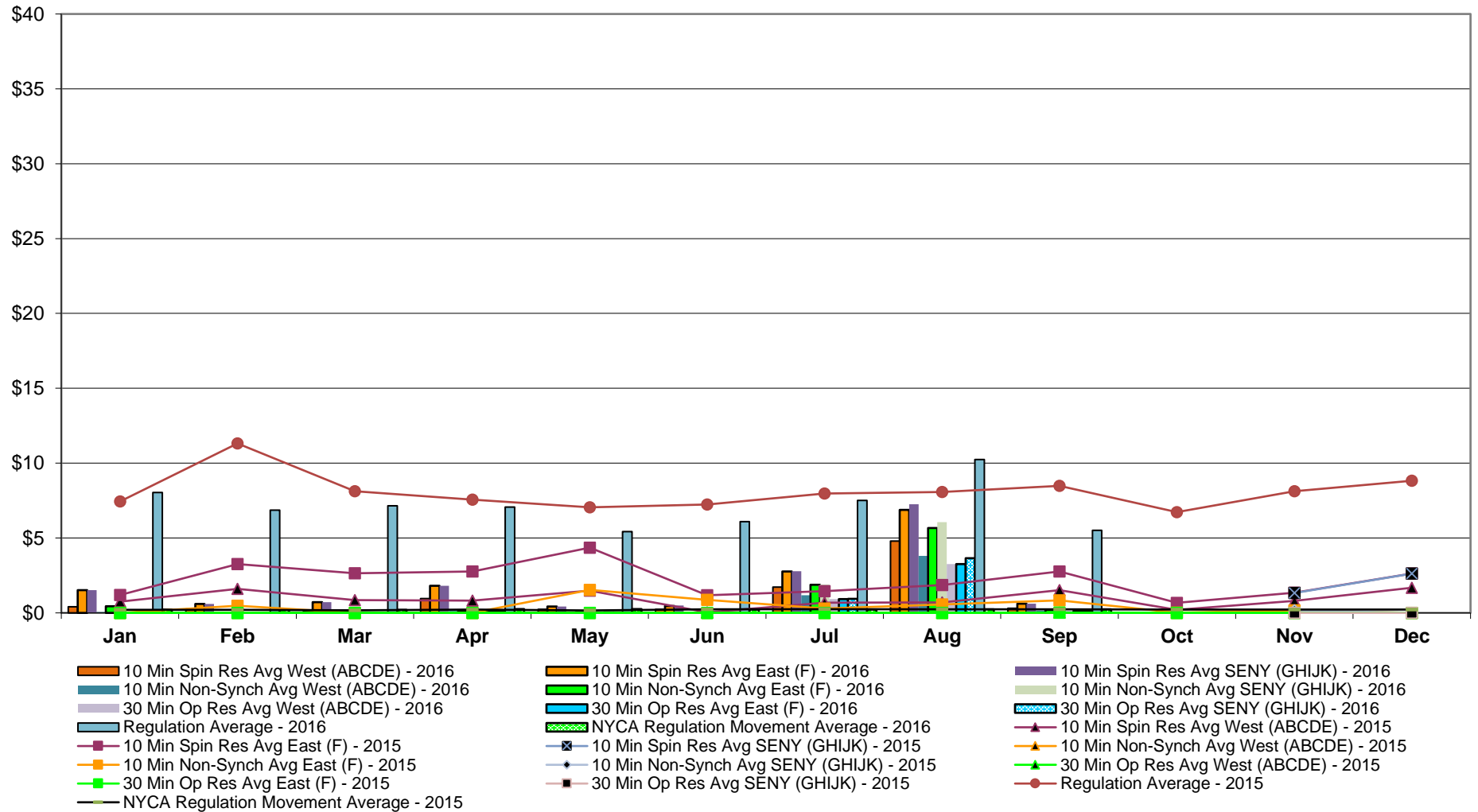
## NYISO Multi Hour Block Transactions Monthly Total MWh



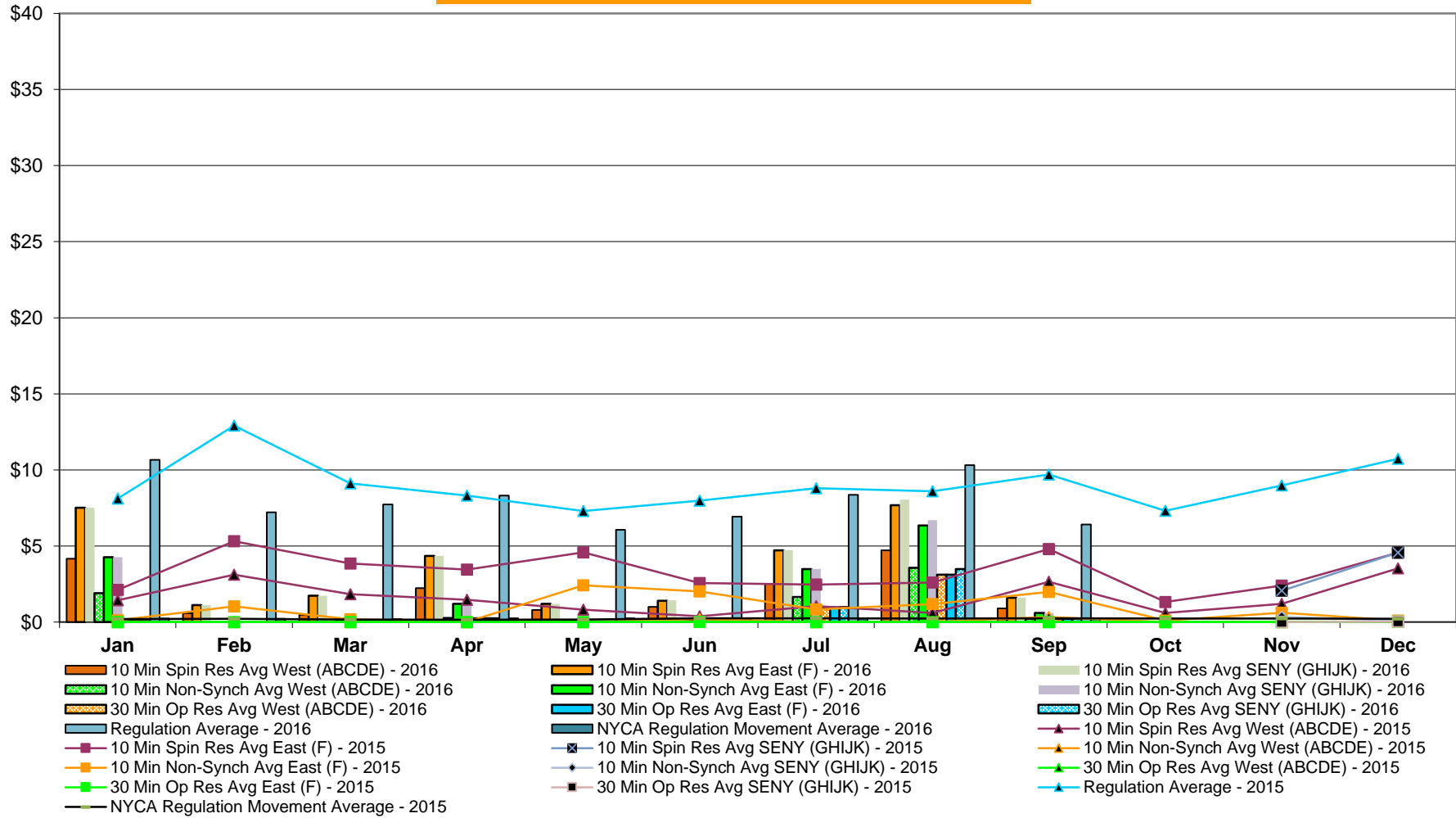
### NYISO Monthly Average Ancillary Service Prices Day Ahead Market 2015 - 2016



## NYISO Monthly Average Ancillary Service Prices RTC Market 2015 - 2016



### NYISO Monthly Average Ancillary Service Prices Real Time Market 2015 - 2016

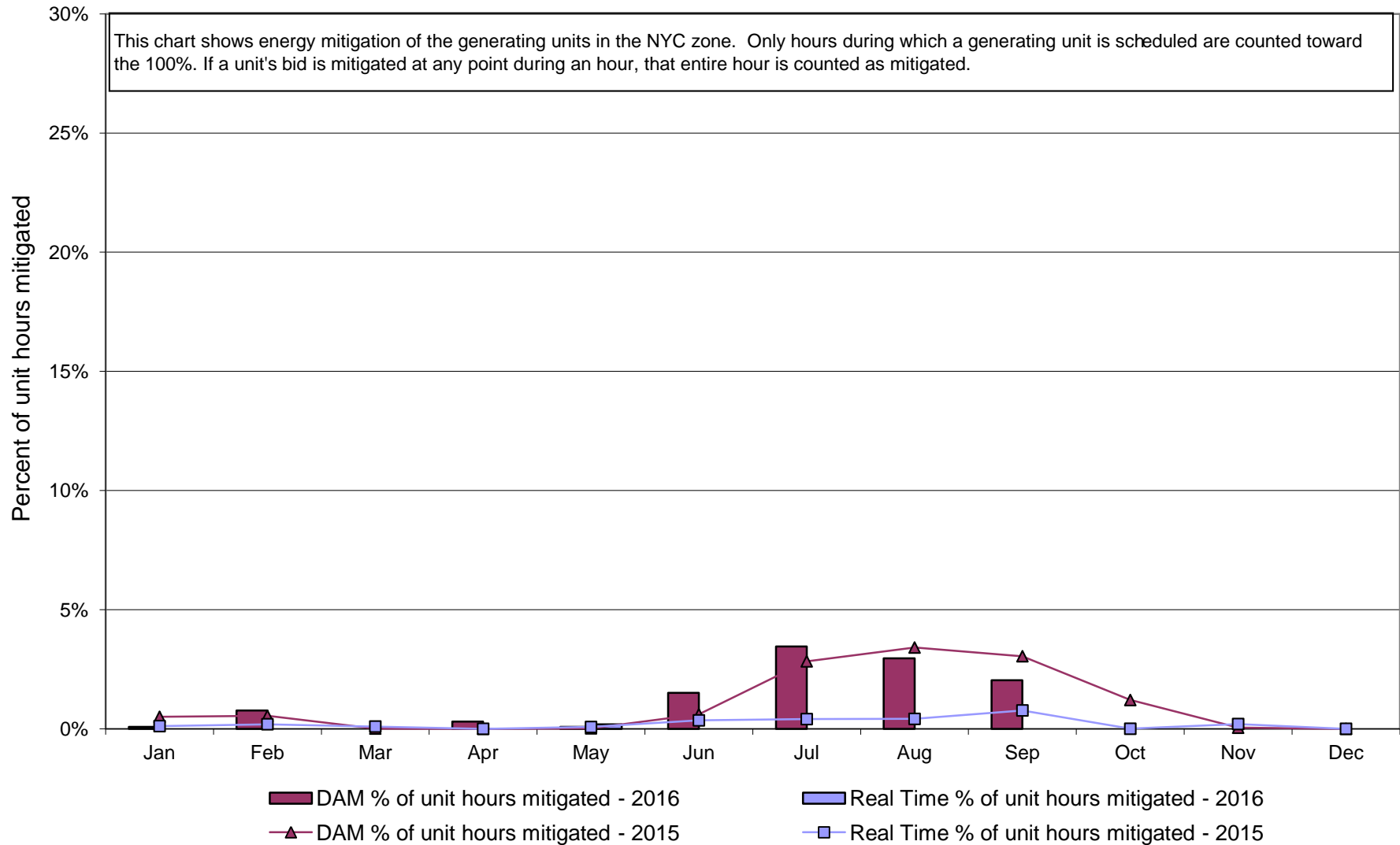


## NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH)

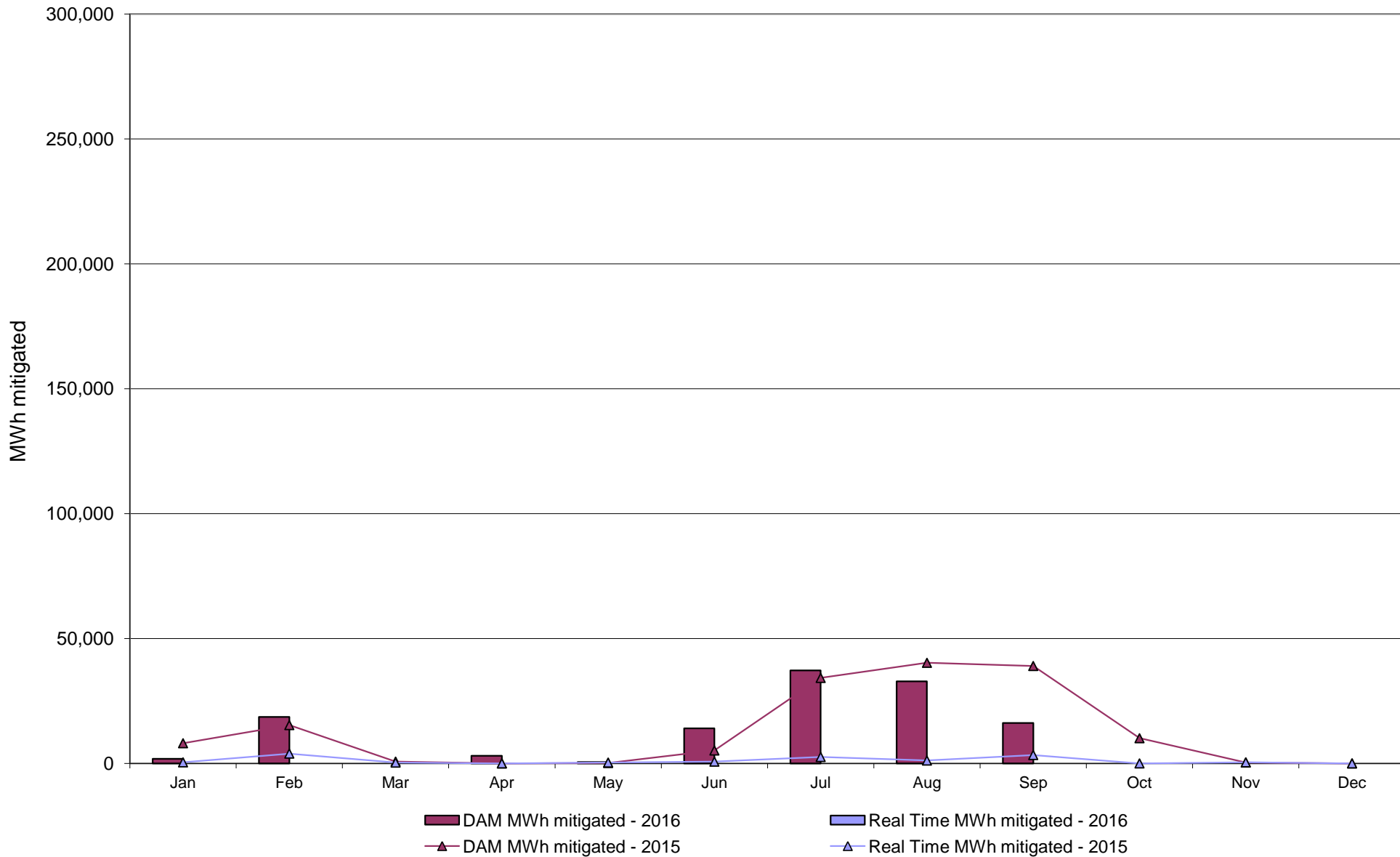
| 2016                           | January | February | March | April | May  | June | July | August | September | October | November | December |
|--------------------------------|---------|----------|-------|-------|------|------|------|--------|-----------|---------|----------|----------|
| <b>Day Ahead Market</b>        |         |          |       |       |      |      |      |        |           |         |          |          |
| 10 Min Spin SENEY (GHIJK)      | 7.09    | 5.38     | 5.04  | 6.31  | 4.93 | 4.62 | 6.41 | 7.12   | 5.57      |         |          |          |
| 10 Min Spin East (F)           | 7.09    | 5.38     | 5.04  | 6.31  | 4.93 | 4.62 | 6.41 | 7.12   | 5.57      |         |          |          |
| 10 Min Spin West (ABCDE)       | 6.28    | 5.25     | 4.84  | 5.60  | 4.77 | 4.52 | 5.78 | 6.20   | 5.14      |         |          |          |
| 10 Min Non Synch SENEY (GHIJK) | 6.47    | 5.25     | 4.88  | 5.80  | 4.83 | 4.36 | 6.34 | 7.07   | 5.52      |         |          |          |
| 10 Min Non Synch East (F)      | 6.47    | 5.25     | 4.88  | 5.80  | 4.83 | 4.36 | 6.34 | 7.07   | 5.52      |         |          |          |
| 10 Min Non Synch West (ABCDE)  | 6.23    | 5.20     | 4.84  | 5.58  | 4.68 | 4.32 | 5.72 | 6.15   | 5.10      |         |          |          |
| 30 Min SENEY (GHIJK)           | 6.23    | 5.20     | 4.84  | 5.58  | 4.67 | 4.32 | 5.70 | 6.15   | 5.10      |         |          |          |
| 30 Min East (F)                | 6.23    | 5.20     | 4.84  | 5.58  | 4.67 | 4.32 | 5.70 | 6.15   | 5.10      |         |          |          |
| 30 Min West (ABCDE)            | 6.23    | 5.20     | 4.84  | 5.58  | 4.67 | 4.32 | 5.70 | 6.15   | 5.10      |         |          |          |
| Regulation                     | 9.39    | 8.19     | 8.05  | 7.93  | 6.11 | 7.00 | 8.19 | 8.61   | 7.00      |         |          |          |
| <b>RTC Market</b>              |         |          |       |       |      |      |      |        |           |         |          |          |
| 10 Min Spin SENEY (GHIJK)      | 1.53    | 0.59     | 0.71  | 1.81  | 0.43 | 0.49 | 2.79 | 7.26   | 0.61      |         |          |          |
| 10 Min Spin East (F)           | 1.53    | 0.59     | 0.71  | 1.81  | 0.43 | 0.46 | 2.77 | 6.88   | 0.61      |         |          |          |
| 10 Min Spin West (ABCDE)       | 0.42    | 0.26     | 0.08  | 0.95  | 0.23 | 0.24 | 1.72 | 4.80   | 0.30      |         |          |          |
| 10 Min Non Synch SENEY (GHIJK) | 0.45    | 0.00     | 0.17  | 0.14  | 0.05 | 0.05 | 1.89 | 6.06   | 0.21      |         |          |          |
| 10 Min Non Synch East (F)      | 0.45    | 0.00     | 0.17  | 0.14  | 0.05 | 0.02 | 1.87 | 5.67   | 0.21      |         |          |          |
| 10 Min Non Synch West (ABCDE)  | 0.04    | 0.00     | 0.00  | 0.14  | 0.04 | 0.02 | 1.18 | 3.80   | 0.16      |         |          |          |
| 30 Min SENEY (GHIJK)           | 0.01    | 0.00     | 0.00  | 0.14  | 0.04 | 0.04 | 0.94 | 3.65   | 0.15      |         |          |          |
| 30 Min East (F)                | 0.01    | 0.00     | 0.00  | 0.14  | 0.04 | 0.02 | 0.93 | 3.27   | 0.15      |         |          |          |
| 30 Min West (ABCDE)            | 0.01    | 0.00     | 0.00  | 0.14  | 0.04 | 0.02 | 0.93 | 3.27   | 0.15      |         |          |          |
| Regulation                     | 8.04    | 6.86     | 7.15  | 7.07  | 5.43 | 6.09 | 7.51 | 10.25  | 5.52      |         |          |          |
| NYCA Regulation Movement       | 0.23    | 0.21     | 0.20  | 0.25  | 0.25 | 0.23 | 0.23 | 0.24   | 0.24      |         |          |          |
| <b>Real Time Market</b>        |         |          |       |       |      |      |      |        |           |         |          |          |
| 10 Min Spin SENEY (GHIJK)      | 7.51    | 1.12     | 1.73  | 4.34  | 1.19 | 1.43 | 4.73 | 8.04   | 1.59      |         |          |          |
| 10 Min Spin East (F)           | 7.51    | 1.12     | 1.73  | 4.34  | 1.19 | 1.40 | 4.72 | 7.68   | 1.59      |         |          |          |
| 10 Min Spin West (ABCDE)       | 4.17    | 0.58     | 0.48  | 2.23  | 0.79 | 1.00 | 2.51 | 4.72   | 0.90      |         |          |          |
| 10 Min Non Synch SENEY (GHIJK) | 4.26    | 0.00     | 0.22  | 1.20  | 0.06 | 0.15 | 3.49 | 6.70   | 0.59      |         |          |          |
| 10 Min Non Synch East (F)      | 4.26    | 0.00     | 0.22  | 1.20  | 0.06 | 0.11 | 3.48 | 6.34   | 0.59      |         |          |          |
| 10 Min Non Synch West (ABCDE)  | 1.89    | 0.00     | 0.00  | 0.26  | 0.03 | 0.04 | 1.65 | 3.56   | 0.21      |         |          |          |
| 30 Min SENEY (GHIJK)           | 0.06    | 0.00     | 0.00  | 0.25  | 0.03 | 0.07 | 0.98 | 3.48   | 0.21      |         |          |          |
| 30 Min East (F)                | 0.06    | 0.00     | 0.00  | 0.25  | 0.03 | 0.04 | 0.97 | 3.12   | 0.21      |         |          |          |
| 30 Min West (ABCDE)            | 0.06    | 0.00     | 0.00  | 0.25  | 0.03 | 0.04 | 0.97 | 3.12   | 0.21      |         |          |          |
| Regulation                     | 10.66   | 7.21     | 7.73  | 8.30  | 6.06 | 6.92 | 8.37 | 10.31  | 6.42      |         |          |          |
| NYCA Regulation Movement       | 0.23    | 0.22     | 0.20  | 0.25  | 0.25 | 0.23 | 0.23 | 0.24   | 0.24      |         |          |          |
| <b>2015</b>                    |         |          |       |       |      |      |      |        |           |         |          |          |
| <b>Day Ahead Market</b>        |         |          |       |       |      |      |      |        |           |         |          |          |
| 10 Min Spin SENEY (GHIJK)      | N/A     | N/A      | N/A   | N/A   | N/A  | N/A  | N/A  | N/A    | N/A       | N/A     | 4.06     | 4.36     |
| 10 Min Spin East (F)           | 5.92    | 7.69     | 11.09 | 5.53  | 6.31 | 4.53 | 5.62 | 4.54   | 5.60      | 5.02    | 4.03     | 4.36     |
| 10 Min Spin West (ABCDE)       | 4.07    | 5.40     | 5.68  | 4.16  | 3.69 | 2.84 | 2.26 | 2.36   | 2.20      | 2.68    | 3.47     | 4.22     |
| 10 Min Non Synch SENEY (GHIJK) | N/A     | N/A      | N/A   | N/A   | N/A  | N/A  | N/A  | N/A    | N/A       | N/A     | 3.44     | 4.03     |
| 10 Min Non Synch East (F)      | 2.30    | 3.89     | 5.40  | 3.22  | 3.84 | 2.42 | 3.66 | 2.51   | 3.74      | 2.75    | 3.27     | 4.03     |
| 10 Min Non Synch West (ABCDE)  | 0.90    | 1.79     | 1.97  | 1.91  | 1.45 | 0.77 | 0.45 | 0.36   | 0.49      | 0.45    | 2.77     | 4.02     |
| 30 Min SENEY (GHIJK)           | N/A     | N/A      | N/A   | N/A   | N/A  | N/A  | N/A  | N/A    | N/A       | N/A     | 2.95     | 4.02     |
| 30 Min East (F)                | 0.77    | 1.38     | 1.91  | 1.26  | 0.93 | 0.64 | 0.43 | 0.24   | 0.37      | 0.18    | 2.69     | 4.02     |
| 30 Min West (ABCDE)            | 0.77    | 1.38     | 1.91  | 1.26  | 0.93 | 0.64 | 0.43 | 0.24   | 0.37      | 0.18    | 2.69     | 4.02     |
| Regulation                     | 8.84    | 19.65    | 9.27  | 7.94  | 7.48 | 8.20 | 8.20 | 8.61   | 7.71      | 7.29    | 9.10     | 9.30     |
| <b>RTC Market</b>              |         |          |       |       |      |      |      |        |           |         |          |          |
| 10 Min Spin SENEY (GHIJK)      | N/A     | N/A      | N/A   | N/A   | N/A  | N/A  | N/A  | N/A    | N/A       | N/A     | 1.33     | 2.62     |
| 10 Min Spin East (F)           | 1.20    | 3.27     | 2.64  | 2.77  | 4.36 | 1.18 | 1.44 | 1.86   | 2.76      | 0.67    | 1.35     | 2.62     |
| 10 Min Spin West (ABCDE)       | 0.74    | 1.61     | 0.86  | 0.81  | 1.48 | 0.04 | 0.69 | 0.70   | 1.53      | 0.20    | 0.81     | 1.68     |
| 10 Min Non Synch SENEY (GHIJK) | N/A     | N/A      | N/A   | N/A   | N/A  | N/A  | N/A  | N/A    | N/A       | N/A     | 0.17     | 0.01     |
| 10 Min Non Synch East (F)      | 0.01    | 0.48     | 0.01  | 0.00  | 1.54 | 0.87 | 0.28 | 0.57   | 0.84      | 0.01    | 0.16     | 0.01     |
| 10 Min Non Synch West (ABCDE)  | 0.00    | 0.00     | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00   | 0.02      | 0.00    | 0.00     | 0.00     |
| 30 Min SENEY (GHIJK)           | N/A     | N/A      | N/A   | N/A   | N/A  | N/A  | N/A  | N/A    | N/A       | N/A     | 0.00     | 0.00     |
| 30 Min East (F)                | 0.00    | 0.00     | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00   | 0.02      | 0.00    | 0.00     | 0.00     |
| 30 Min West (ABCDE)            | 0.00    | 0.00     | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00   | 0.02      | 0.00    | 0.00     | 0.00     |
| Regulation                     | 7.45    | 11.32    | 8.13  | 7.56  | 7.06 | 7.24 | 7.97 | 8.07   | 8.49      | 6.73    | 8.12     | 8.83     |
| NYCA Regulation Movement       | 0.21    | 0.21     | 0.16  | 0.22  | 0.16 | 0.24 | 0.25 | 0.23   | 0.24      | 0.23    | 0.22     | 0.22     |
| <b>Real Time Market</b>        |         |          |       |       |      |      |      |        |           |         |          |          |
| 10 Min Spin SENEY (GHIJK)      | N/A     | N/A      | N/A   | N/A   | N/A  | N/A  | N/A  | N/A    | N/A       | N/A     | 2.06     | 4.57     |
| 10 Min Spin East (F)           | 2.12    | 5.31     | 3.84  | 3.44  | 4.59 | 2.56 | 2.47 | 2.59   | 4.79      | 1.32    | 2.40     | 4.57     |
| 10 Min Spin West (ABCDE)       | 1.44    | 3.11     | 1.83  | 1.46  | 0.81 | 0.38 | 1.04 | 0.59   | 2.65      | 0.59    | 1.20     | 3.53     |
| 10 Min Non Synch SENEY (GHIJK) | N/A     | N/A      | N/A   | N/A   | N/A  | N/A  | N/A  | N/A    | N/A       | N/A     | 0.35     | 0.09     |
| 10 Min Non Synch East (F)      | 0.12    | 1.03     | 0.17  | 0.01  | 2.41 | 2.01 | 0.83 | 1.19   | 1.97      | 0.09    | 0.61     | 0.09     |
| 10 Min Non Synch West (ABCDE)  | 0.00    | 0.00     | 0.00  | 0.00  | 0.00 | 0.19 | 0.00 | 0.02   | 0.33      | 0.00    | 0.00     | 0.05     |
| 30 Min SENEY (GHIJK)           | N/A     | N/A      | N/A   | N/A   | N/A  | N/A  | N/A  | N/A    | N/A       | N/A     | 0.00     | 0.03     |
| 30 Min East (F)                | 0.00    | 0.00     | 0.00  | 0.00  | 0.00 | 0.02 | 0.00 | 0.00   | 0.00      | 0.00    | 0.00     | 0.03     |
| 30 Min West (ABCDE)            | 0.00    | 0.00     | 0.00  | 0.00  | 0.00 | 0.02 | 0.00 | 0.00   | 0.00      | 0.00    | 0.00     | 0.03     |
| Regulation                     | 8.12    | 12.91    | 9.11  | 8.32  | 7.30 | 7.97 | 8.80 | 8.60   | 9.69      | 7.32    | 8.98     | 10.73    |
| NYCA Regulation Movement       | 0.20    | 0.21     | 0.17  | 0.15  | 0.16 | 0.24 | 0.24 | 0.24   | 0.24      | 0.23    | 0.22     | 0.21     |



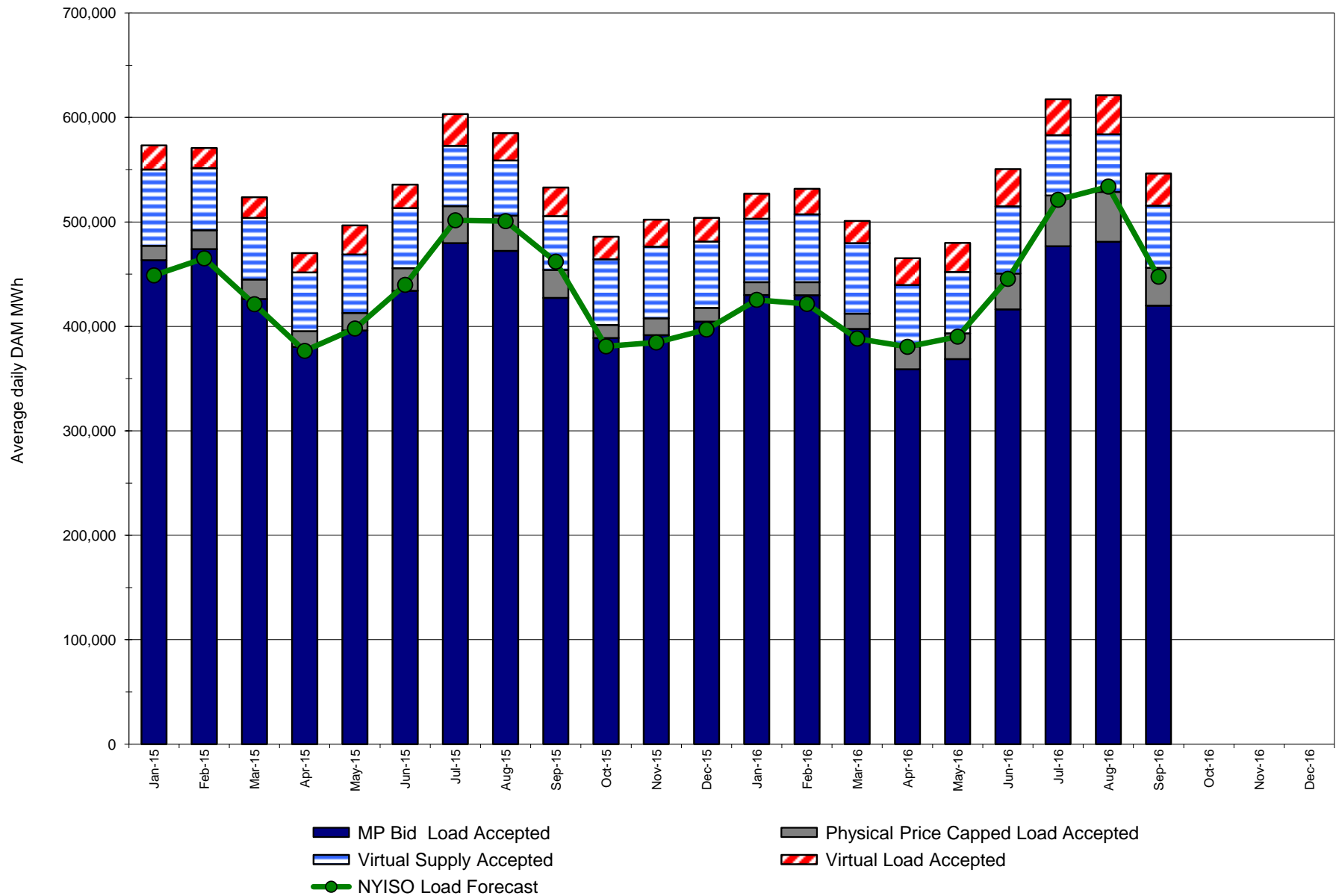
## NYISO In City Energy Mitigation - AMP (NYC Zone) 2015 - 2016 Percentage of committed unit-hours mitigated



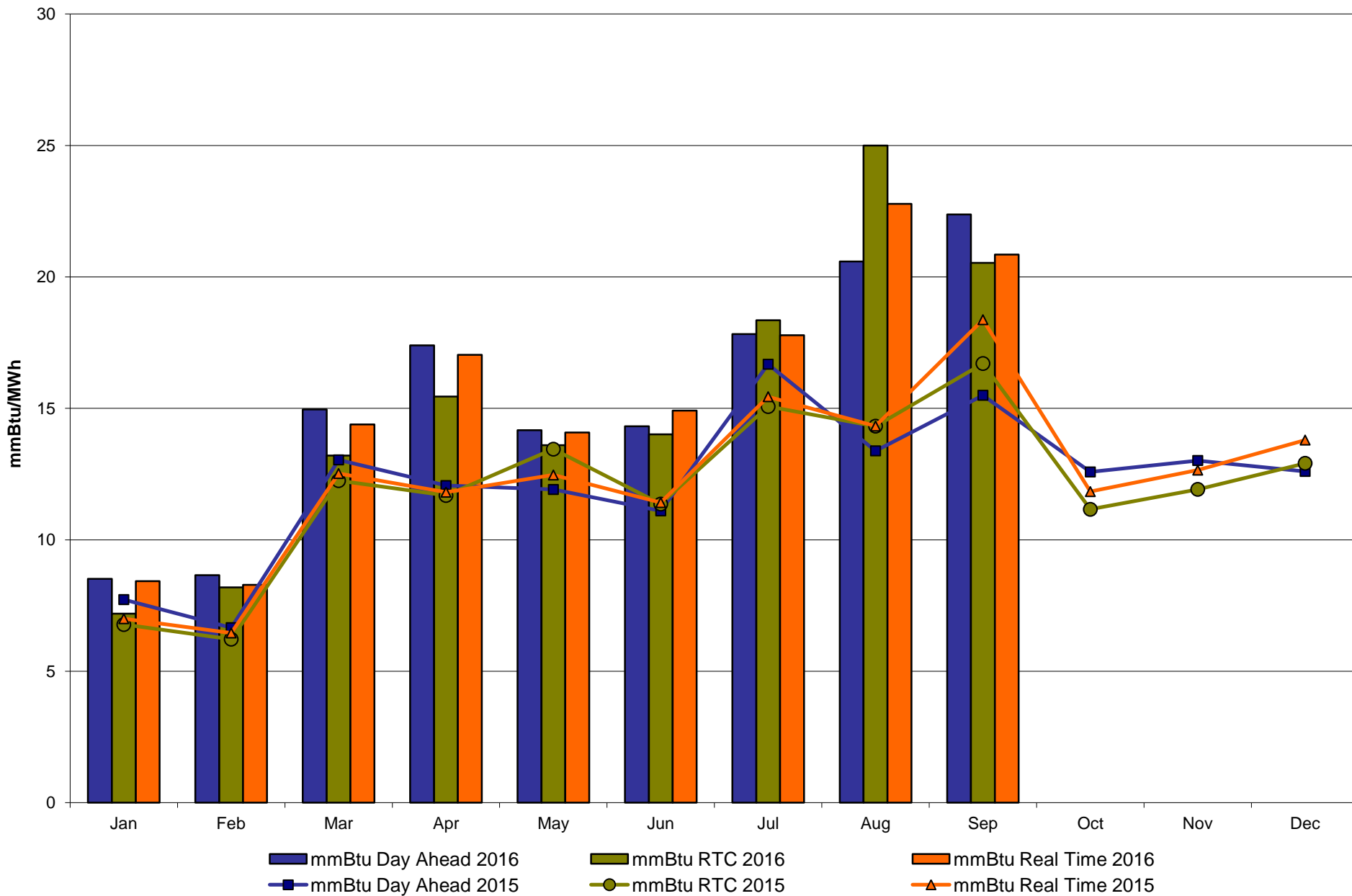
**NYISO In City Energy Mitigation (NYC Zone) 2015 - 2016**  
**Monthly megawatt hours mitigated**



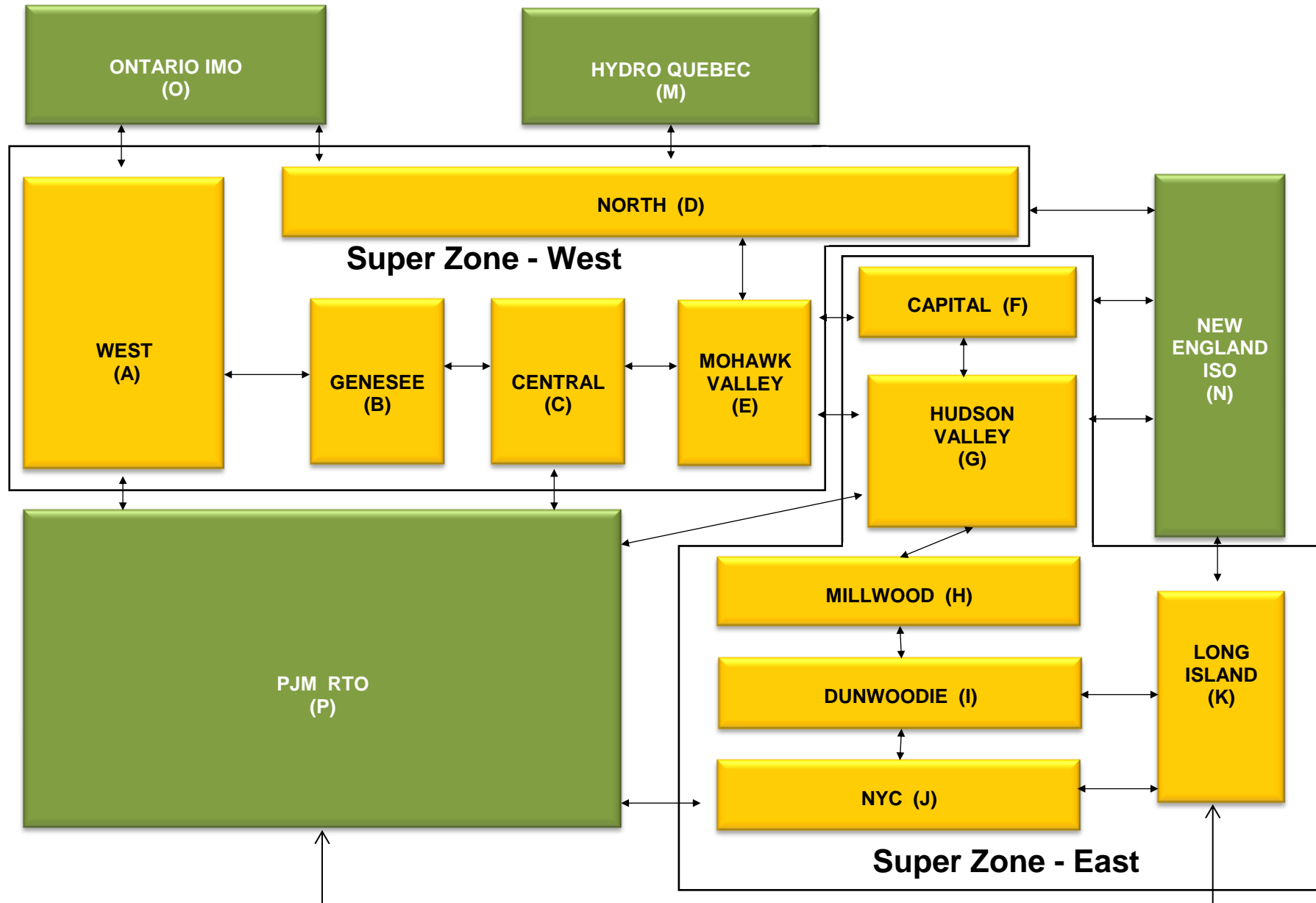
### NYISO Average Daily DAM Load Bid Summary



# Monthly Implied Heat Rate 2015-2016



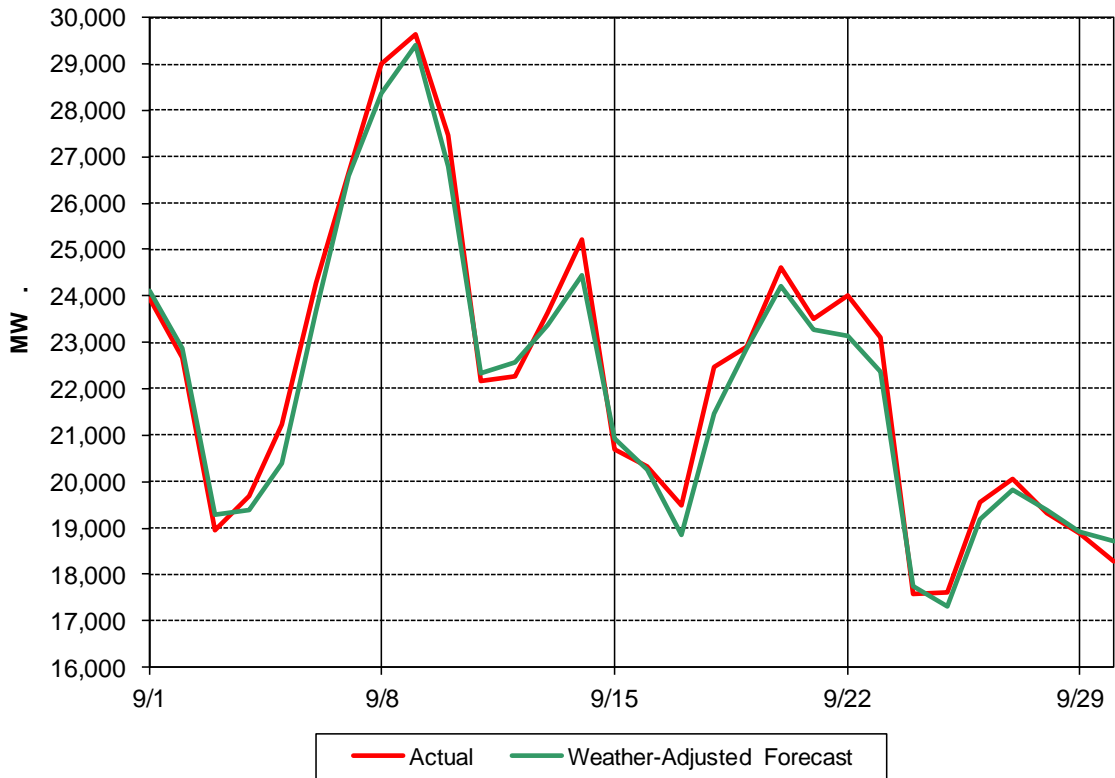
# NYISO LBMP ZONES



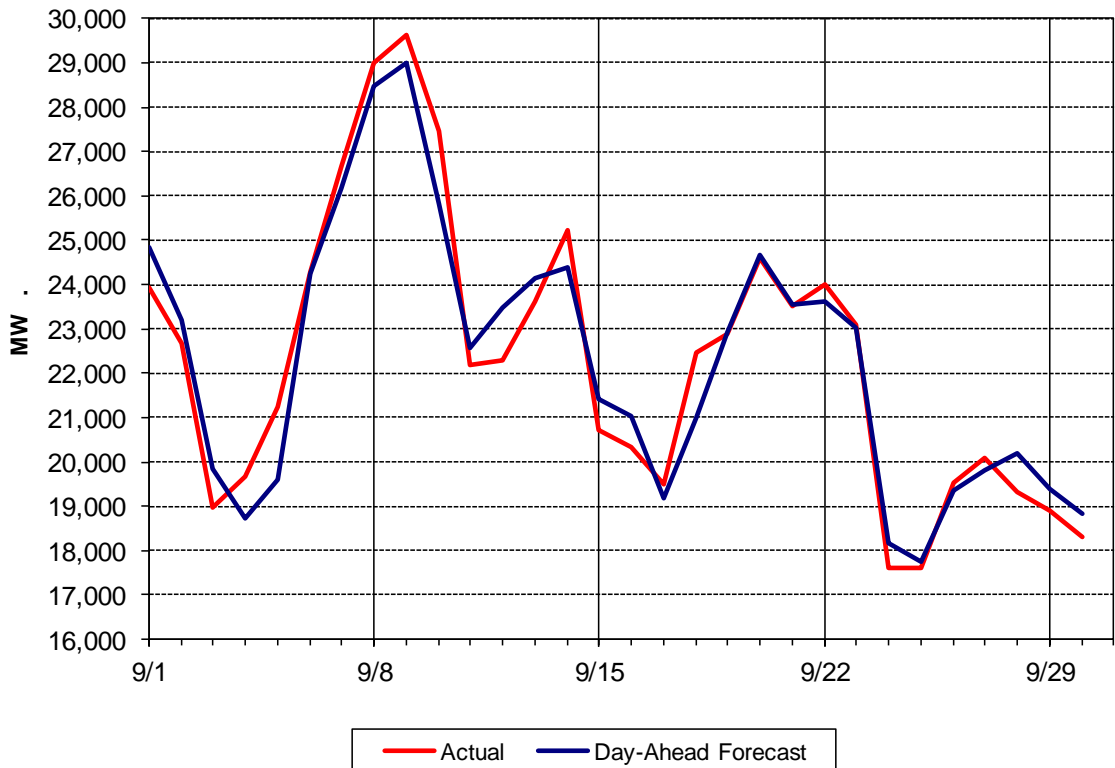
**Billing Codes for Chart C**

| <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   |

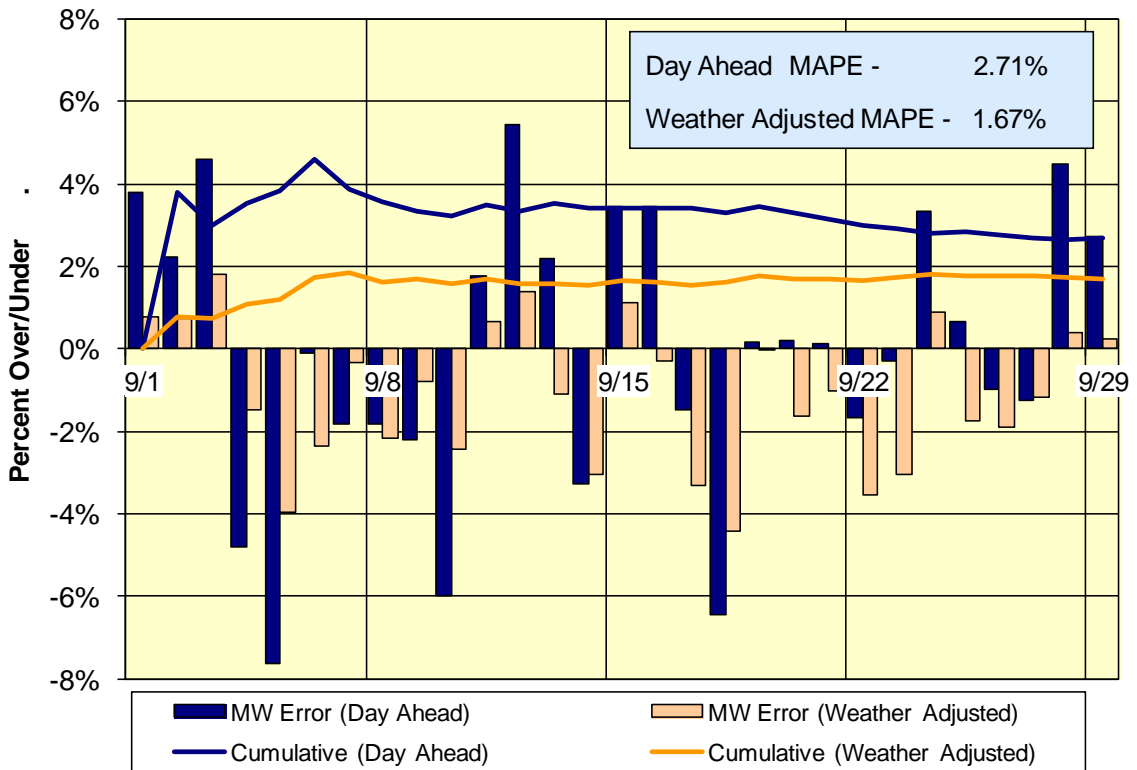
**NYISO Daily Peak Load - September 2016  
Actual vs. Weather-Adjusted Forecast**



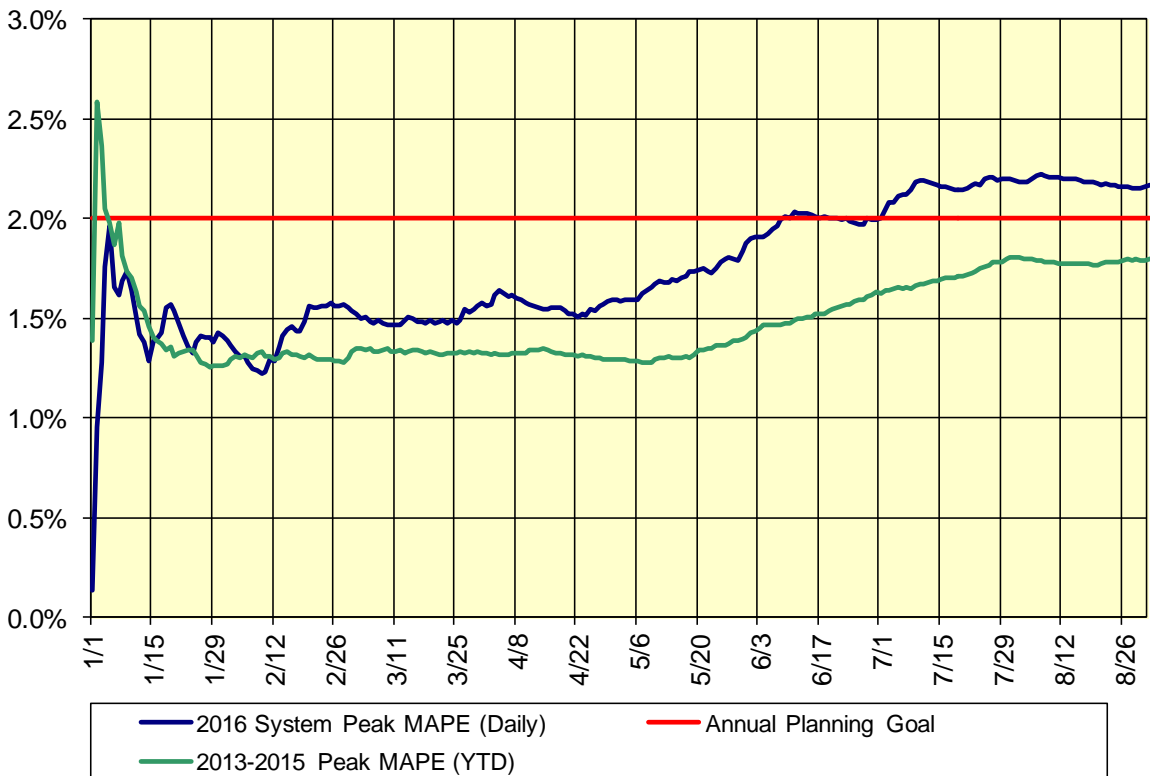
**NYISO Daily Peak Load - September 2016  
Actual vs. Forecast**



### Day Ahead Peak Forecast - September 2016 Percent Error - Actual & Weather Adjusted



### Day-Ahead Forecast Accuracy - Cumulative Performance 2016 Year-to-Date





## Summary Description of Regulatory Filings, Investigations, Rulemakings and Related Orders in NYISO Matters – September 2016

| Filing Date              | Filing Summary   | Docket                         | Order Date | Order Summary  |
|--------------------------|--|--------------------------------|------------|--|
| 11/19/2012<br>05/02/2016 | NYISO answer to a MISO motion to supplement the record on the Michigan/Ontario PARs issue;<br>NYISO filing of a letter to Chairman Bay in support of a request by NYPSC Chair Zibelman that the FERC issue a final order in the MISO ITC PARs proceeding | ER11-1844-000<br>ER11-1844-002 | 09/22/2016 | FERC Order rejected several of the determinations that the Presiding ALJ made in his Initial Decision in favor of the NYISO and PJM and dismissed the rehearing as moot. |
| 05/18/2016               | NYISO filing of a request for clarification concerning its role in the Public Policy Transmission Planning Process (“PPTPP”) NYISO compliance filing to fulfill directives of FERC’s 04/18/2016 order (-002)   | ER16-966-001<br>ER16-966-002   | 09/07/2016 | FERC order granted the request for clarification and accepted tariff revisions concerning the PPTPP  |
| 06/22/2016               | NYISO compliance filing of a notice setting an effective date of June 22, 2016 for certain comprehensive scarcity pricing tariff provisions.   | ER16-425-005                   | 03/01/2019 | FERC order accepted NYISO filing regarding Scarcity Pricing tariff revisions; directed compliance obligation of effective date notice                                    |
| 06/30/2016               | NYISO answer to the June 10, 2016 complaint filed by Boundless Energy, et al v NYISO alleging tariff violations concerning the most recent project solicitation to address public policy transmission needs identified by the NYPSC                      | EL16-84-000                    | 09/08/2016 | FERC order denied the complaint  |
| 08/9/2016                | NYISO 205 filing regarding proposed revisions designed to align the amount of revenue retained by the NYISO with the NYISO’s budgeted revenue requirement or its actual costs for the prior year.  | ER16-2396-000                  | 9/28/2016  | FERC letter order accepted the amendments, effective 10/12/16 as requested   |
| 08/18/16                 | NYISO compliance filing of tariff revisions to establish procedures for allocating revenues received from the sale of Historic TCCs.   | ER16-2444-000                  | 09/30/2016 | FERC order accepted the tariff revisions to be effective October 18, 2016, as requested  |
| 09/09/2016               | NYISO filing of a motion to intervene and limited protest of the Forward Capacity Market Enhancements proposed by ISO New England  | ER16-2451-000                  |            |  |
| 09/13/2016               | NYISO compliance filing of tariff revisions to implement Order 1000 directives and clarify existing language   | ER13-102-011                   |            |  |
| 09/15/2016               | NYISO confidential filing to the NYPSC of a three month Reliability Commitment Data Report   | PSC Matter No. 10-02007        |            |  |
| 09/19/2016               | NYISO compliance filing of reliability-must-run tariff requirements  | ER16-120-003                   |            |  |

|           |   |             |  |  |
|-----------|---|-------------|--|--|
| 9/26/2016 | IRC comments in response to the FERC Notice of Inquiry on modifications to Critical Infrastructure Protection Reliability Standards | RM16-18-000 |  |  |
|-----------|---|-------------|--|--|