



# Monthly Report

**February 2018**

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



## ***February 2018 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 March 8, 2018.

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## February 2018 Operations Performance Highlights

- Peak load of 22,642 MW occurred on 02/02/2018 HB 18
- All-time winter capability period peak load of 25,738 MW occurred on 1/7/2014 HB 18
- 0 hours of Thunder Storm Alerts were declared
- 0 hours of NERC TLR level 3 curtailment
- The following table identifies the estimated production cost savings associated with the Broader Regional Market initiatives.

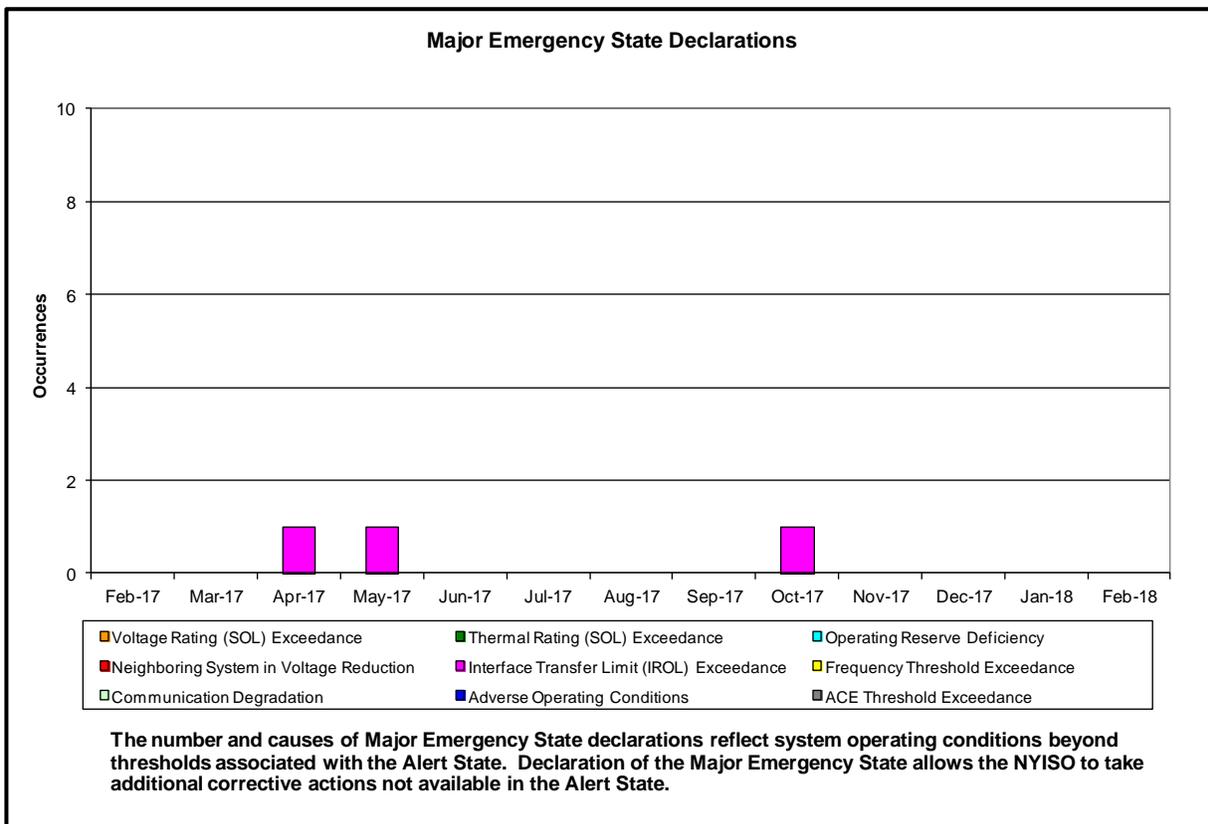
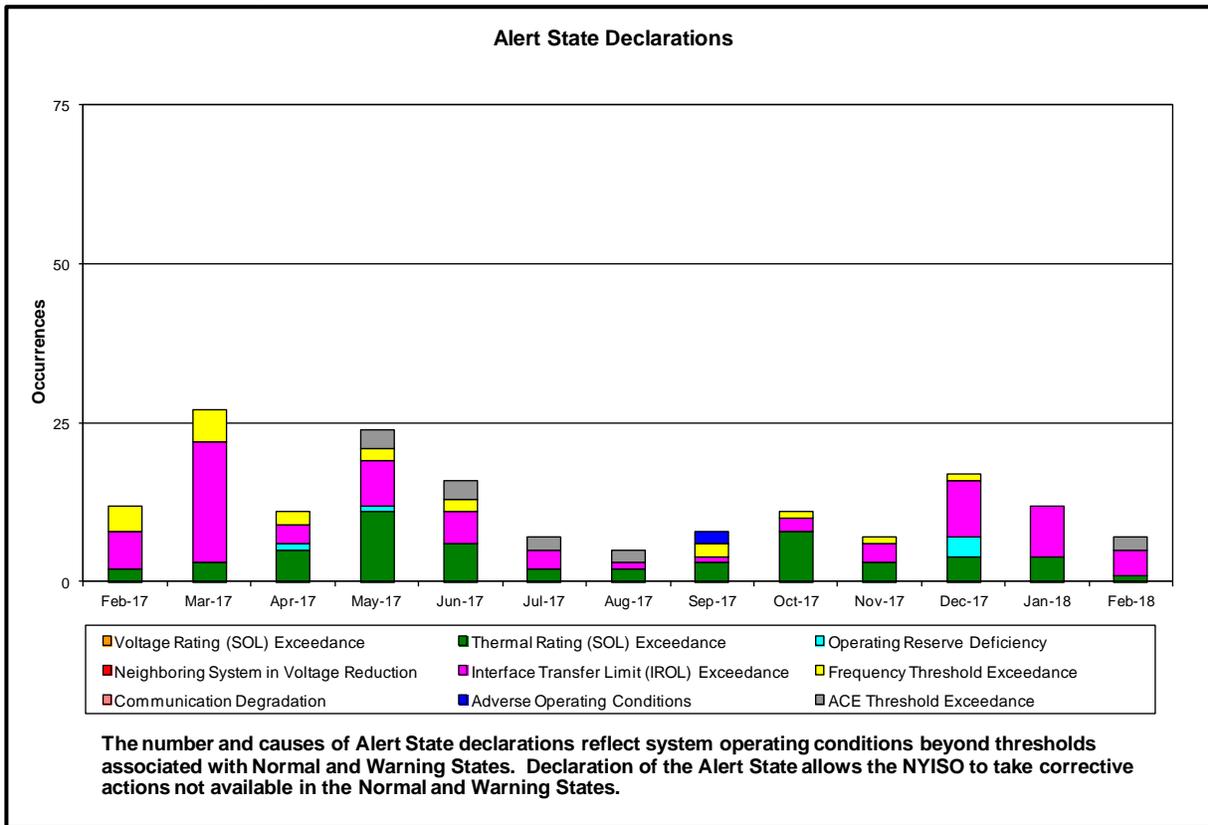
	Current Month Value (\$M)	Year-to-Date Value (\$M)
<b>NY Savings from PJM-NY Congestion Coordination</b>	\$0.94	\$7.54
<b>NY Savings from PJM-NY Coordinated Transaction Scheduling</b>	\$0.14	\$0.78
<b>NY Savings from NE-NY Coordinated Transaction Scheduling</b>	(\$0.09)	(\$0.49)
<b>Total NY Savings</b>	\$0.99	\$7.83
<b>Regional Savings from PJM-NY Coordinated Transaction Scheduling</b>	\$0.14	\$0.39
<b>Regional Savings from NE-NY Coordinated Transaction Scheduling</b>	\$0.02	\$0.14
<b>Total Regional Savings</b>	\$0.16	\$0.53

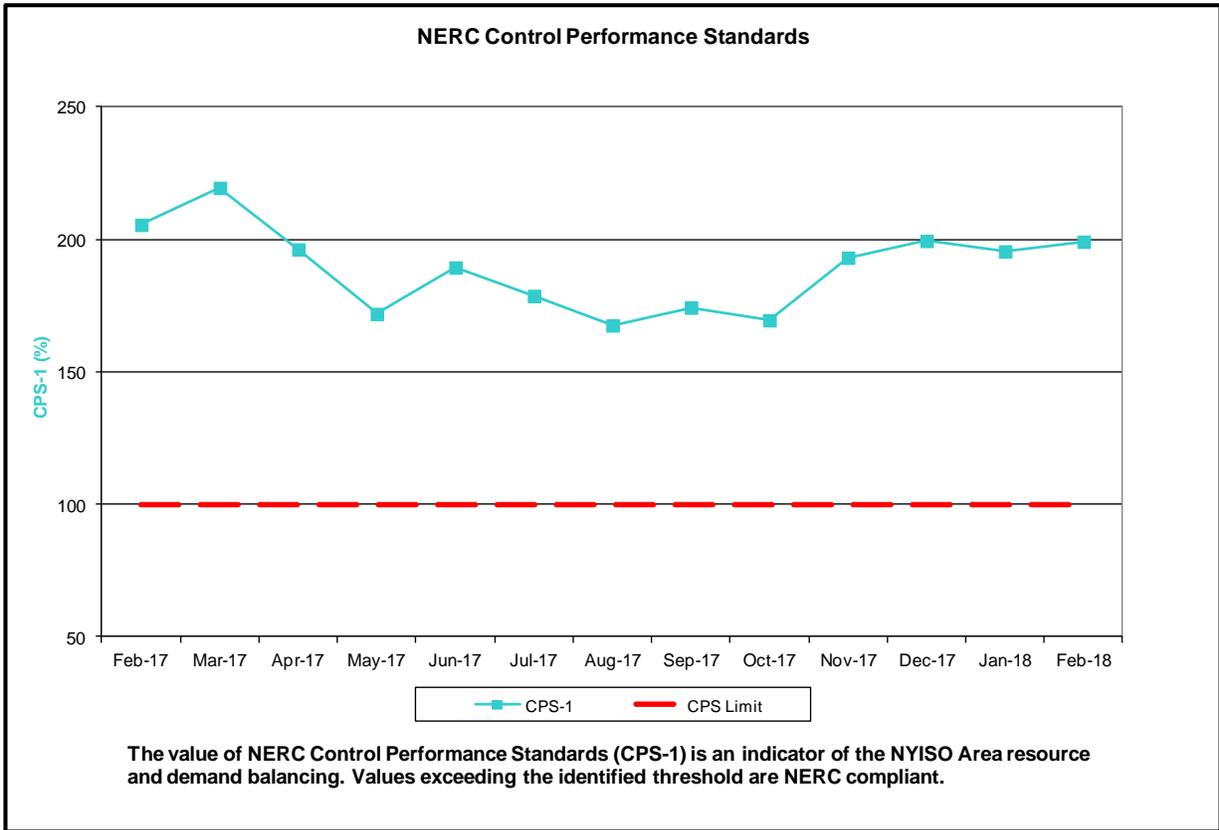
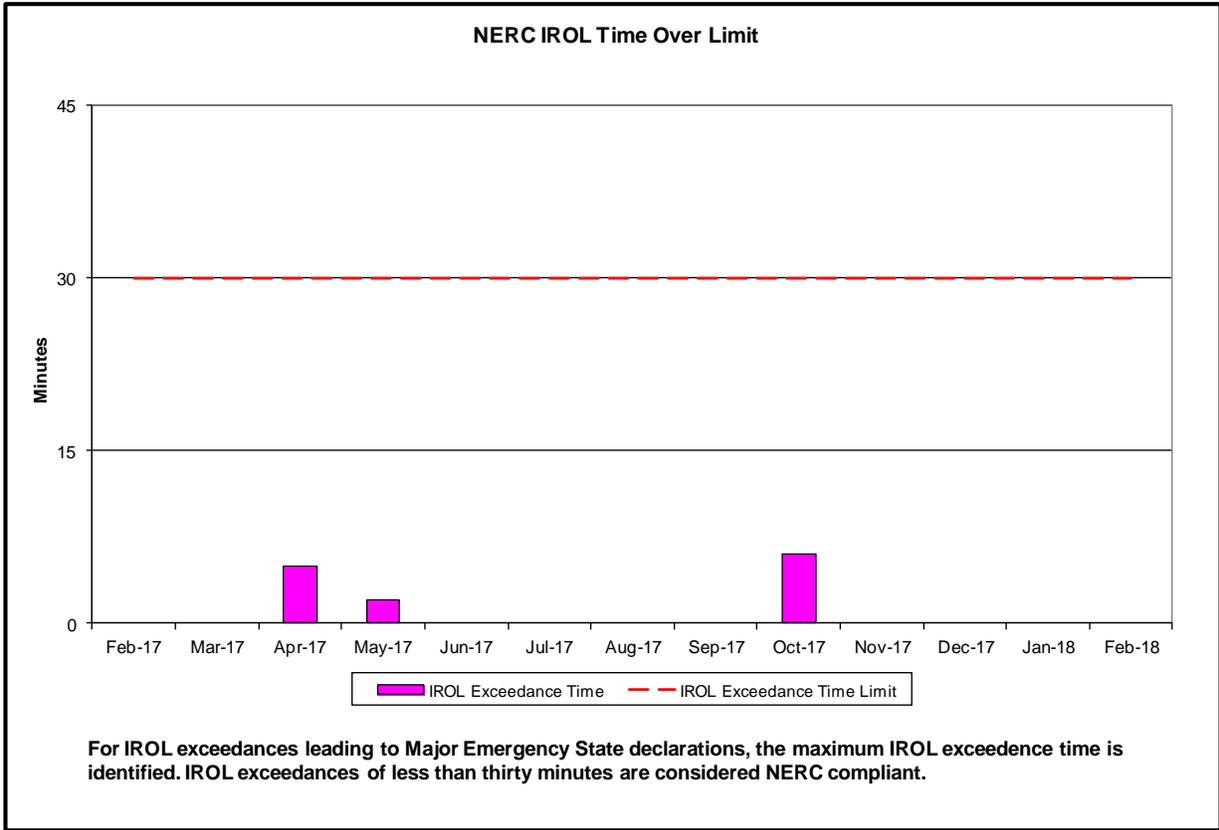
- Statewide uplift cost monthly average was (\$0.64)/MWh
- The following table identifies the Monthly ICAP Spot Market prices and the price delta.

Spot Auction Price Results	NYCA	Lower Hudson Valley Zones	New York City Zone	Long Island Zone
March 2018 Spot Price	\$0.15	\$3.12	\$3.12	\$0.70
February 2018 Spot Price	\$0.20	\$3.33	\$3.33	\$0.71
Delta	(\$0.05)	(\$0.21)	(\$0.21)	(\$0.01)

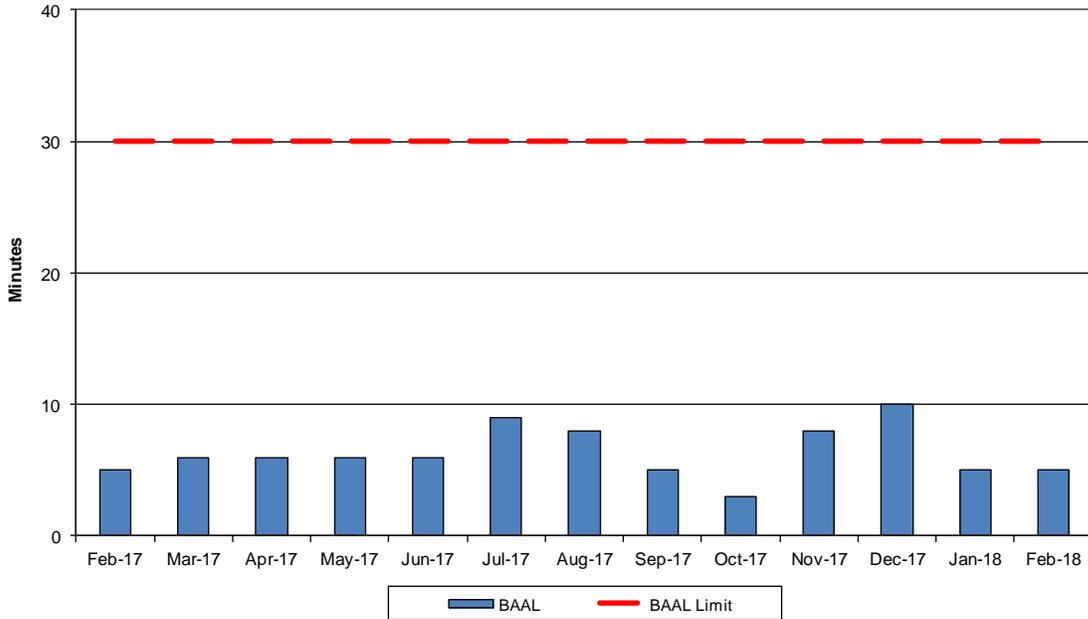
- NYC - Price decrease by \$0.21 due to increase in Generation UCAP Available
- GHJ -Price decrease by \$0.21 due to increase in Generation UCAP Available

- Reliability Performance Metrics



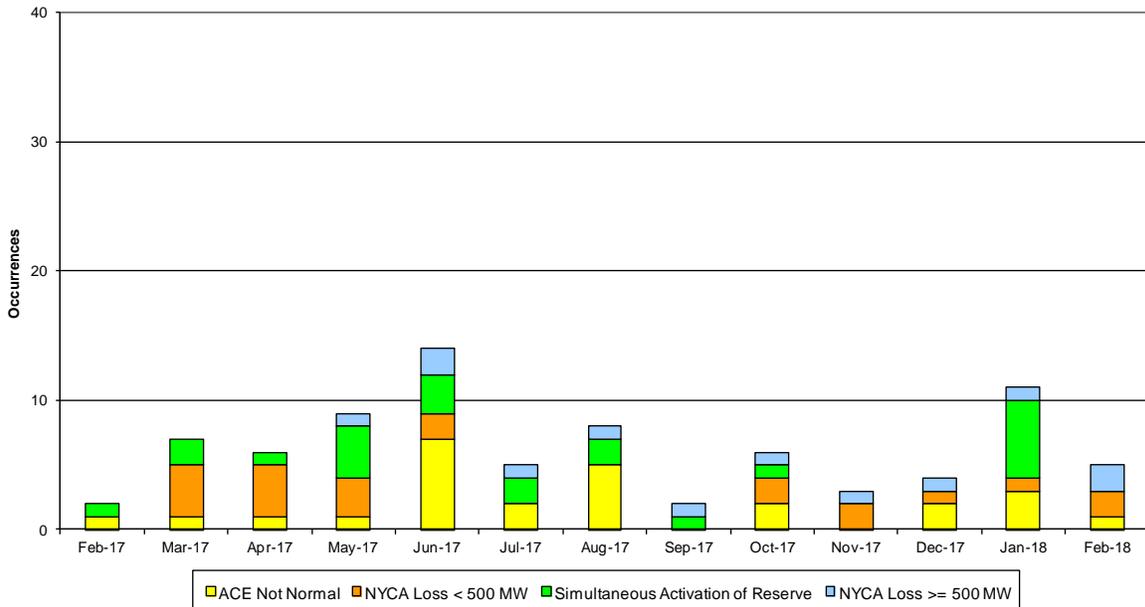


### NERC Balancing Authority ACE Limit Standard



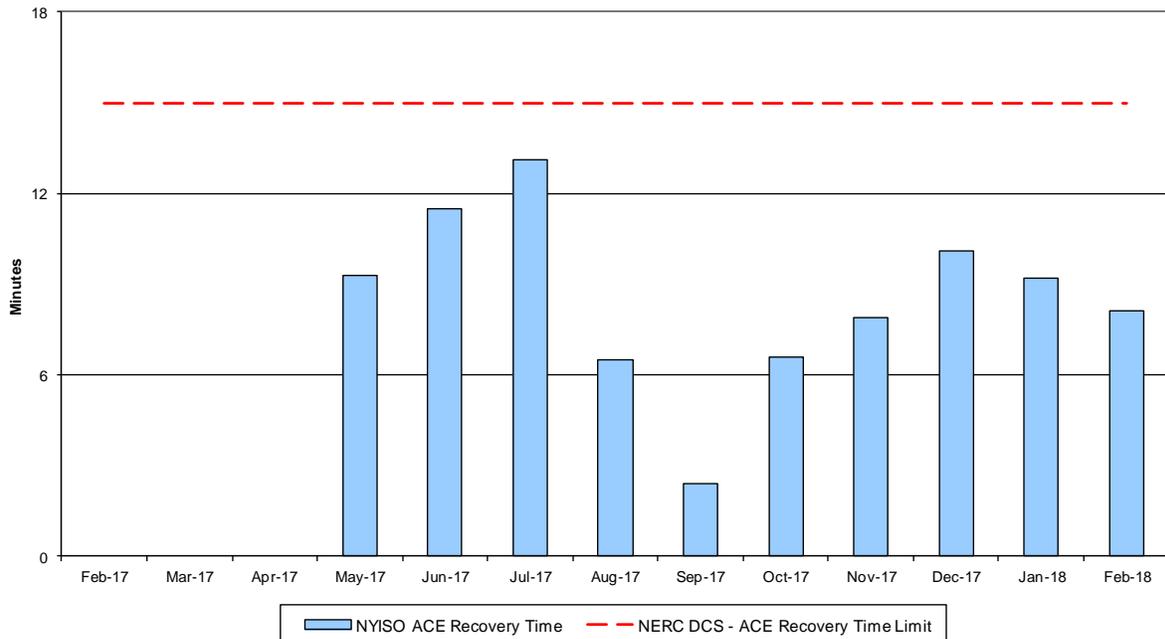
The amount of time the clock-minute average ACE exceeds the clock-minute Balancing Authority ACE Limit (BAAL) is an indicator of the NYISO Area resource and demand balancing. The maximum BAAL exceedance time is identified. BAAL exceedances of less than 30 consecutive clock-minutes are NERC compliant.

### Reserve Activations



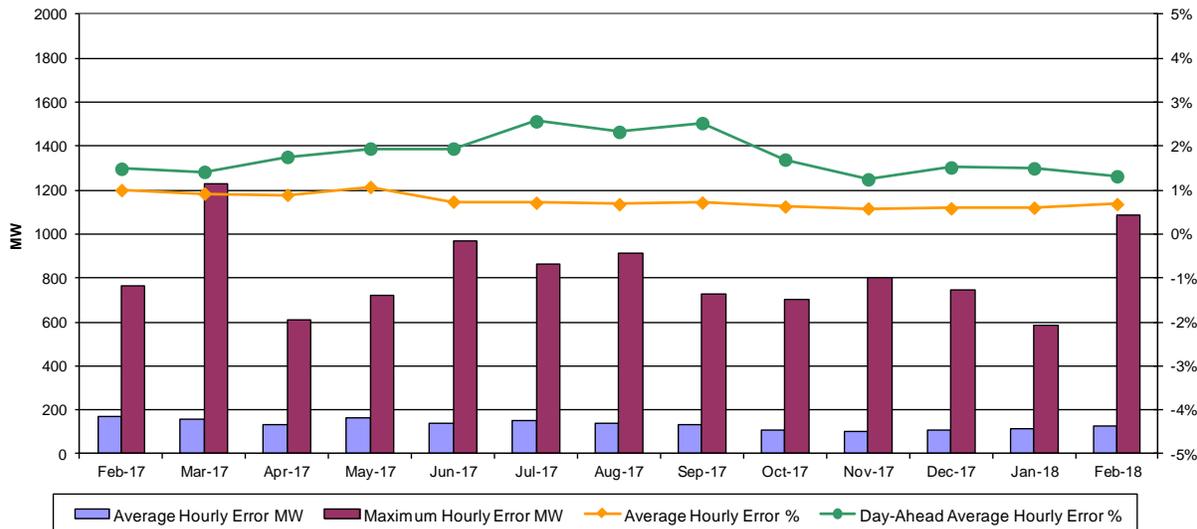
NYISO Reserve Activations are indicators of the need to respond to unexpected operational conditions within the NYISO Area or to assist a neighboring Area (Simultaneous Activation of Reserves) by activating an immediate resource and demand balancing operation.

### DCS Event Time to ACE Recovery

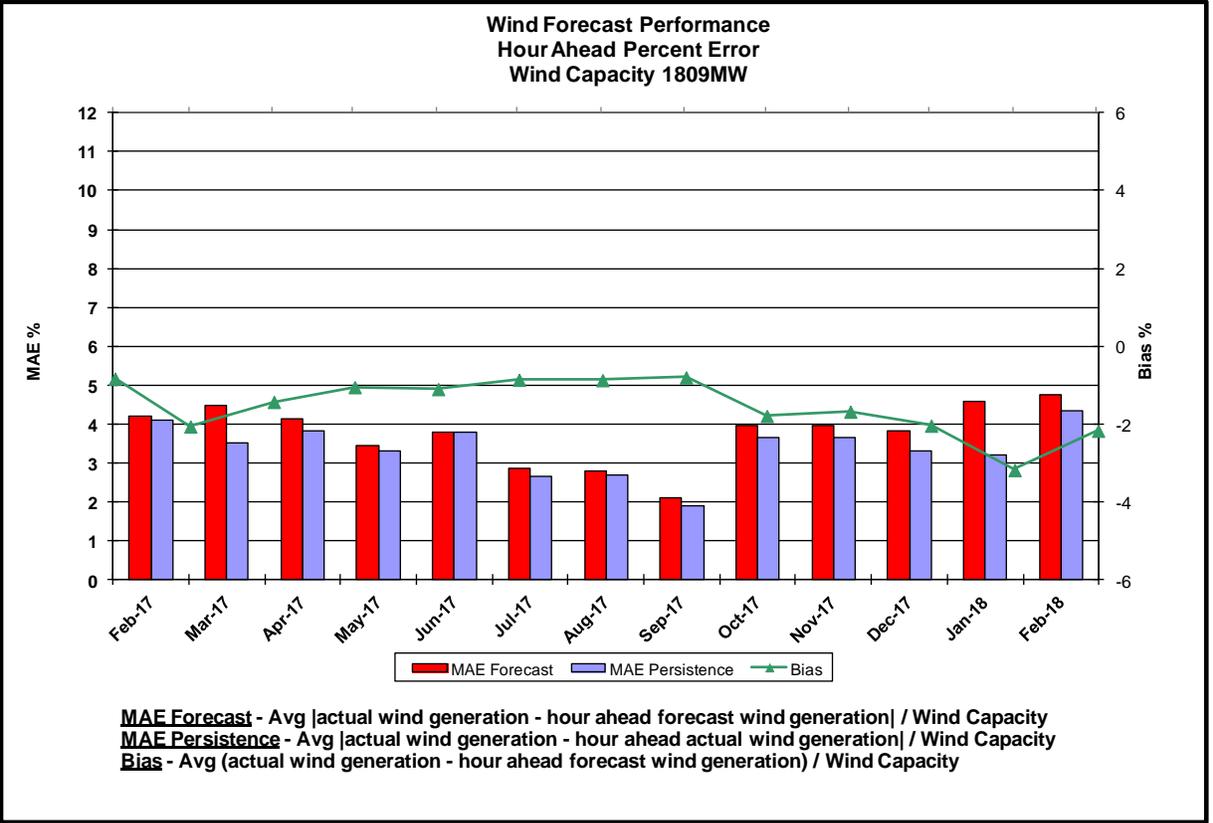
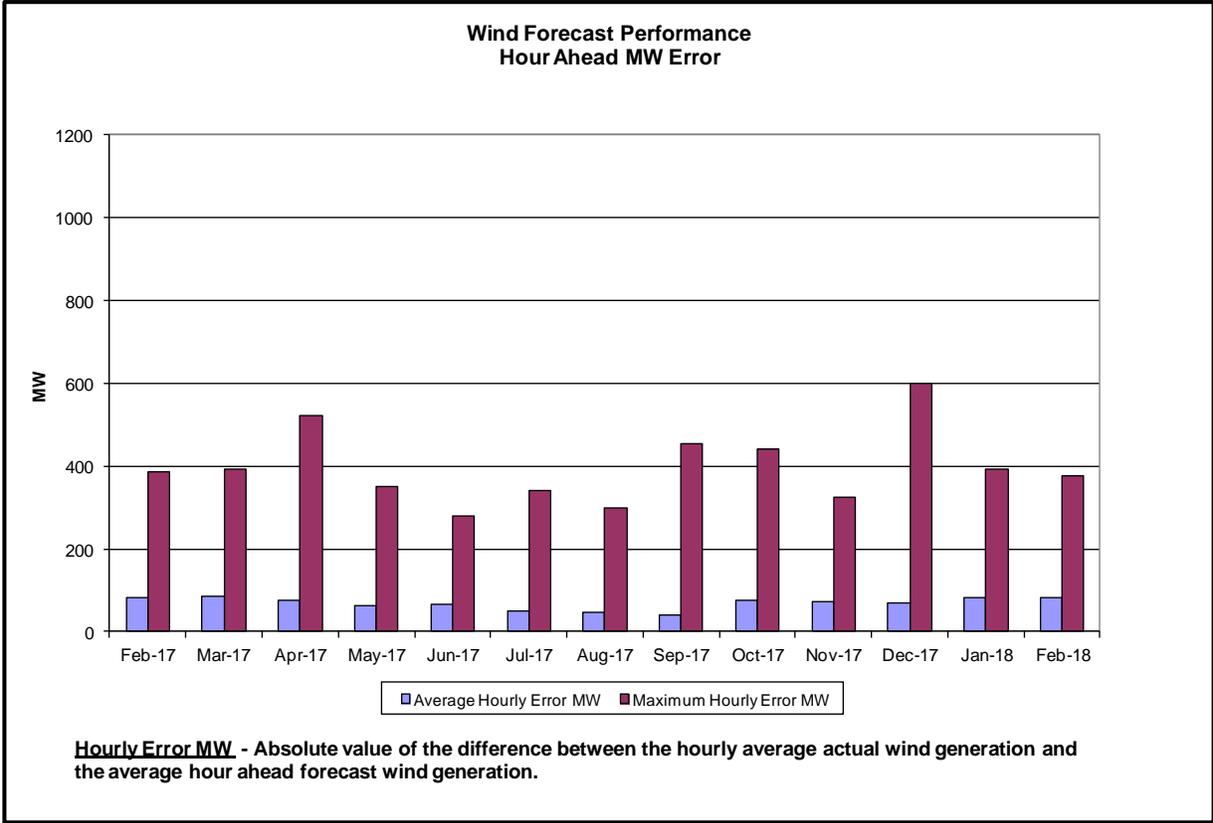


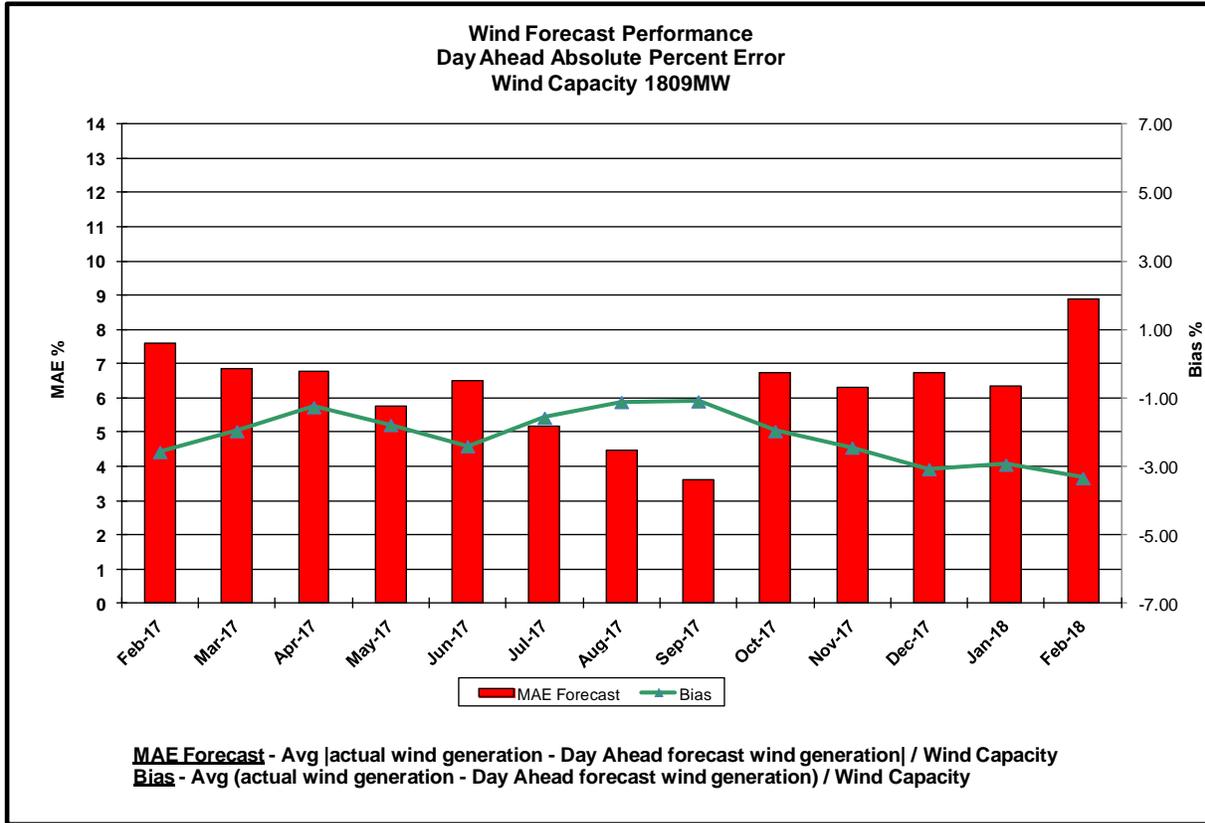
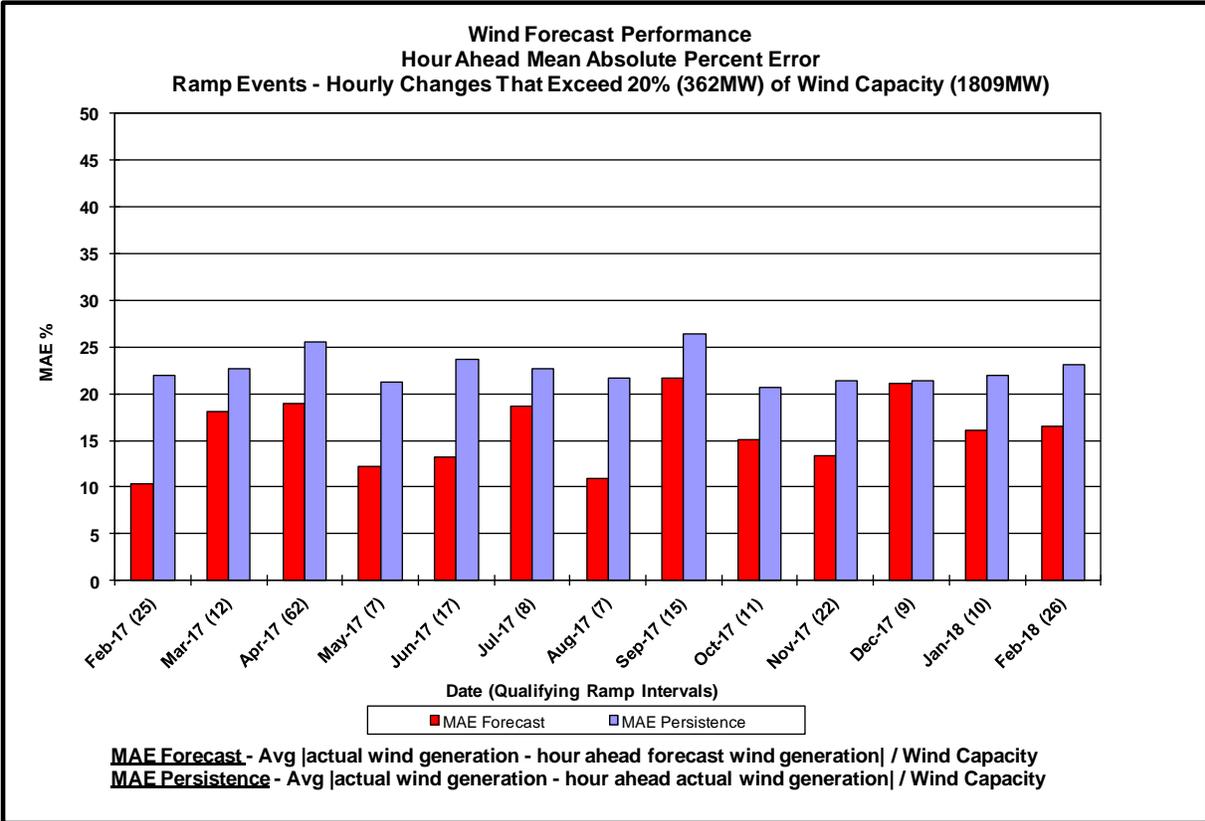
For NYISO initiated Reportable Disturbances, the maximum ACE recovery time is identified. Recovery times of less than 15 minutes are considered NERC compliant.

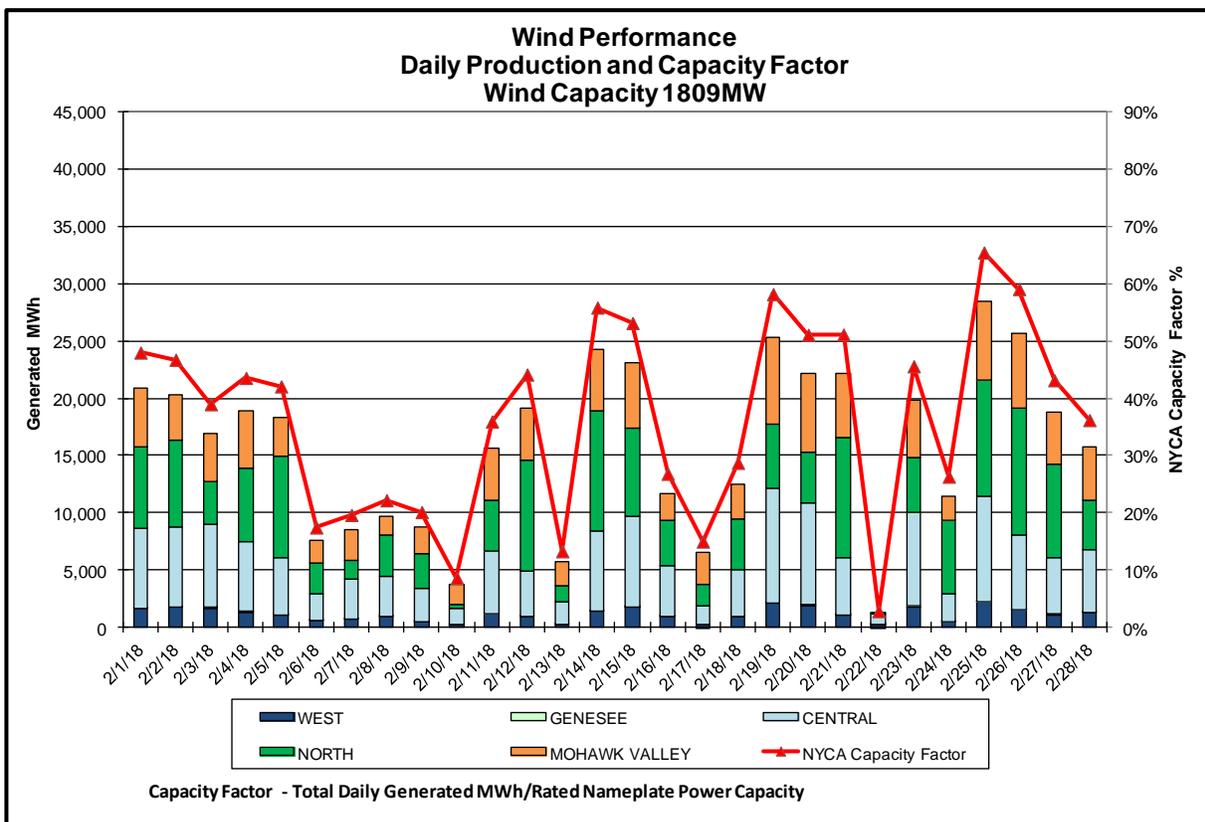
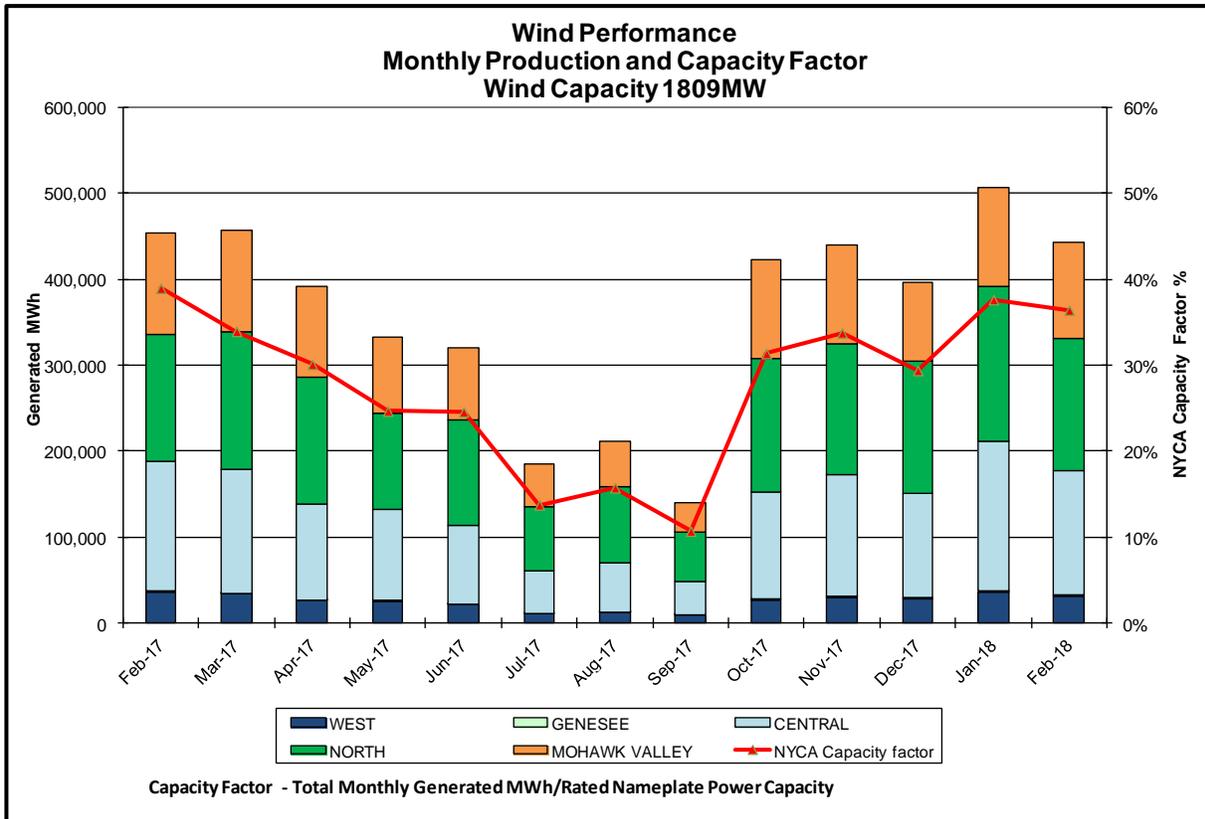
### Load Forecast Performance

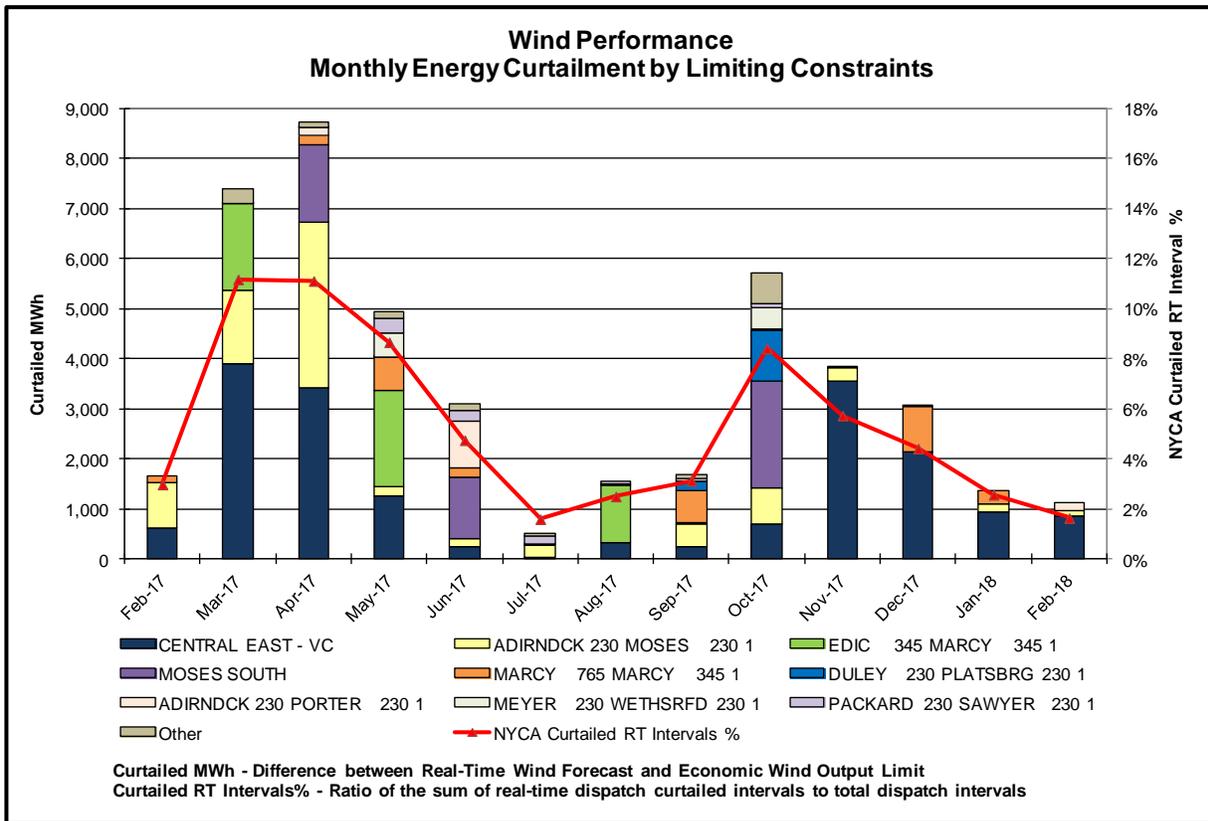
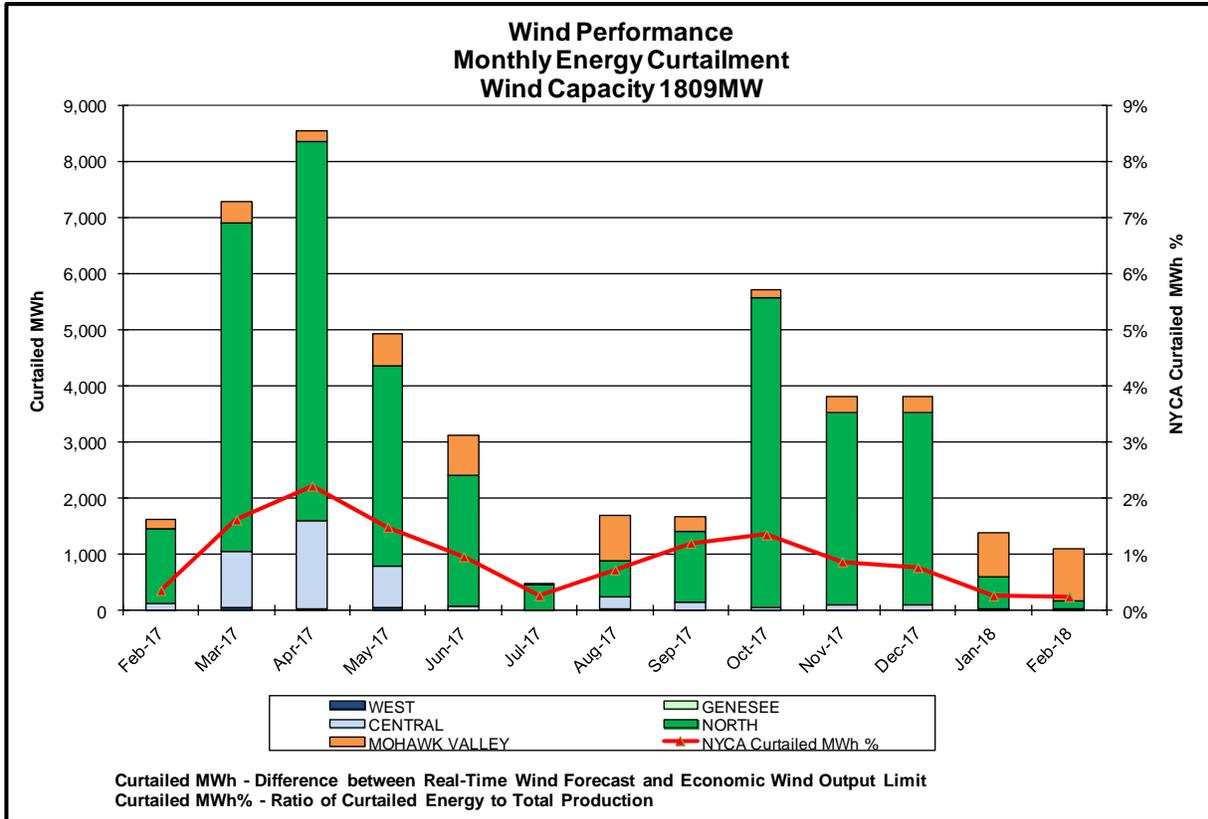


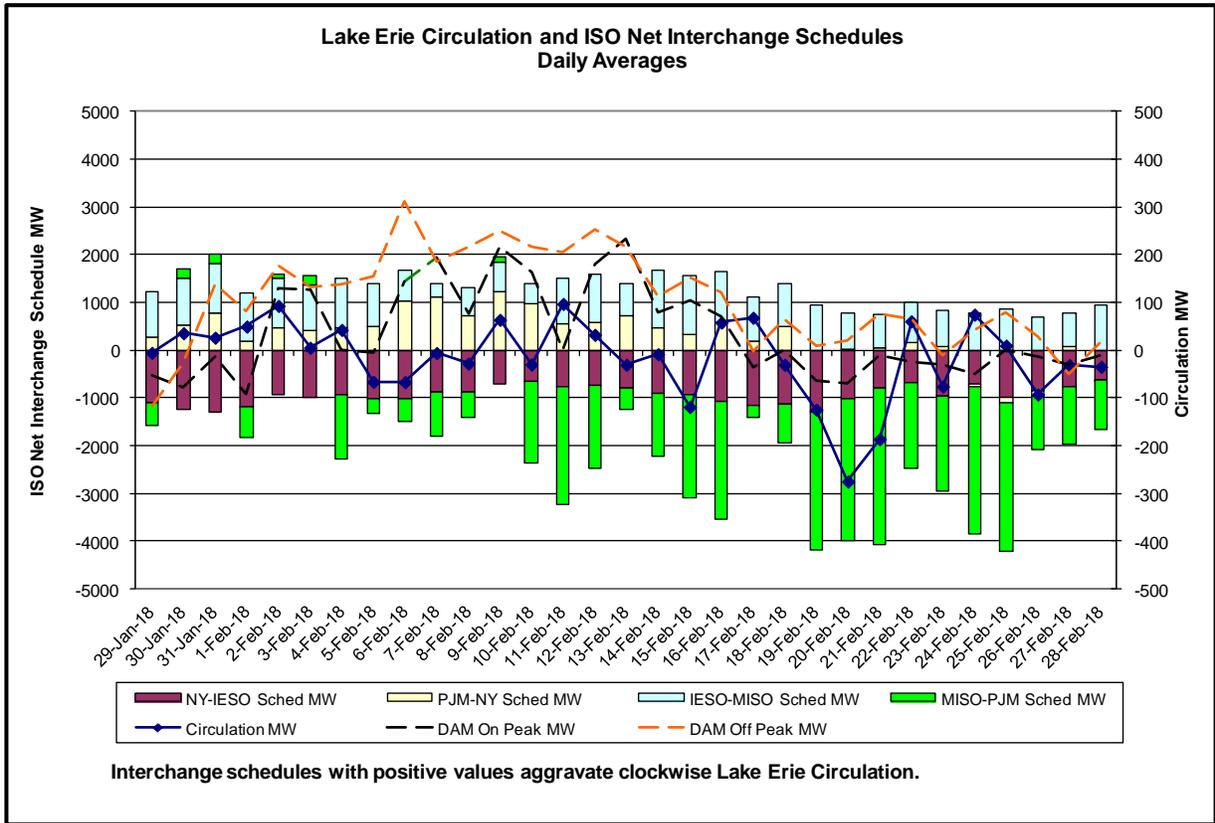
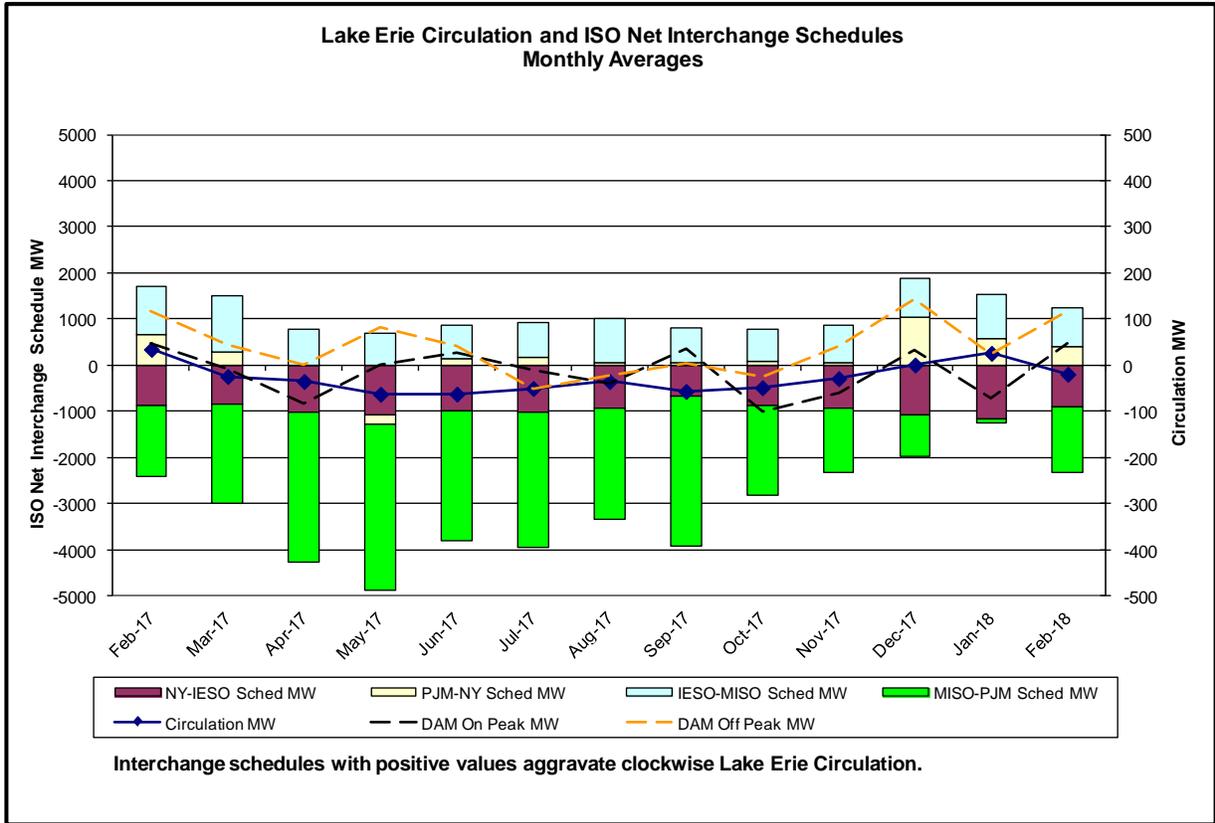
**Hourly Error MW** - Absolute value of the difference between the hourly average actual load demand and the average hour ahead forecast load demand.  
**Average Hourly Error %** - Average value of the ratio of hourly average error magnitude to hourly average actual load demand.  
**Day-Ahead Average Hourly Error %** - Average across all hours of the month of the absolute value of the difference between actual load demand and the Day-Ahead forecast load demand, divided by the actual load demand.



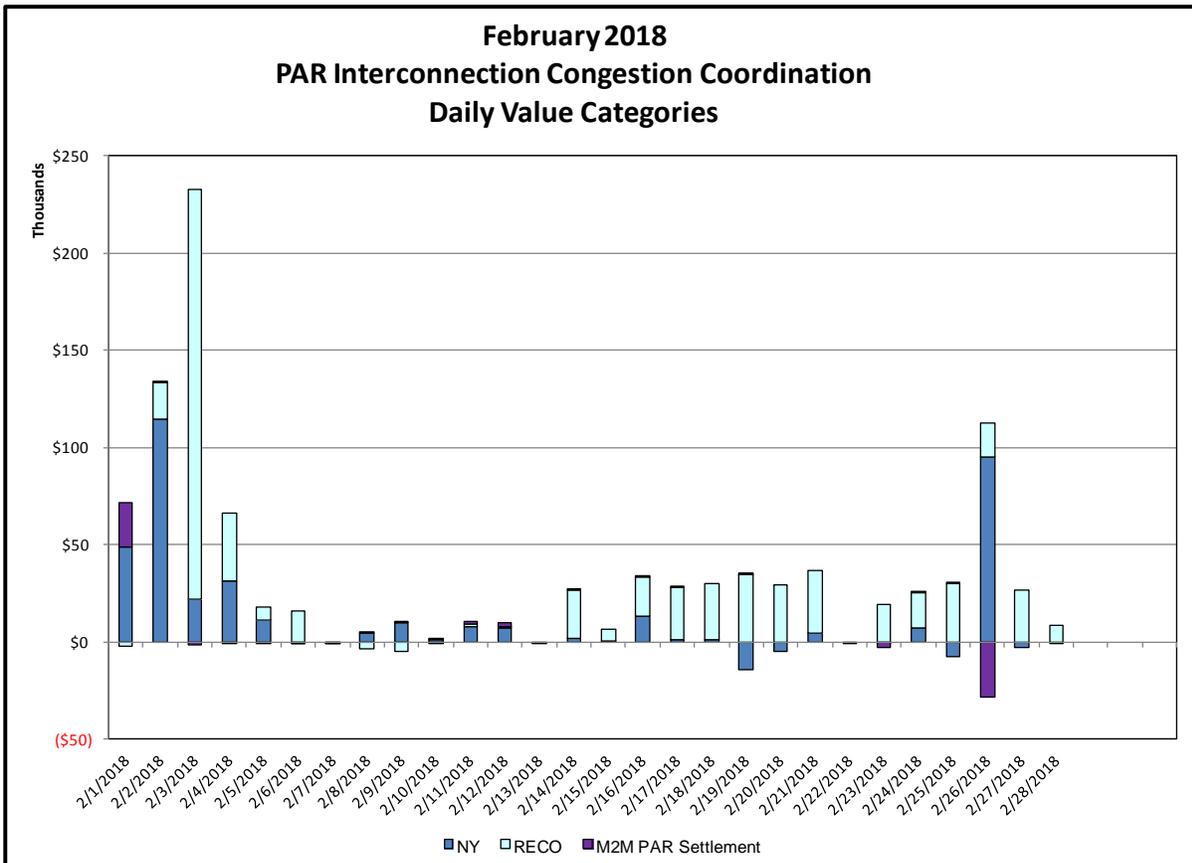
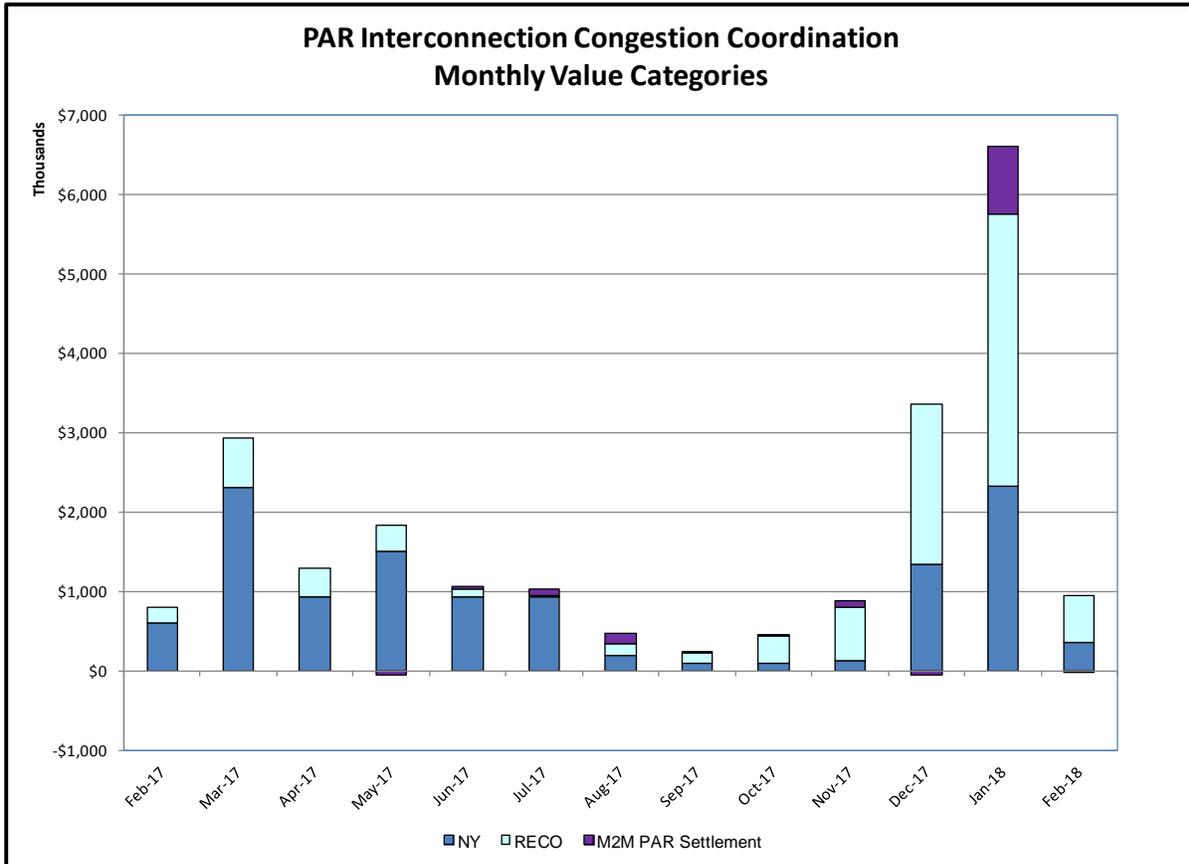






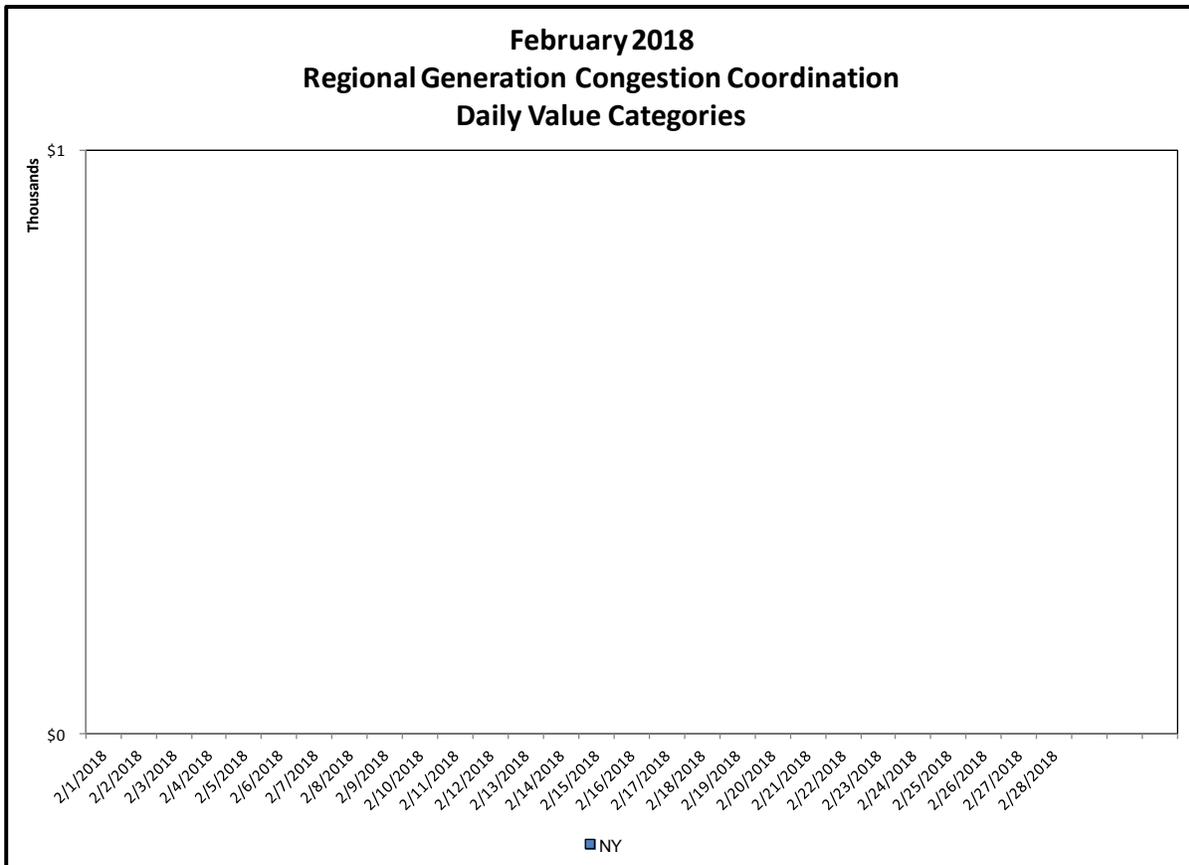
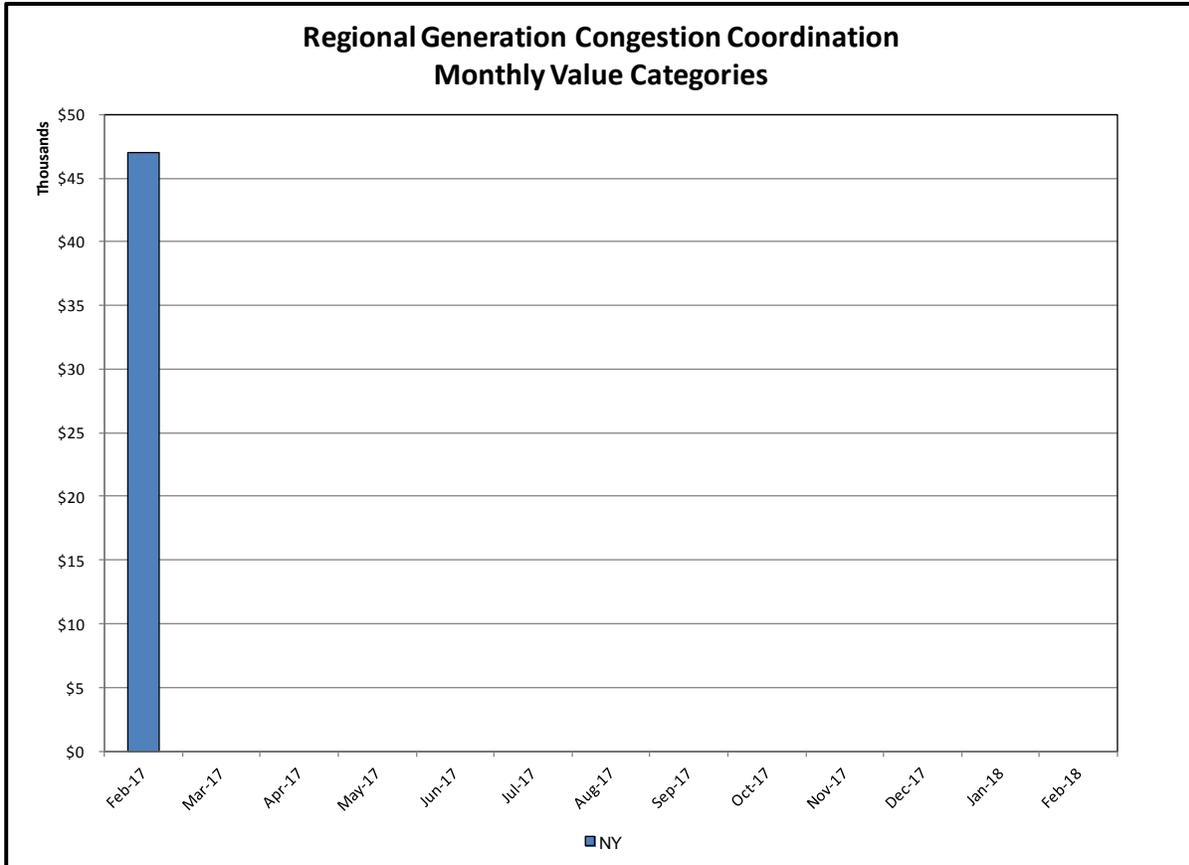


## Broader Regional Market Performance Metrics



**PAR Interconnection Congestion Coordination**

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



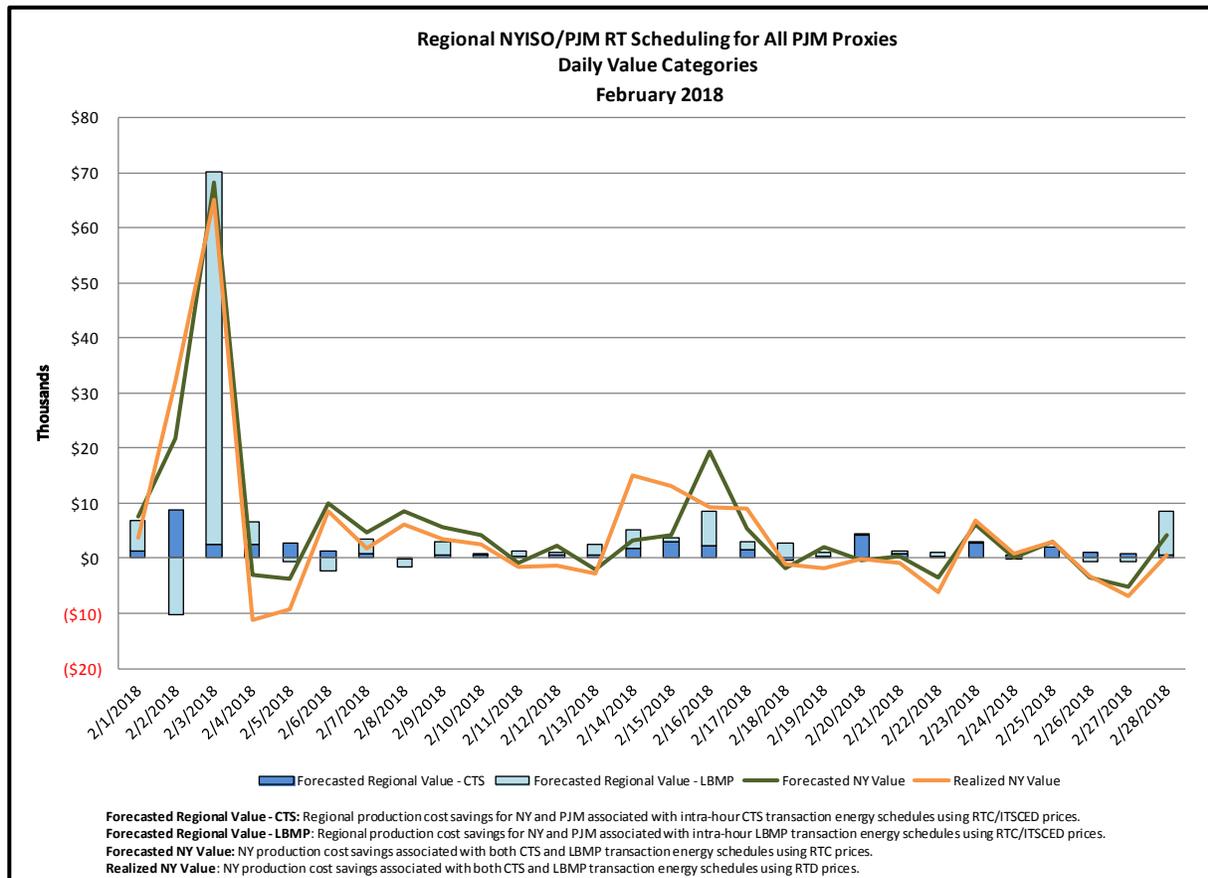
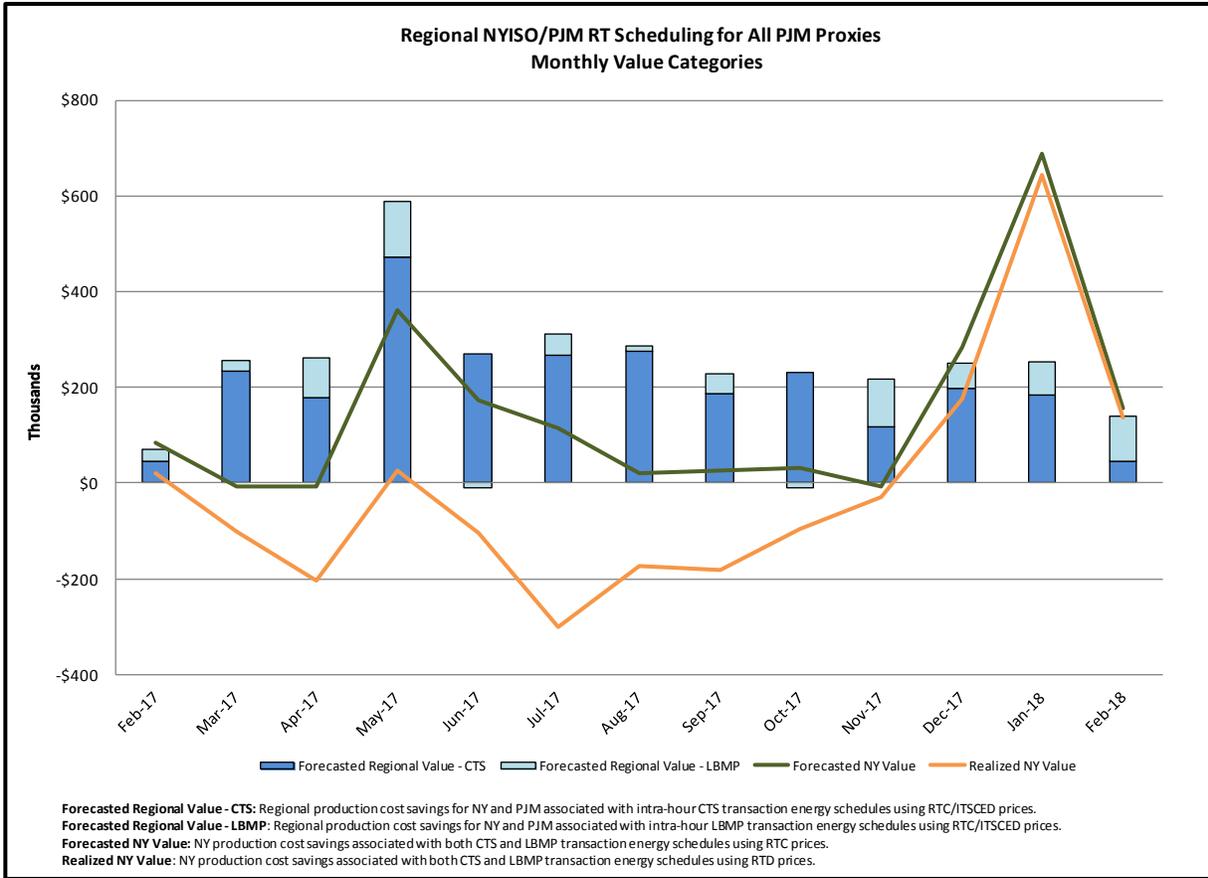
### Regional Generation Congestion Coordination

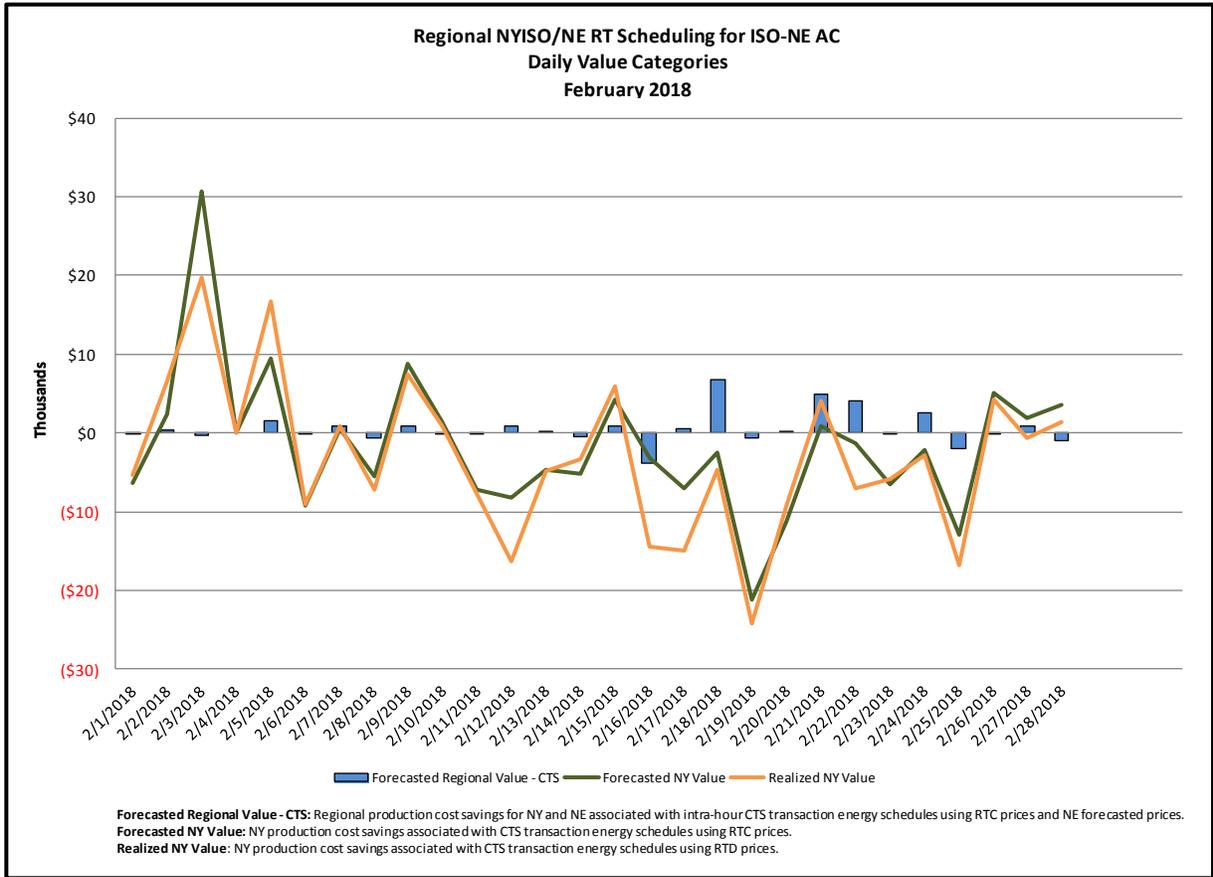
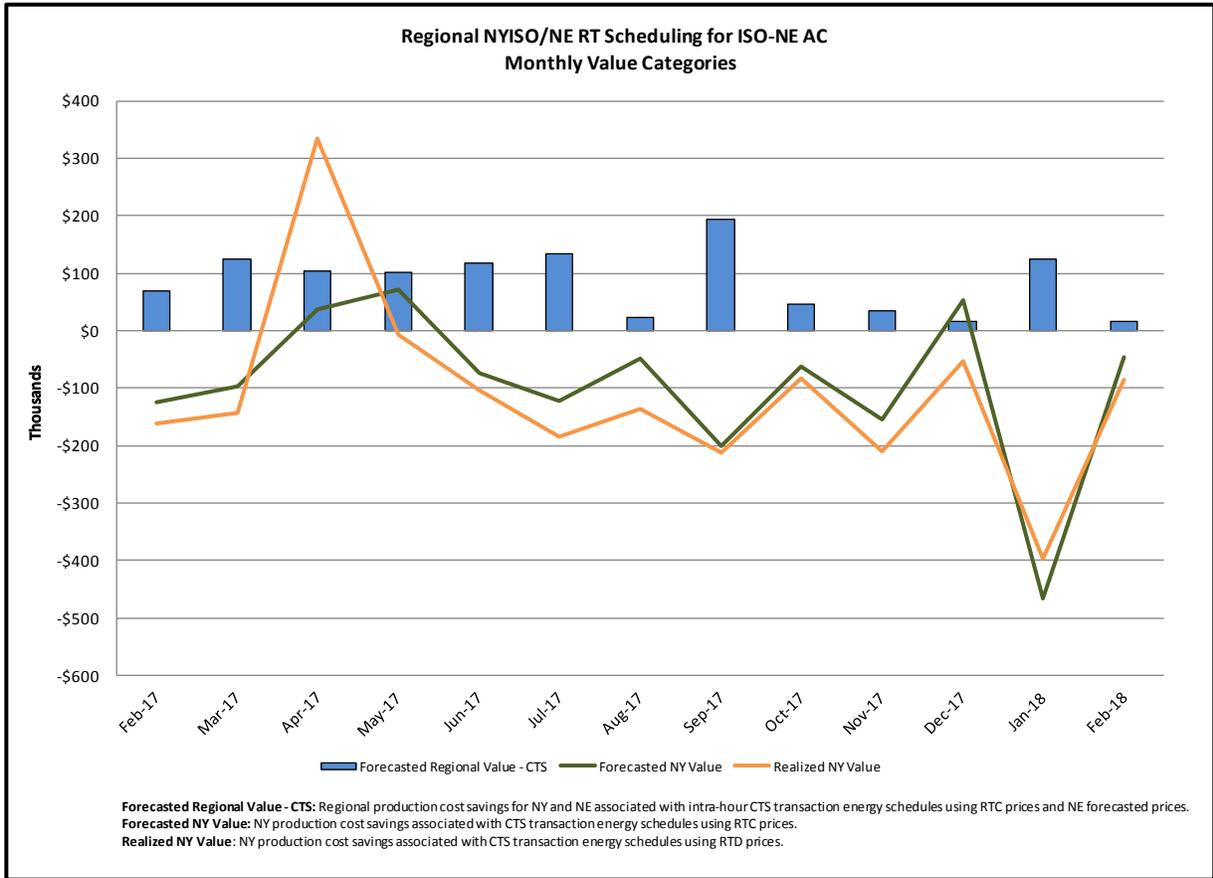
Category

NY

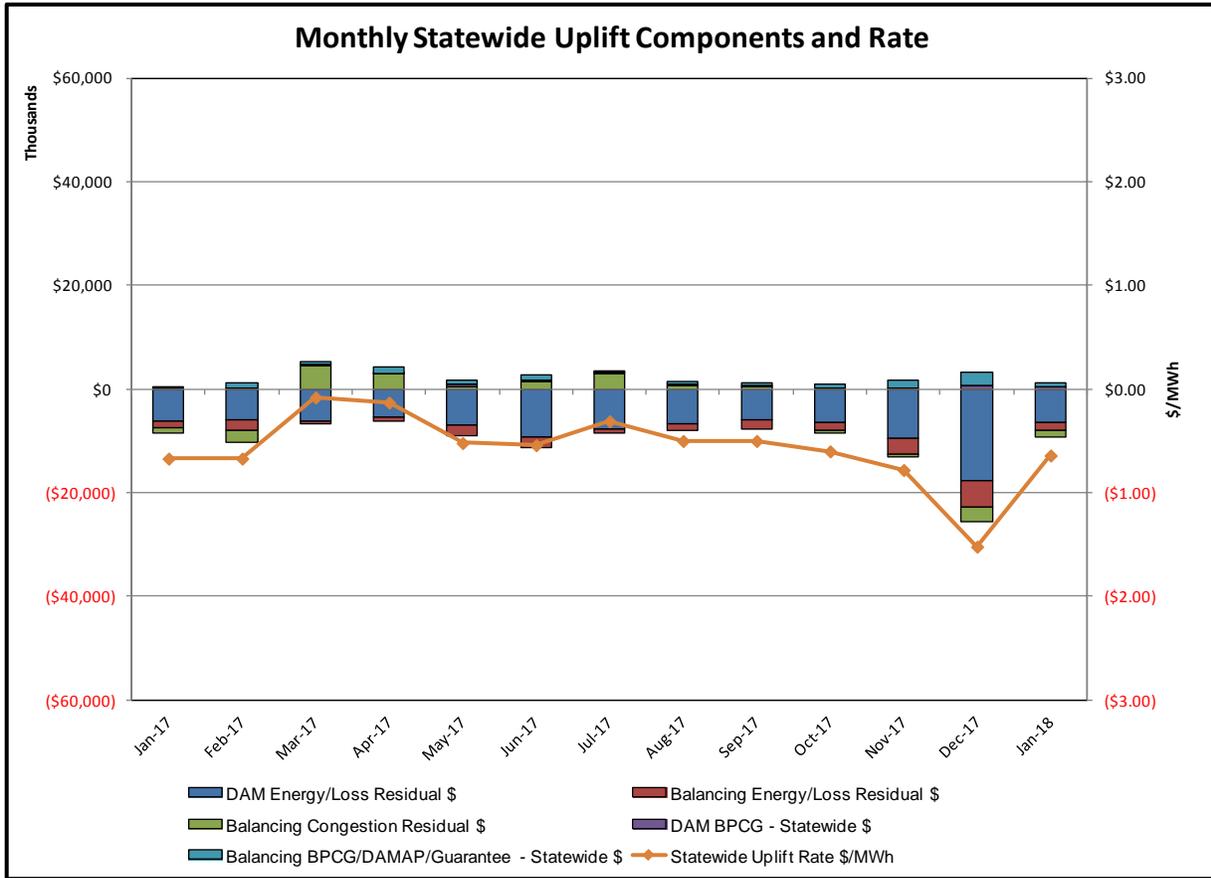
Description

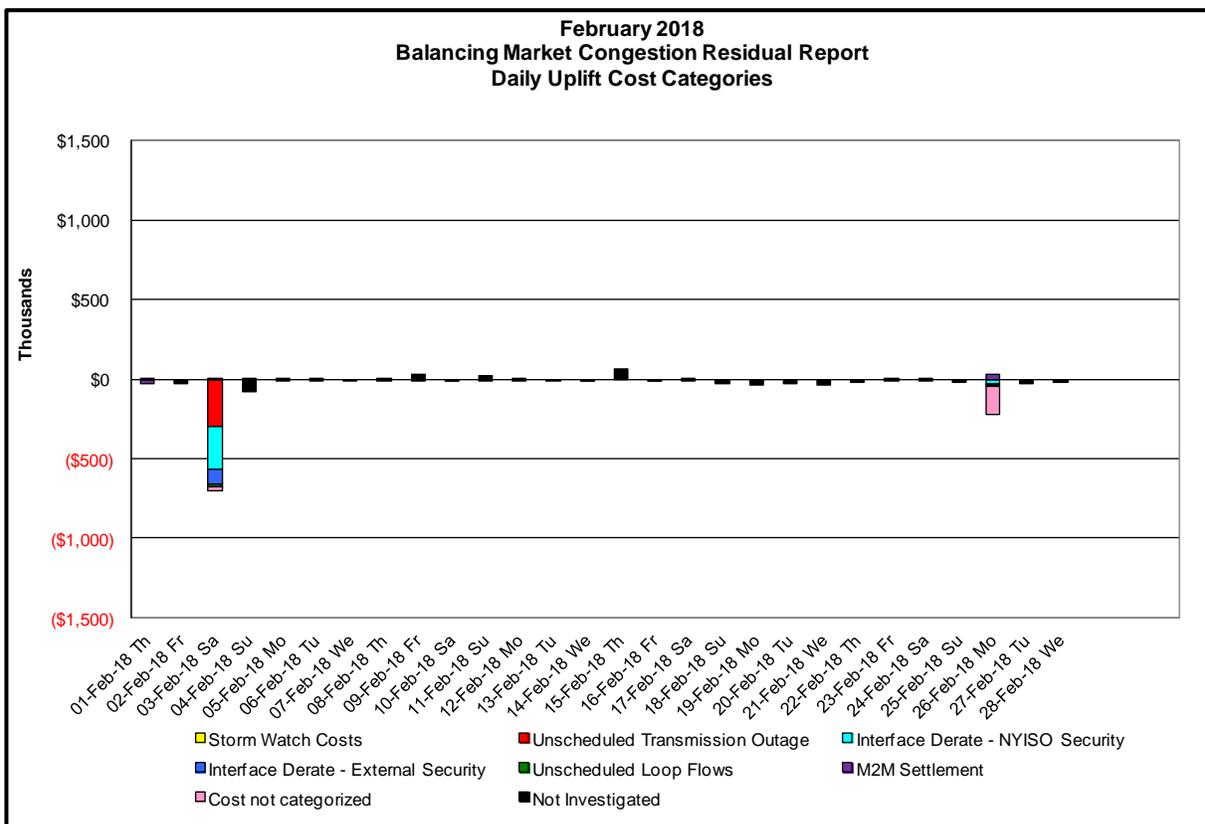
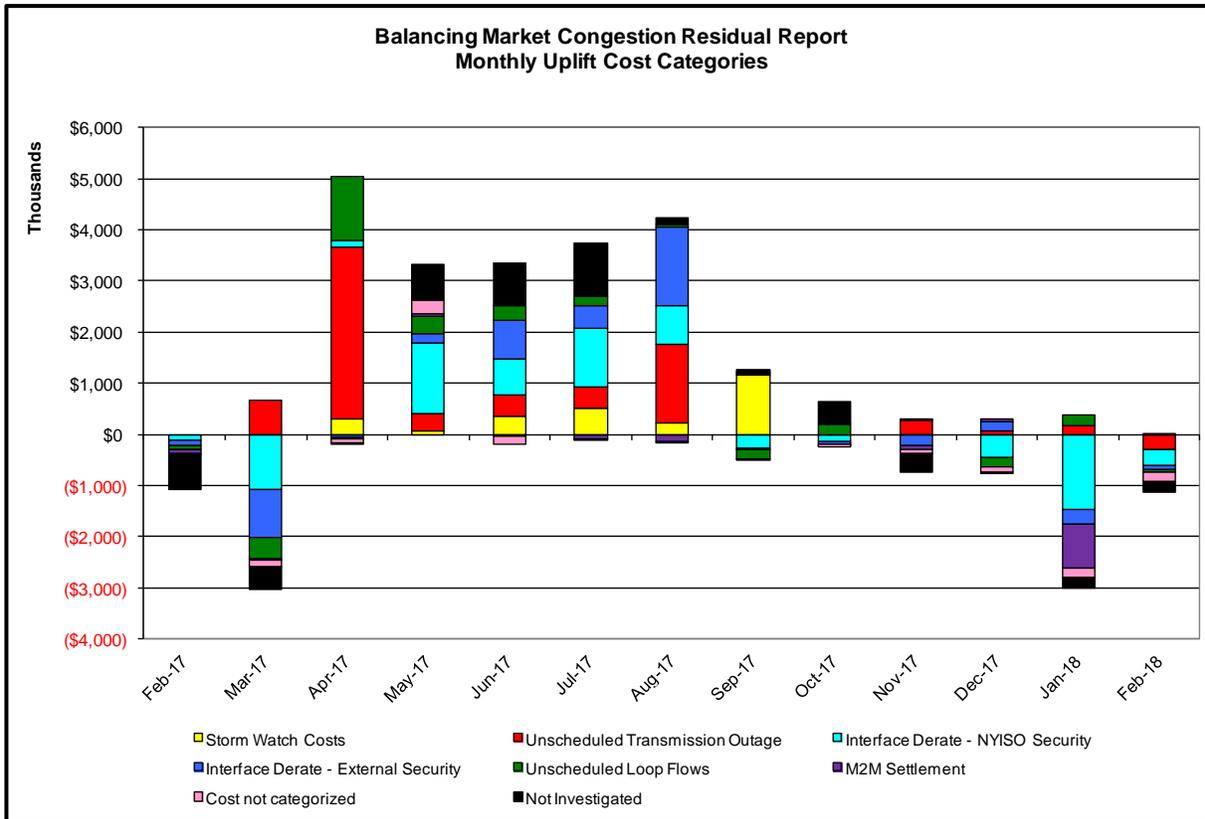
NYISO savings that result from PJM payments to NYISO when PJM's transmission use (PJM's market flow) is greater than PJM's entitlement of the NY transmission system and NYISO is incurring Western or Central NY congestion. Additionally, NYISO savings may result from the more efficient regional utilization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





### Market Performance Metrics





Day's investigated in February: 3, 26

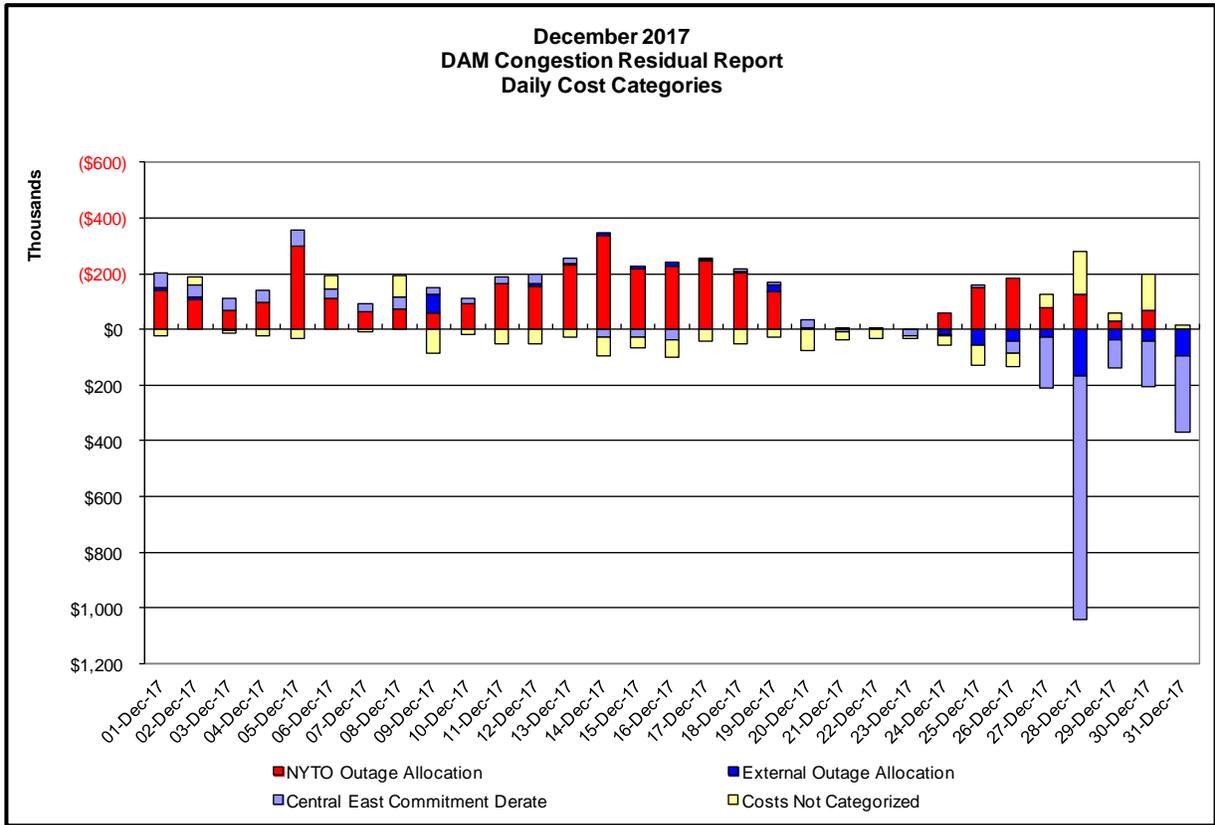
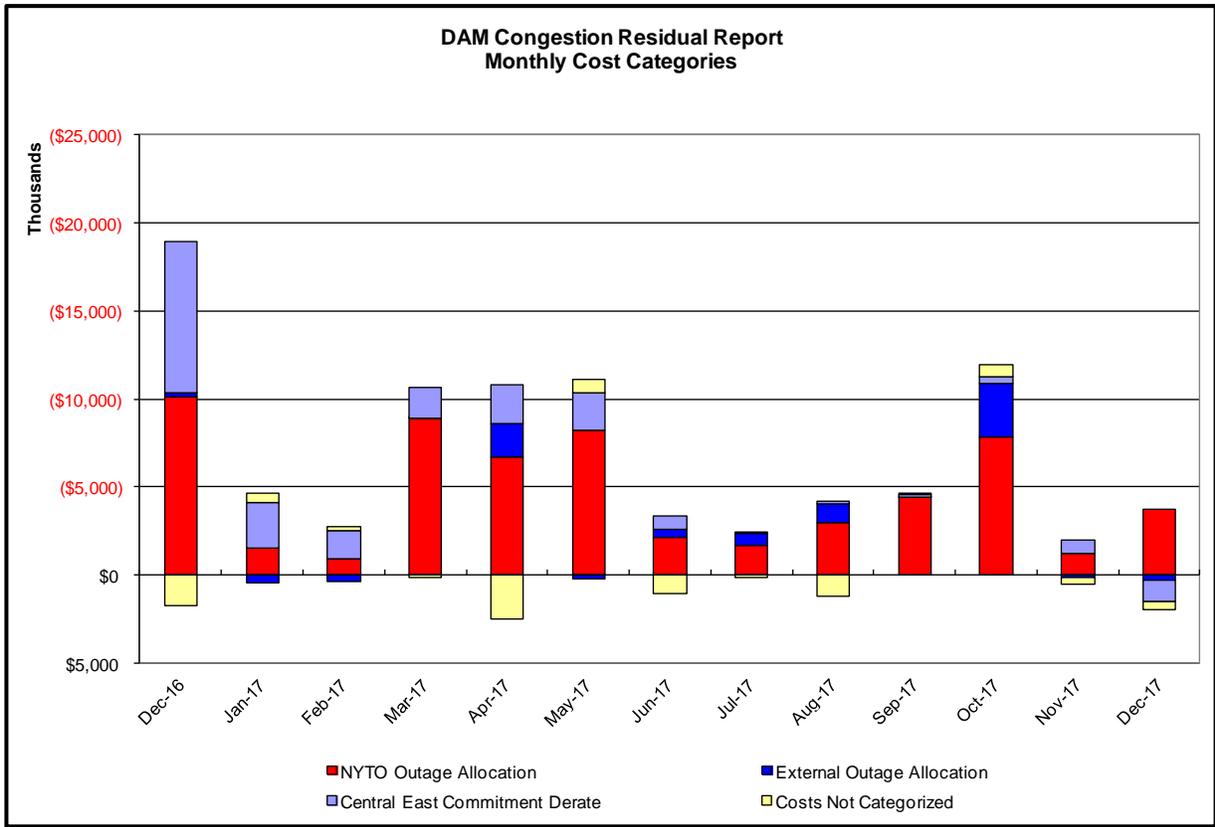
Event	Date (yyyymmdd)	Hours	Description
	2/3/2018	8-10	Forced outage of Chateaugay-Massena 765kV (#7040) and Massena-Marcy 765kV (#MSU1)
	2/3/2018	12,17,18	Early return to service of Edic-New Scotland 345kV (#18)
	2/3/2018	1,9	NYCA DNI Ramp Limit
	2/3/2018	0-3,7,8,11,23	Uprate Central East
	2/3/2018	1,7,8,11,18	NE_AC-NY Scheduling Limit
	2/3/2018	23	PJM_AC DNI Ramp Limit
	2/3/2018	3,12	NE_NNC1385-NY Scheduling Limit
	2/3/2018	7,11	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East
	2/26/2018	0,4,5,11-13,15,16,19-23	Uprate Central East
	2/26/2018	10,14	Derate Dunwoodie-Shore Road 345kV (#Y50) for l/o NEPTUNE HVDC TIE LINE
	2/26/2018	1,7,11,15	NE_AC-NY Scheduling Limit
	2/26/2018	4	NE_AC DNI Ramp Limit
	2/26/2018	0,1,4,5,11	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East

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

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

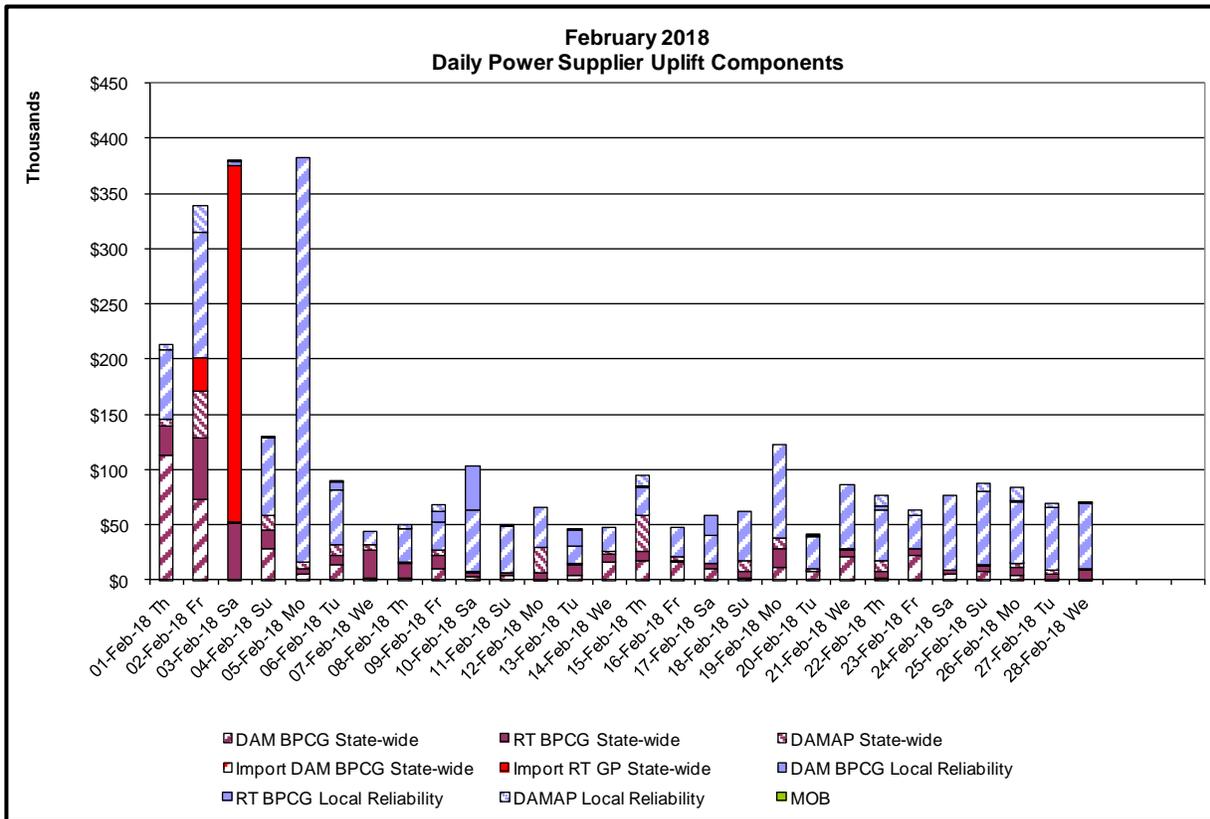
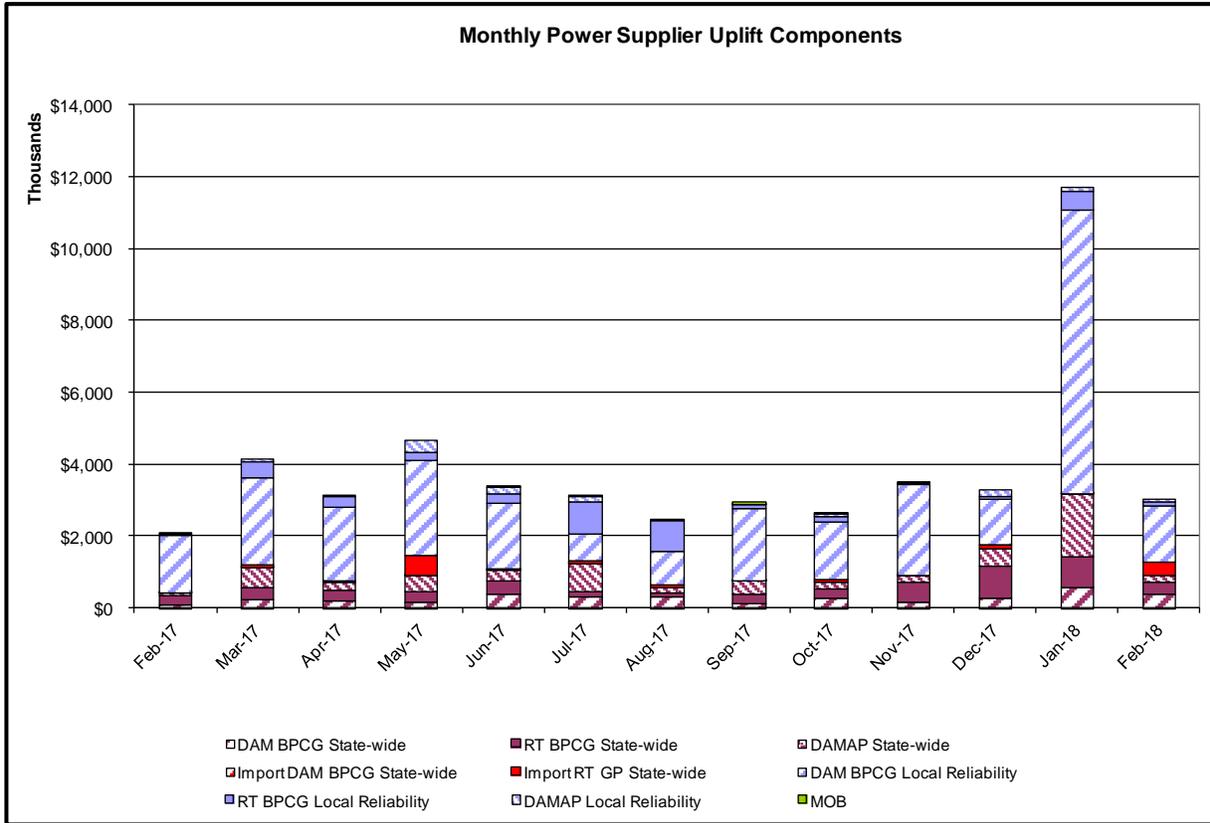
**Monthly Balancing Market Congestion Report Assumptions/Notes**

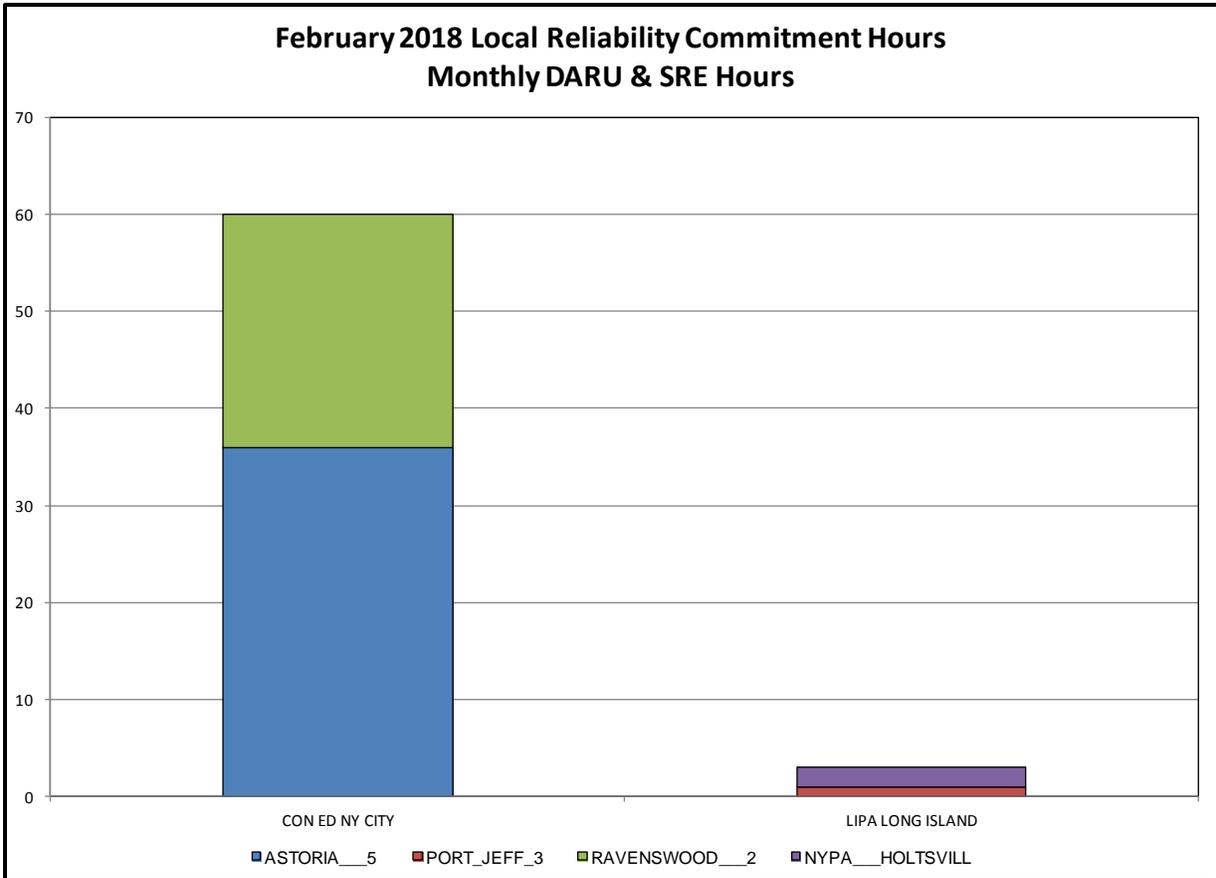
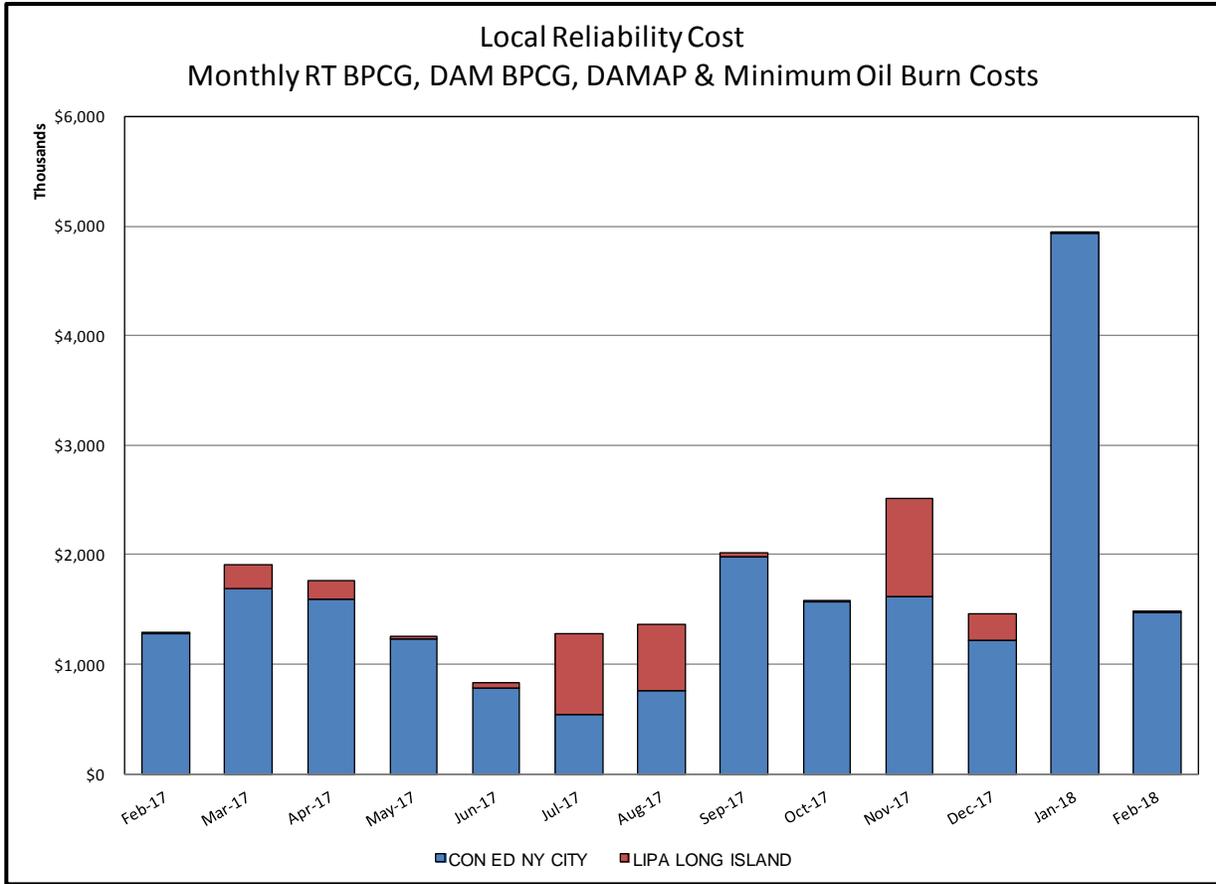
- 1) Storm Watch Costs are identified as daily total uplift costs
- 2) Days with a value of BMCR less M2M Settlement of \$100K/HR, shortfall of \$200K/Day or more, or surplus of \$100K/Day or more are investigated.
- 3) Uplift costs associated with multiple event types are apportioned equally by hour

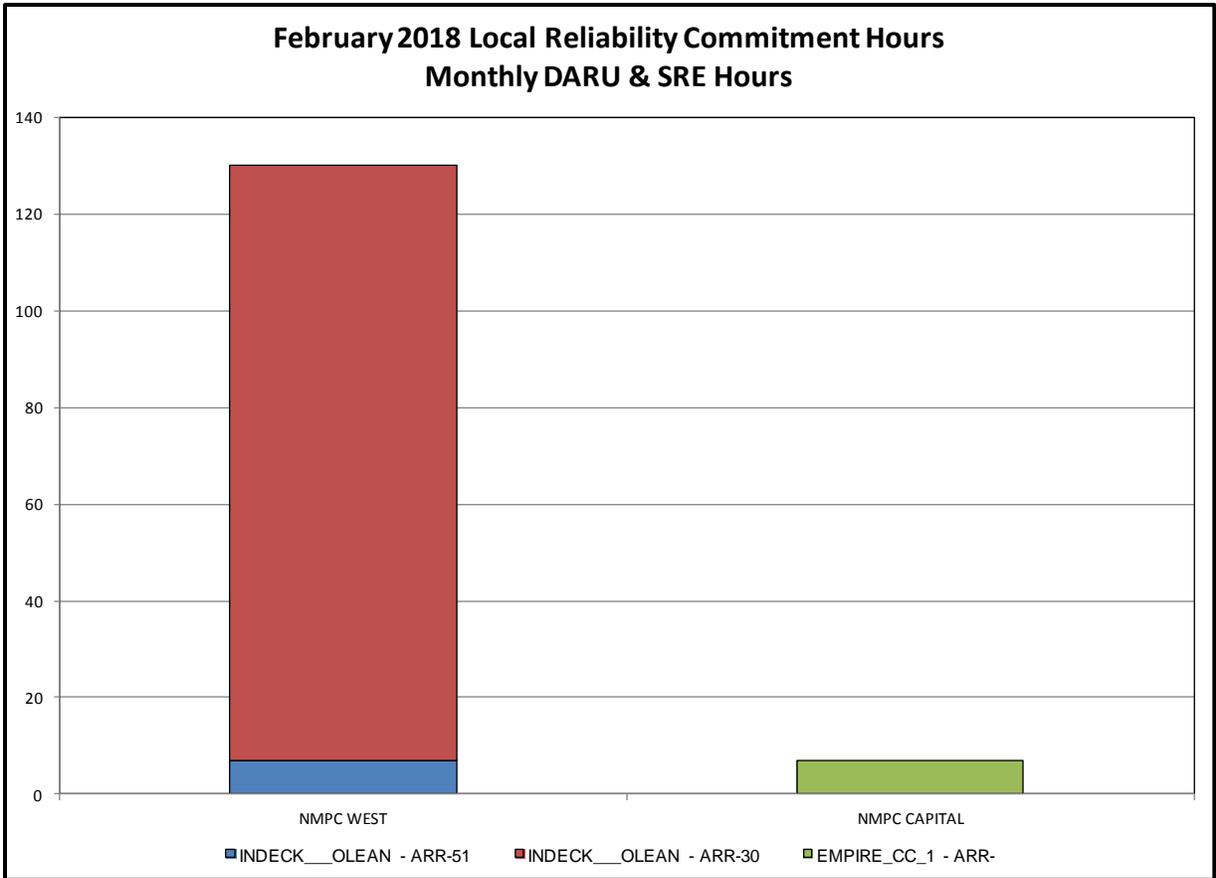
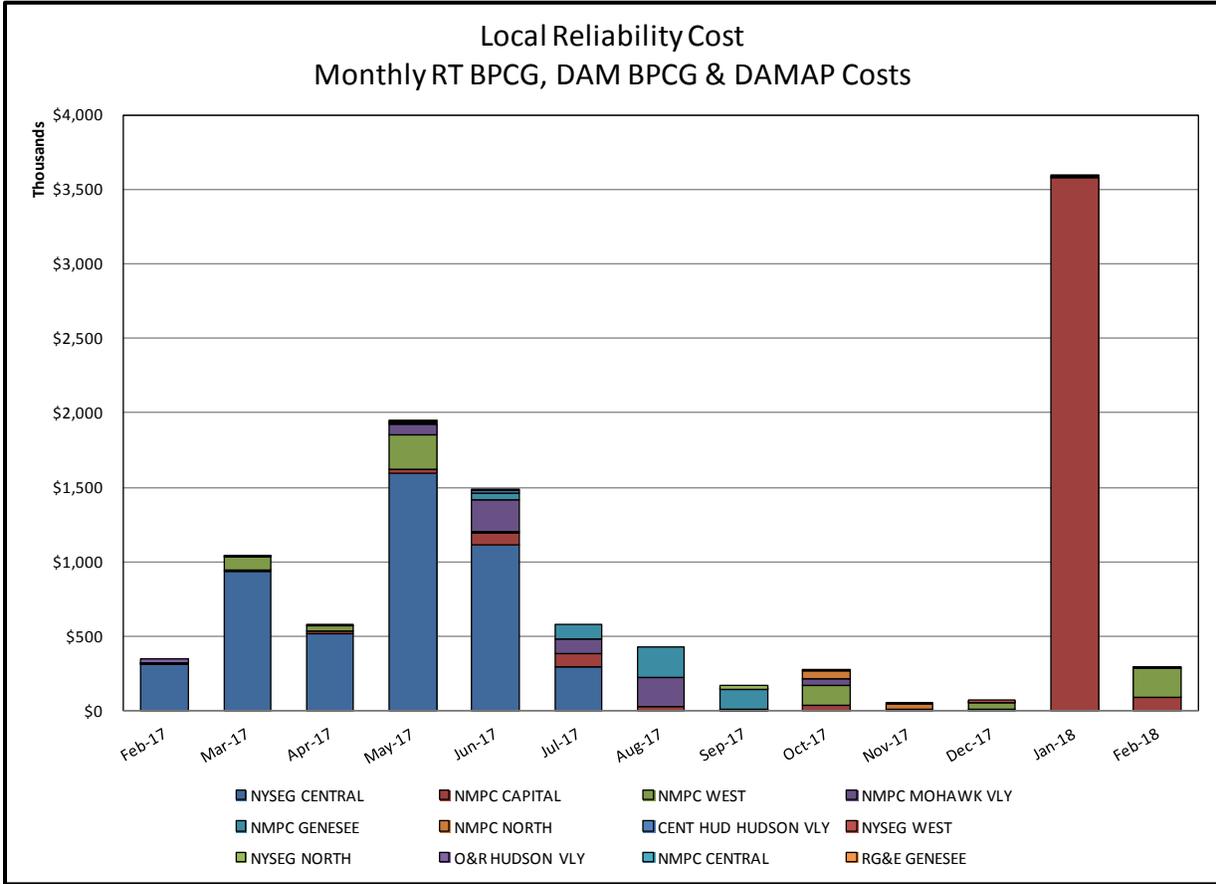


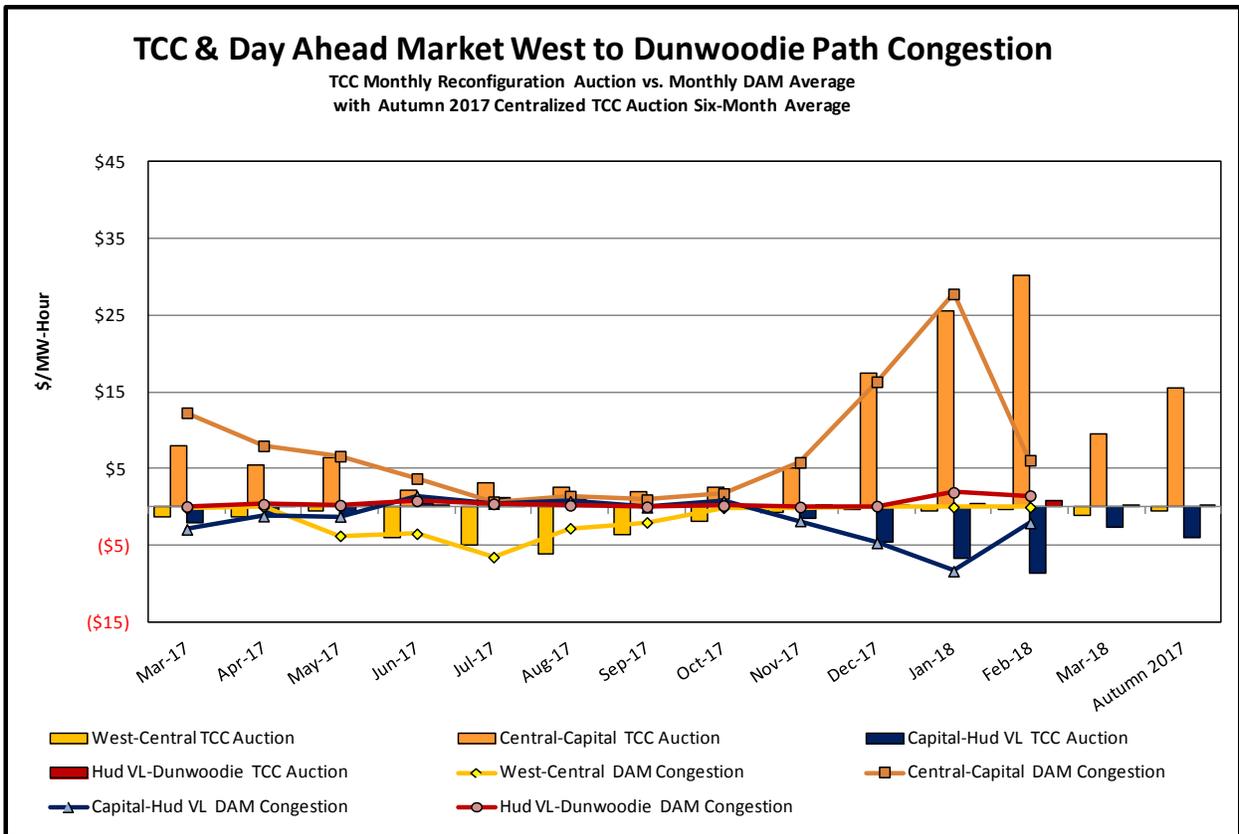
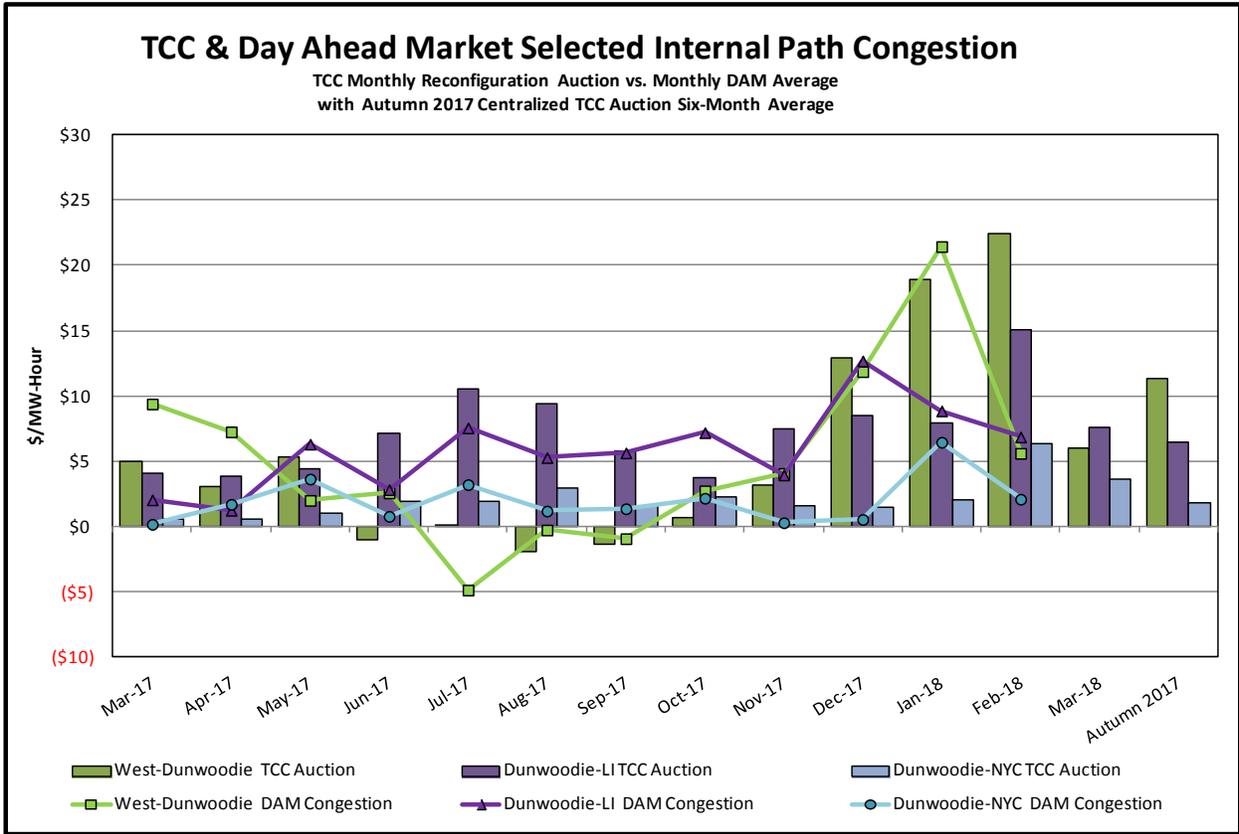
**Day-Ahead Market Congestion Residual Categories**

<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.	



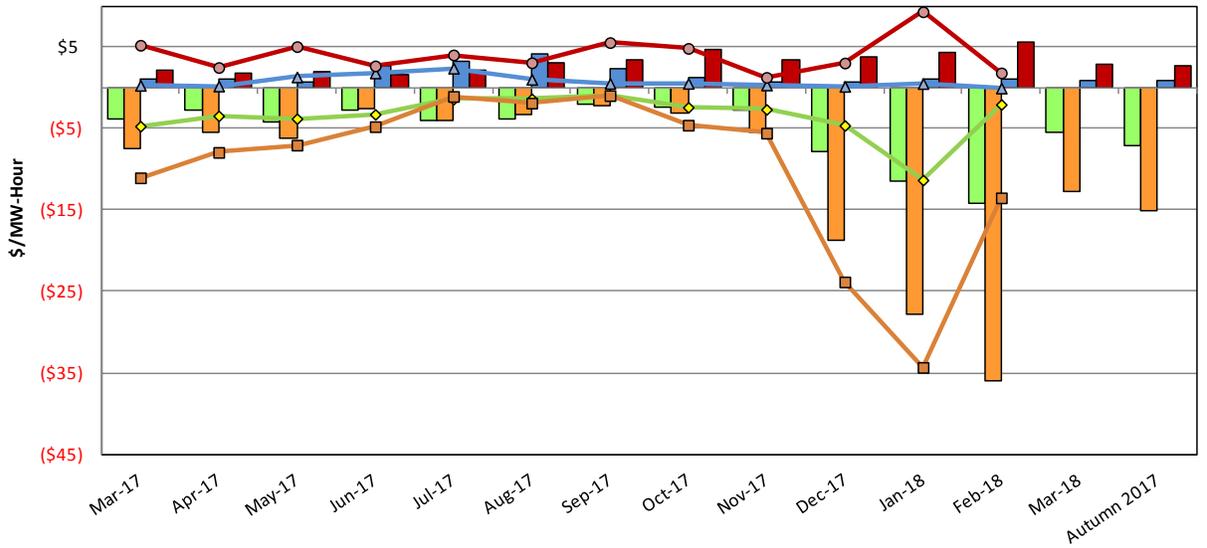




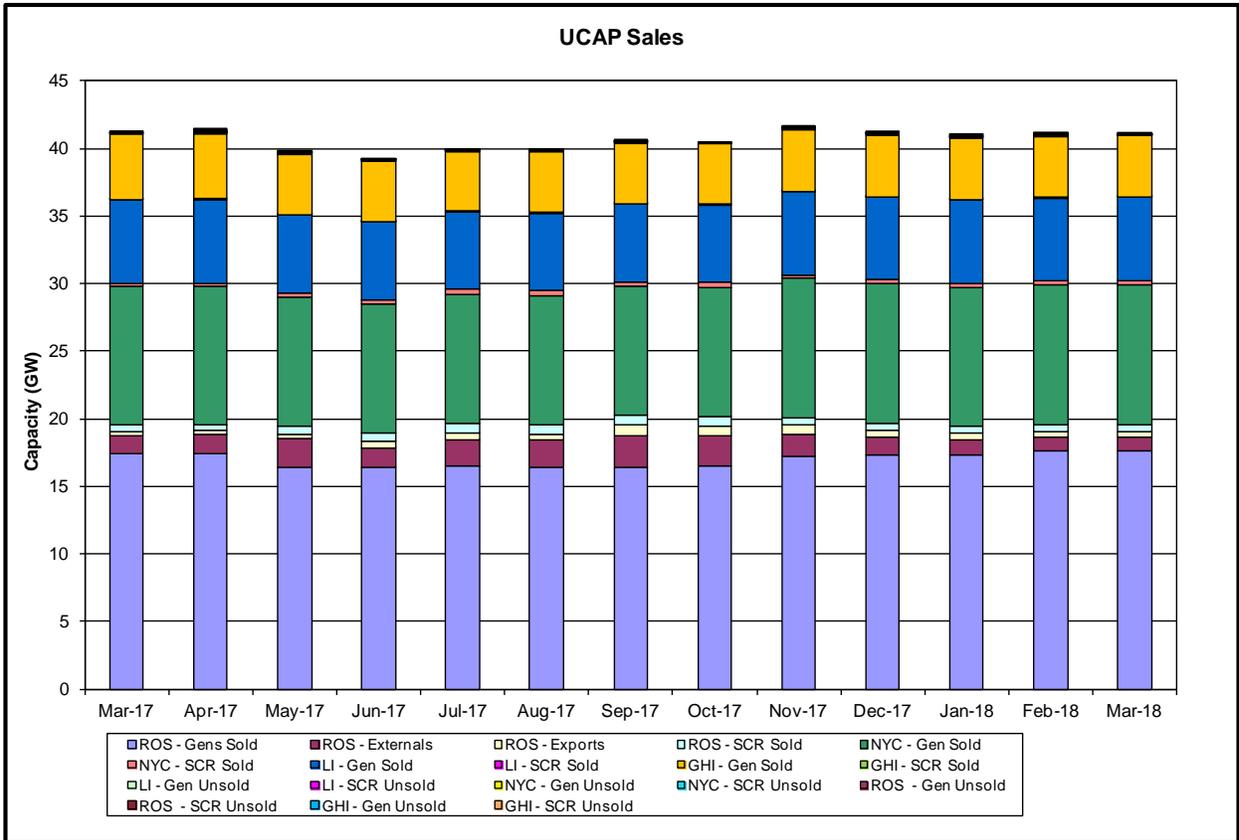
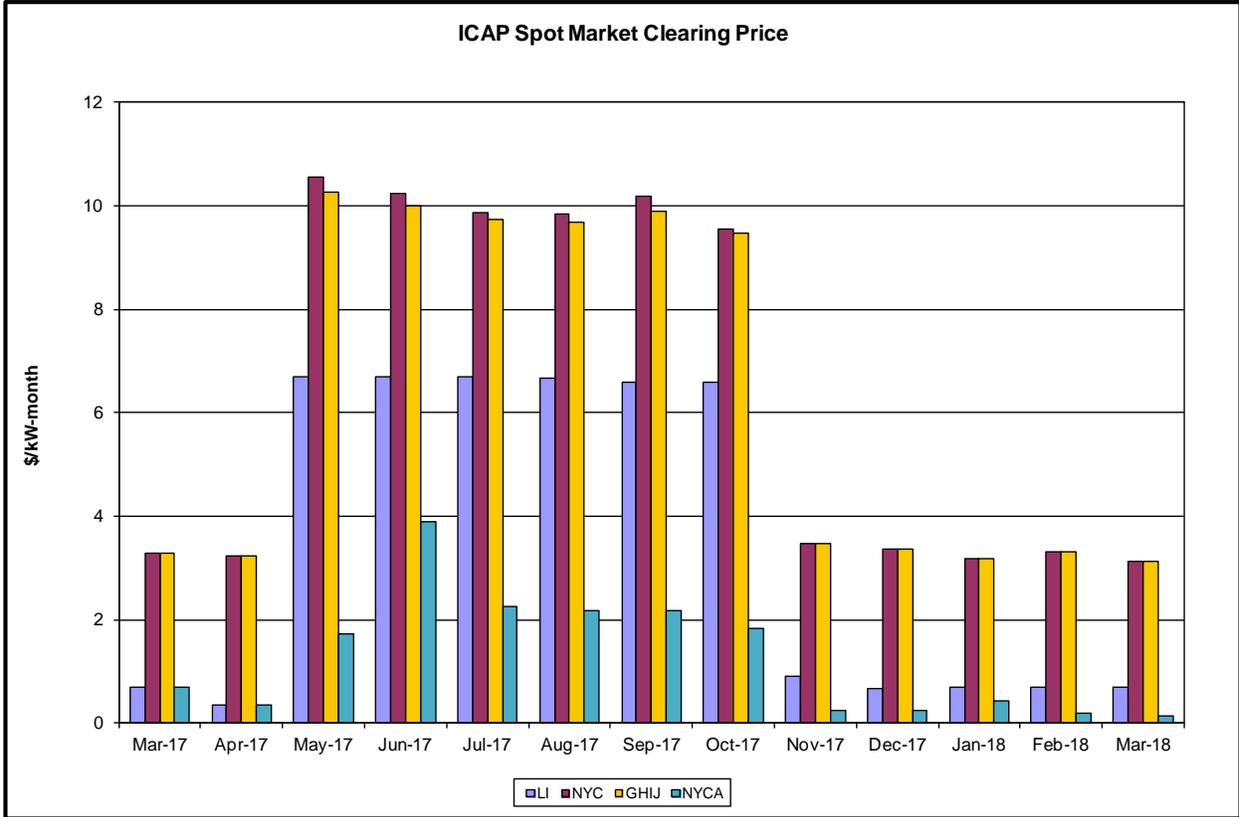


### TCC & Day Ahead Market Selected External Path Congestion

TCC Monthly Reconfiguration Auction vs. Monthly DAM Average  
with Autumn 2017 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

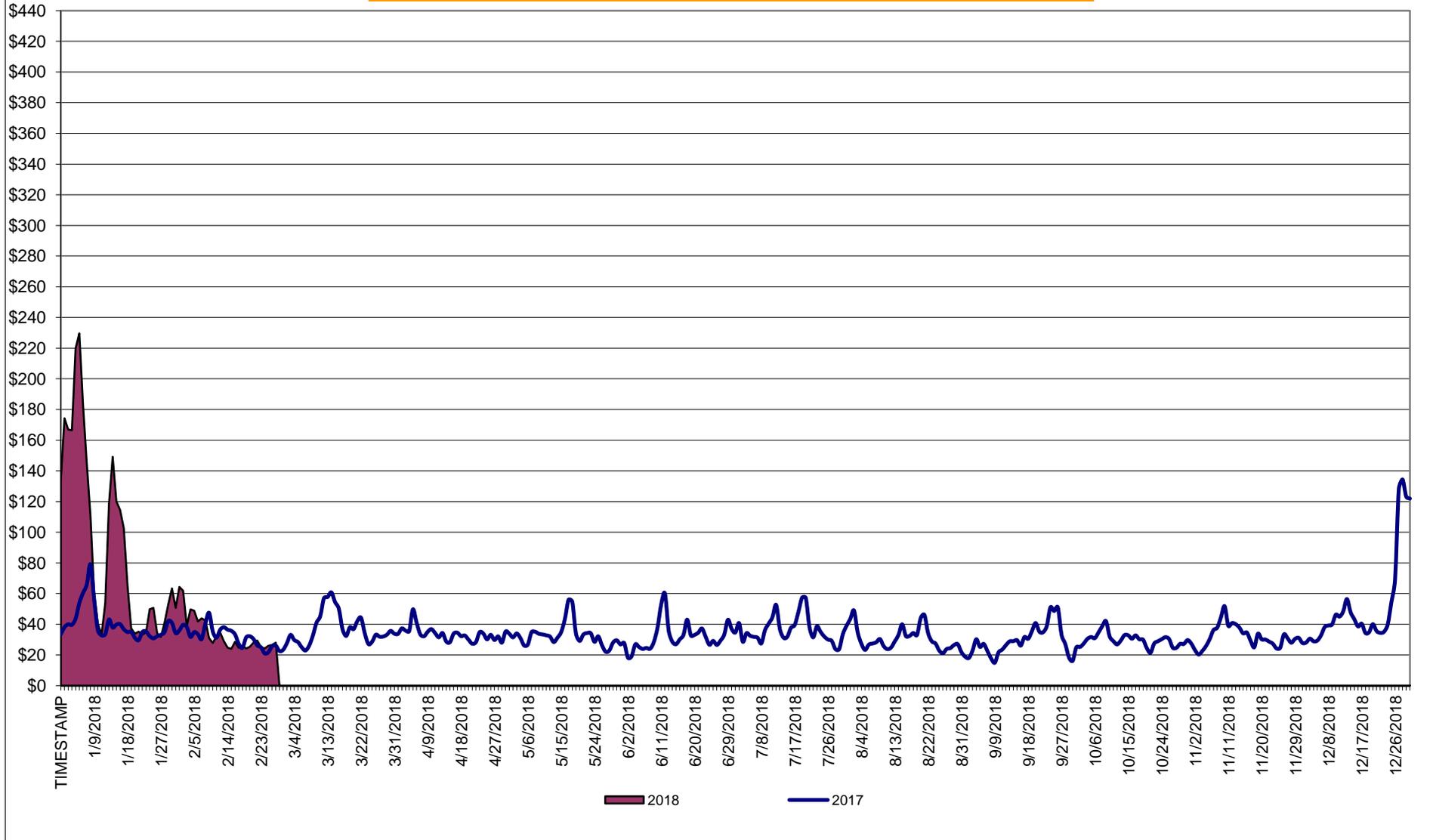


# Market Performance Highlights

## February 2018

- LBMP for February is \$33.83/MWh; lower than \$99.55/MWh in January 2018 and higher than \$30.95/MWh in February 2017.
  - Day Ahead and Real Time Load Weighted LBMPs are lower compared to January.
- February 2018 average year-to-date monthly cost of \$72.85/MWh is a 92% increase from \$38.02/MWh in February 2017.
- Average daily sendout is 426 GWh/day in February; lower than 463 GWh/day in January 2018 and higher 418 GWh/day in February 2017.
- Natural gas and distillate prices were lower compared to the previous month.
  - Natural Gas (Transco Z6 NY) was \$3.14/MMBtu, down from \$17.94/MMBtu in January.
  - Natural gas prices are up 11.1% year-over-year.
  - Jet Kerosene Gulf Coast was \$13.72/MMBtu, down from \$14.47/MMBtu in January.
  - Ultra Low Sulfur No.2 Diesel NY Harbor was \$13.86/MMBtu, down from \$14.83/MMBtu in January.
  - Distillate prices are up 19.3% year-over-year.
- Uplift per MWh is higher compared to the previous month.
  - Uplift (not including NYISO cost of operations) is (\$0.50)/MWh; higher than (\$0.92)/MWh in January.
    - Local Reliability Share is \$0.14/MWh, lower than \$0.59/MWh in January.
    - Statewide Share is (\$0.64)/MWh, higher than (\$1.52)/MWh in January.
  - TSA \$ per NYC MWh is \$0.00/MWh.
  - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are higher than January.

**Daily NYISO Average Cost/MWh (Energy & Ancillary Services)\***  
**2017 Annual Average \$36.56/MWh**  
**February 2017 YTD Average \$38.36/MWh**  
**February 2018 YTD Average \$72.85/MWh**



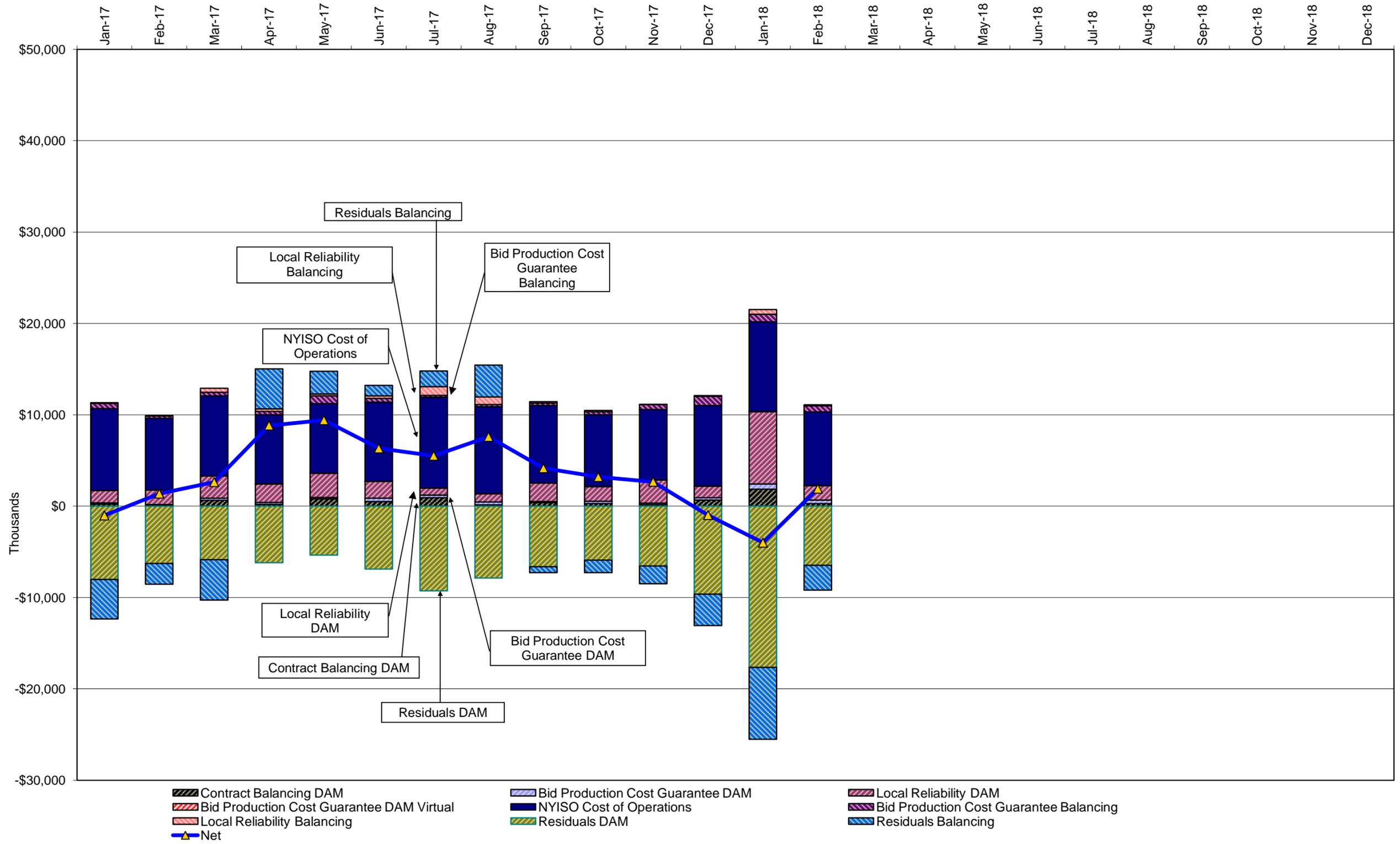
\* Excludes ICAP payments.

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

<b>2018</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	99.55	33.83										
NTAC	0.71	0.58										
Reserve	0.92	0.65										
Regulation	0.15	0.15										
NYISO Cost of Operations	0.65	0.65										
FERC Fee Recovery	0.08	0.10										
Uplift	(0.92)	(0.50)										
Uplift: Local Reliability Share	0.59	0.14										
Uplift: Statewide Share	(1.52)	(0.64)										
Voltage Support and Black Start	0.40	0.41										
<b>Avg Monthly Cost</b>	<b>101.54</b>	<b>35.87</b>										
Avg YTD Cost	101.54	72.85										
TSA \$ per NYC MWh	0.00	0.00										
<b>2017</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	40.07	30.95	34.97	31.06	31.74	31.76	35.84	30.57	29.57	28.35	30.60	52.63
NTAC	0.66	1.11	0.86	1.05	0.79	0.62	0.87	0.59	0.62	0.50	0.75	0.81
Reserve	0.70	0.67	0.74	0.70	0.61	0.55	0.48	0.44	0.47	0.59	0.55	0.71
Regulation	0.14	0.12	0.13	0.17	0.16	0.13	0.10	0.10	0.11	0.13	0.20	0.15
NYISO Cost of Operations	0.65	0.65	0.65	0.65	0.62	0.63	0.63	0.63	0.63	0.62	0.61	0.60
FERC Fee Recovery	0.09	0.10	0.10	0.12	0.10	0.09	0.07	0.08	0.09	0.10	0.10	0.08
Uplift	(0.73)	(0.54)	(0.46)	0.12	0.10	(0.37)	(0.43)	(0.19)	(0.34)	(0.36)	(0.40)	(0.68)
Uplift: Local Reliability Share	0.10	0.13	0.21	0.20	0.24	0.15	0.11	0.12	0.16	0.14	0.20	0.09
Uplift: Statewide Share	(0.83)	(0.67)	(0.67)	(0.08)	(0.13)	(0.52)	(0.54)	(0.31)	(0.50)	(0.50)	(0.60)	(0.78)
Voltage Support and Black Start	0.37	0.37	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.37	0.37
<b>Avg Monthly Cost</b>	<b>41.96</b>	<b>33.44</b>	<b>37.38</b>	<b>34.26</b>	<b>34.52</b>	<b>33.80</b>	<b>37.94</b>	<b>32.60</b>	<b>31.54</b>	<b>30.31</b>	<b>32.79</b>	<b>54.67</b>
Avg YTD Cost	41.96	38.02	37.81	37.05	36.54	36.01	36.35	35.80	35.34	34.89	34.72	36.56
TSA \$ per NYC MWh	0.00	0.00	0.00	0.08	0.12	0.56	0.42	0.23	0.00	0.00	0.00	0.00

\* Excludes ICAP payments.  
Market Mitigation and Analysis  
Prepared: 3/8/2018 11:31 AM

## NYISO Dollar Flows - Uplift - OATT Schedule 1 components - Data through February 28, 2018



DAM Contract Balancing amounts are for payments made to generating units to make them whole for being dispatched below their Day-Ahead schedule, as a result of out-of-merit dispatches.  
 DAM Bid Production Cost Guarantees for Virtual Transactions are included in the chart and are shown from the inception of Virtual Transactions. These values are small and cannot be identified on the chart.  
 DAM residuals consist of both energy and loss revenue collections and payments. By design, there is a net over collection of revenues due to the difference between the marginal losses paid to generation and the average losses charged to loads.

## NYISO Markets Transactions

<b>2018</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>	15,153,751	12,643,854										
DAM LSE Internal LBMP Energy Sales	59%	57%										
DAM External TC LBMP Energy Sales	4%	3%										
DAM Bilateral - Internal Bilaterals	29%	31%										
DAM Bilateral - Import/Non-LBMP Market Bilaterals	5%	5%										
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	2%										
DAM Bilateral - Wheel Through Bilaterals	1%	2%										
<b>Balancing Energy Market MWh</b>	-149,619	-299,377										
Balancing Energy LSE Internal LBMP Energy Sales	-147%	-101%										
Balancing Energy External TC LBMP Energy Sales	74%	24%										
Balancing Energy Bilateral - Internal Bilaterals	9%	5%										
Balancing Energy Bilateral - Import/Non-LBMP Market Bilaterals	0%	0%										
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	22%	9%										
Balancing Energy Bilateral - Wheel Through Bilaterals	-58%	-36%										
<b>Transactions Summary</b>												
LBMP	63%	59%										
Internal Bilaterals	30%	32%										
Import Bilaterals	5%	5%										
Export Bilaterals	2%	2%										
Wheels Through	1%	1%										
<b>Market Share of Total Load</b>												
Day Ahead Market	101.0%	102.4%										
Balancing Energy +	-1.0%	-2.4%										
Total MWh	15,004,132	12,344,477										
Average Daily Energy Sendout/Month GWh	463	426										

<b>2017</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>	14,135,019	12,565,206	13,983,865	12,061,475	12,966,981	14,406,180	16,505,801	15,948,927	14,100,695	13,252,368	13,042,826	14,829,403
DAM LSE Internal LBMP Energy Sales	57%	57%	55%	54%	58%	60%	62%	61%	57%	55%	53%	55%
DAM External TC LBMP Energy Sales	2%	2%	1%	1%	1%	1%	1%	1%	1%	2%	3%	5%
DAM Bilateral - Internal Bilaterals	32%	32%	34%	35%	33%	31%	29%	29%	32%	34%	34%	32%
DAM Bilateral - Import/Non-LBMP Market Bilaterals	5%	5%	5%	6%	4%	5%	4%	5%	5%	5%	5%	5%
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	2%	2%	2%	2%	2%	1%	2%	2%	2%	2%	2%
DAM Bilateral - Wheel Through Bilaterals	2%	2%	2%	2%	2%	2%	3%	3%	4%	2%	3%	2%
<b>Balancing Energy Market MWh</b>	-256,448	-407,284	-509,053	-466,426	-666,048	-564,312	-747,473	-853,898	-633,990	-510,721	-410,072	-254,003
Balancing Energy LSE Internal LBMP Energy Sales	-157%	-132%	-148%	-115%	-120%	-114%	-100%	-87%	-76%	-102%	-108%	-99%
Balancing Energy External TC LBMP Energy Sales	64%	39%	44%	22%	28%	23%	18%	13%	12%	26%	45%	25%
Balancing Energy Bilateral - Internal Bilaterals	15%	8%	12%	5%	1%	4%	3%	2%	3%	5%	5%	-1%
Balancing Energy Bilateral - Import/Non-LBMP Market Bilaterals	0%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	10%	7%	5%	4%	3%	3%	1%	1%	1%	4%	7%	9%
Balancing Energy Bilateral - Wheel Through Bilaterals	-32%	-26%	-13%	-15%	-12%	-16%	-22%	-29%	-40%	-33%	-49%	-34%
<b>Transactions Summary</b>												
LBMP	58%	57%	55%	54%	58%	60%	62%	61%	58%	56%	56%	60%
Internal Bilaterals	33%	34%	36%	37%	34%	32%	30%	31%	33%	36%	36%	32%
Import Bilaterals	5%	5%	5%	6%	4%	5%	5%	5%	5%	5%	5%	5%
Export Bilaterals	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%
Wheels Through	2%	2%	2%	2%	2%	1%	2%	2%	2%	1%	1%	1%
<b>Market Share of Total Load</b>												
Day Ahead Market	101.8%	103.3%	103.8%	104.0%	105.4%	104.1%	104.7%	105.7%	104.7%	104.0%	103.2%	101.7%
Balancing Energy +	-1.8%	-3.3%	-3.8%	-4.0%	-5.4%	-4.1%	-4.7%	-5.7%	-4.7%	-4.0%	-3.2%	-1.7%
Total MWh	13,878,571	12,157,922	13,474,812	11,595,049	12,300,933	13,841,868	15,758,328	15,095,029	13,466,705	12,741,647	12,632,754	14,575,400
Average Daily Energy Sendout/Month GWh	431	418	419	377	383	454	498	477	437	398	403	444

+ 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 2018 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 *	\$83.53	\$30.37										
Standard Deviation	\$58.94	\$12.38										
Load Weighted Price **	\$88.42	\$31.44										
<b><u>RTC LBMP</u></b>												
Price *	\$81.65	\$27.73										
Standard Deviation	\$60.83	\$11.96										
Load Weighted Price **	\$85.85	\$28.54										
<b><u>REAL TIME LBMP</u></b>												
Price *	\$87.94	\$28.50										
Standard Deviation	\$87.41	\$17.36										
Load Weighted Price **	\$93.59	\$29.49										
Average Daily Energy Sendout/Month GWh	463	426										

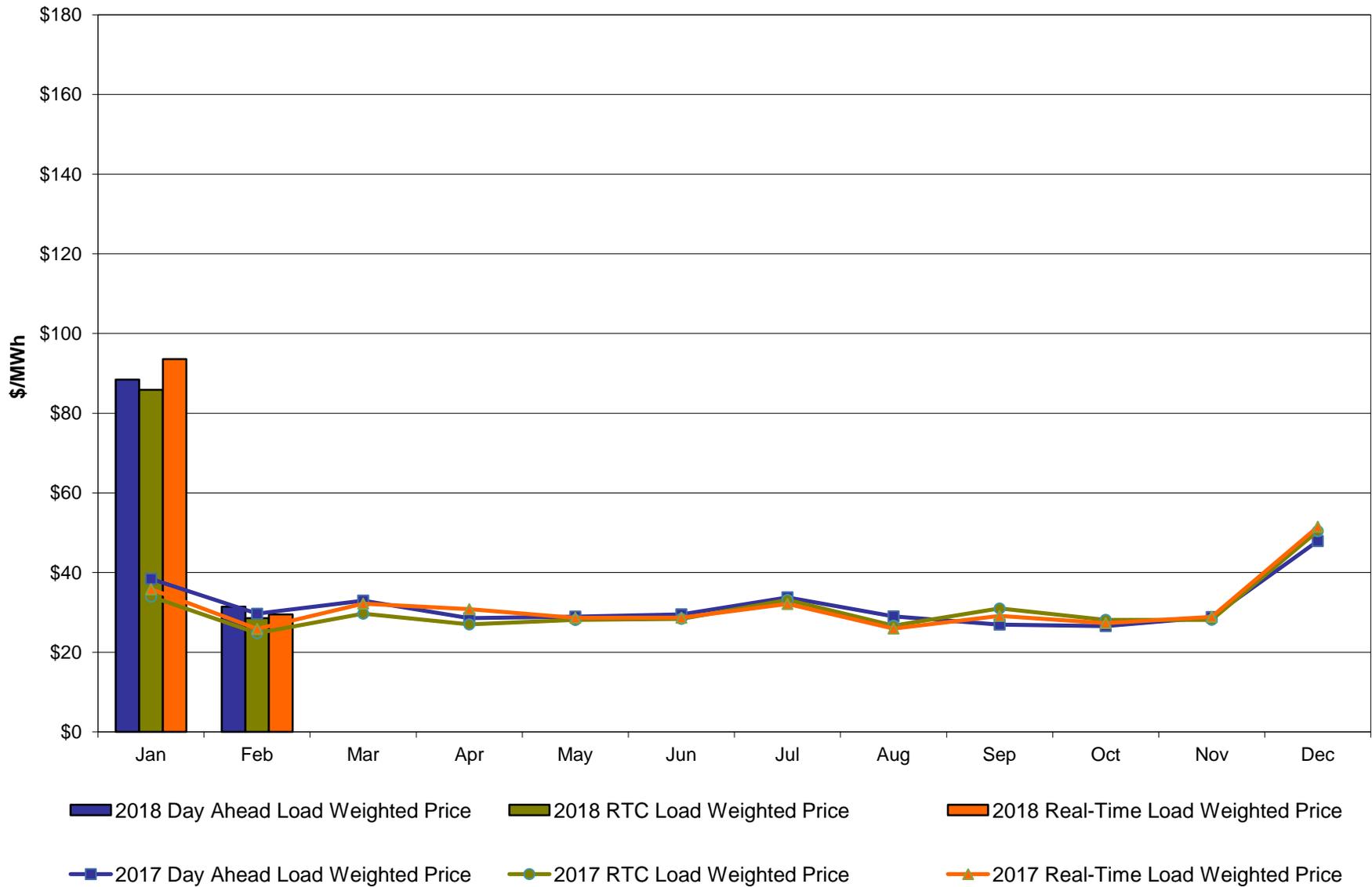
### NYISO Markets 2017 Energy Statistics

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

\* Average zonal load weighted prices.

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

### NYISO Monthly Average Internal LBMPs 2017- 2018

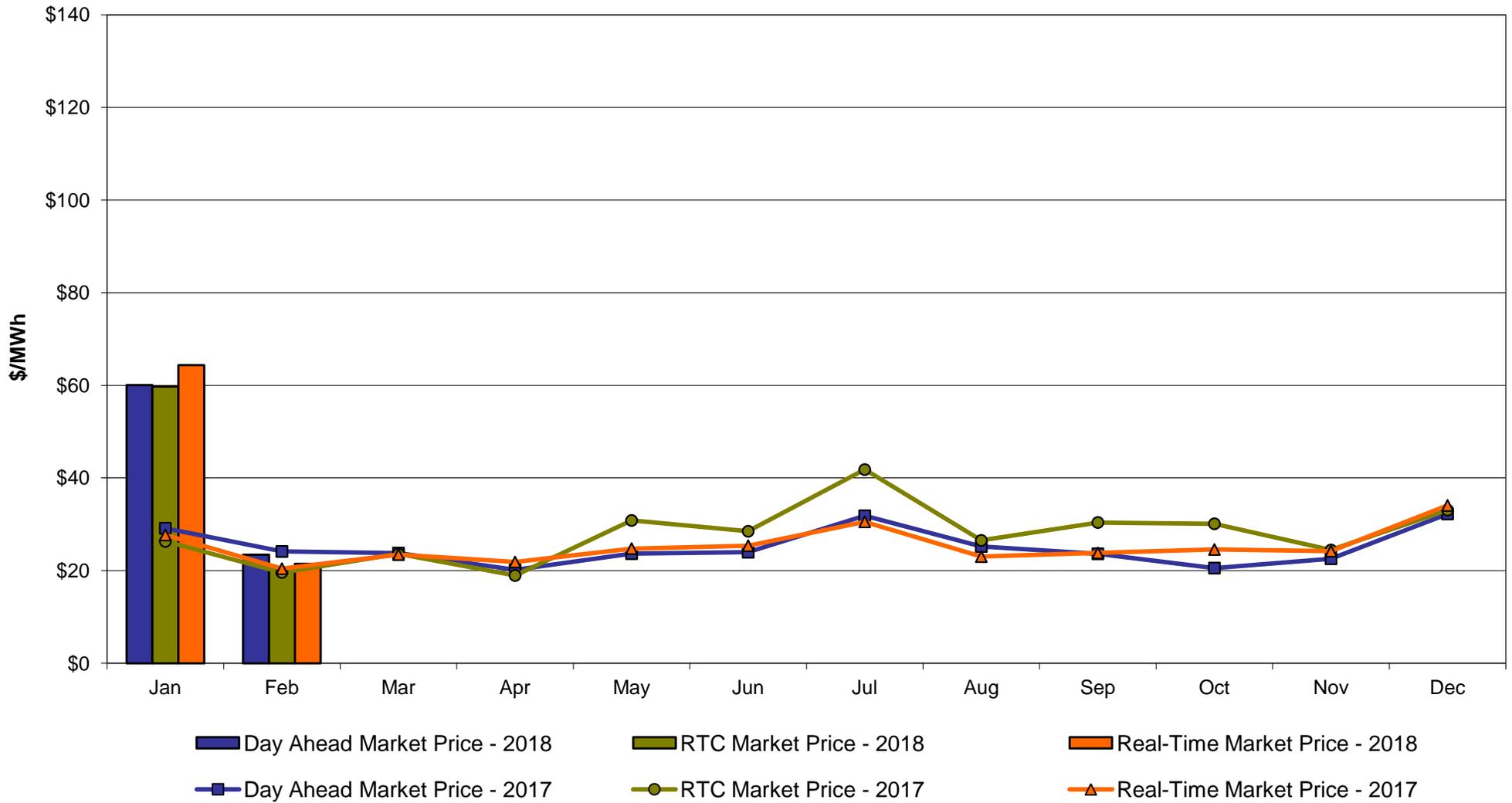


**February 2018 Zonal LBMP Statistics for NYISO (\$/MWh)**

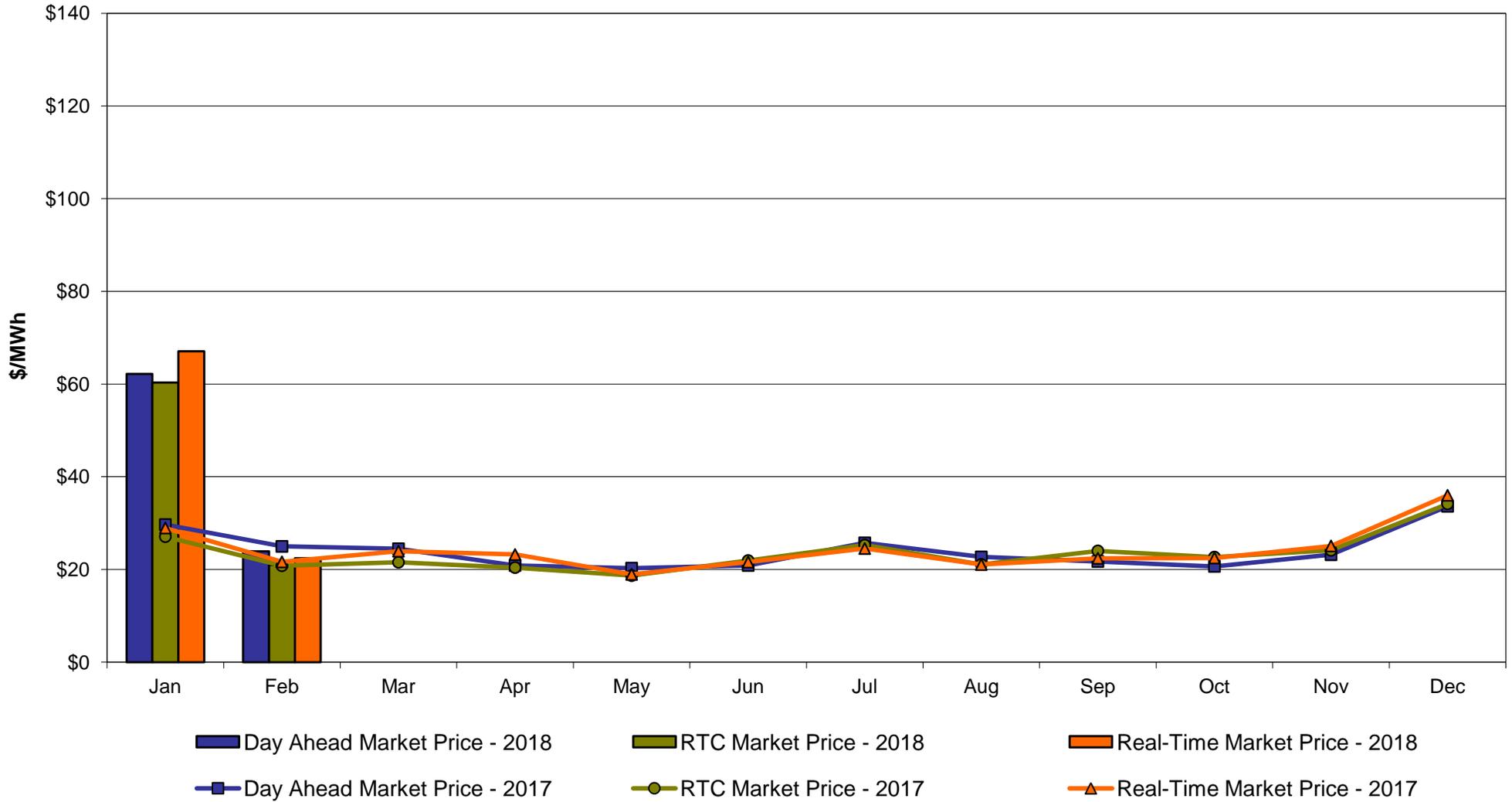
	<u>WEST Zone A</u>	<u>GENESEE Zone B</u>	<u>NORTH Zone D</u>	<u>CENTRAL Zone C</u>	<u>MOHAWK VALLEY Zone E</u>	<u>CAPITAL Zone F</u>	<u>HUDSON VALLEY Zone G</u>	<u>MILLWOOD Zone H</u>	<u>DUNWOODIE Zone I</u>	<u>NEW YORK CITY Zone J</u>	<u>LONG ISLAND Zone K</u>
<b><u>DAY AHEAD LBMP</u></b>											
Unweighted Price *	23.46	23.14	20.33	23.91	24.12	31.52	29.98	30.33	31.68	34.05	39.50
Standard Deviation	8.29	8.24	8.40	8.42	8.61	13.90	11.39	11.64	13.99	16.38	17.89
<b><u>RTC LBMP</u></b>											
Unweighted Price *	20.05	20.12	19.05	20.98	21.41	28.39	26.90	27.07	27.19	31.45	38.66
Standard Deviation	8.50	8.78	9.33	8.93	9.17	14.02	11.29	11.43	11.85	16.17	33.34
<b><u>REAL TIME LBMP</u></b>											
Unweighted Price *	21.48	21.58	20.56	22.43	22.88	29.14	27.94	28.11	28.22	32.89	36.40
Standard Deviation	14.11	14.41	14.49	14.80	15.16	19.17	17.44	17.58	17.93	22.37	23.77
	<u>ONTARIO IESO Zone O</u>	<u>HYDRO QUEBEC (Wheel) Zone M</u>	<u>HYDRO QUEBEC (Import/Export) Zone M</u>	<u>PJM Zone P</u>	<u>NEW ENGLAND Zone N</u>	<u>CROSS SOUND CABLE Controllable Line</u>	<u>NORTHPORT- NORWALK Controllable Line</u>	<u>NEPTUNE Controllable Line</u>	<u>LINDEN VFT Controllable Line</u>	<u>HUDSON Controllable Line</u>	<u>Dennison Controllable Line</u>
<b><u>DAY AHEAD LBMP</u></b>											
Unweighted Price *	22.90	20.79	20.79	26.57	39.15	38.19	39.14	35.52	31.95	32.00	19.88
Standard Deviation	7.99	7.95	7.95	9.16	19.33	17.99	18.99	17.15	13.65	13.69	8.11
<b><u>RTC LBMP</u></b>											
Unweighted Price *	20.05	18.84	18.78	23.89	36.46	38.03	37.75	35.06	28.15	28.32	18.93
Standard Deviation	13.49	14.92	14.96	13.97	22.83	35.15	35.12	30.74	16.47	16.62	14.02
<b><u>REAL TIME LBMP</u></b>											
Unweighted Price *	21.13	20.46	20.33	25.01	33.44	35.67	37.53	33.75	28.02	29.28	19.86
Standard Deviation	13.85	17.61	17.62	18.26	21.75	24.17	25.83	25.26	29.21	20.95	14.13

\* Straight LBMP averages

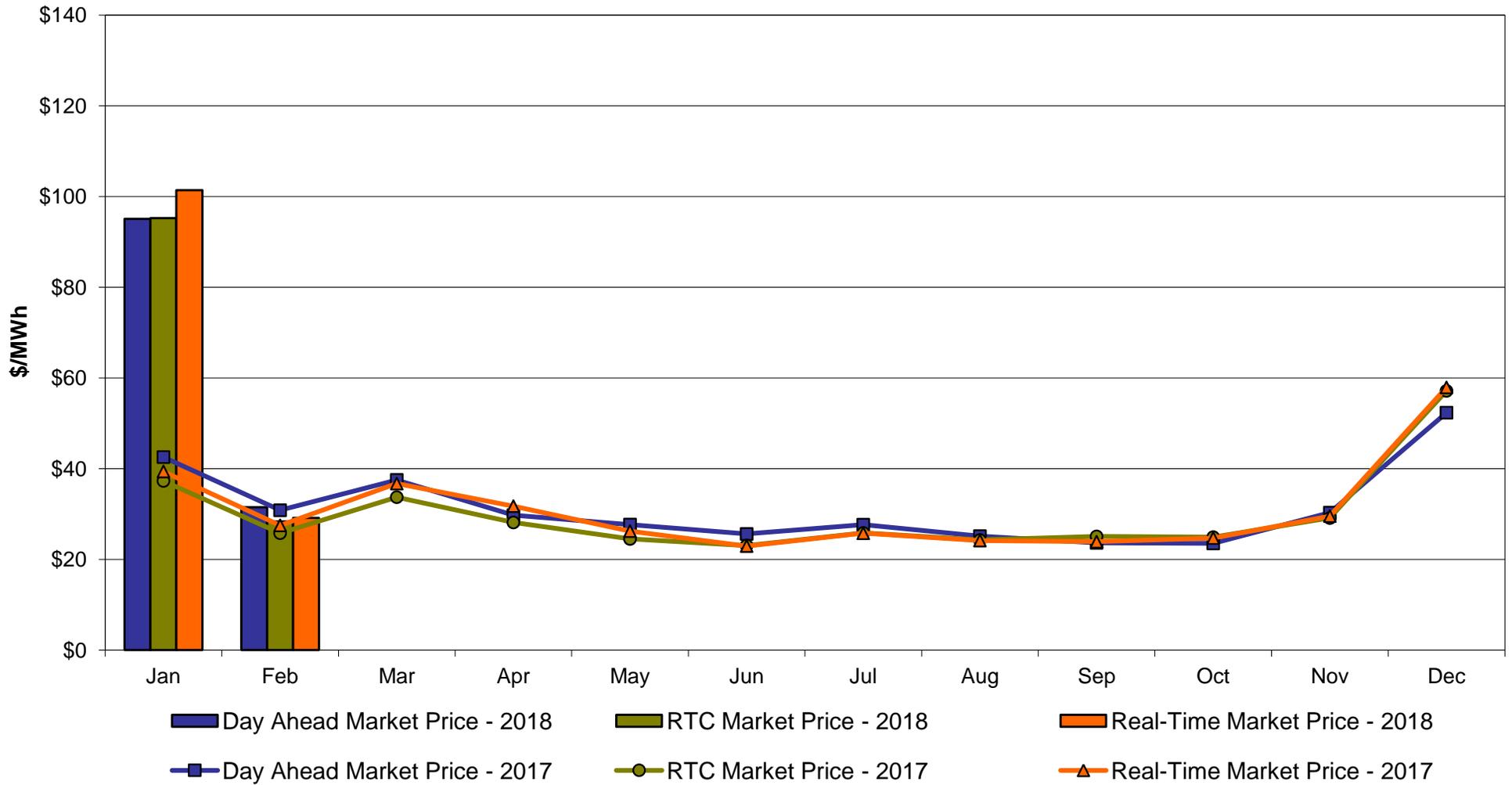
**West Zone A  
Monthly Average LBMP Prices 2017 - 2018**



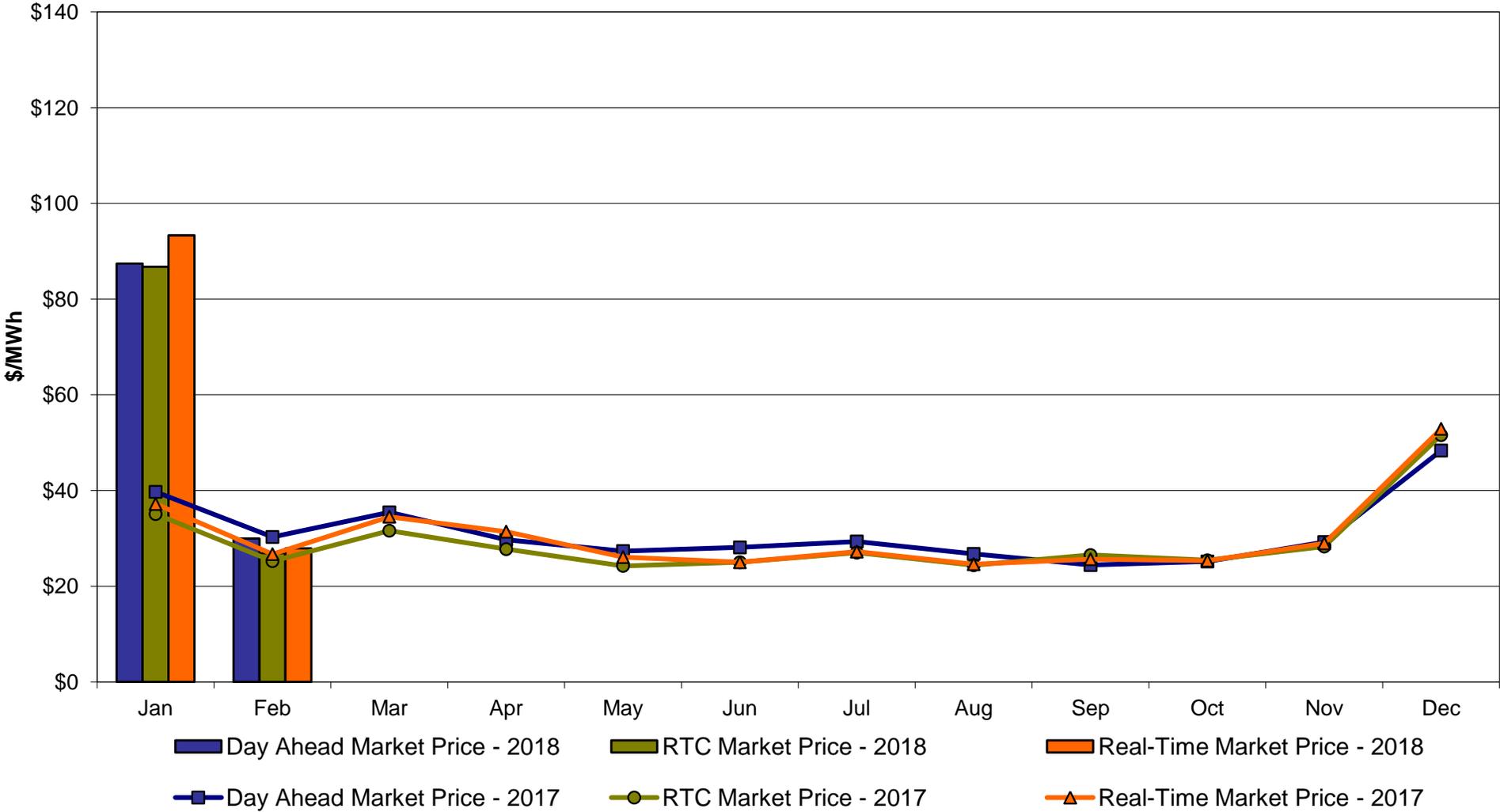
**Central Zone C  
Monthly Average LBMP Prices 2017 - 2018**



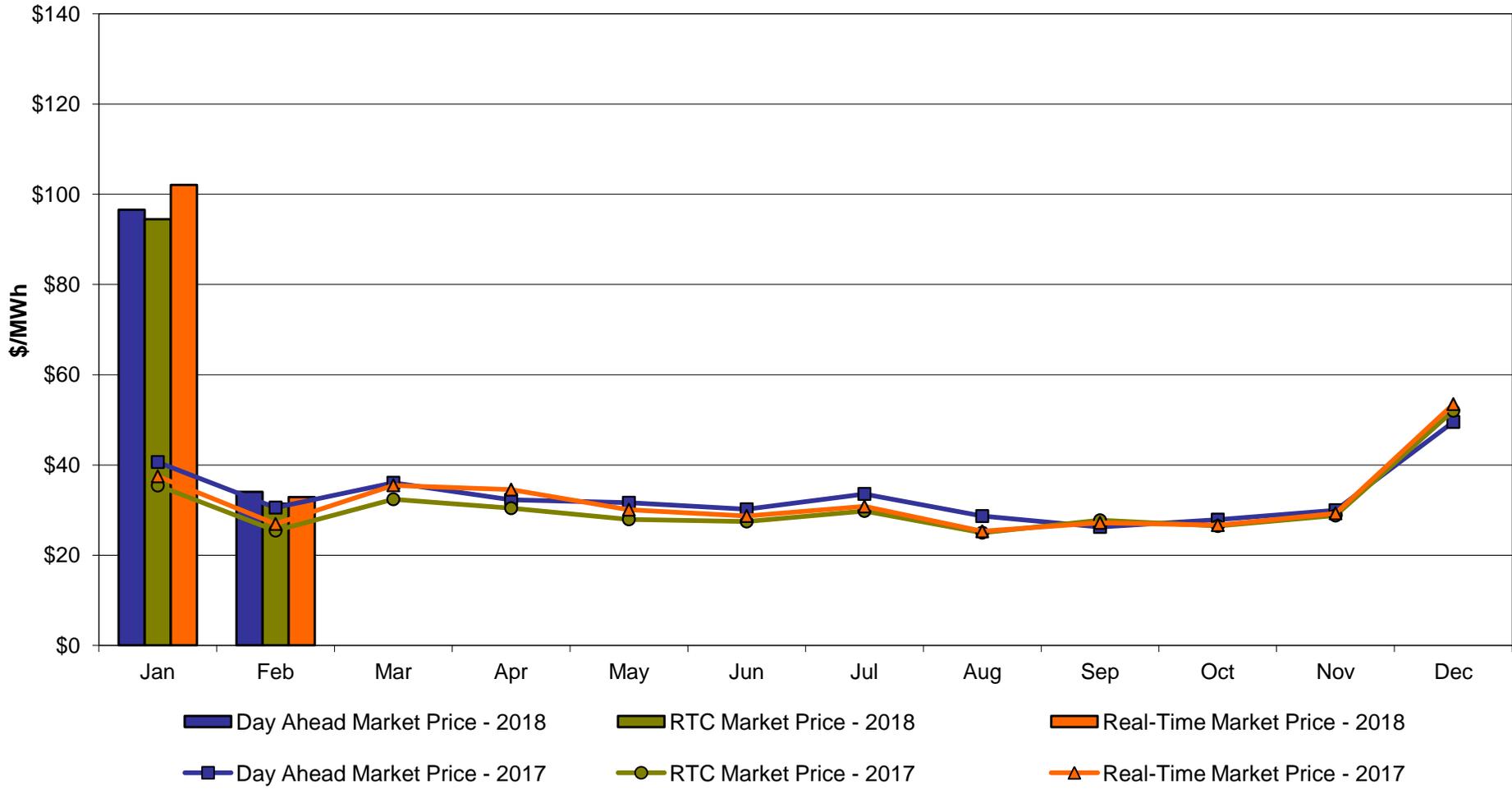
**Capital Zone F  
Monthly Average LBMP Prices 2017 - 2018**



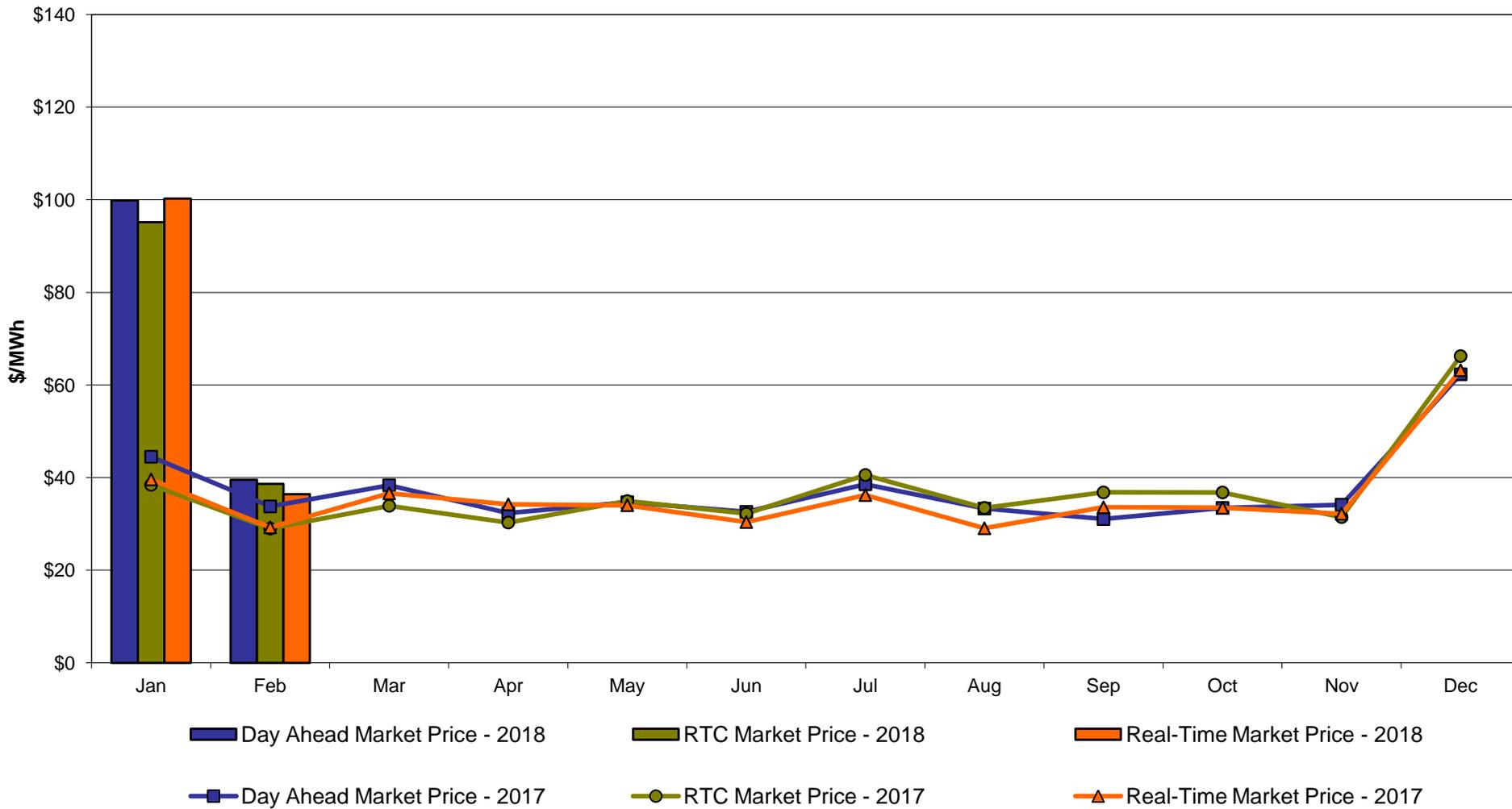
### Hudson Valley Zone G Monthly Average LBMP Prices 2017 - 2018



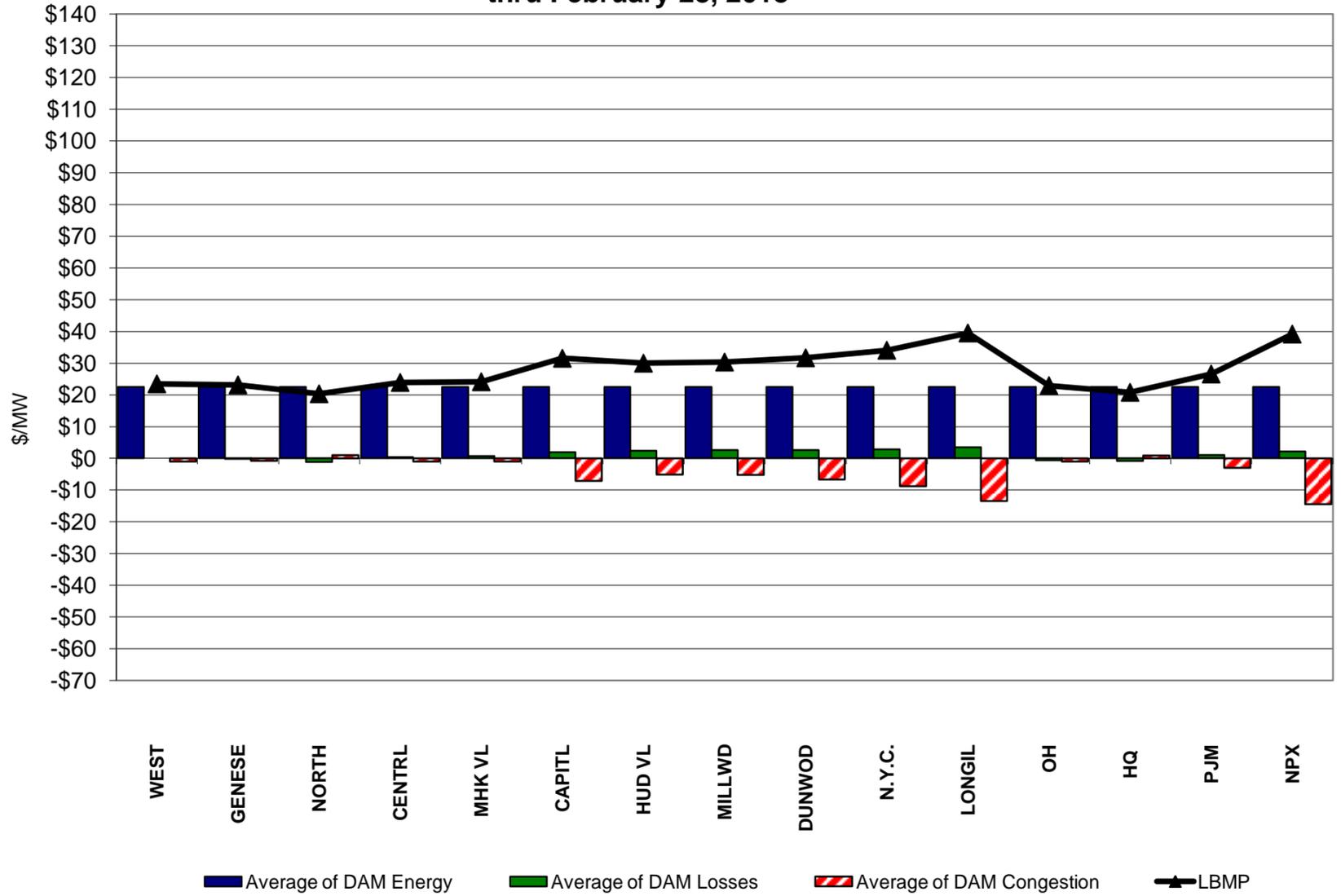
**NYC Zone J  
Monthly Average LBMP Prices 2017 - 2018**



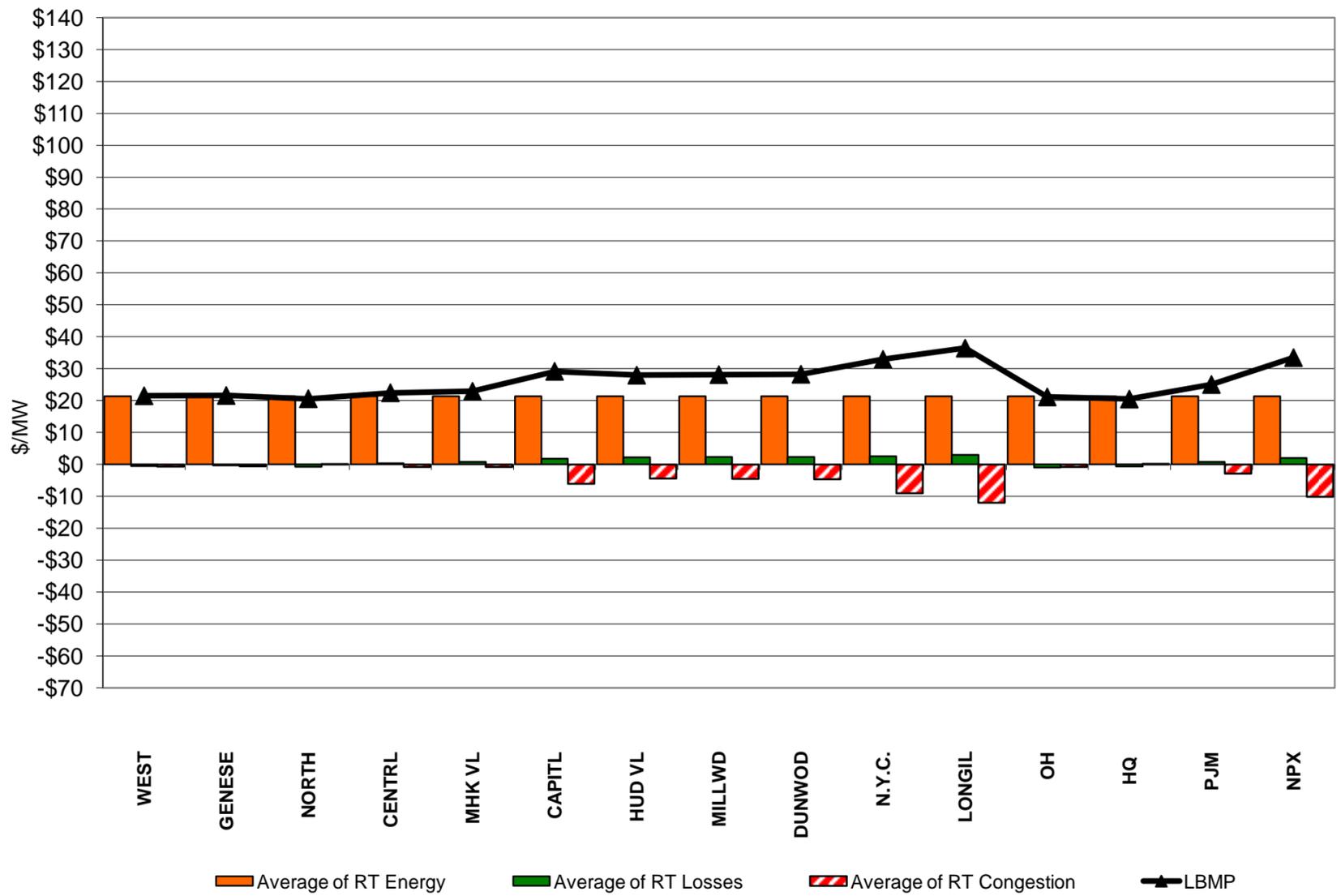
### Long Island Zone K Monthly Average LBMP Prices 2017 - 2018



**DAM Zonal Unweighted Monthly Average LBMP Components  
thru February 28, 2018**

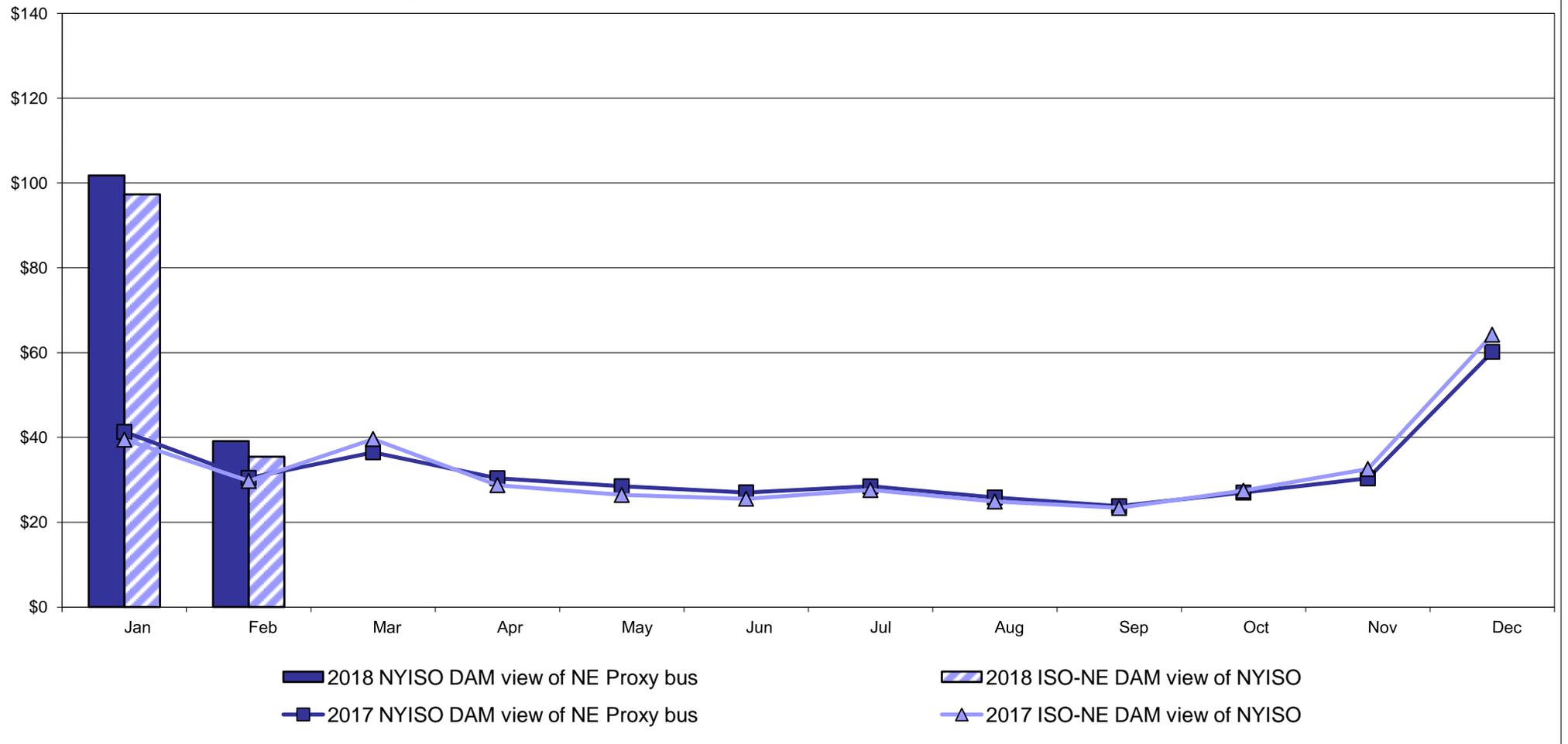


**RT Zonal Unweighted Monthly Average LBMP Components  
thru February 28, 2018**

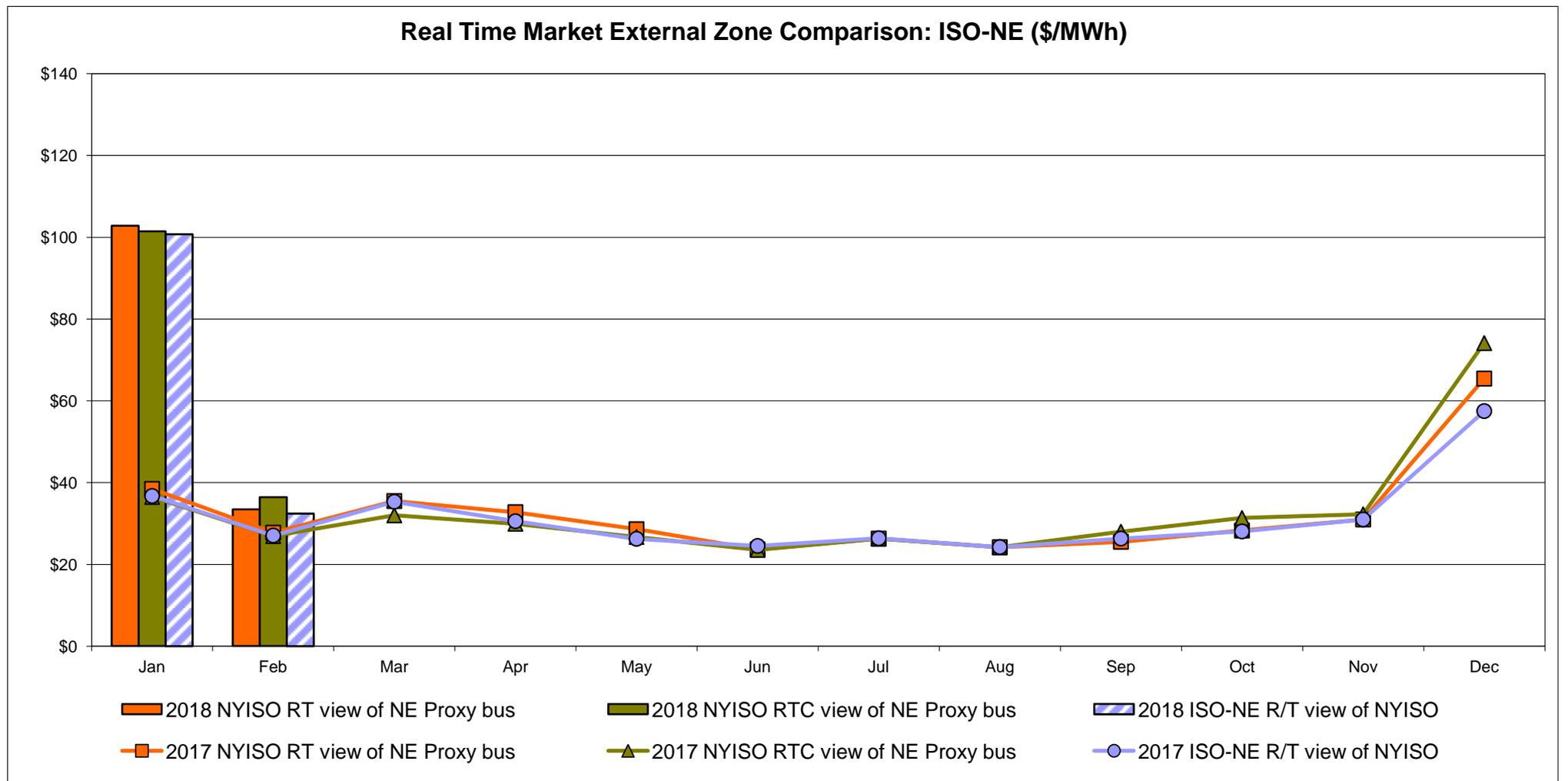


# External Comparison ISO-New England

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

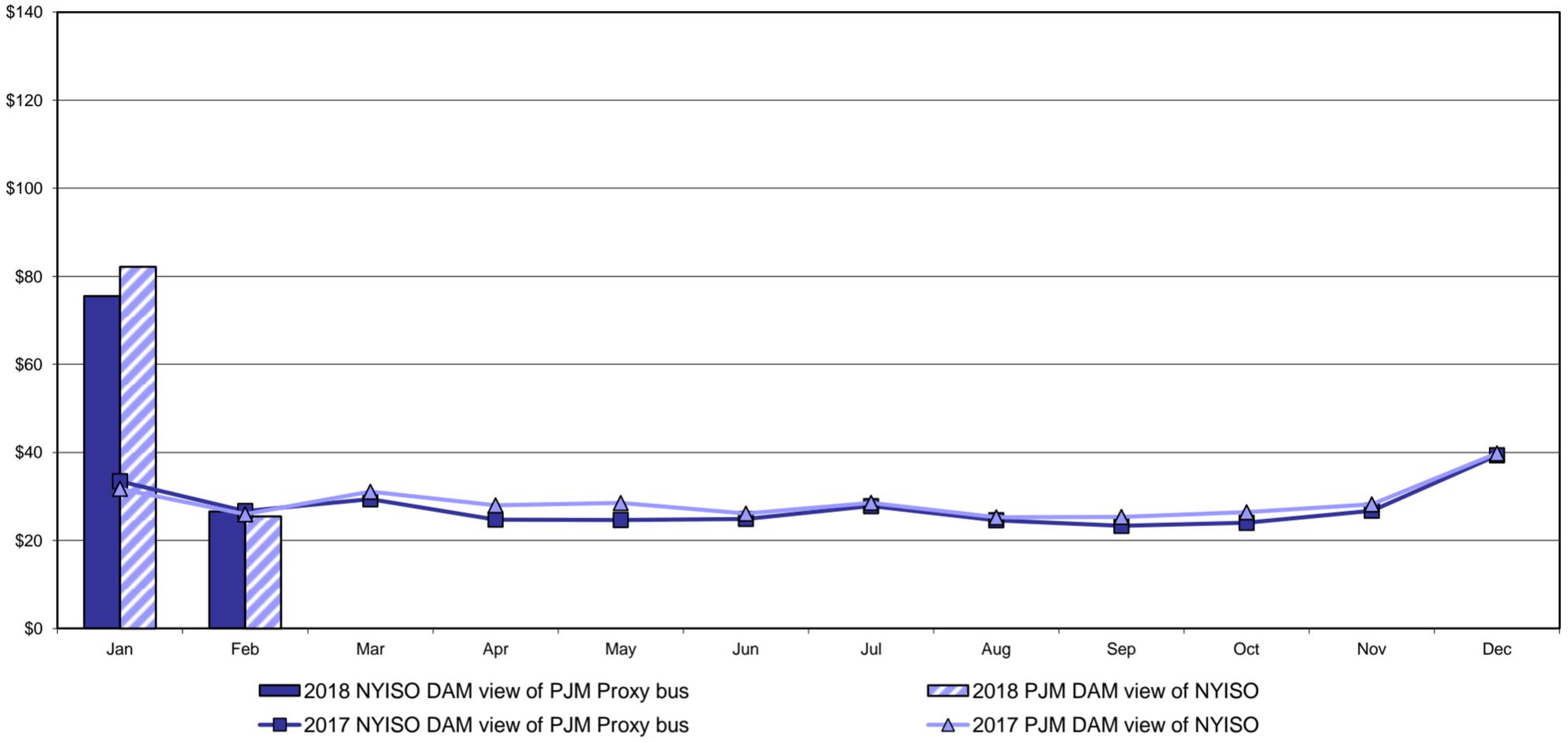


## Real Time Market External Zone Comparison: ISO-NE (\$/MWh)

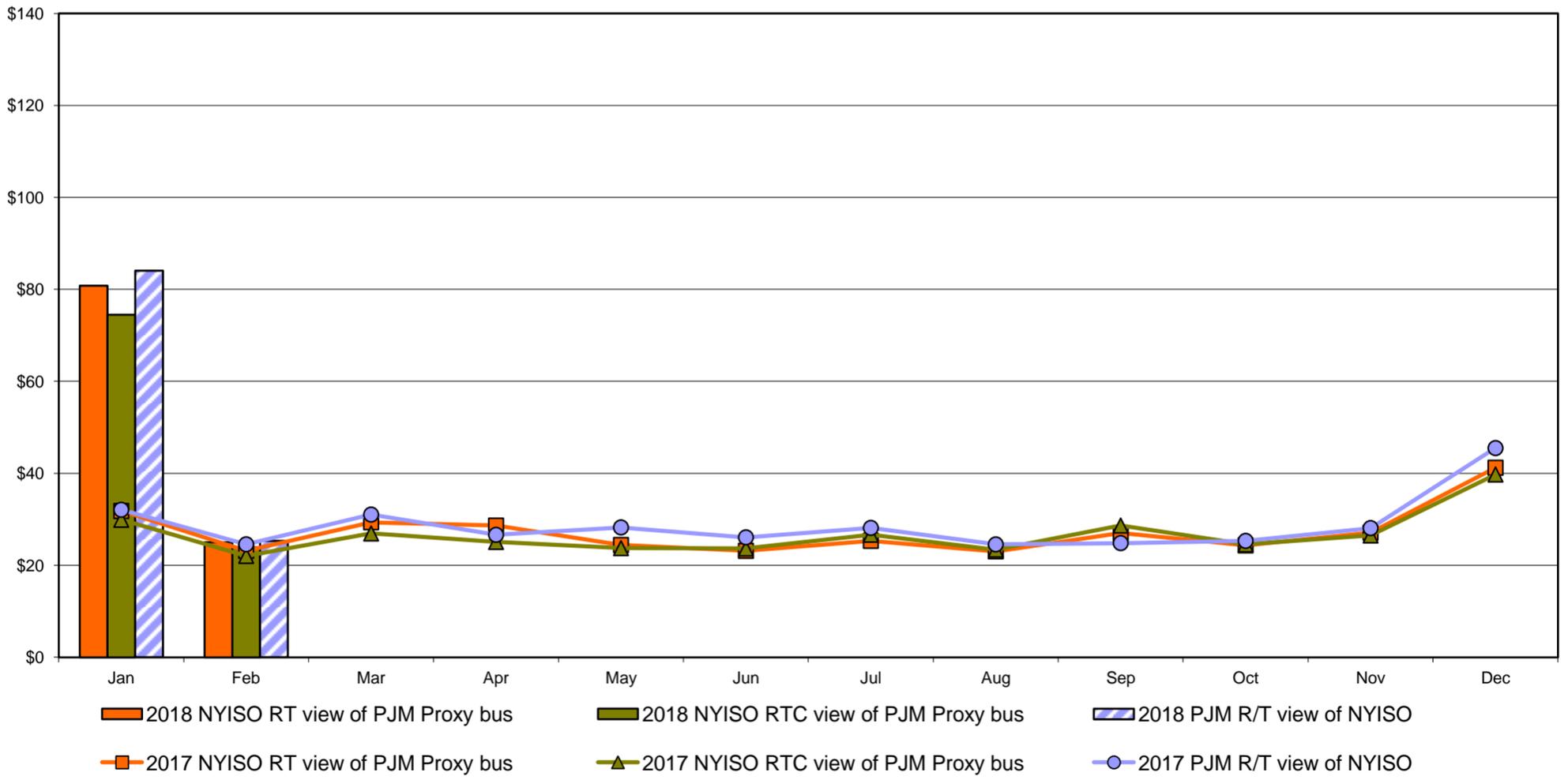


# External Comparison PJM

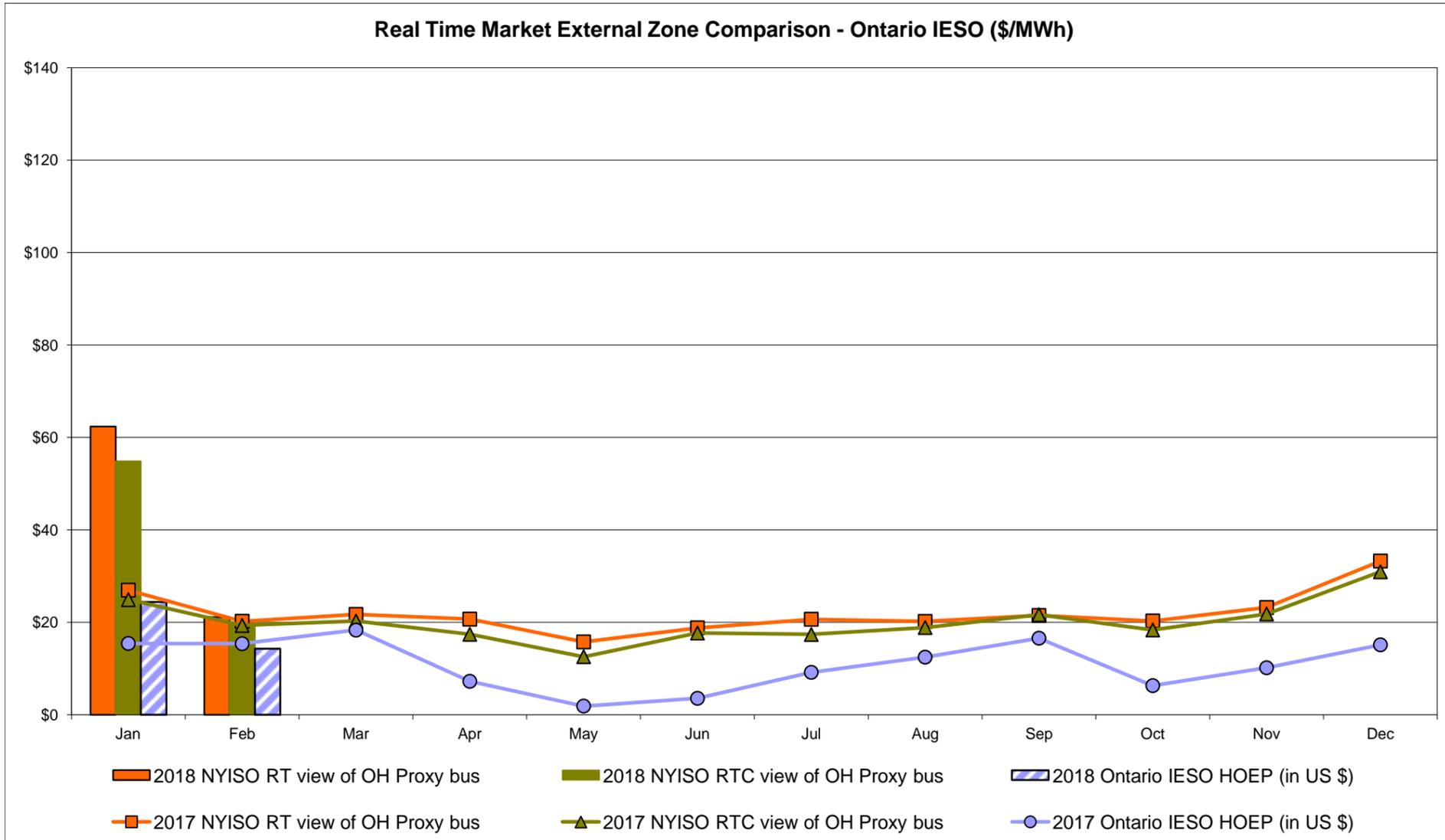
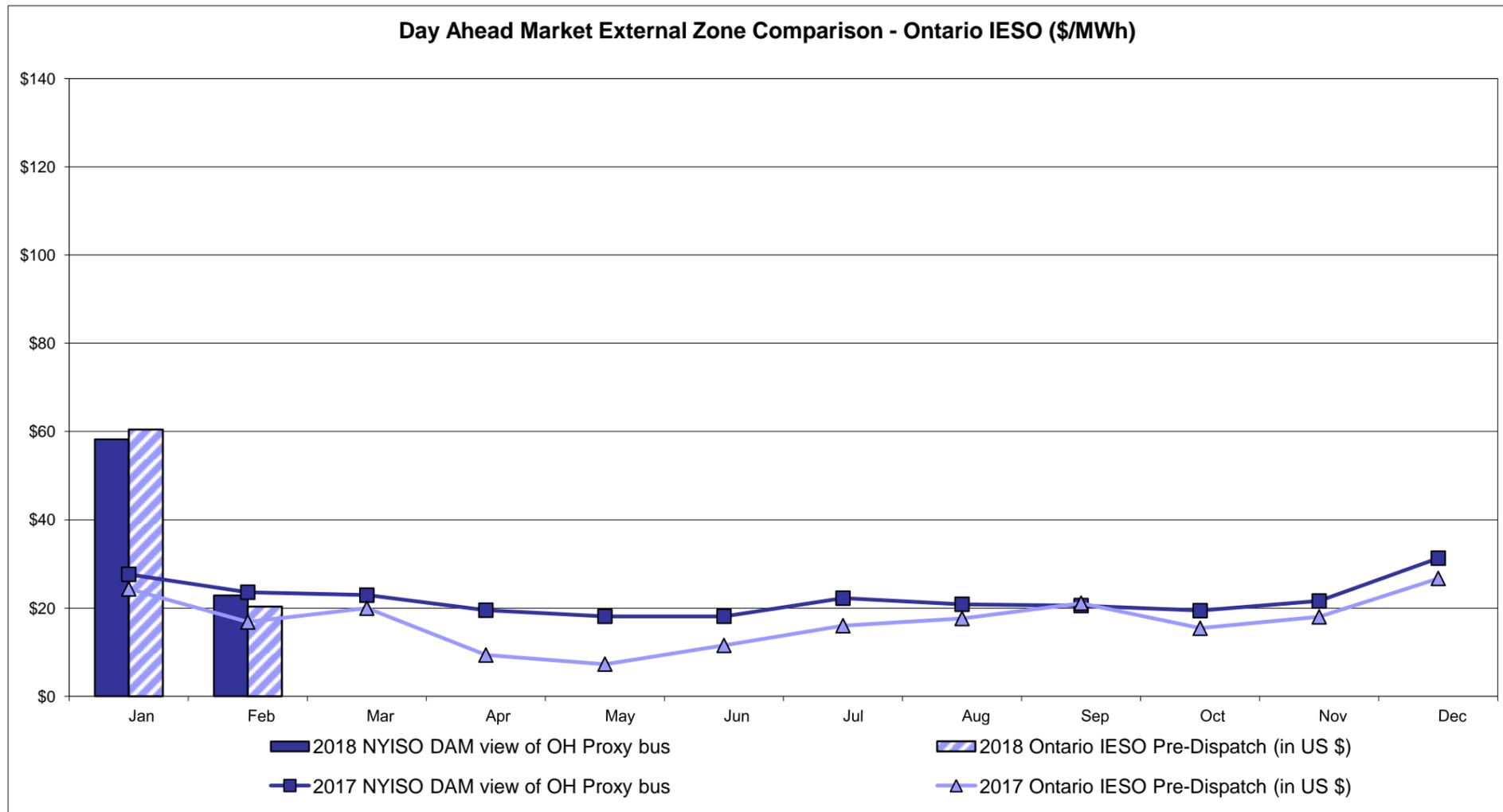
## Day Ahead Market External Zone Comparison - PJM (\$/MWh)



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

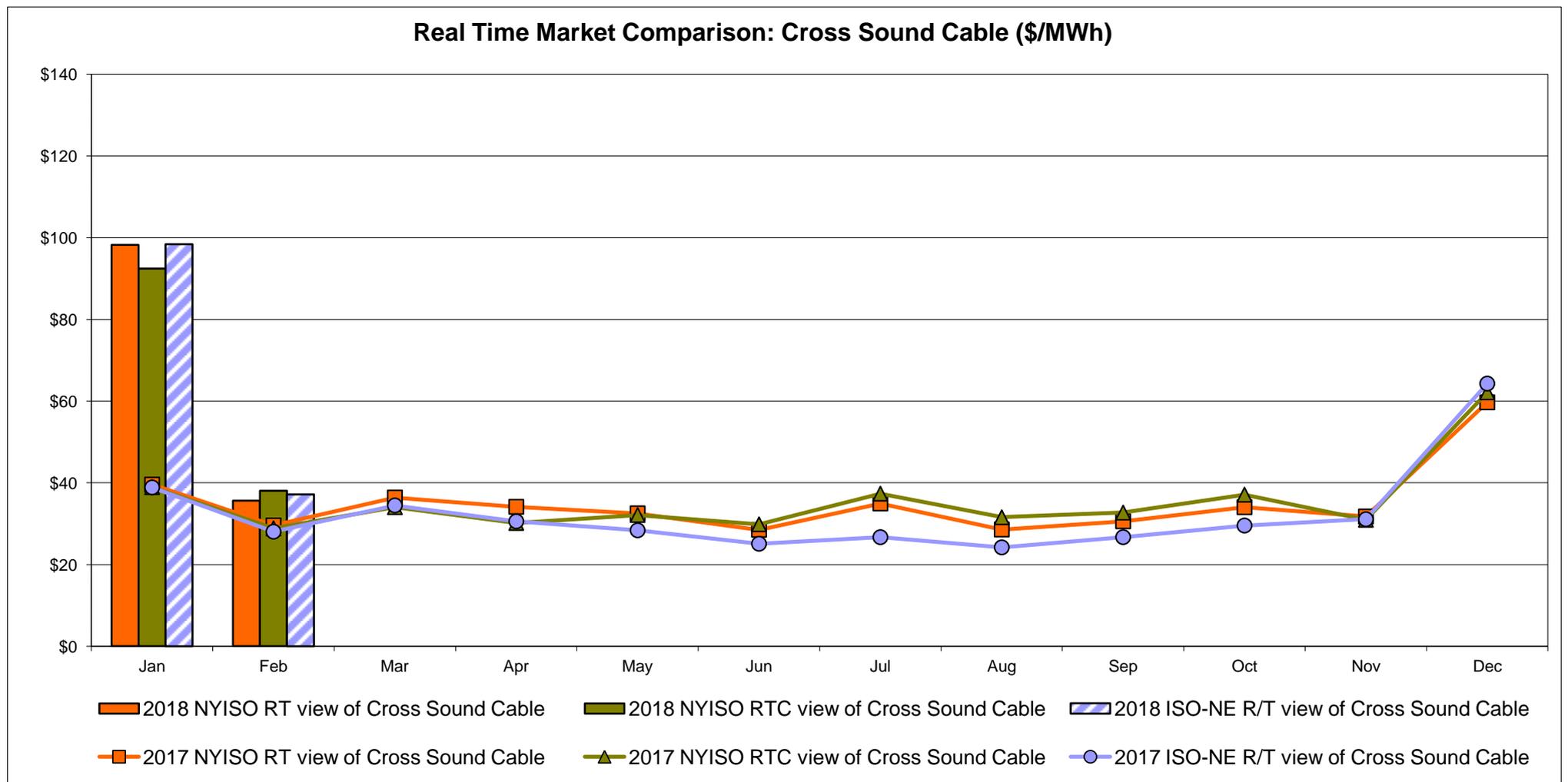
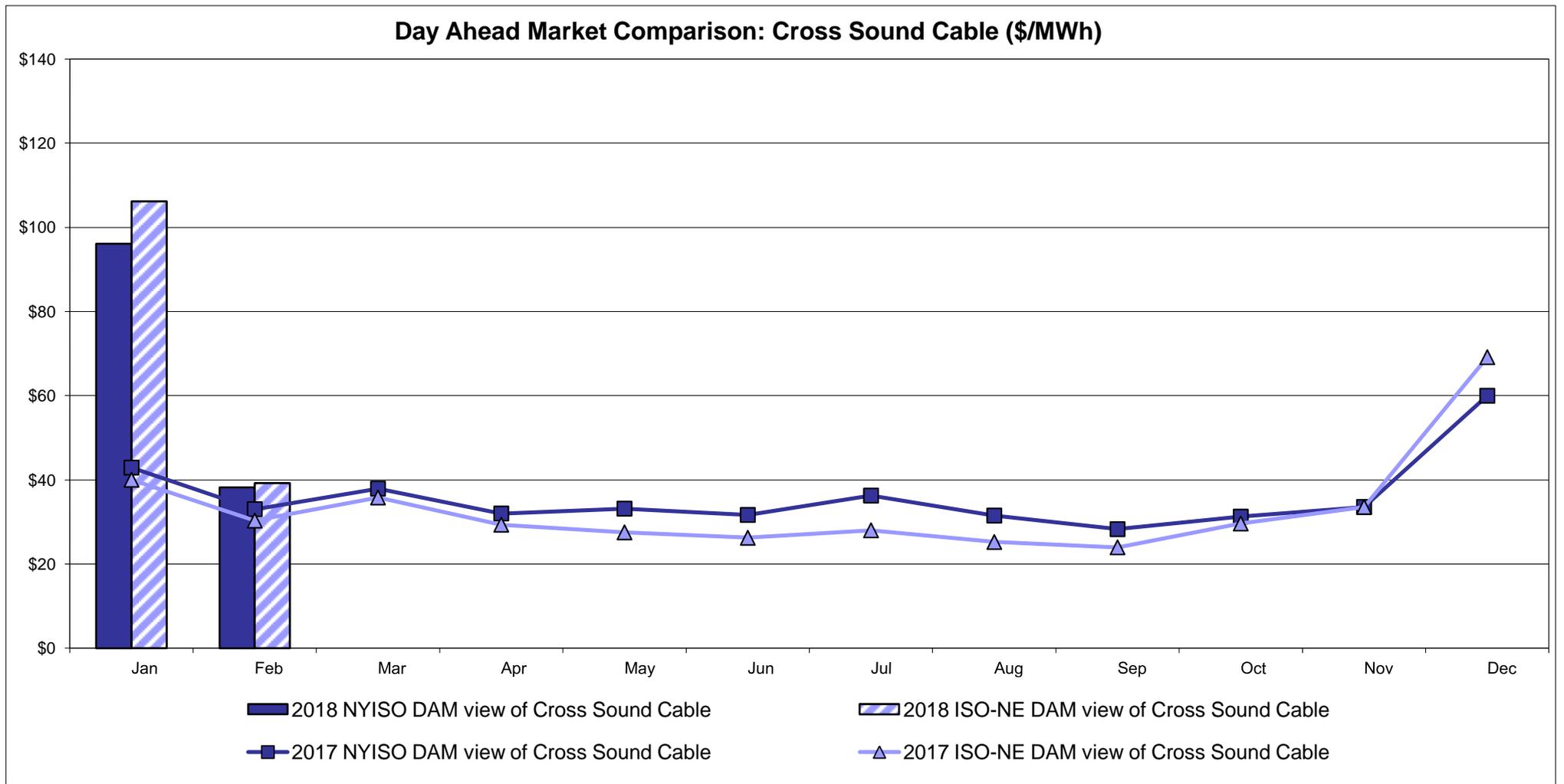


# External Comparison Ontario IESO



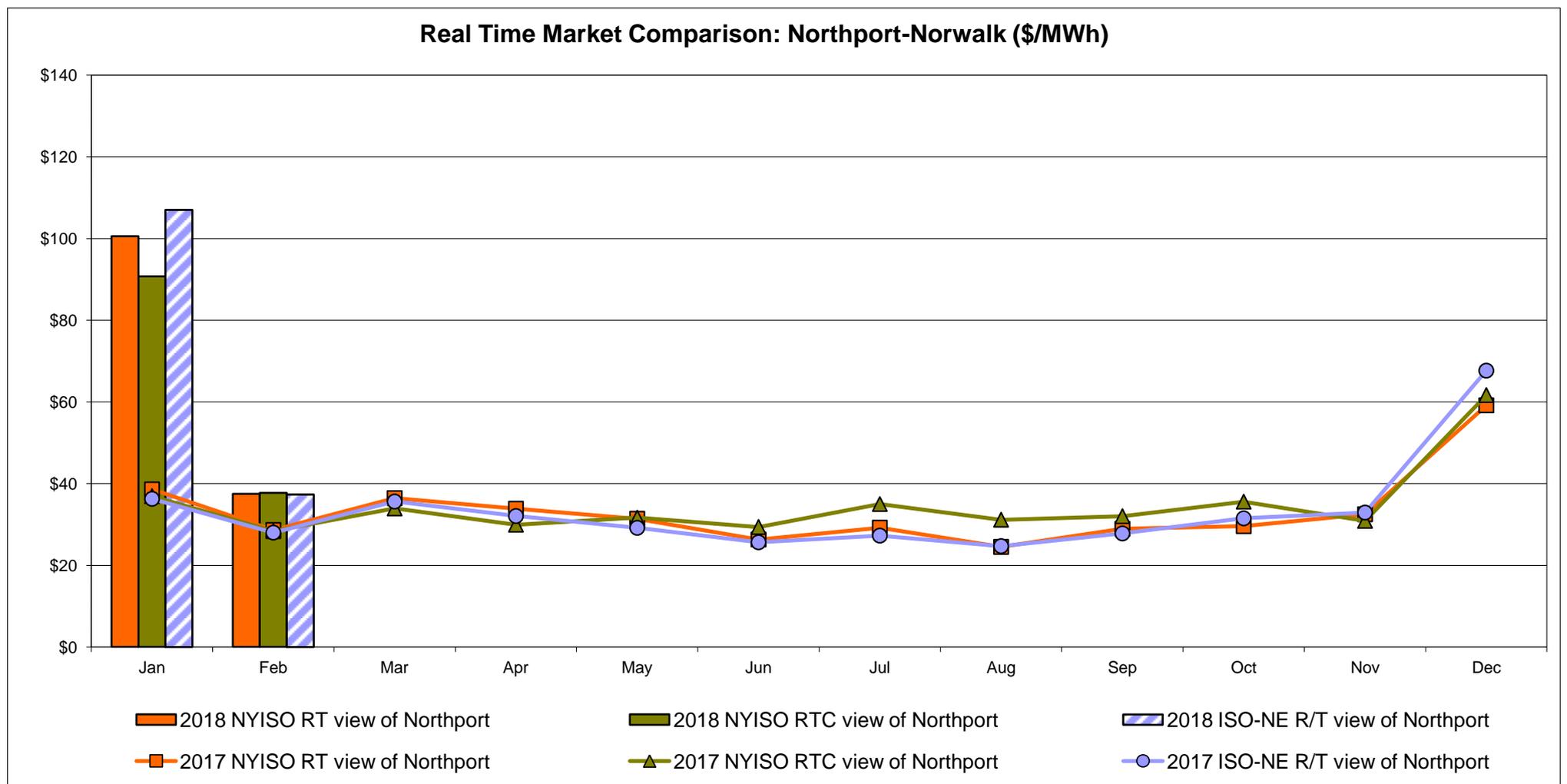
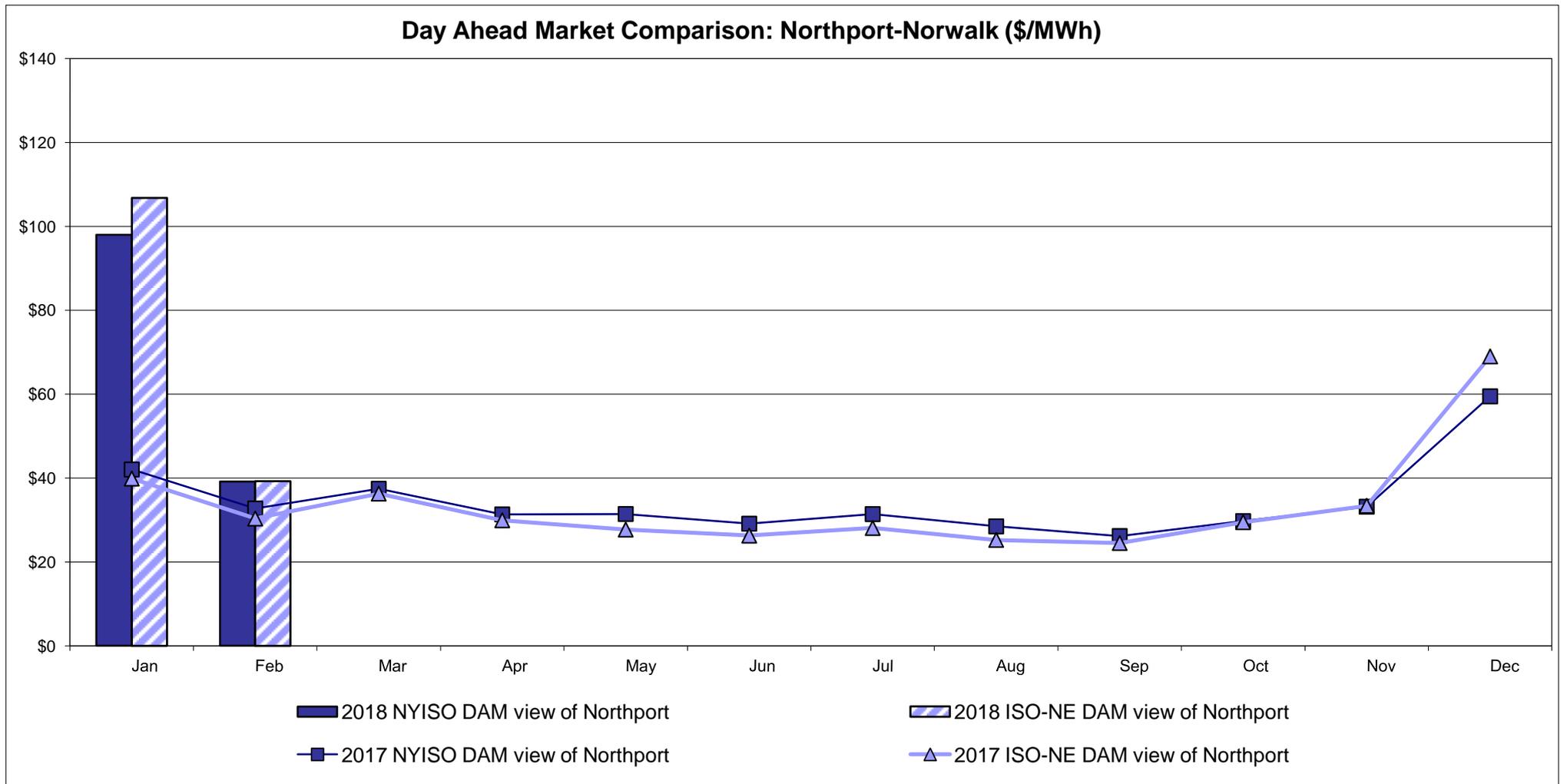
Notes: Exchange factor used for February 2018 was 0.794407372100413 to US  
 HOEP: Hourly Ontario Energy Price  
 Pre-Dispatch: Projected Energy Price

# 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.

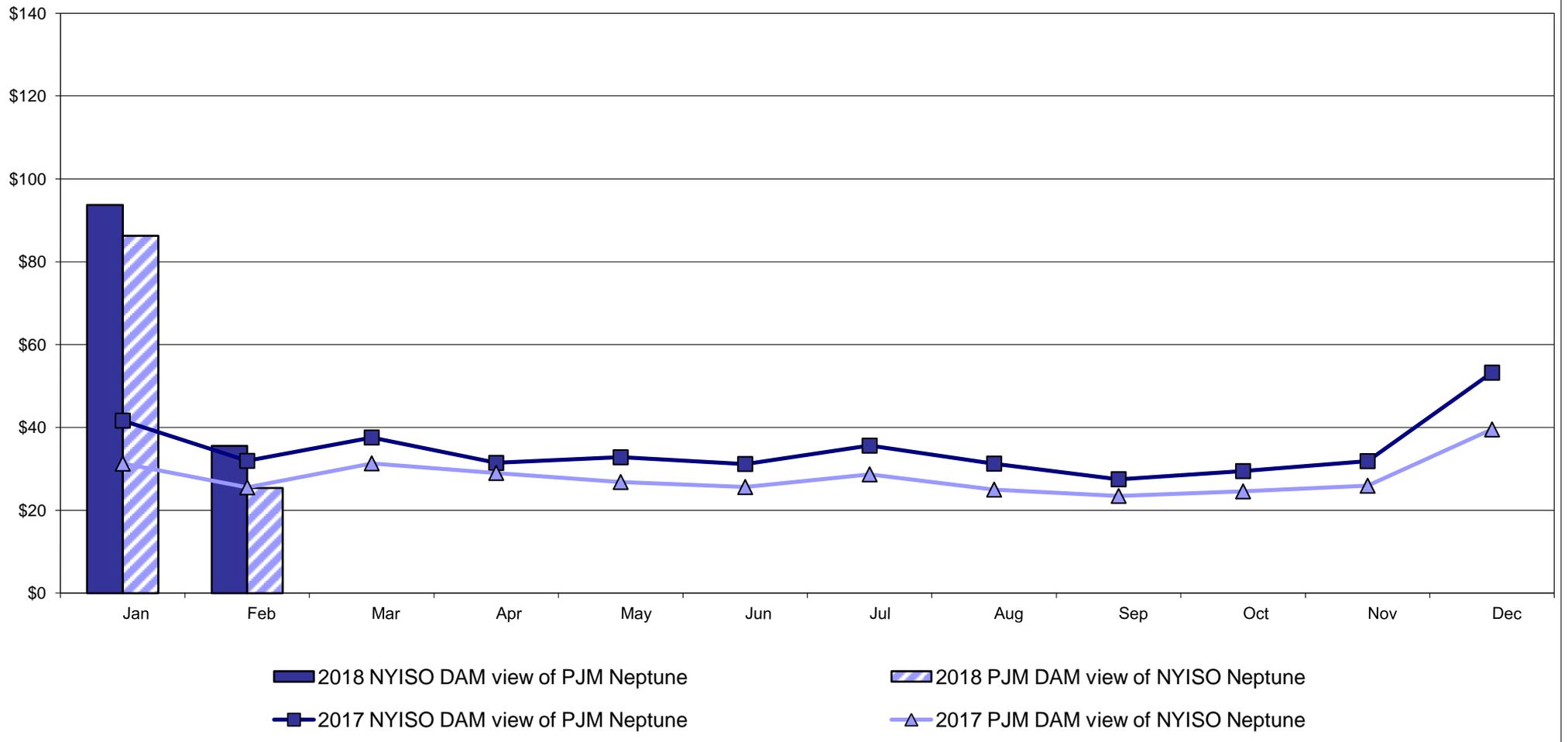
# External Controllable Line: Northport - Norwalk (New England)



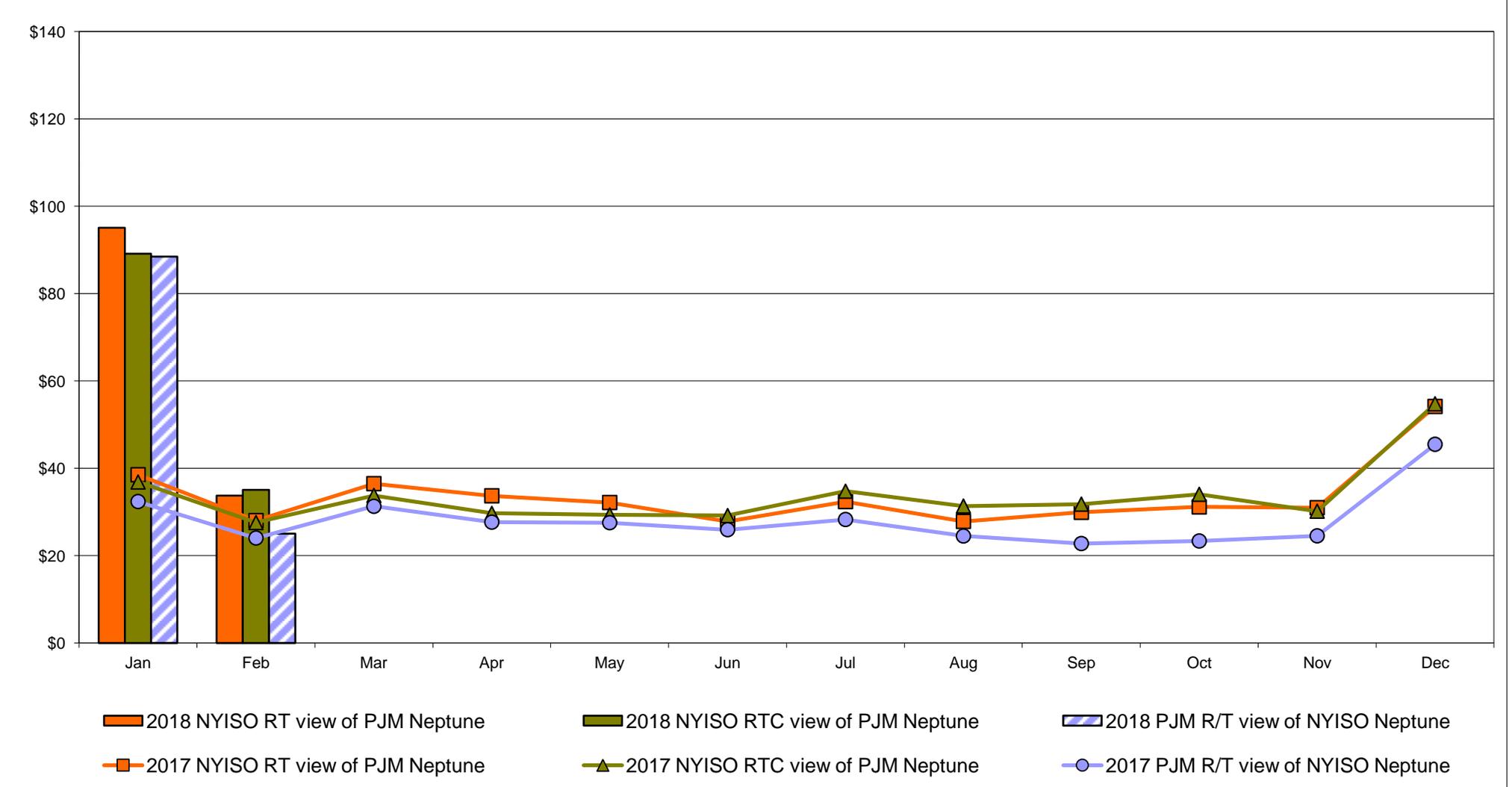
Note:  
 ISO-NE Forecast is an advisory posting @ 18:00 day before.  
 The DAM and R/T prices at the Northport 138 interface are used for ISO-NE.  
 The DAM and R/T prices at the 1385 interface are used for NYISO.

# External Controllable Line: Neptune (PJM)

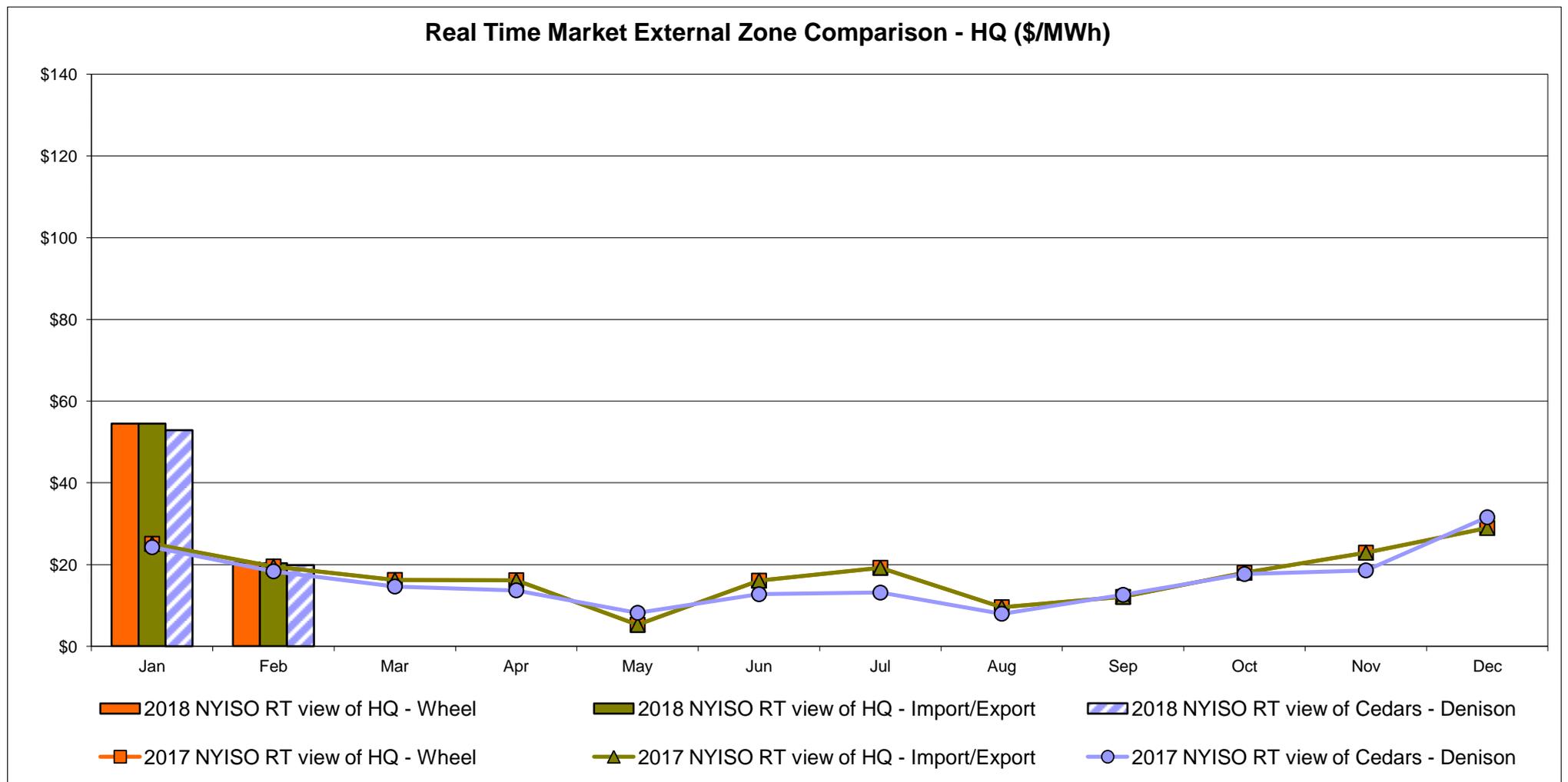
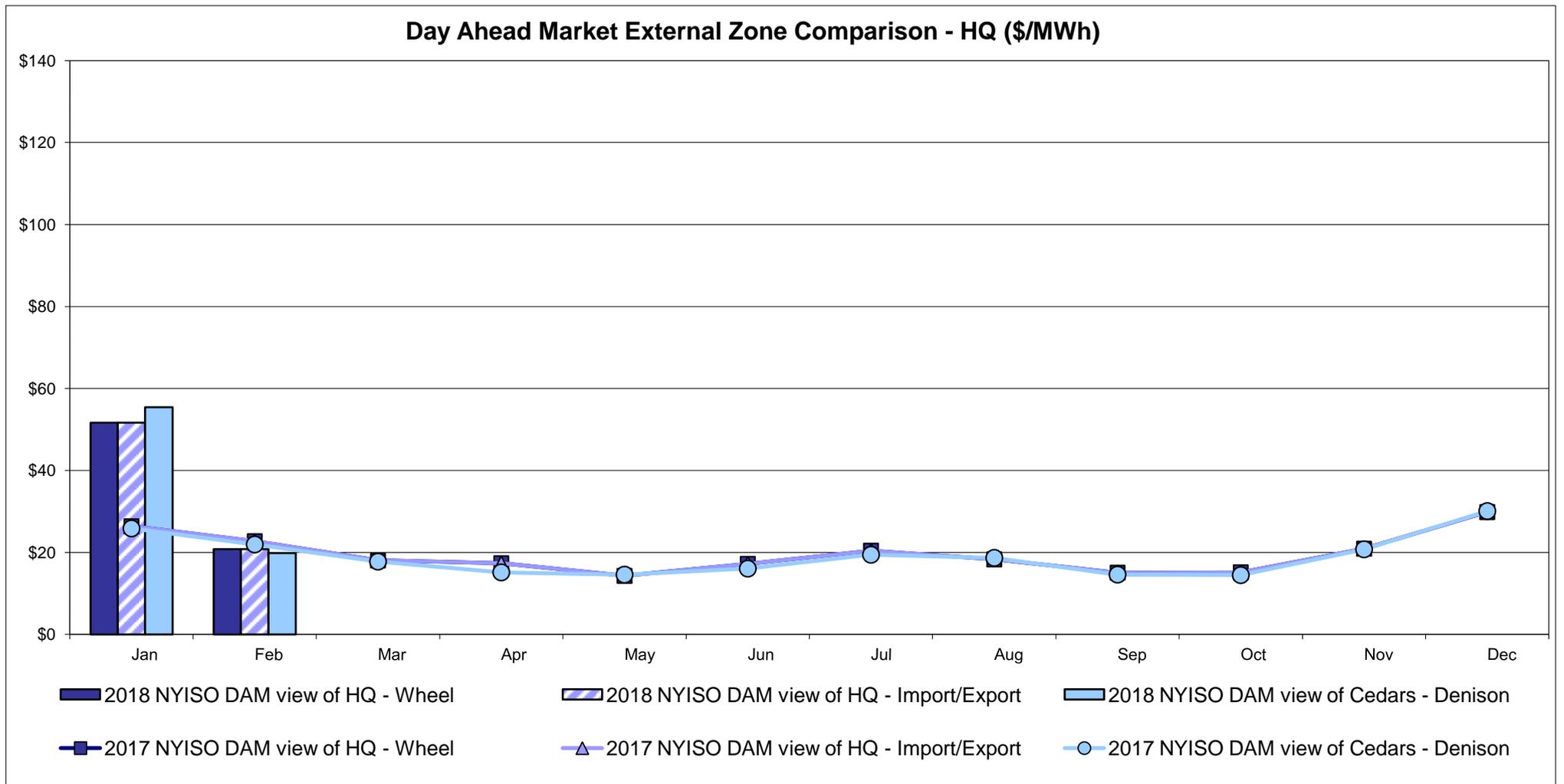
### Day Ahead Market Comparison: Neptune (\$/MWh)



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

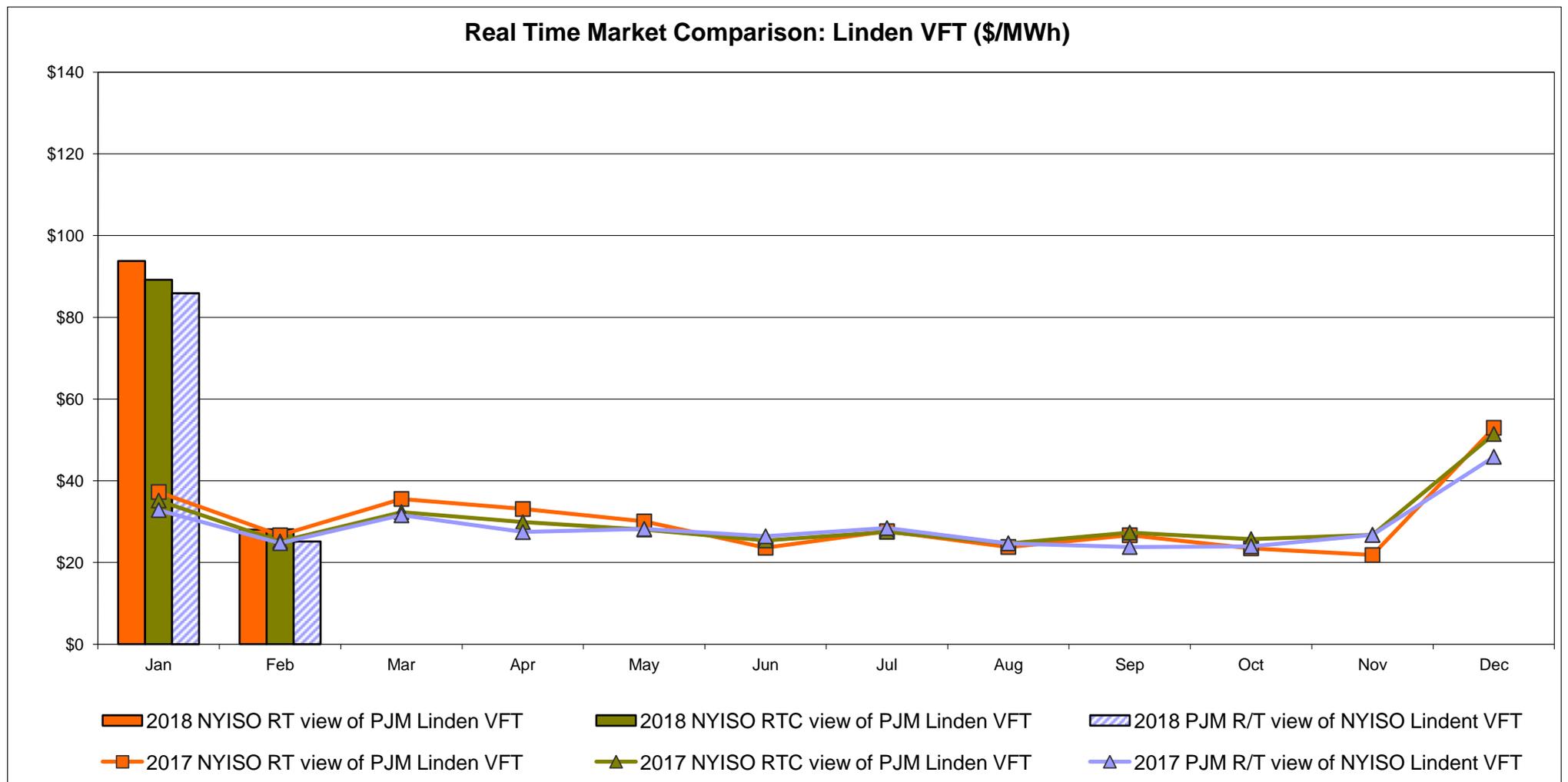
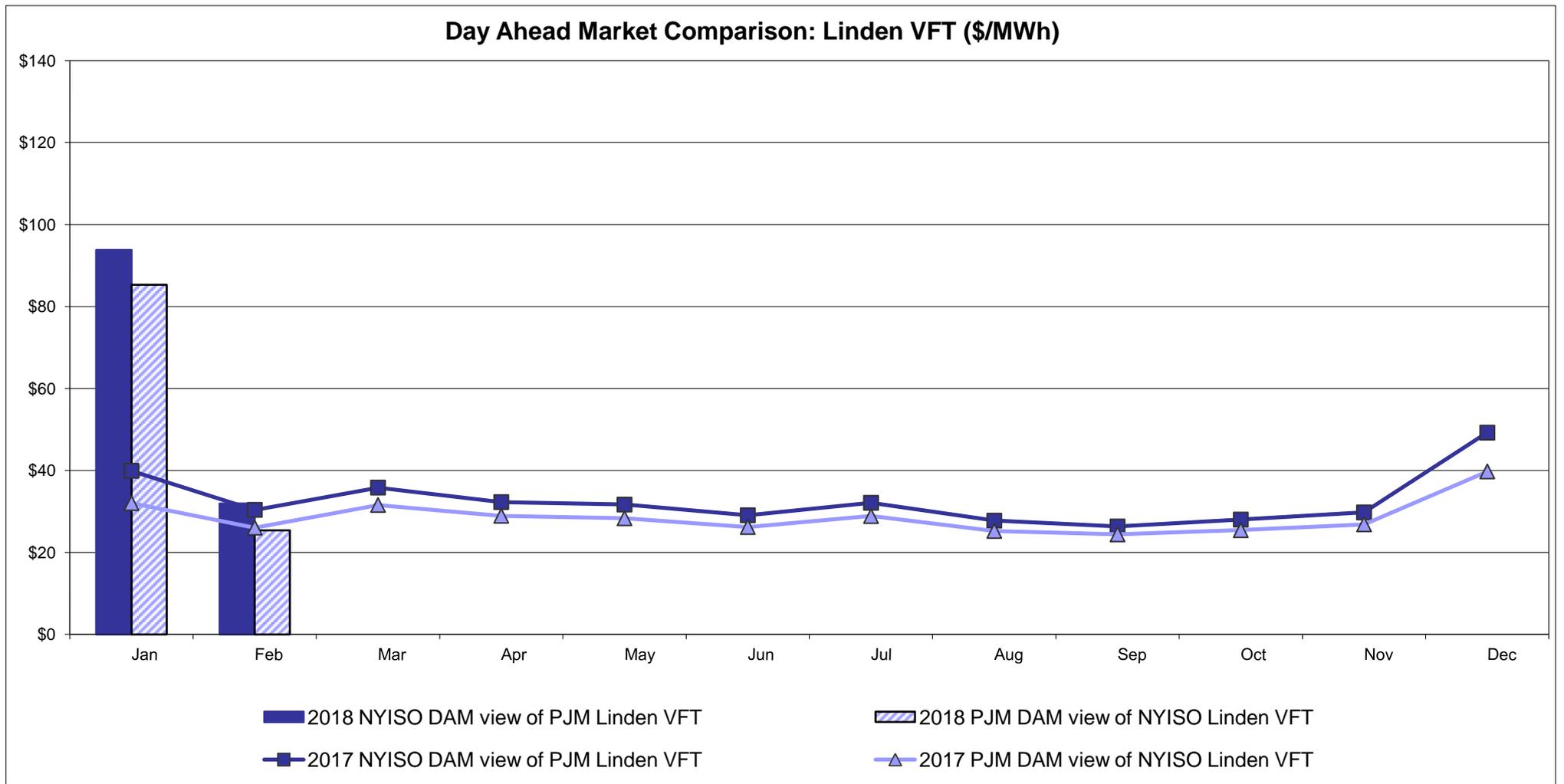


# External Comparison Hydro-Quebec

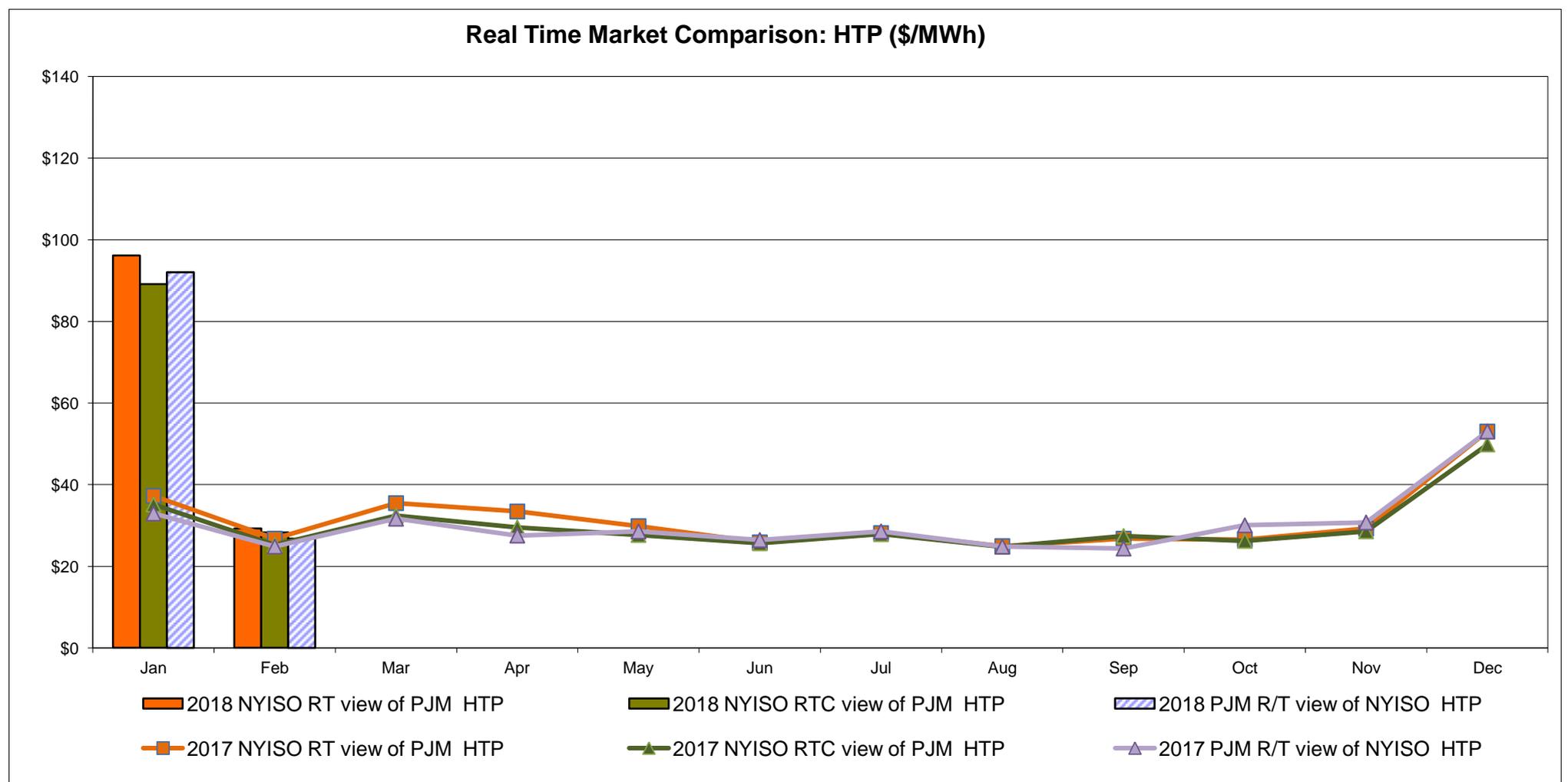
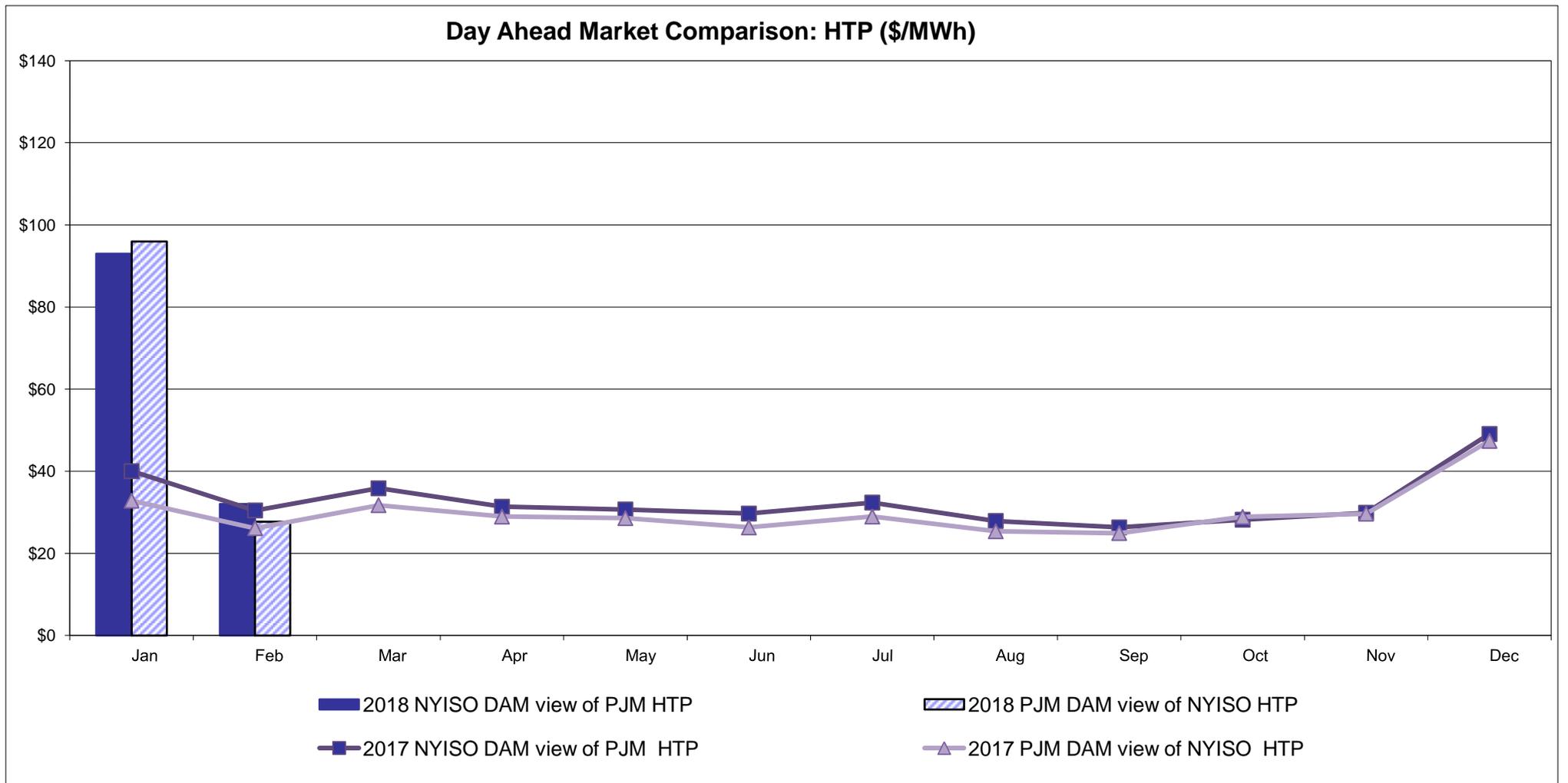


Note:  
Hydro-Quebec Prices are unavailable.

# External Controllable Line: Linden VFT (PJM)



# External Controllable Line: Hudson (PJM)

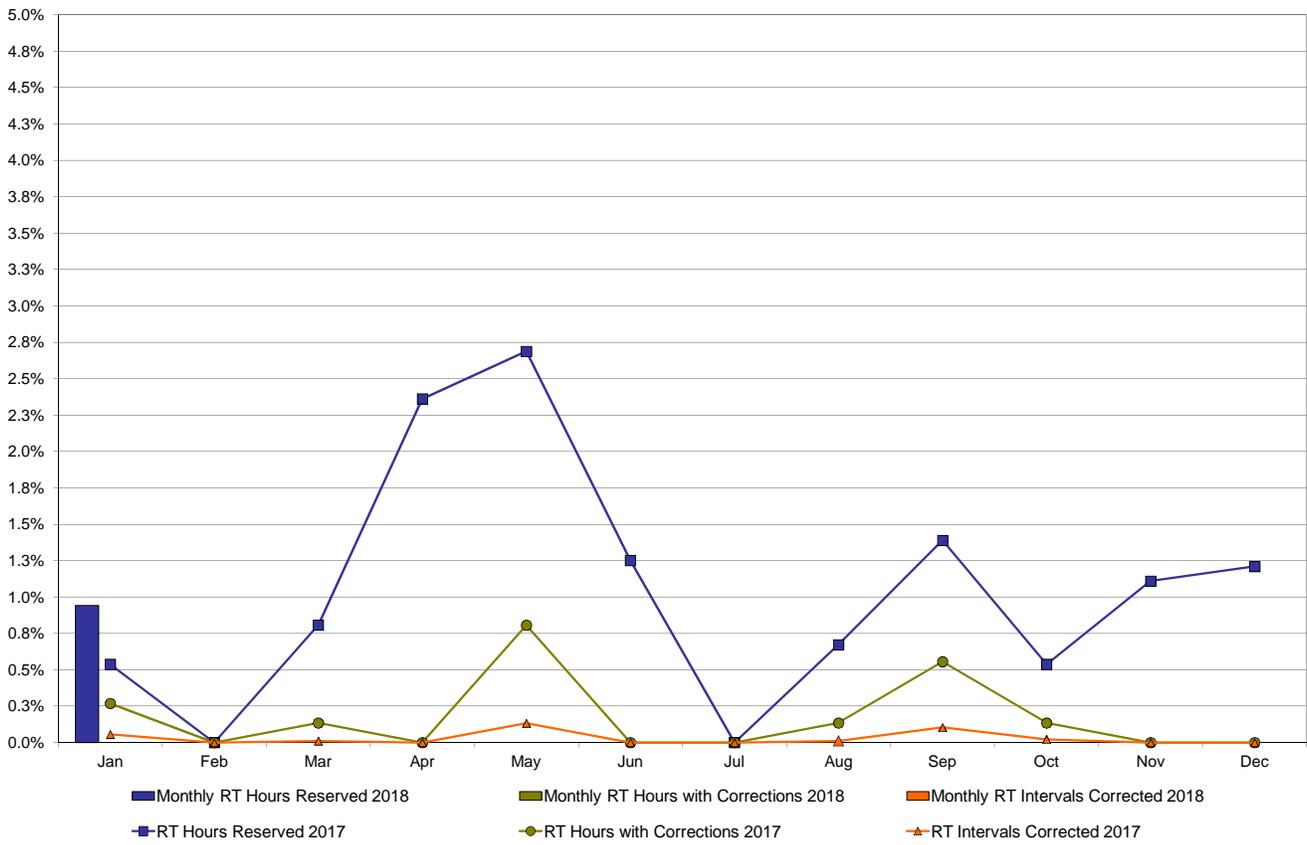


## NYISO Real Time Price Correction Statistics

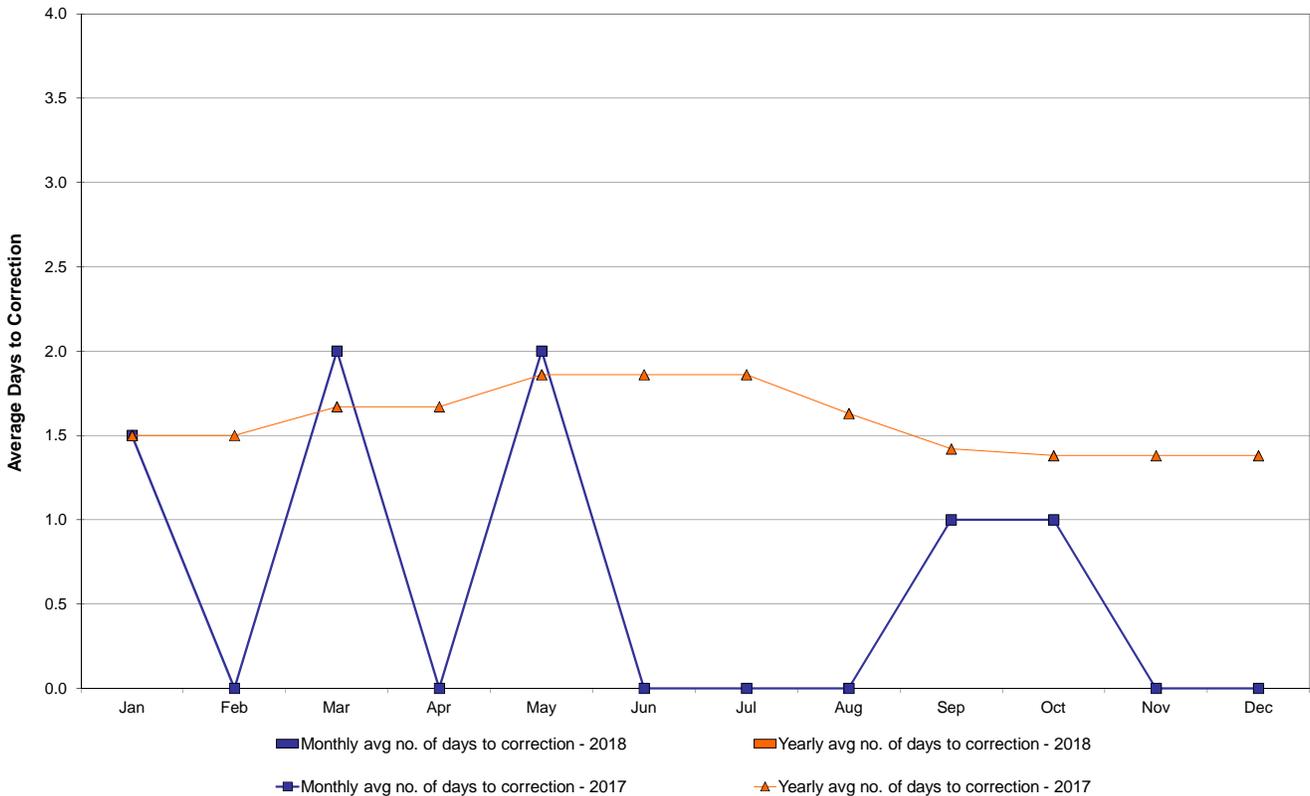
<b>2018</b>		<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
<b>Hour Corrections</b>													
Number of hours with corrections	in the month	0	0										
Number of hours	in the month	744	672										
% of hours with corrections	in the month	0.00%	0.00%										
% of hours with corrections	year-to-date	0.00%	0.00%										
<b>Interval Corrections</b>													
Number of intervals corrected	in the month	0	0										
Number of intervals	in the month	9,021	8,112										
% of intervals corrected	in the month	0.00%	0.00%										
% of intervals corrected	year-to-date	0.00%	0.00%										
<b>Hours Reserved</b>													
Number of hours reserved	in the month	7	0										
Number of hours	in the month	744	672										
% of hours reserved	in the month	0.94%	0.00%										
% of hours reserved	year-to-date	0.94%	0.49%										
<b>Days to Correction *</b>													
Avg. number of days to correction	in the month	0.00	0.00										
Avg. number of days to correction	year-to-date	0.00	0.00										
<b>Days Without Corrections</b>													
Days without corrections	in the month	31	28										
Days without corrections	year-to-date	31	59										
<b>2017</b>		<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
<b>Hour Corrections</b>													
Number of hours with corrections	in the month	2	0	1	0	6	0	0	1	4	1	0	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%	0.00%	0.13%	0.00%	0.81%	0.00%	0.00%	0.13%	0.56%	0.13%	0.00%	0.00%
% of hours with corrections	year-to-date	0.27%	0.14%	0.14%	0.10%	0.25%	0.21%	0.18%	0.17%	0.21%	0.21%	0.19%	0.17%
<b>Interval Corrections</b>													
Number of intervals corrected	in the month	5	0	1	0	12	0	0	1	9	2	0	0
Number of intervals	in the month	8,983	8,101	9,026	8,745	9,004	8,712	8,968	8,980	8,701	9,006	8,712	9,063
% of intervals corrected	in the month	0.06%	0.00%	0.01%	0.00%	0.13%	0.00%	0.00%	0.01%	0.10%	0.02%	0.00%	0.00%
% of intervals corrected	year-to-date	0.06%	0.03%	0.02%	0.02%	0.04%	0.03%	0.03%	0.03%	0.04%	0.03%	0.03%	0.03%
<b>Hours Reserved</b>													
Number of hours reserved	in the month	4	0	6	17	20	9	0	5	10	4	8	9
Number of hours	in the month	744	672	743	720	744	720	744	744	720	744	721	744
% of hours reserved	in the month	0.54%	0.00%	0.81%	2.36%	2.69%	1.25%	0.00%	0.67%	1.39%	0.54%	1.11%	1.21%
% of hours reserved	year-to-date	0.54%	0.28%	0.46%	0.94%	1.30%	1.29%	1.10%	1.05%	1.08%	1.03%	1.04%	1.05%
<b>Days to Correction *</b>													
Avg. number of days to correction	in the month	1.50	0.00	2.00	0.00	2.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00
Avg. number of days to correction	year-to-date	1.50	1.50	1.67	1.67	1.86	1.86	1.86	1.63	1.42	1.38	1.38	1.38
<b>Days Without Corrections</b>													
Days without corrections	in the month	29	28	30	30	27	30	31	30	26	30	30	31
Days without corrections	year-to-date	29	57	87	117	144	174	205	235	261	291	321	352

\* Calendar days from reservation date.

### Percentage of Real-Time Corrections

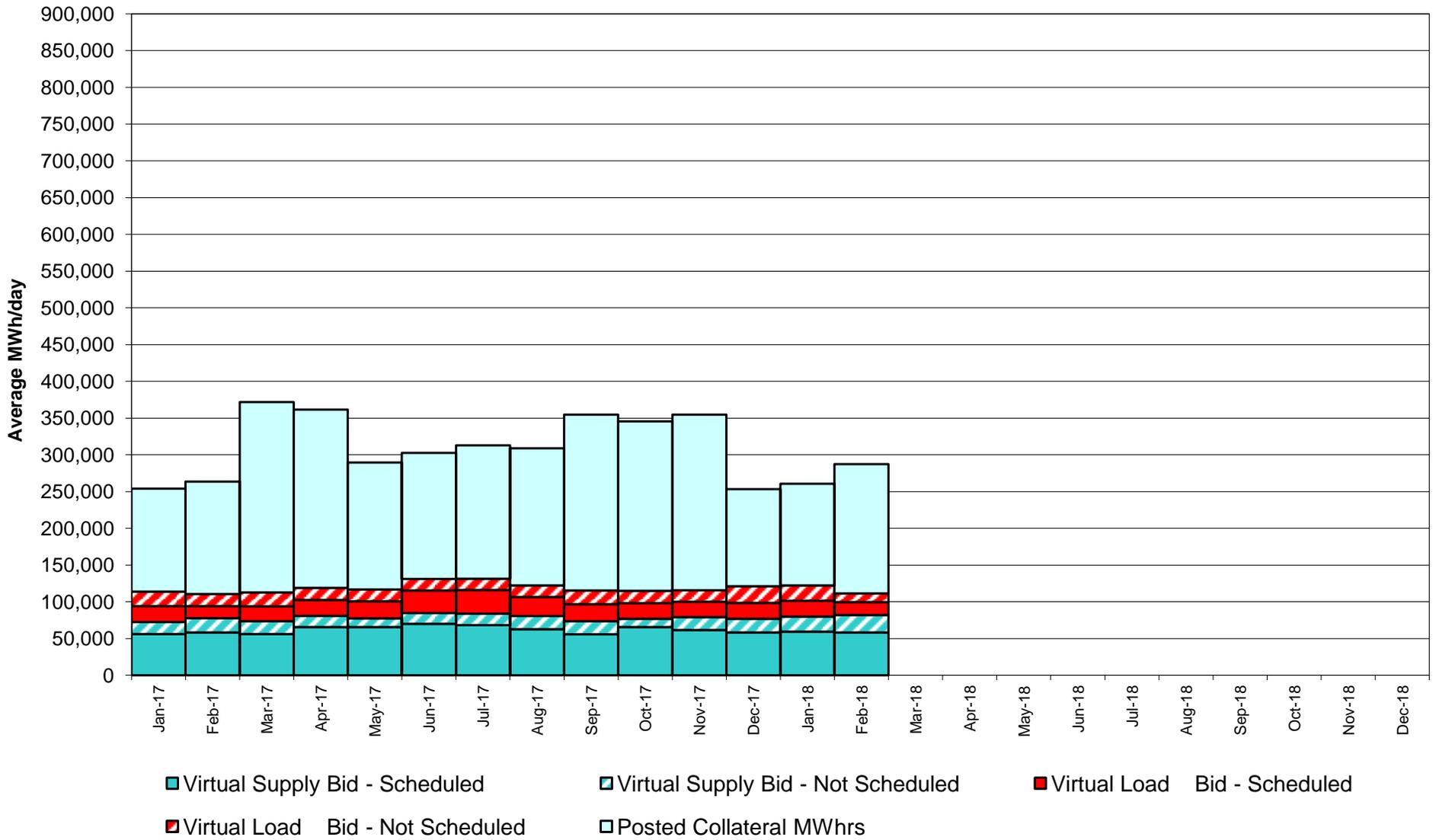


### Annual average time period for making Price Corrections (from reservation date) \*

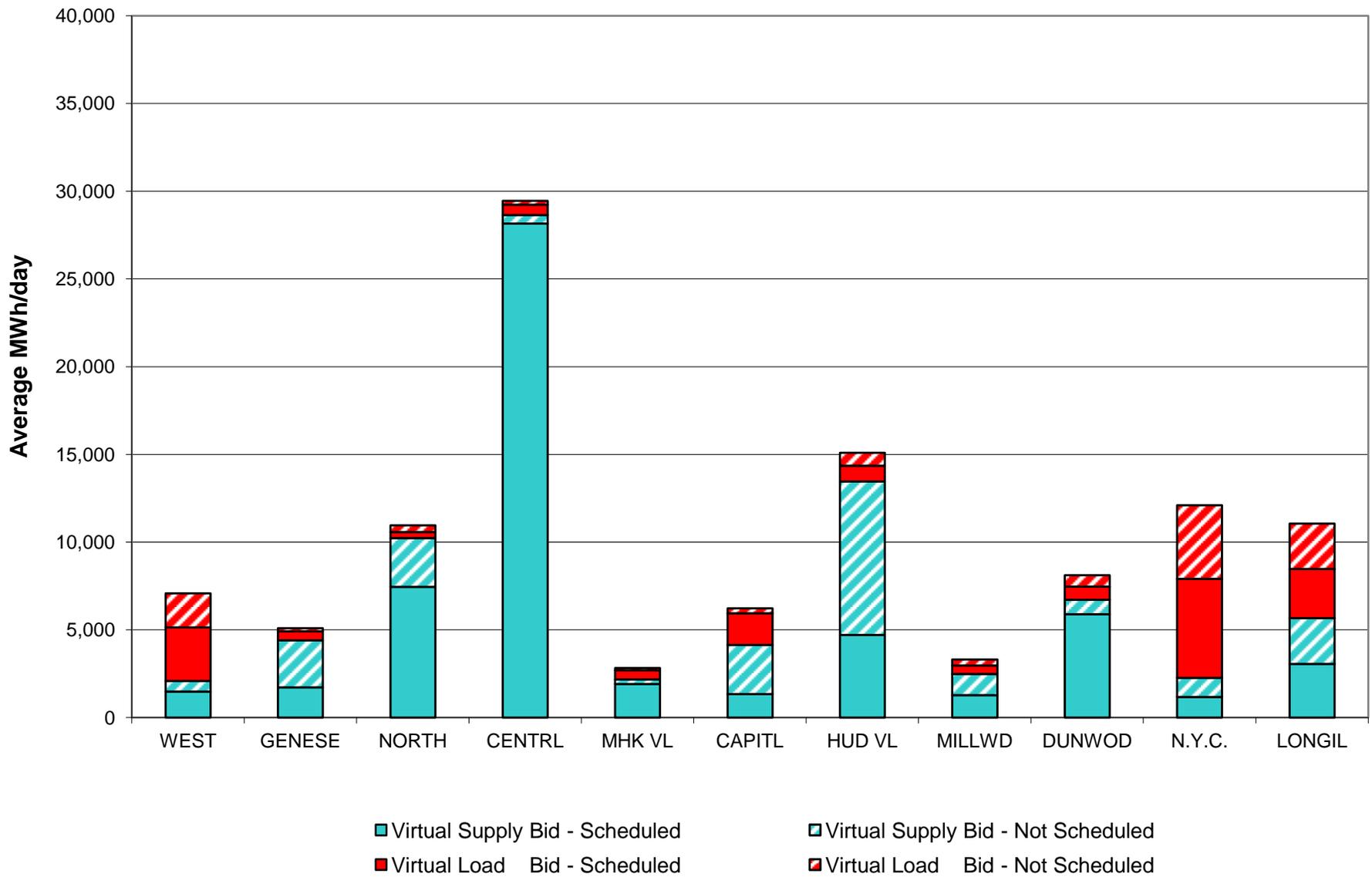


\* Calendar days from reservation date.

## NYISO Virtual Trading Average MWh per day



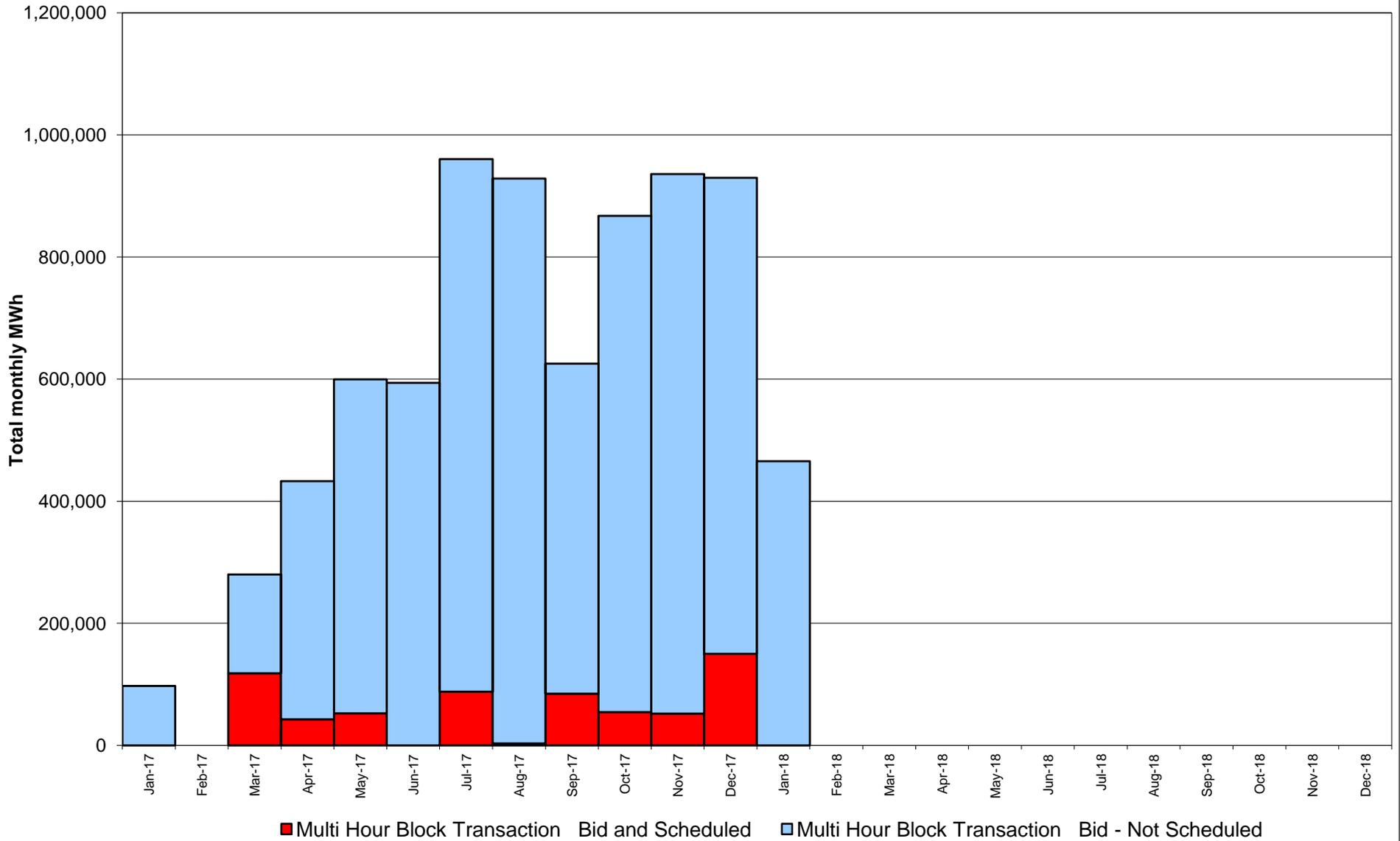
**Virtual Load and Supply Zonal Statistics  
through February 28, 2018**



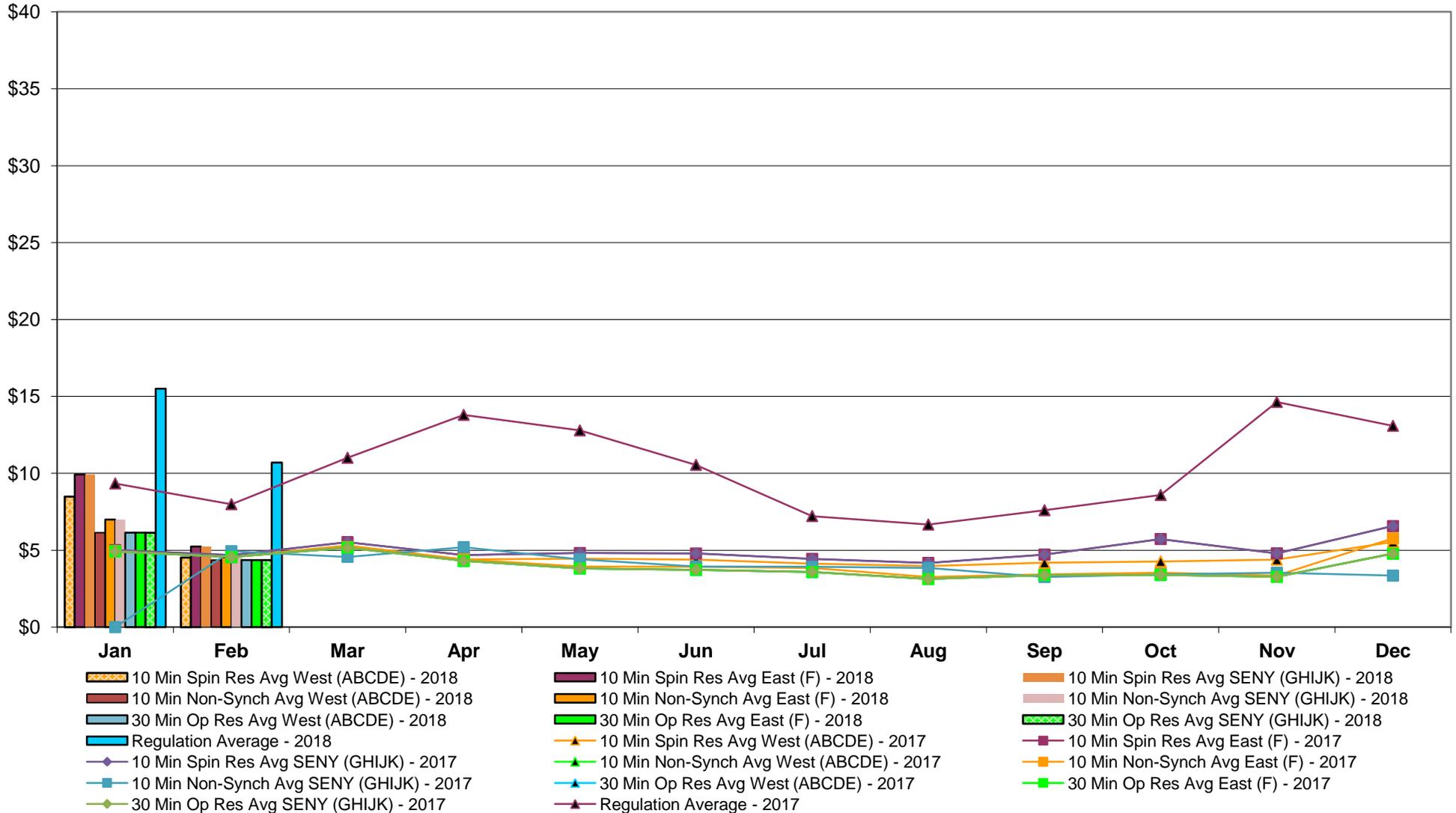
**Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2018**

		Virtual Load Bid		Virtual Supply Bid				Virtual Load Bid		Virtual Supply Bid				Virtual Load Bid		Virtual Supply Bid	
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-18	4,761	4,241	1,938	427	<b>MHK VL</b>	Jan-18	763	456	2,040	266	<b>DUNWOD</b>	Jan-18	1,795	1,509	2,215	620
	Feb-18	3,058	1,941	1,478	603		Feb-18	512	130	1,910	269		Feb-18	742	658	5,891	824
	Mar-18						Mar-18						Mar-18				
	Apr-18						Apr-18						Apr-18				
	May-18						May-18						May-18				
	Jun-18						Jun-18						Jun-18				
	Jul-18						Jul-18						Jul-18				
	Aug-18						Aug-18						Aug-18				
	Sep-18						Sep-18						Sep-18				
	Oct-18						Oct-18						Oct-18				
	Nov-18						Nov-18						Nov-18				
	Dec-18						Dec-18						Dec-18				
<b>GENESE</b>	Jan-18	554	310	3,772	2,739	<b>CAPITL</b>	Jan-18	2,291	1,751	1,887	2,212	<b>N.Y.C.</b>	Jan-18	4,302	5,885	1,359	704
	Feb-18	525	172	1,723	2,671		Feb-18	1,822	269	1,331	2,799		Feb-18	5,644	4,187	1,181	1,086
	Mar-18						Mar-18						Mar-18				
	Apr-18						Apr-18						Apr-18				
	May-18						May-18						May-18				
	Jun-18						Jun-18						Jun-18				
	Jul-18						Jul-18						Jul-18				
	Aug-18						Aug-18						Aug-18				
	Sep-18						Sep-18						Sep-18				
	Oct-18						Oct-18						Oct-18				
	Nov-18						Nov-18						Nov-18				
	Dec-18						Dec-18						Dec-18				
<b>NORTH</b>	Jan-18	274	282	8,259	3,265	<b>HUD VL</b>	Jan-18	1,562	1,285	5,029	7,218	<b>LONGIL</b>	Jan-18	3,335	3,714	1,932	1,622
	Feb-18	352	369	7,449	2,777		Feb-18	888	740	4,703	8,761		Feb-18	2,800	2,591	3,061	2,605
	Mar-18						Mar-18						Mar-18				
	Apr-18						Apr-18						Apr-18				
	May-18						May-18						May-18				
	Jun-18						Jun-18						Jun-18				
	Jul-18						Jul-18						Jul-18				
	Aug-18						Aug-18						Aug-18				
	Sep-18						Sep-18						Sep-18				
	Oct-18						Oct-18						Oct-18				
	Nov-18						Nov-18						Nov-18				
	Dec-18						Dec-18						Dec-18				
<b>CENTRL</b>	Jan-18	983	434	28,975	647	<b>MILLWD</b>	Jan-18	923	988	2,033	757	<b>NYISO</b>	Jan-18	21,542	20,854	59,437	20,478
	Feb-18	595	215	28,161	483		Feb-18	486	337	1,284	1,197		Feb-18	17,423	11,608	58,172	24,075
	Mar-18						Mar-18						Mar-18				
	Apr-18						Apr-18						Apr-18				
	May-18						May-18						May-18				
	Jun-18						Jun-18						Jun-18				
	Jul-18						Jul-18						Jul-18				
	Aug-18						Aug-18						Aug-18				
	Sep-18						Sep-18						Sep-18				
	Oct-18						Oct-18						Oct-18				
	Nov-18						Nov-18						Nov-18				
	Dec-18						Dec-18						Dec-18				

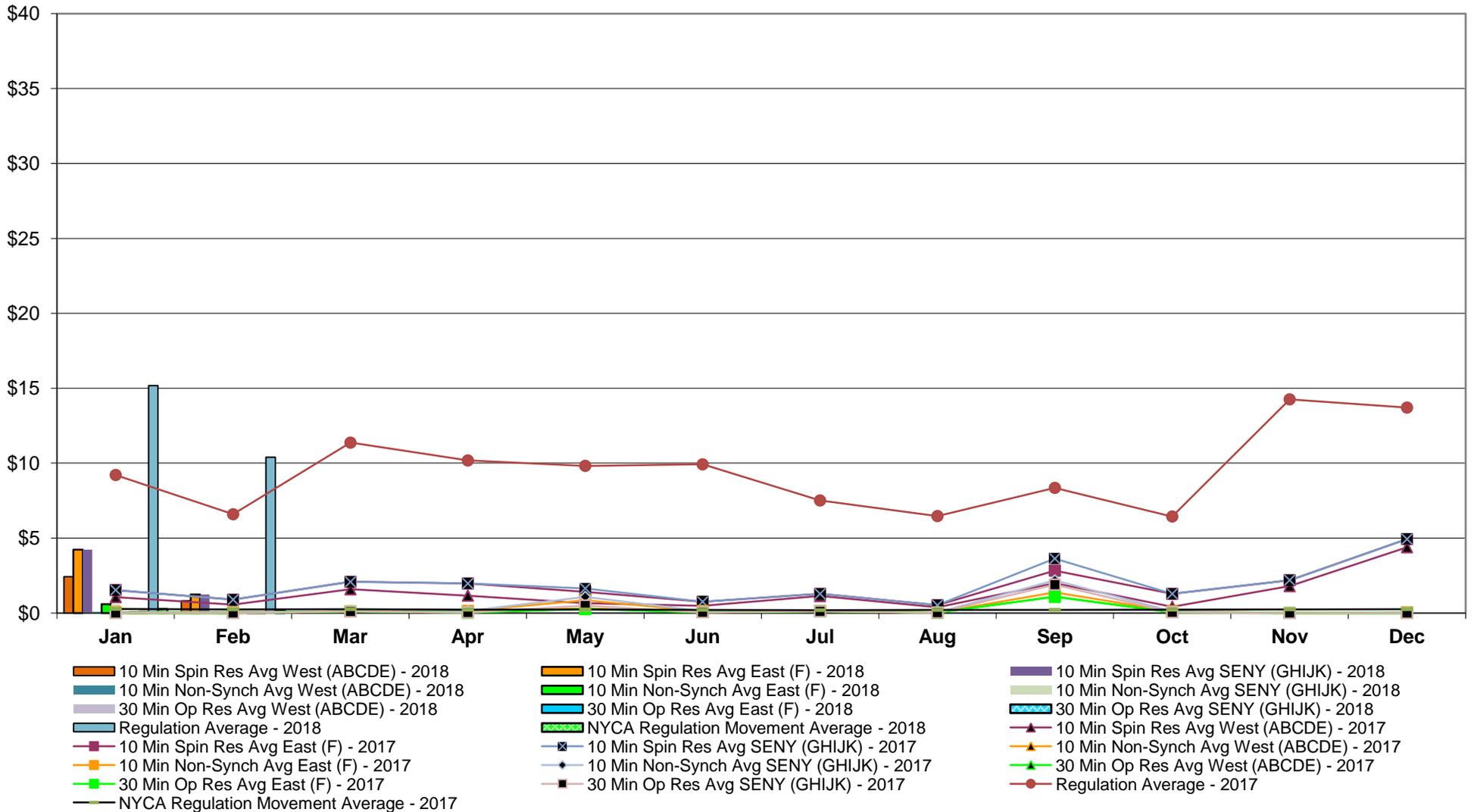
## NYISO Multi Hour Block Transactions Monthly Total MWh



## NYISO Monthly Average Ancillary Service Prices Day Ahead Market 2017 - 2018



## NYISO Monthly Average Ancillary Service Prices RTC Market 2017 - 2018



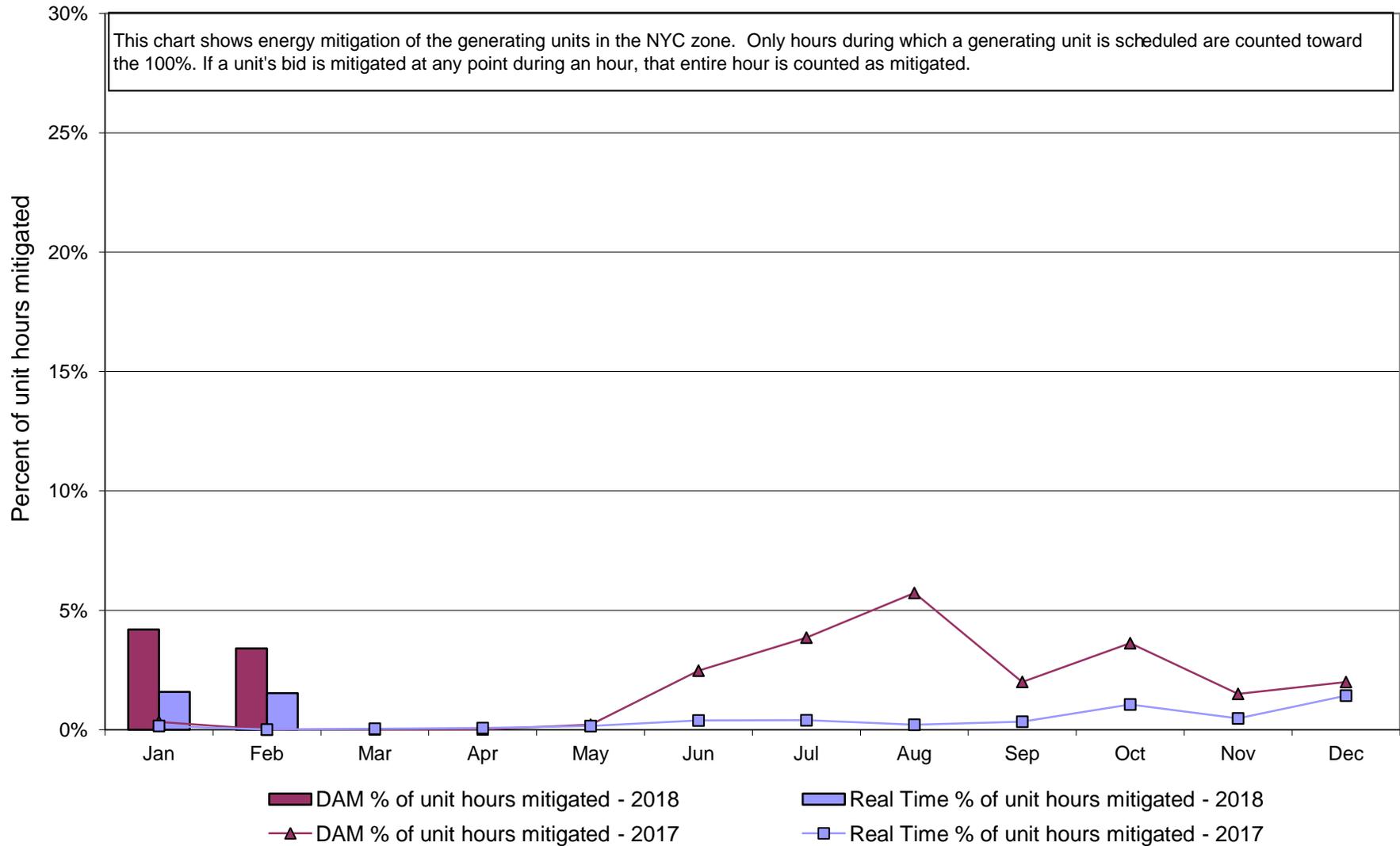


## NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH)

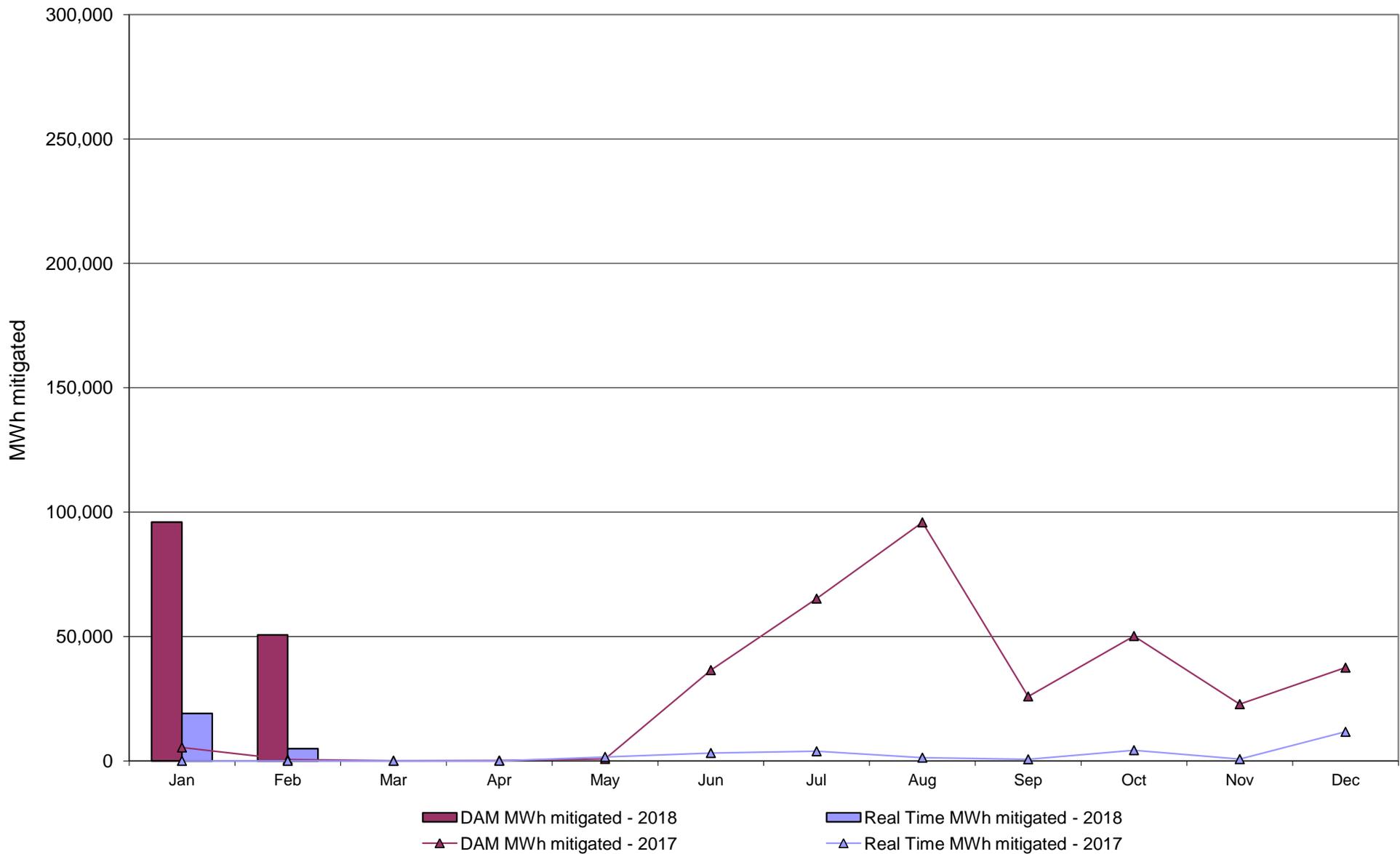
2018	January	February	March	April	May	June	July	August	September	October	November	December
<b>Day Ahead Market</b>												
10 Min Spin SENY (GHIJK)	9.93	5.24										
10 Min Spin East (F)	9.93	5.24										
10 Min Spin West (ABCDE)	8.49	4.53										
10 Min Non Synch SENY (GHIJK)	6.99	4.54										
10 Min Non Synch East (F)	6.99	4.54										
10 Min Non Synch West (ABCDE)	6.15	4.36										
30 Min SENY (GHIJK)	6.14	4.36										
30 Min East (F)	6.14	4.36										
30 Min West (ABCDE)	6.14	4.36										
Regulation	15.51	10.70										
<b>RTC Market</b>												
10 Min Spin SENY (GHIJK)	4.23	1.24										
10 Min Spin East (F)	4.23	1.24										
10 Min Spin West (ABCDE)	2.43	0.82										
10 Min Non Synch SENY (GHIJK)	0.59	0.03										
10 Min Non Synch East (F)	0.59	0.03										
10 Min Non Synch West (ABCDE)	0.08	0.02										
30 Min SENY (GHIJK)	0.08	0.02										
30 Min East (F)	0.08	0.02										
30 Min West (ABCDE)	0.08	0.02										
Regulation	15.17	10.40										
NYCA Regulation Movement	0.26	0.21										
<b>Real Time Market</b>												
10 Min Spin SENY (GHIJK)	11.31	3.19										
10 Min Spin East (F)	11.31	3.19										
10 Min Spin West (ABCDE)	7.24	2.52										
10 Min Non Synch SENY (GHIJK)	3.61	0.01										
10 Min Non Synch East (F)	3.61	0.01										
10 Min Non Synch West (ABCDE)	0.85	0.00										
30 Min SENY (GHIJK)	0.13	0.00										
30 Min East (F)	0.13	0.00										
30 Min West (ABCDE)	0.13	0.00										
Regulation	19.82	10.82										
NYCA Regulation Movement	0.24	0.21										
<b>2017</b>												
<b>Day Ahead Market</b>												
10 Min Spin SENY (GHIJK)	5.01	5.38	5.04	6.31	4.93	4.62	6.41	7.12	5.57	5.37	4.83	4.89
10 Min Spin East (F)	5.01	5.38	5.04	6.31	4.93	4.62	6.41	7.12	5.57	5.37	4.83	4.89
10 Min Spin West (ABCDE)	4.94	5.25	4.84	5.60	4.77	4.52	5.78	6.20	5.14	4.89	4.50	4.73
10 Min Non Synch SENY (GHIJK)	4.94	5.25	4.88	5.80	4.83	4.36	6.34	7.07	5.52	5.09	4.43	4.49
10 Min Non Synch East (F)	4.94	5.25	4.88	5.80	4.83	4.36	6.34	7.07	5.52	5.09	4.43	4.49
10 Min Non Synch West (ABCDE)	4.92	5.20	4.84	5.58	4.68	4.32	5.72	6.15	5.10	4.82	4.39	4.43
30 Min SENY (GHIJK)	4.92	5.20	4.84	5.58	4.67	4.32	5.70	6.15	5.10	4.82	4.39	4.43
30 Min East (F)	4.92	5.20	4.84	5.58	4.67	4.32	5.70	6.15	5.10	4.82	4.39	4.43
30 Min West (ABCDE)	4.92	5.20	4.84	5.58	4.67	4.32	5.70	6.15	5.10	4.82	4.39	4.43
Regulation	9.34	8.19	8.05	7.93	6.11	7.00	8.19	8.61	7.00	8.57	7.77	13.80
<b>RTC Market</b>												
10 Min Spin SENY (GHIJK)	1.53	0.59	0.71	1.81	0.43	0.49	2.79	7.26	0.61	0.99	1.05	1.92
10 Min Spin East (F)	1.53	0.59	0.71	1.81	0.43	0.46	2.77	6.88	0.61	0.99	1.05	1.92
10 Min Spin West (ABCDE)	1.06	0.26	0.08	0.95	0.23	0.24	1.72	4.80	0.30	0.29	0.82	1.14
10 Min Non Synch SENY (GHIJK)	0.06	0.00	0.17	0.14	0.05	0.05	1.89	6.06	0.21	0.09	0.00	0.00
10 Min Non Synch East (F)	0.06	0.00	0.17	0.14	0.05	0.02	1.87	5.67	0.21	0.09	0.00	0.00
10 Min Non Synch West (ABCDE)	0.00	0.00	0.00	0.14	0.04	0.02	1.18	3.80	0.16	0.08	0.00	0.00
30 Min SENY (GHIJK)	0.00	0.00	0.00	0.14	0.04	0.04	0.94	3.65	0.15	0.08	0.00	0.00
30 Min East (F)	0.00	0.00	0.00	0.14	0.04	0.02	0.93	3.27	0.15	0.08	0.00	0.00
30 Min West (ABCDE)	0.00	0.00	0.00	0.14	0.04	0.02	0.93	3.27	0.15	0.08	0.00	0.00
Regulation	9.21	6.86	7.15	7.07	5.43	6.09	7.51	10.25	5.52	6.86	7.00	16.70
NYCA Regulation Movement	0.27	0.21	0.20	0.25	0.25	0.23	0.23	0.24	0.24	0.26	0.24	0.26
<b>Real Time Market</b>												
10 Min Spin SENY (GHIJK)	3.29	1.12	1.73	4.34	1.19	1.43	4.73	8.04	1.59	1.96	2.69	3.18
10 Min Spin East (F)	3.29	1.12	1.73	4.34	1.19	1.40	4.72	7.68	1.59	1.96	2.69	3.18
10 Min Spin West (ABCDE)	2.71	0.58	0.48	2.23	0.79	1.00	2.51	4.72	0.90	1.16	2.29	2.33
10 Min Non Synch SENY (GHIJK)	0.00	0.00	0.22	1.20	0.06	0.15	3.49	6.70	0.59	0.18	0.00	0.00
10 Min Non Synch East (F)	0.00	0.00	0.22	1.20	0.06	0.11	3.48	6.34	0.59	0.18	0.00	0.00
10 Min Non Synch West (ABCDE)	0.00	0.00	0.00	0.26	0.03	0.04	1.65	3.56	0.21	0.11	0.00	0.00
30 Min SENY (GHIJK)	0.00	0.00	0.00	0.25	0.03	0.07	0.98	3.48	0.21	0.11	0.00	0.00
30 Min East (F)	0.00	0.00	0.00	0.25	0.03	0.04	0.97	3.12	0.21	0.11	0.00	0.00
30 Min West (ABCDE)	0.00	0.00	0.00	0.25	0.03	0.04	0.97	3.12	0.21	0.11	0.00	0.00
Regulation	9.83	7.21	7.73	8.30	6.06	6.92	8.37	10.31	6.42	7.70	8.21	14.88
NYCA Regulation Movement	0.27	0.22	0.20	0.25	0.25	0.23	0.23	0.24	0.24	0.26	0.23	0.24

## NYISO In City Energy Mitigation - AMP (NYC Zone) 2017 - 2018

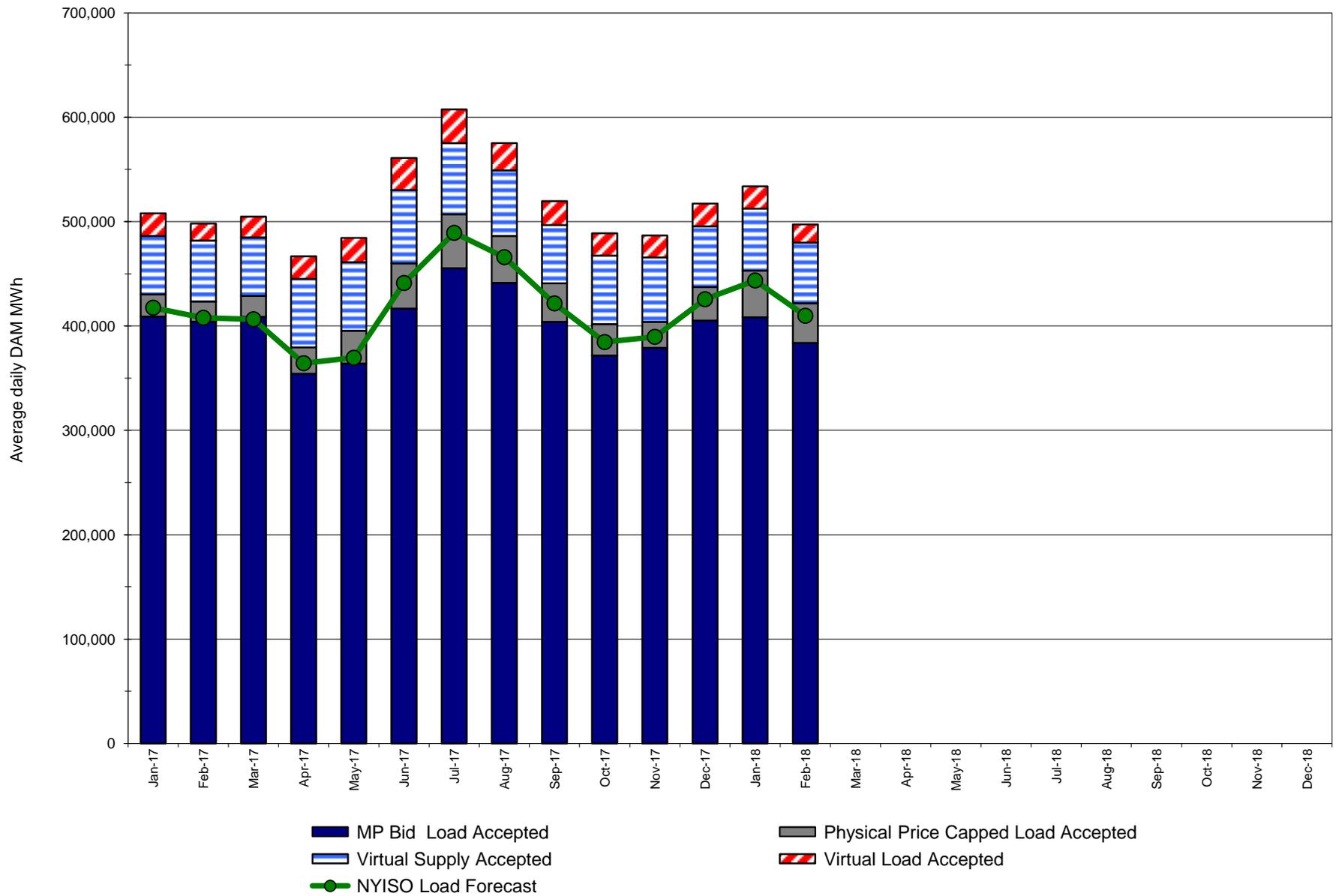
### Percentage of committed unit-hours mitigated



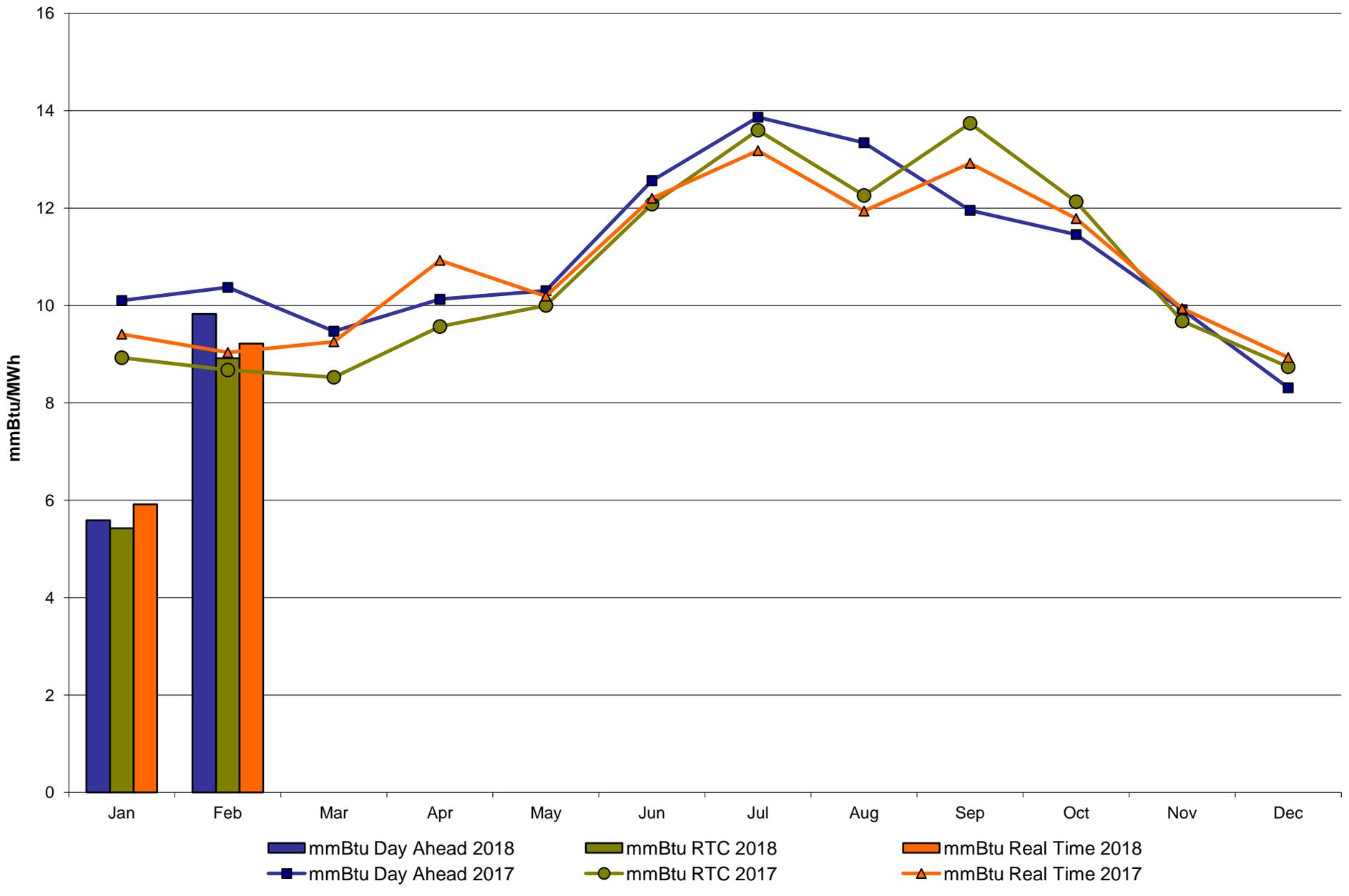
**NYISO In City Energy Mitigation (NYC Zone) 2017 - 2018**  
**Monthly megawatt hours mitigated**



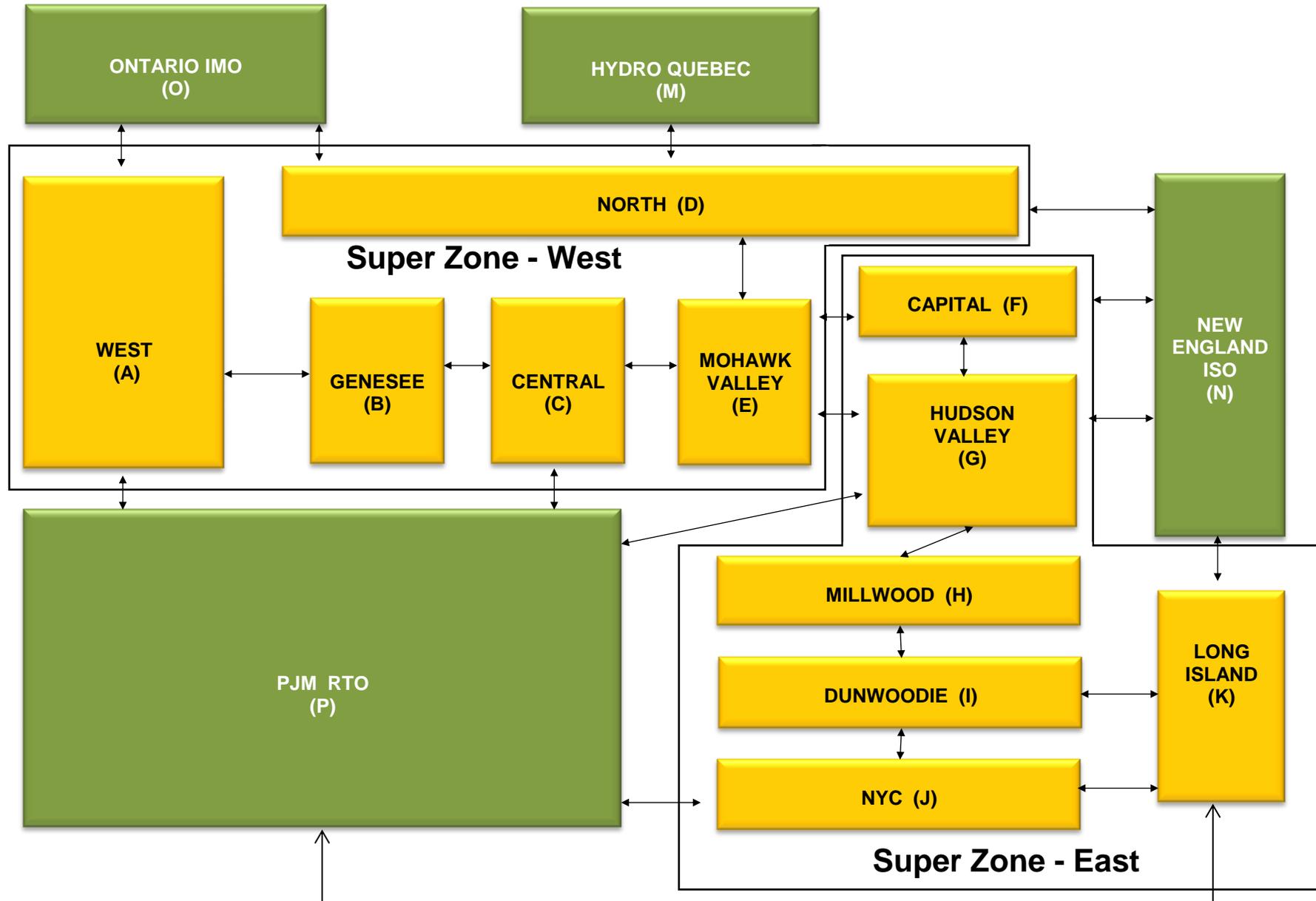
### NYISO Average Daily DAM Load Bid Summary



# Monthly Implied Heat Rate 2017-2018



# NYISO LBMP ZONES



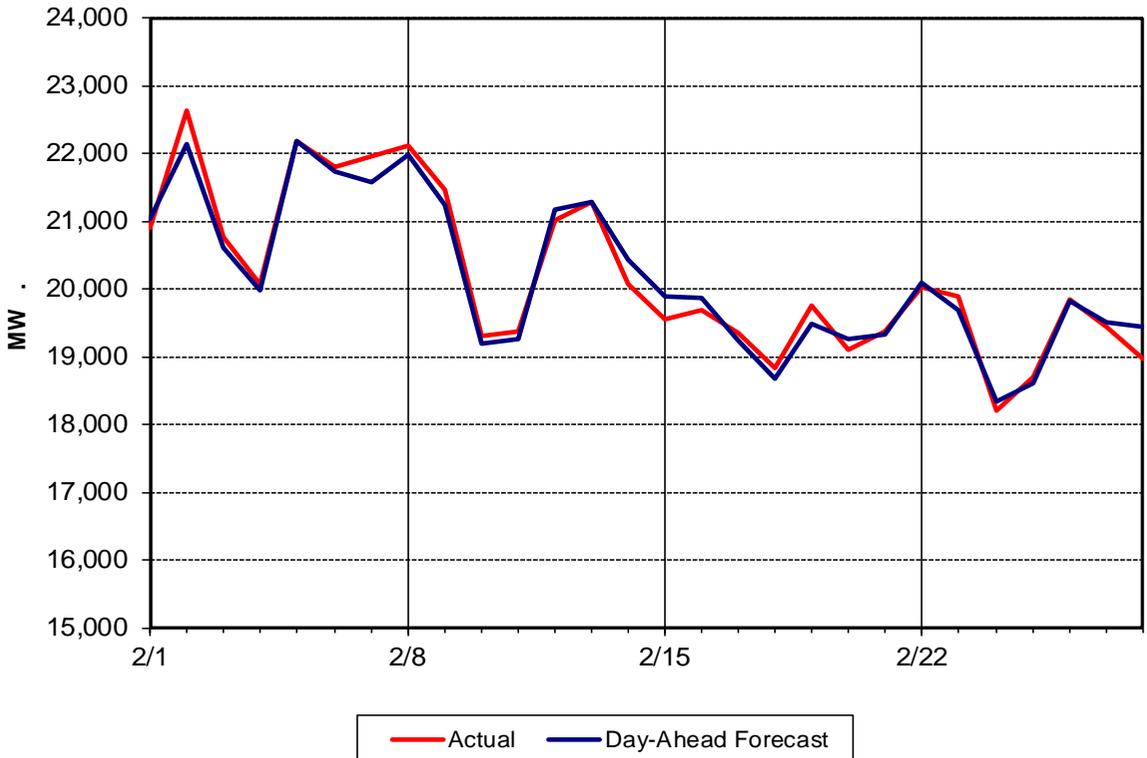
**Billing Codes for Chart C**

<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

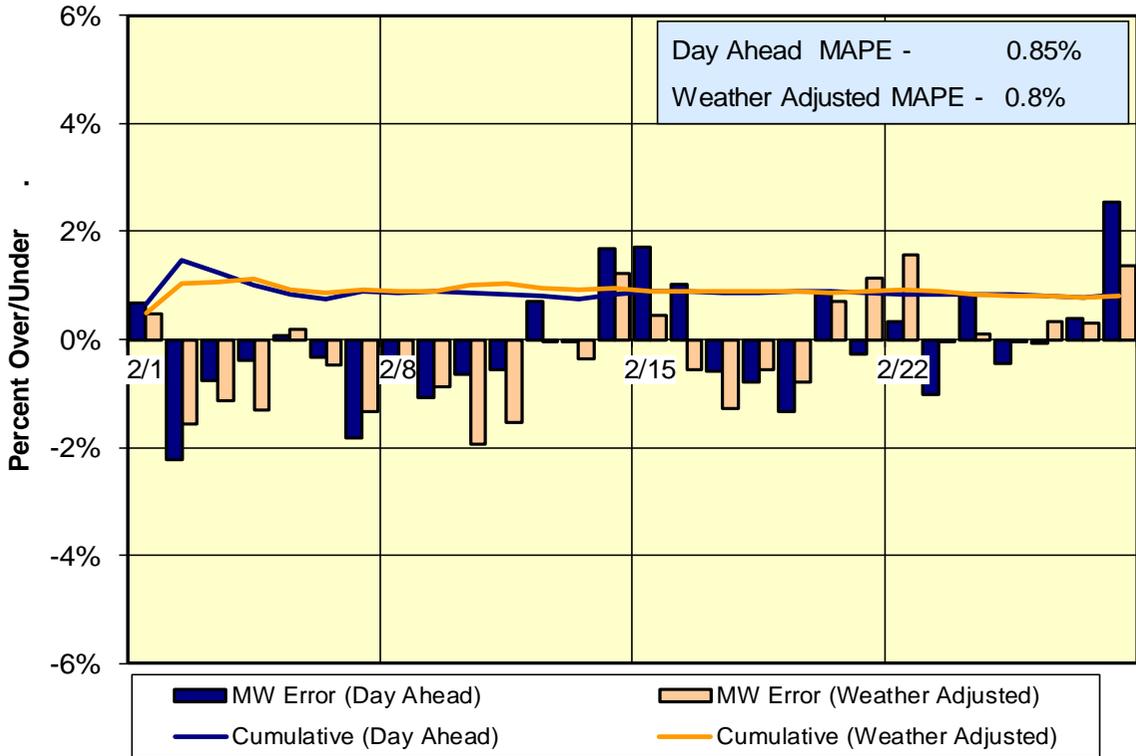
**NYISO Daily Peak Load - February 2018  
Actual vs. Weather-Adjusted Forecast**



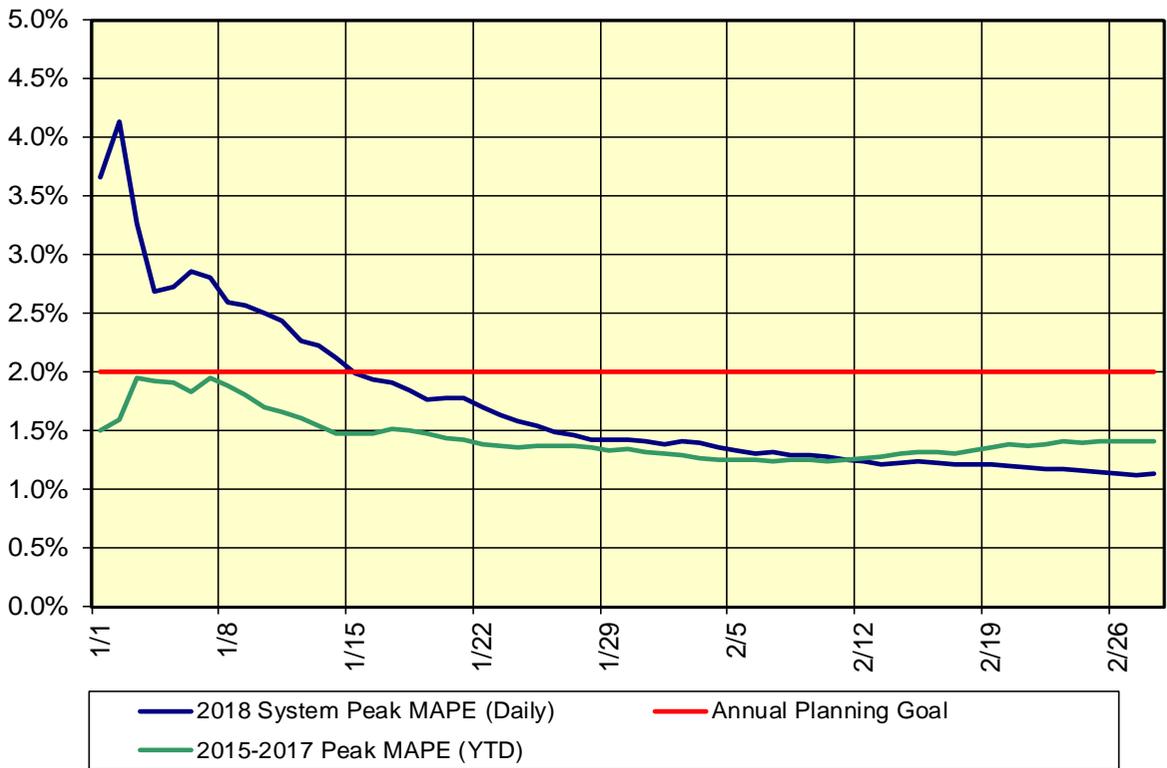
**NYISO Daily Peak Load - February 2018  
Actual vs. Forecast**



### Day Ahead Peak Forecast - February 2018 Percent Error - Actual & Weather Adjusted



### Day-Ahead Forecast Accuracy - Cumulative Performance 2018 Year-to-Date



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

Filing Date	Filing Summary	Docket	Order Date	Order Summary
01/27/2016	NYISO filing re: request for rehearing of FERC's 12/23/2015 order concerning public policy transmission planning process tariff revisions	ER15-2059-002	02/15/2018	Order granted in part and denied in part requests for rehearing and clarification, and directed NYISO to make a further compliance filing within 30 days
01/27/2016	NYISO filing re: request for rehearing and clarification of FERC's 12/23/2015 order concerning NYISO's reliability transmission planning process	ER13-102-008	02/15/2018	Order granted in part and denied in part requests for rehearing and clarification, and directed NYISO to make a further compliance filing within 30 days
03/22/2016 05/24/2016 09/13/2016	NYISO Fifth and Sixth compliance filings re: Order No. 1000 requirements e.g., <i>pro forma</i> operating agreement and transmission interconnection procedures	ER13-102-009 ER13-102-010 ER13-102-011	02/15/2018	Order conditionally accepted tariff revisions and directed NYISO make a further compliance filing within 30 days
02/01/2018	NYISO confidential filing to the NYPSC re: Project Tracking Report charts the development status of proposed generation and transmission projects through 12/31/2017	PSC Matter No. 10-02007		
02/08/2018	NYISO filing to the NYPSC re: comments on the NYSRC adoption of an 18.2% IRM for the NYCA for the 2018-2019 Capability Year	PSC Case No. 07-E-0088		
02/12/2018	NYISO filing re: initial brief pursuant to FERC notice of 206 proceeding regarding NYISO's pricing of fast-start resources	EL18-33-000		
02/15/2018	NYISO compliance filing re: to establish procedures for allocating revenues received from the sale of Non-Historic Fixed Price TCCs	ER18-861-000		
02/15/2018	NYISO confidential filing to the NYPSC re: three-month Reliability Commitment Data Report for the period ending 01/31/2018	PSC Matter No. 10-02007		
02/20/2018	NYISO compliance filing with the NYPSC re: verified report of the NYISO for authority to incur indebtedness for a term in excess of twelve months	PSC Case No. 15-E-0655		

02/23/2018	NYISO answer re: the NJBPU complaint v. PJM, NYISO, Con Edison, Linden VFT, HTP and NYPA	EL18-54-000		
02/26/2018	NYISO comments to the EPA re: state guidelines for greenhouse gas emissions from existing electric utility generating units	EPA-HQ-OAR-2017-0545-0001		
02/26/2018	IRC filing of NOPR comments re: cyber security incident reporting reliability standards	RM18-02-000		