



---

# ERCOT Monthly Operational Overview (**September 2015**)

ERCOT Public  
October 15, 2015

---

# **Grid Planning & Operations**

---

## Summary – September 2015

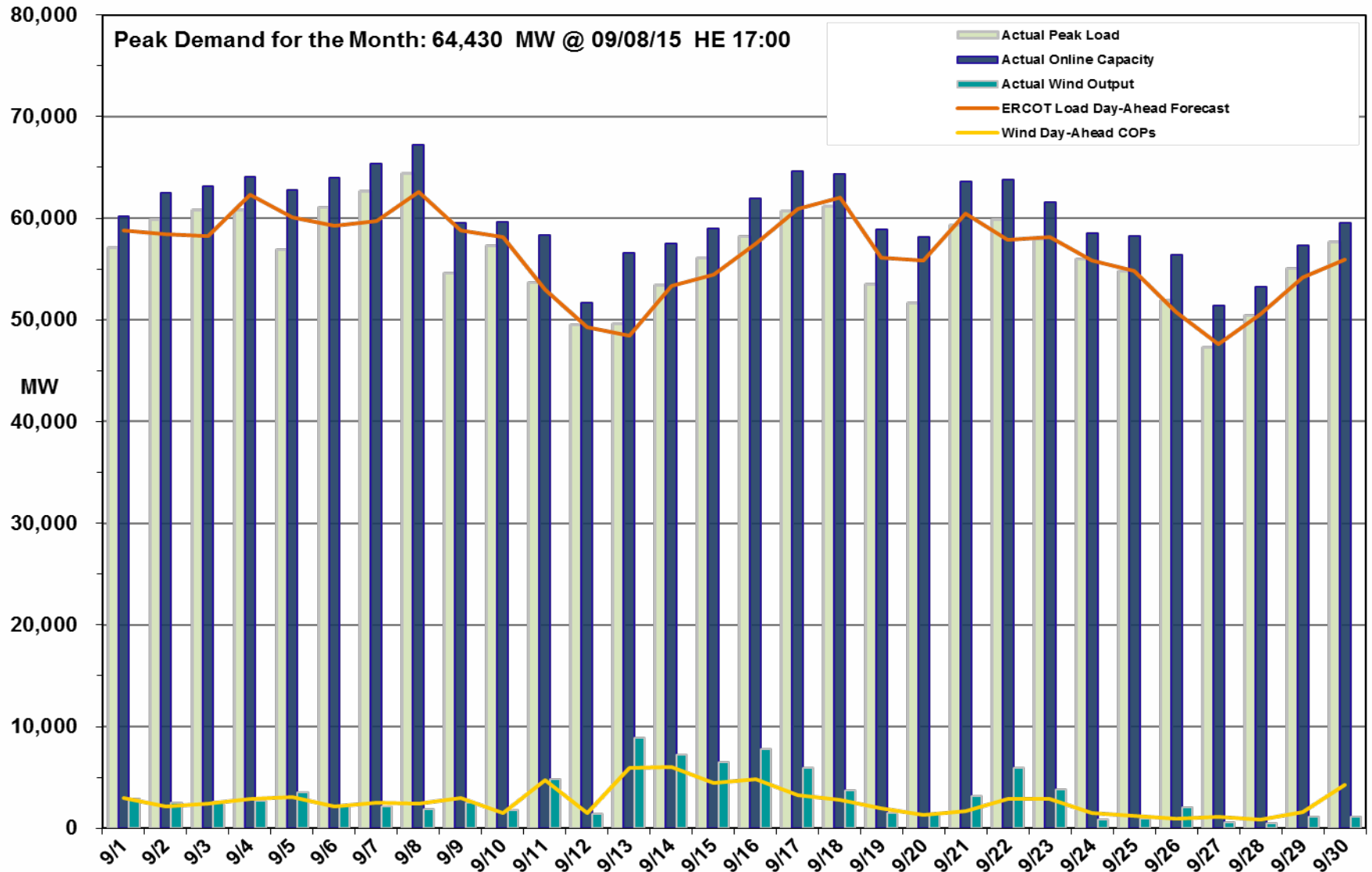
### Operations

- The peak demand of 64,430 MW on September 8th was greater than the mid-term forecast peak of 62,619 MW of the same operating period. In addition, it was slightly greater than the September 2014 actual peak demand of 64,397 MW. The instantaneous peak load on September 8th was 64,507 MW.
- Day-ahead load forecast error for September was 2.32%
- ERCOT issued seven notifications
  - Three Operational Information notices due to a GMD (Geomagnetic Disturbance) warning of K-7
  - Two advisories due to GMD alerts of K-7
  - One OCN due to the development of a new Generic Transmission Constraint (GTC) due to a local voltage stability issue
  - One OCN due to a delay in the posting of MIS reports

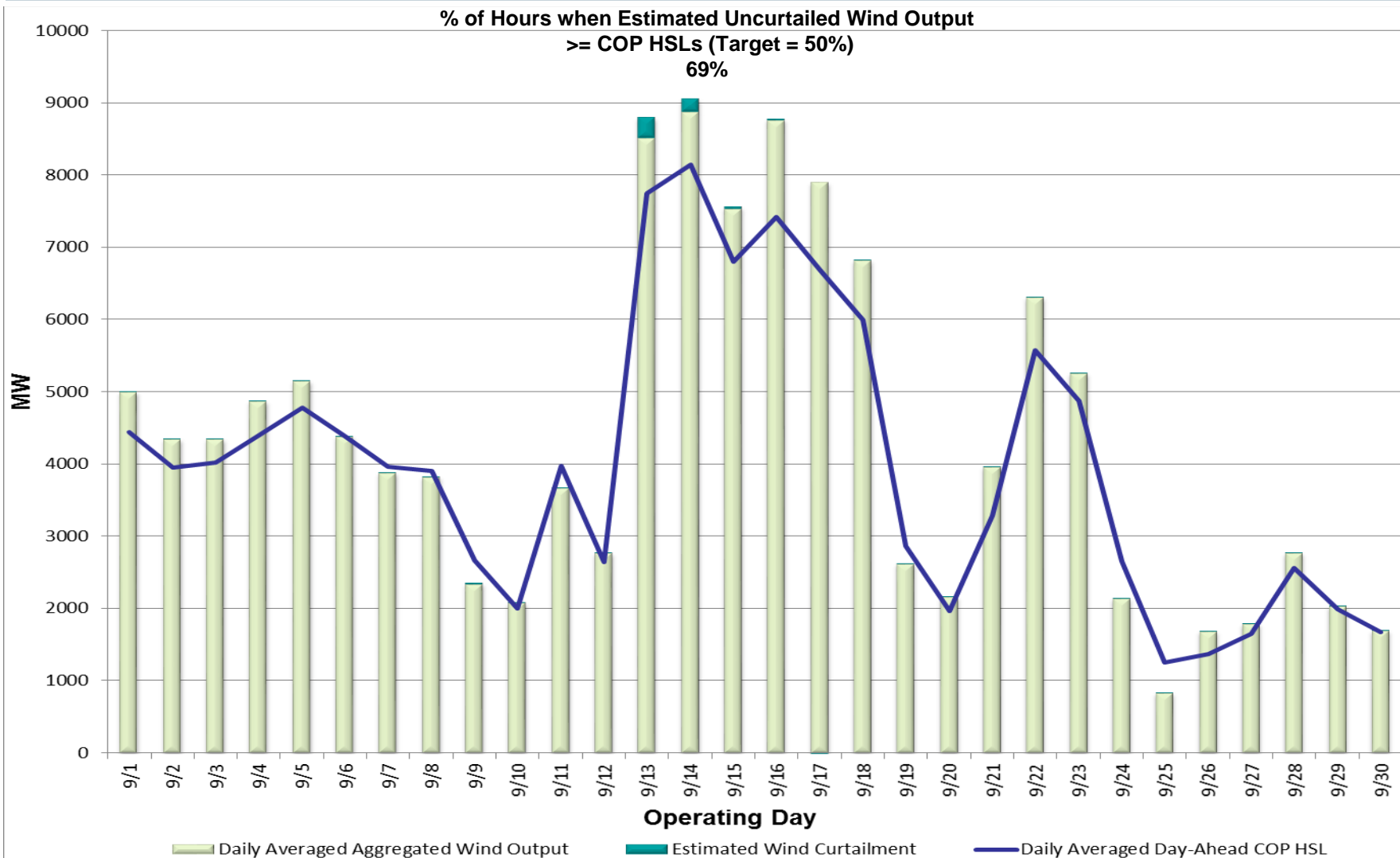
### Planning Activities

- 267 active generation interconnection requests totaling 62,993 MW, including 24,648 MW of wind generation as of September 30, 2015. Two fewer requests and a decrease of 402 MW from August 31, 2015.
- 14,192 MW wind capacity in commercial operations on September 30, 2015.

# Daily Peak Demand: Hourly Average Actual vs. Forecast, Wind Day-Ahead COPs & On-line Capacity at Peak – September 2015



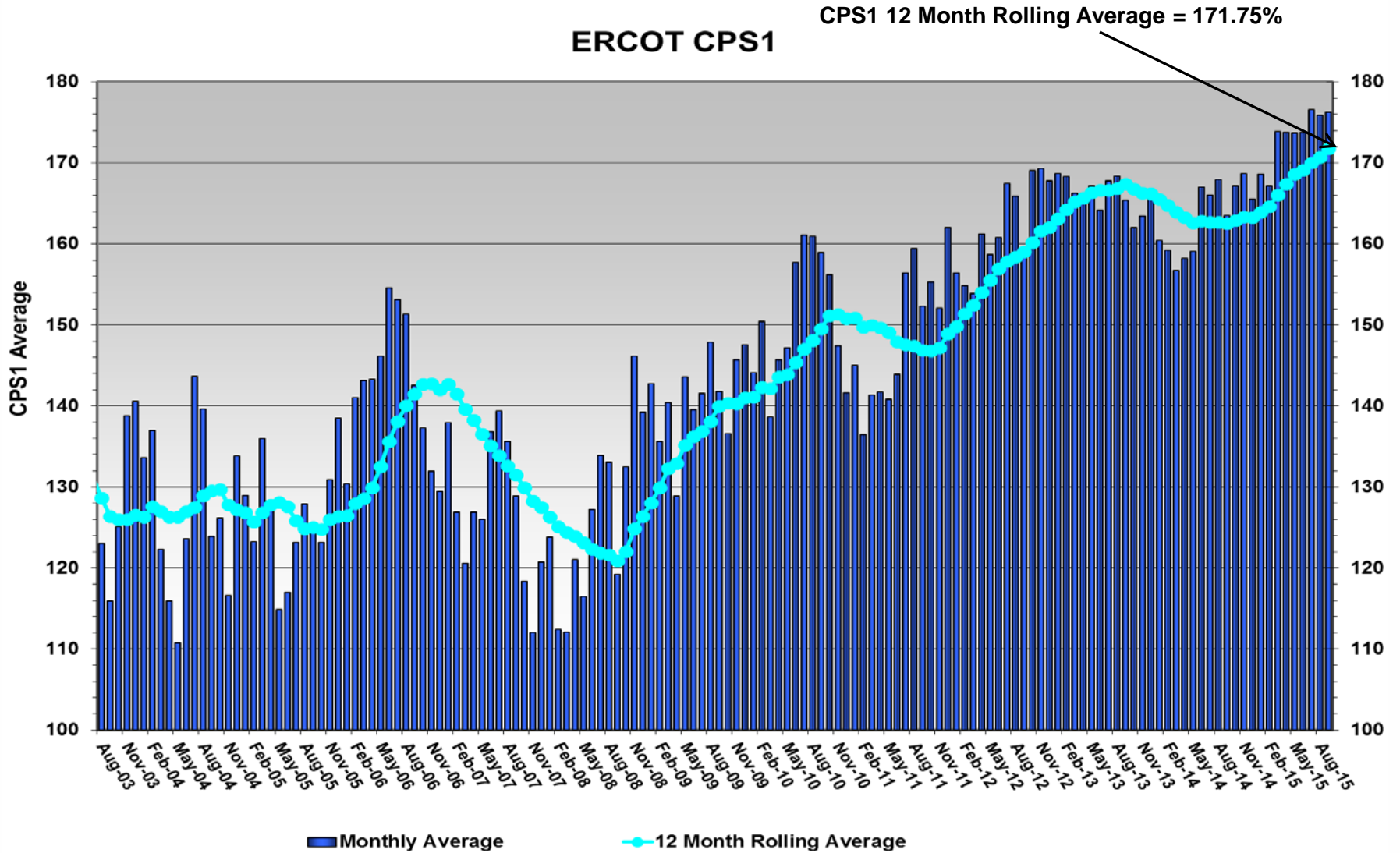
# Actual Wind Output plus Curtailments vs. Wind Day-Ahead COPs for All Hours – September 2015



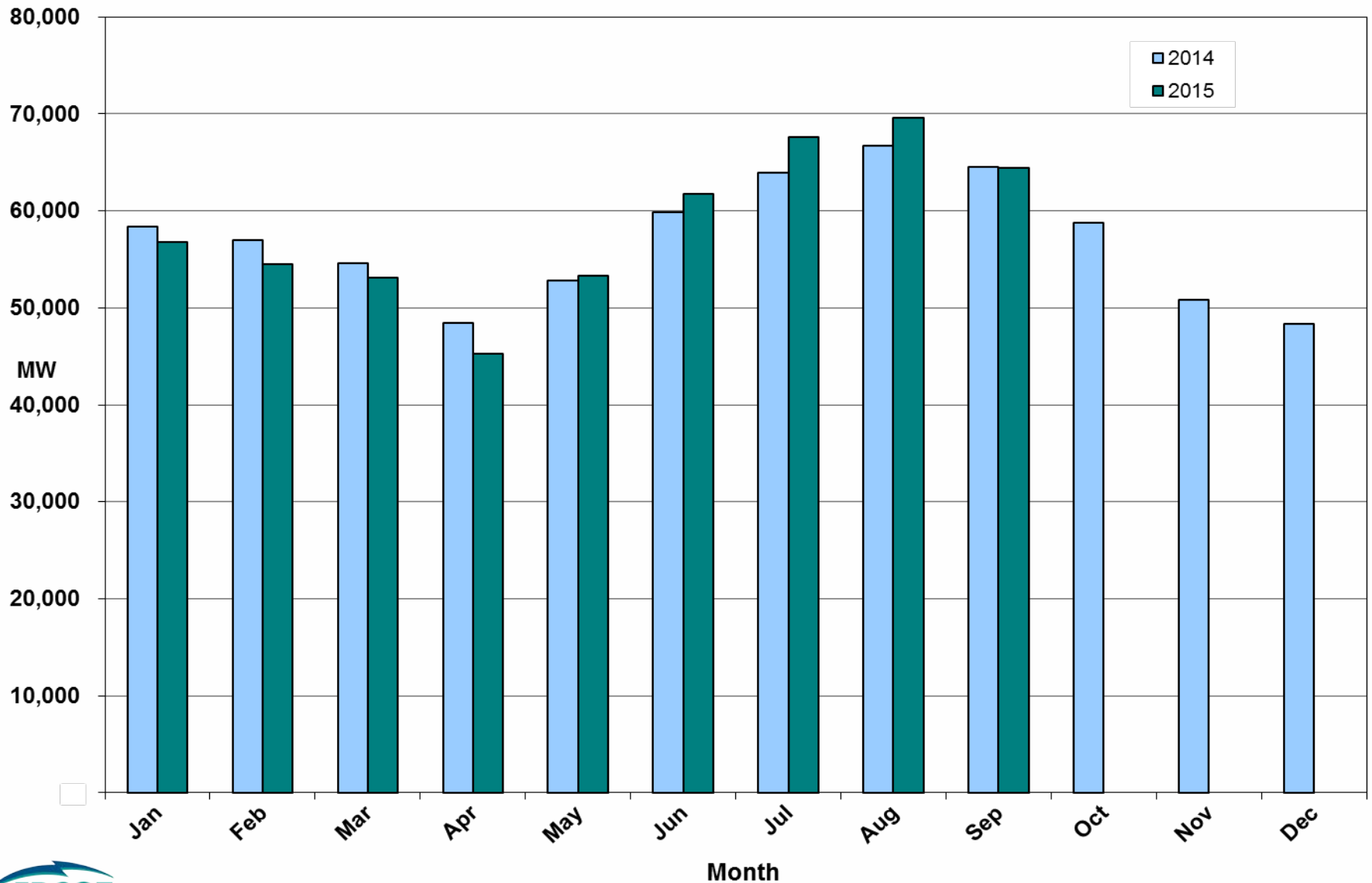
**Note: QSEs must use the AWST 50% probability of exceedance forecast as the HSL in their COPs**



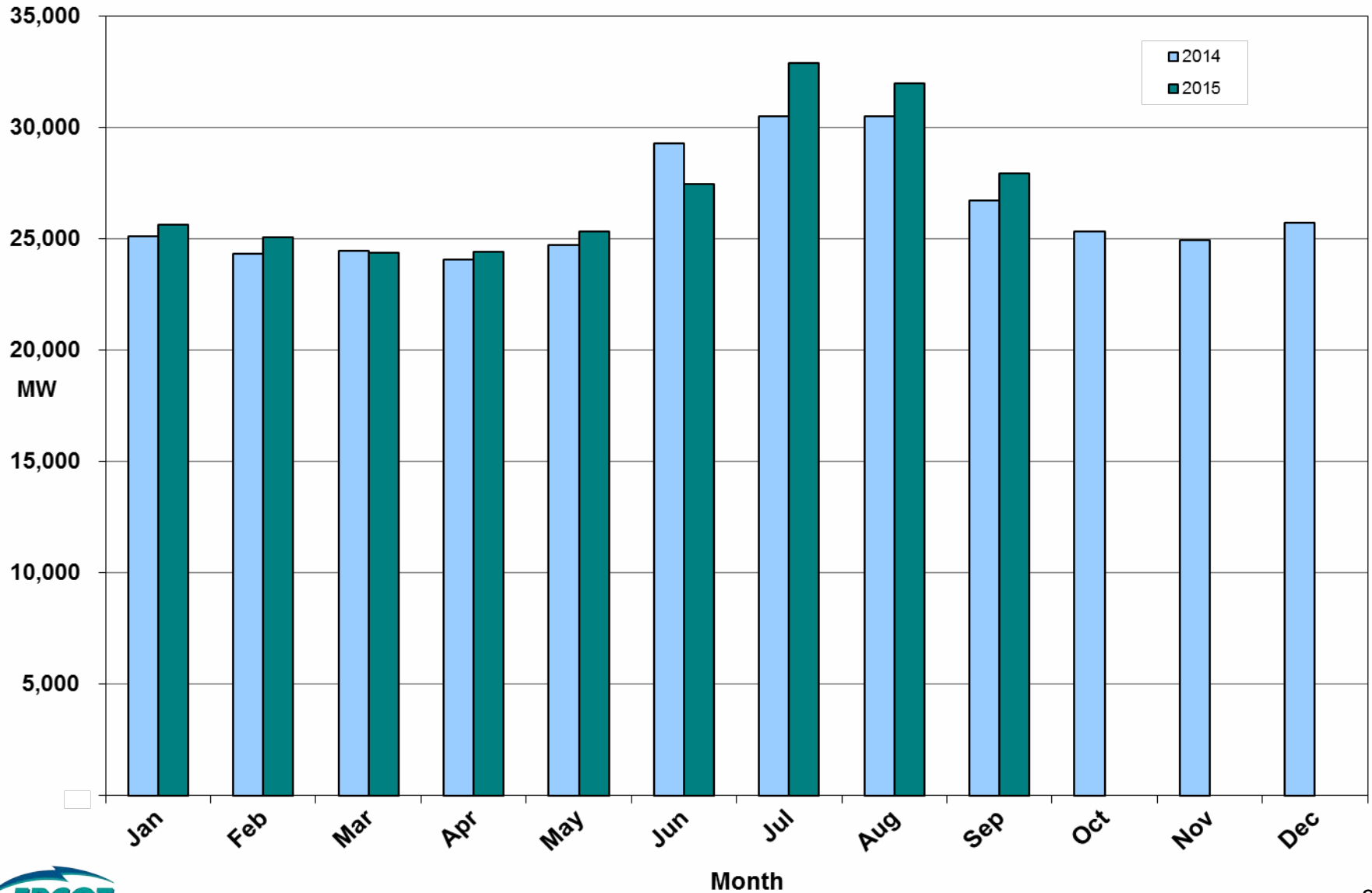
# ERCOT's CPS1 Monthly Performance – September 2015



# Monthly Peak Actual Demand – September 2015



# Monthly Minimum Actual Demand – September 2015





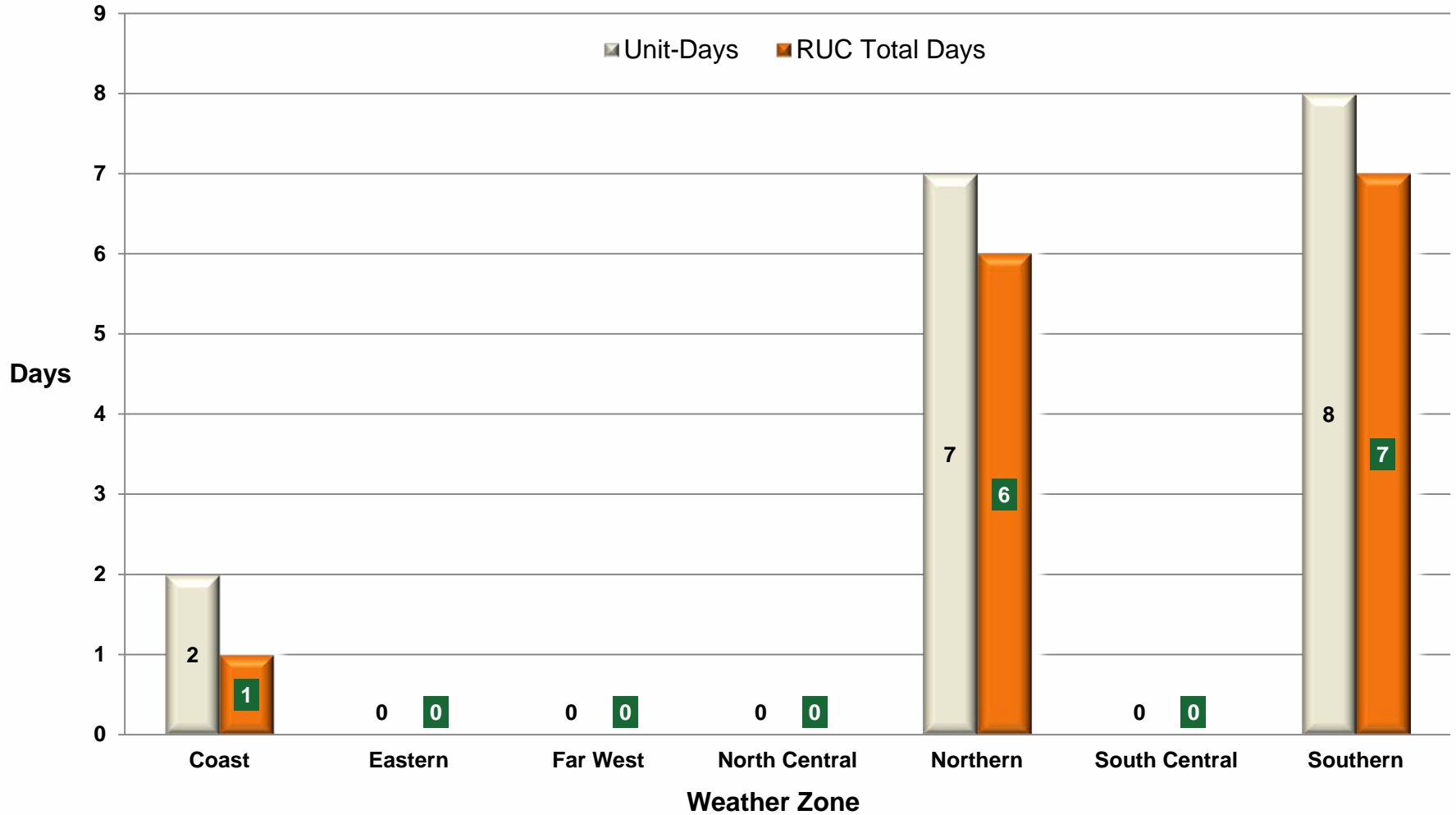
## Day-Ahead Load Forecast Performance – September 2015

Mean Absolute Percent Error (MAPE) for ERCOT Mid-Term Load Forecast (MTLF)  
Run at 14:00 Day Ahead

	2012 MAPE	2013 MAPE	2014 MAPE	2015 MAPE	September 2015 MAPE	
Average Annual MAPE	3.02	2.86	2.83	2.91	2.32	
Lowest Monthly MAPE	2.51	2.07	2.15	1.89	Lowest Daily MAPE	1.14 Sep – 18
Highest Monthly MAPE	3.49	3.50	3.70	3.81	Highest Daily MAPE	4.85 Sep – 13

# Reliability Unit Commitment (RUC) Capacity by Weather Zone – Sep. 2015

## RUC Commitments by Weather Zone



## Generic Transmission Constraints (GTCs) – September 2015

GTCs	Sept 14 Days GTCs	July 15 Days GTCs	Aug 15 Days GTCs	Sept 15 Days GTCs	Last 12 Months Total Days (Oct 14 – Sep 15)
North – Houston	0	1	0	0	3
Valley Import	0	0	0	0	4
Zorillo - Ajo	-	13	11	4	76
Panhandle	-	0	0	0	0
Laredo	-	-	-	2	2

**GTC:** A transmission flow limit more constraining than a Transmission Element’s normal limit established to constrain flow between geographic areas of the ERCOT Transmission System that is used to enforce stability and voltage constraints that cannot be modeled directly in ERCOT’s transmission security analysis applications.

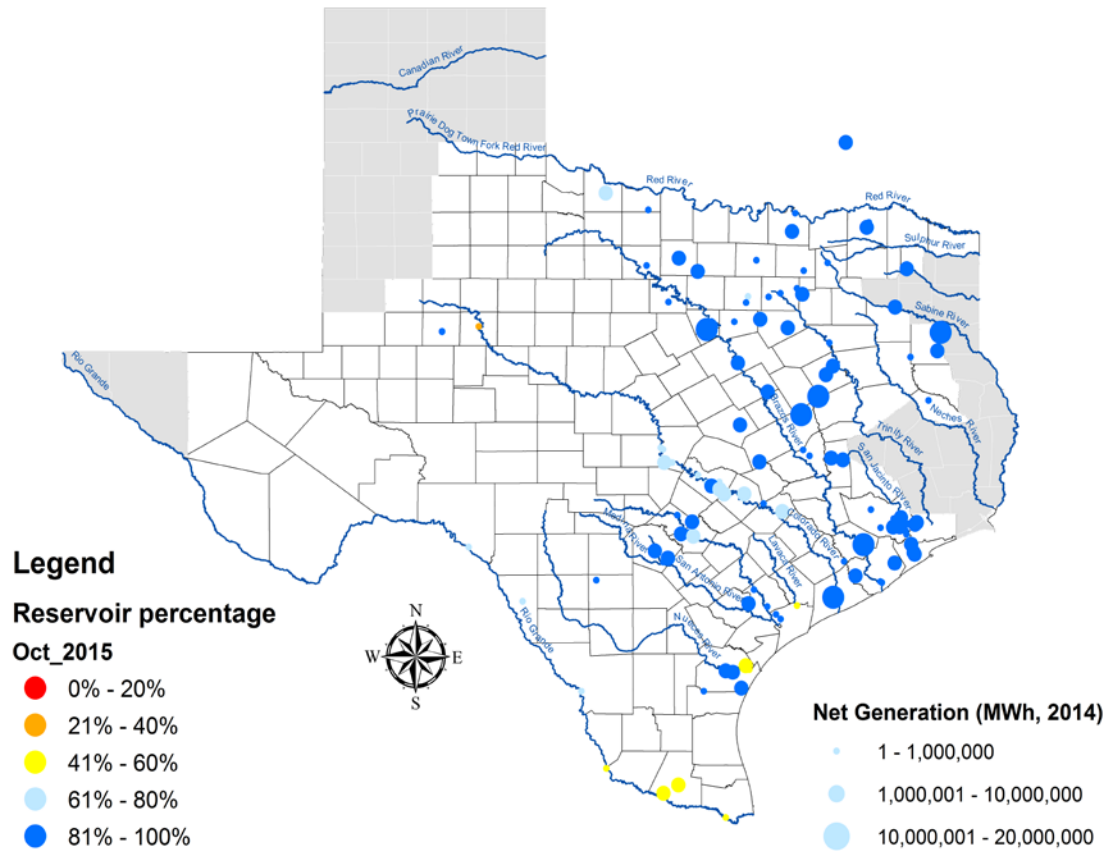
**Note:** This table lists how many times a constraint has been activated to avoid exceeding a GTC limit, it does not imply an exceedance of the GTC occurred.

## Advisories and Watches – September 2015

---

- Three Operational Information notices issued due to a GMD warning of K-7
  - Issued on 9/7, 9/11, 9/20
- Two advisories due to GMD alerts of K-7
  - Issued on 9/11, 9/20
- One OCN due to the development of a new Generic Transmission Constraint (GTC) due to a local voltage stability issue
  - Issued on 9/9
- One OCN due to a delay in the posting of MIS reports
  - Issued on 9/21

# Lake Levels Update – October 1, 2015



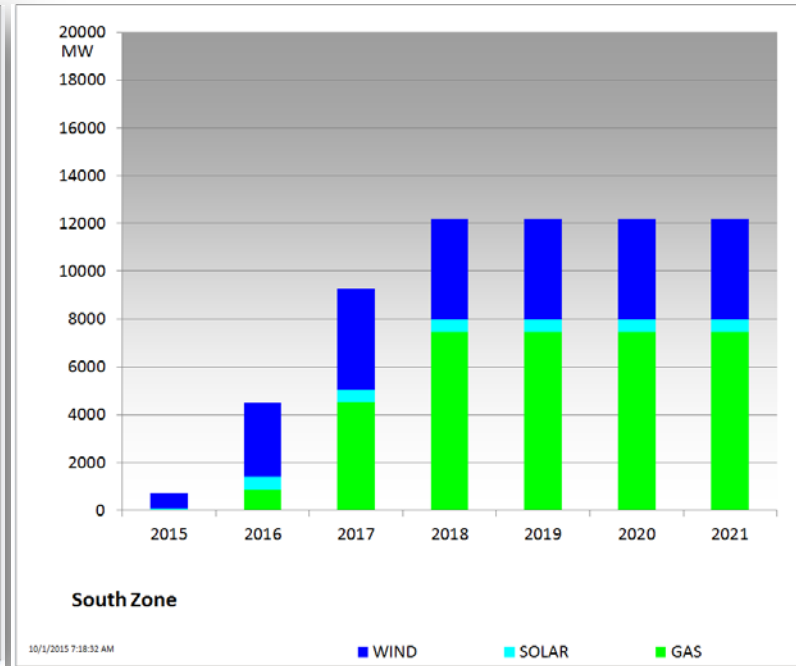
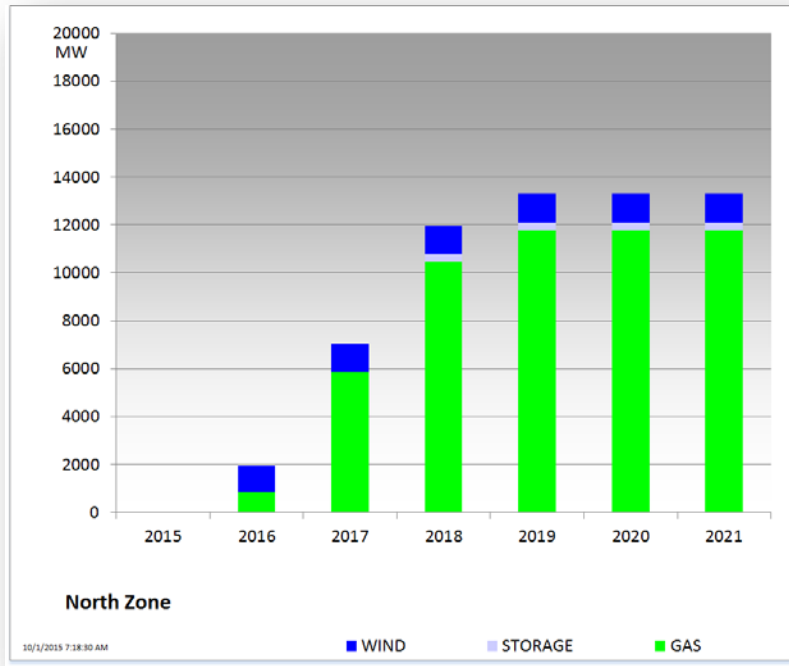
## Planning Summary – September 2015

---

- ERCOT is currently tracking 267 active generation interconnection requests totaling 62,993 MW. This includes 24,648 MW of wind generation.
- ERCOT is currently reviewing proposed transmission improvements with a total cost of more than \$1.1 Billion.
- Transmission Projects endorsed in 2015 total \$319.8 Million.
- All projects (in engineering, routing, licensing, and construction) total approximately \$6.66 Billion.
- Transmission Projects energized in 2015 total about \$429.7 Million.

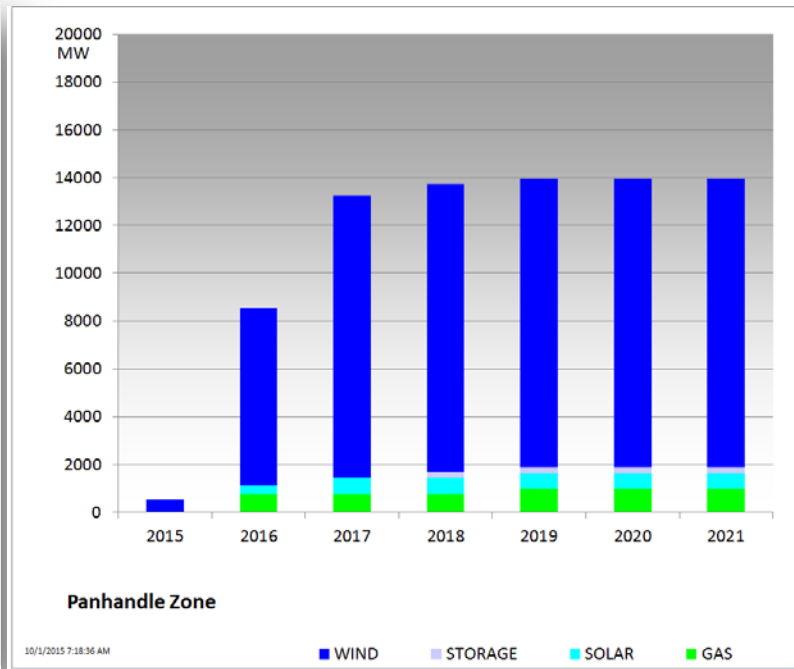
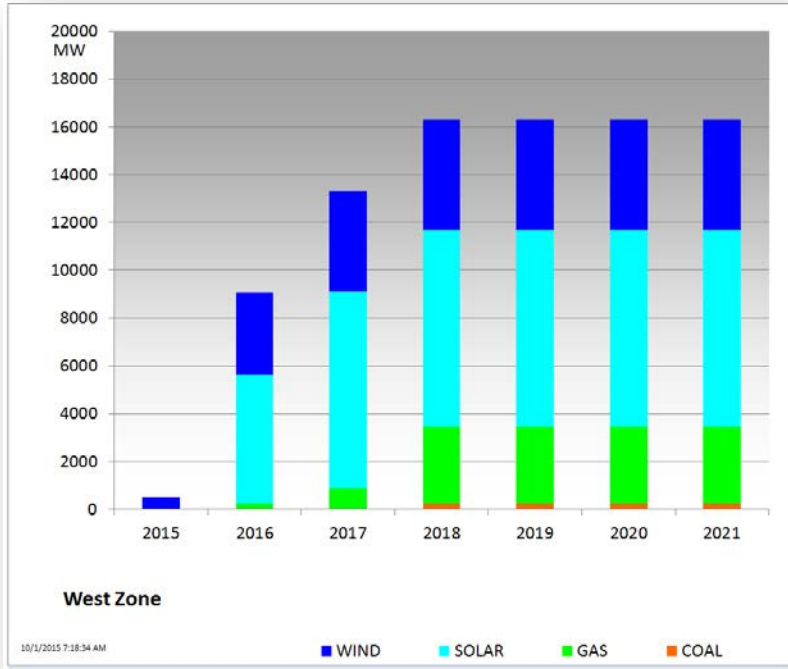


# Cumulative MW Capacity of Interconnection Requests by Zone – September 2015

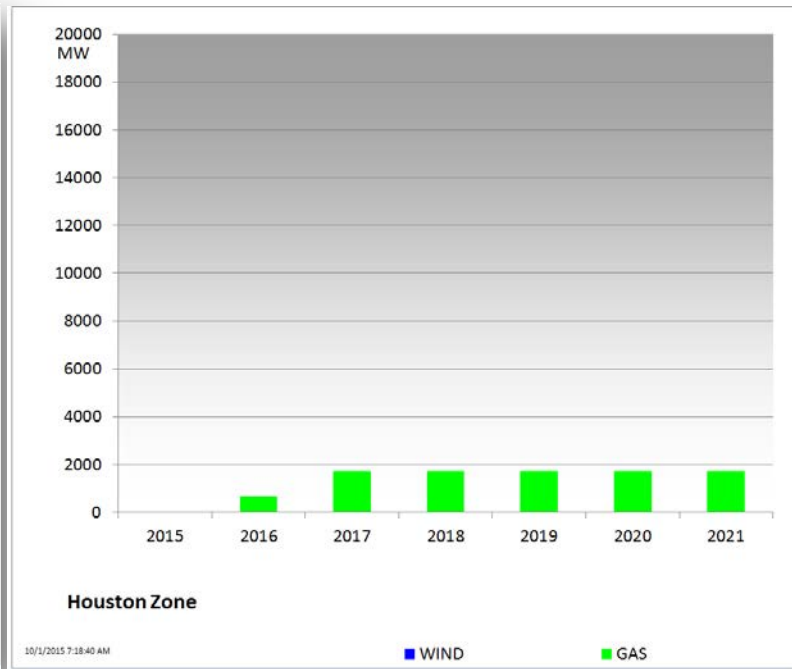
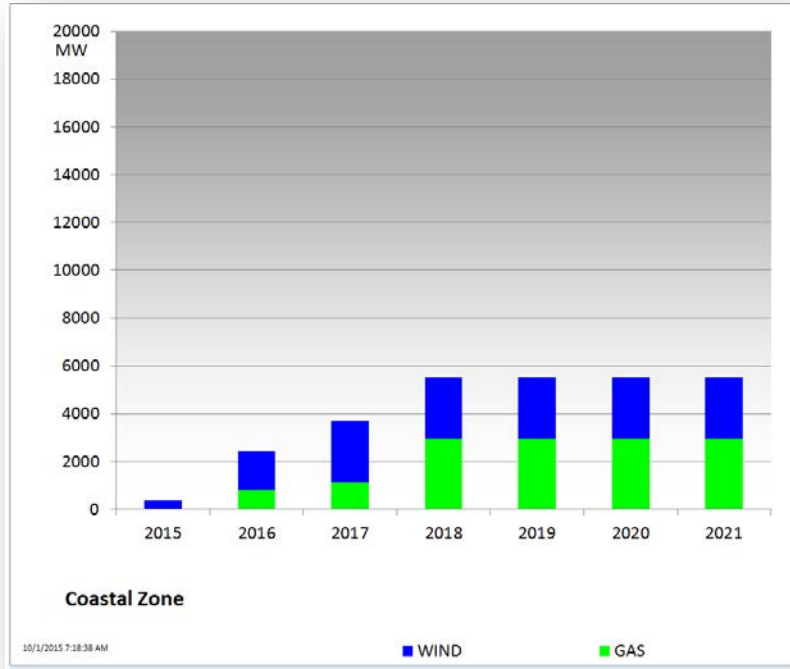




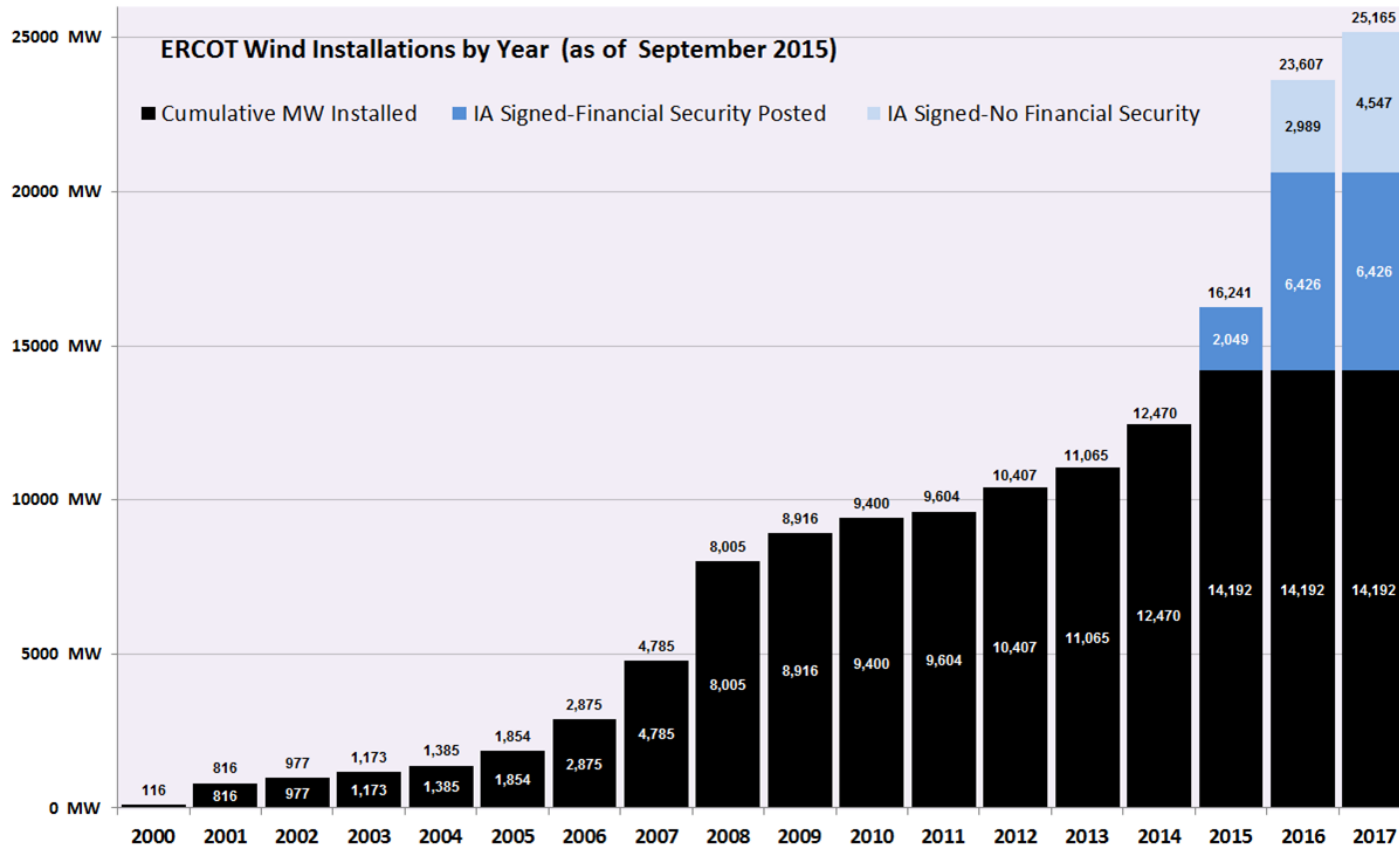
# Cumulative MW Capacity of Interconnection Requests by Zone – September 2015



# Cumulative MW Capacity of Interconnection Requests by Zone – September 2015



# Wind Generation – September 2015

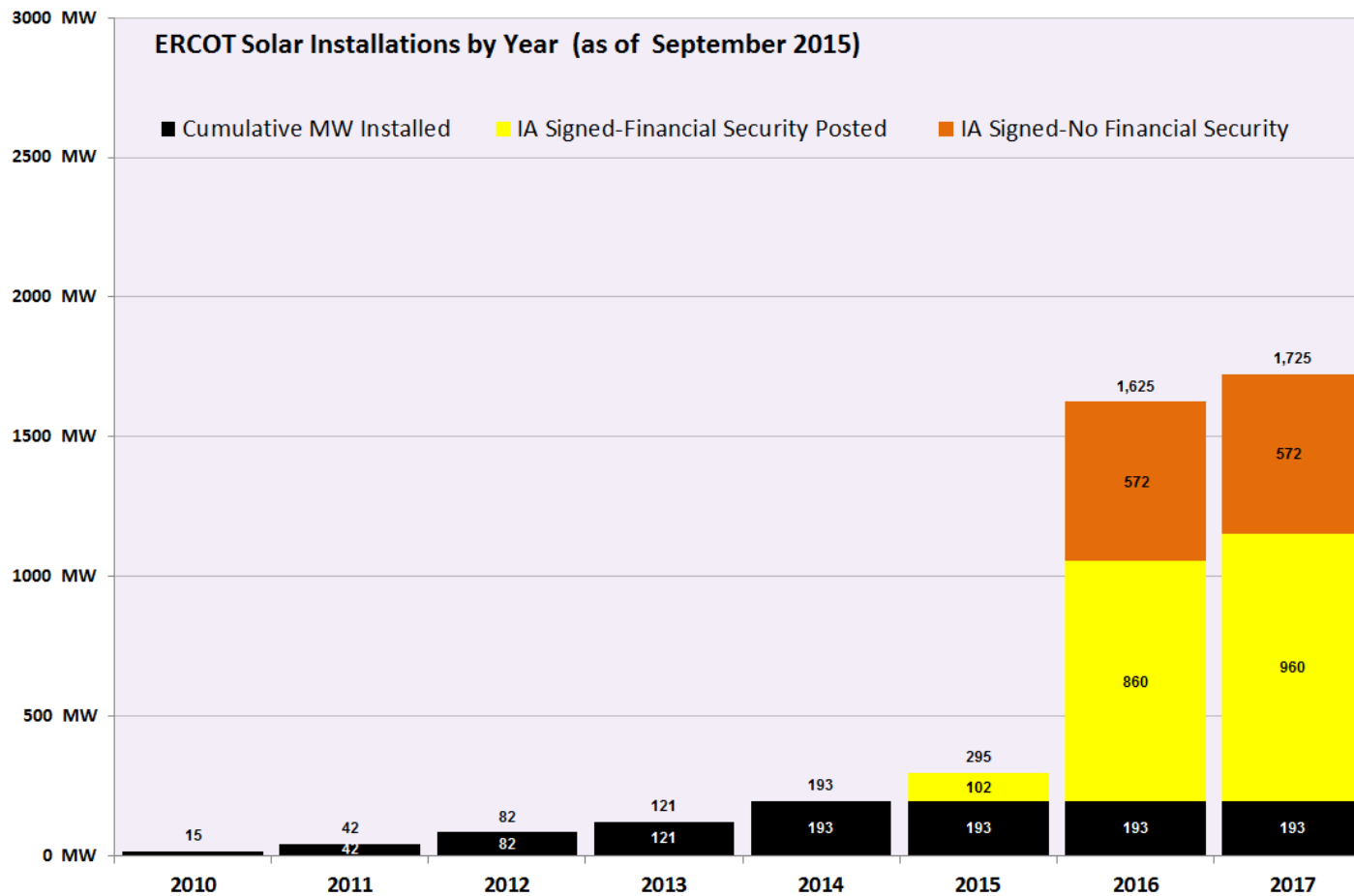


The data presented here is based upon the latest registration data provided to ERCOT by the resource owners and can change without notice. Any capacity changes will be reflected in current and subsequent years' totals. Scheduling delays will also be reflected in the planned projects as that information is received. This chart reflects planned units in the calendar year of submission rather than installations by peak of year shown.

Financial security posted for funding interconnection facilities does not include CREZ security deposits, which are refunded to the Interconnecting Entity when an IA is signed.



# Solar Generation – September 2015



The data presented here is based upon the latest registration data provided to ERCOT by the resource owners and can change without notice. Any capacity changes will be reflected in current and subsequent years' totals. Scheduling delays will also be reflected in the planned projects as that information is received. This chart reflects planned units in the calendar year of submission rather than installations by peak of year shown.

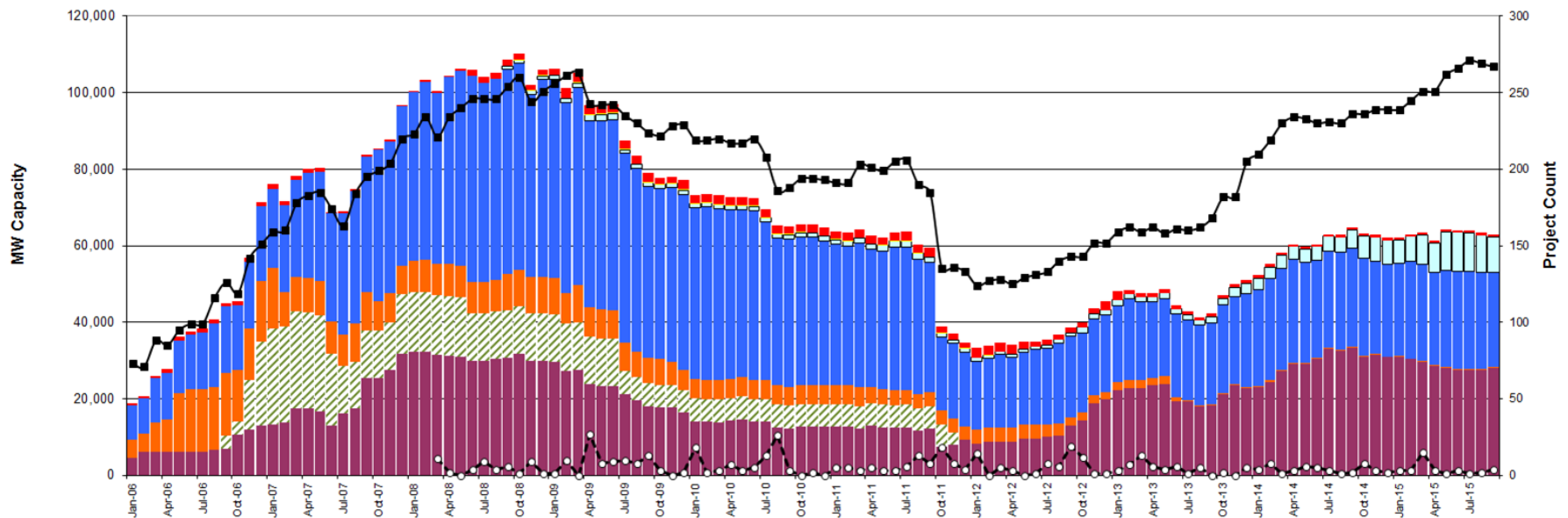


# Generation Interconnection Activity by Fuel – September 2015

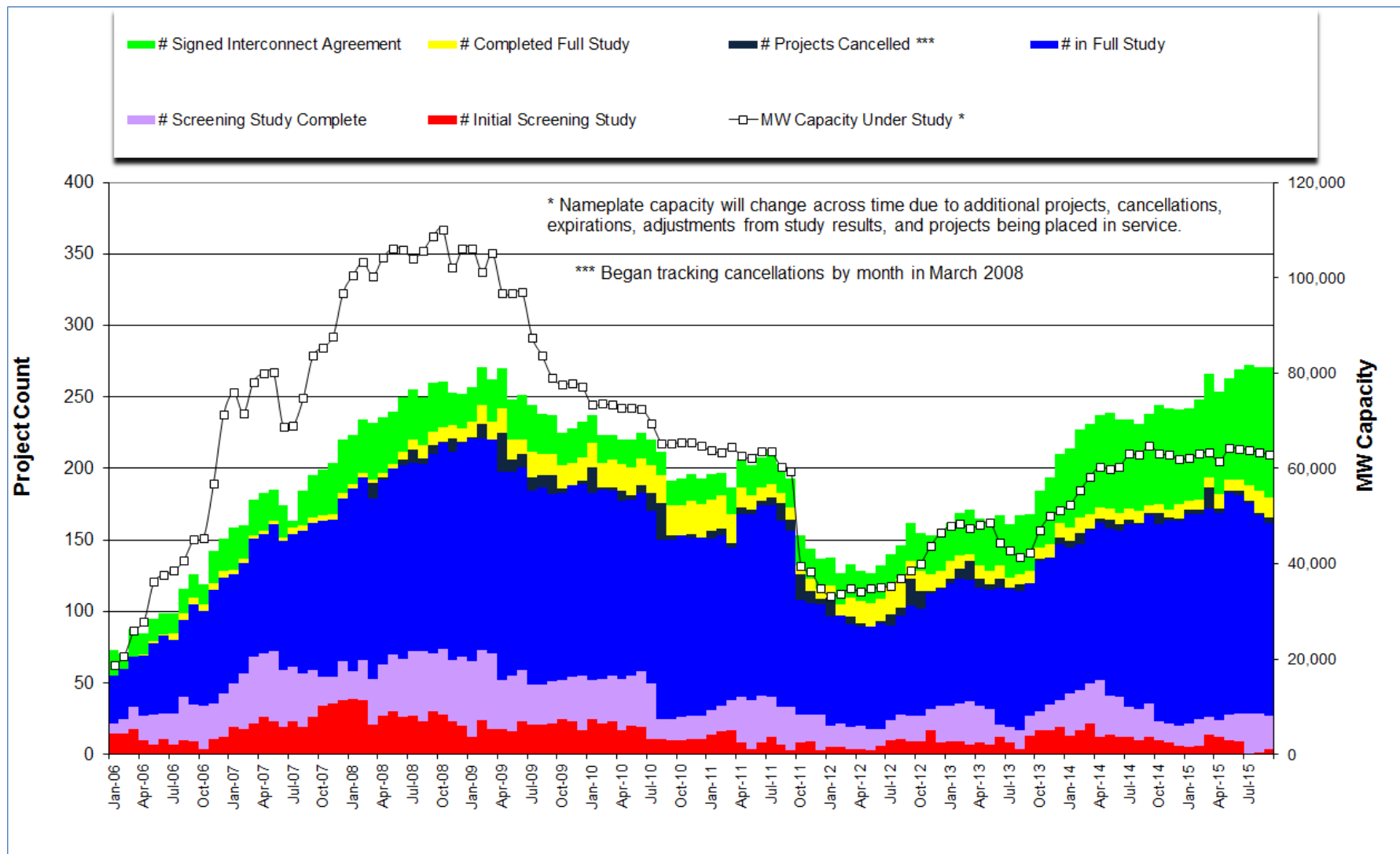


\*Prior to September 2008, Category "Other" included "Solar" and "Biomass"

Projects in all phases of interconnection study are reflected in this graph  
 Project cancellation tracking by month began in March 2008



# Generation Interconnection Activity by Project Phase – September 2015

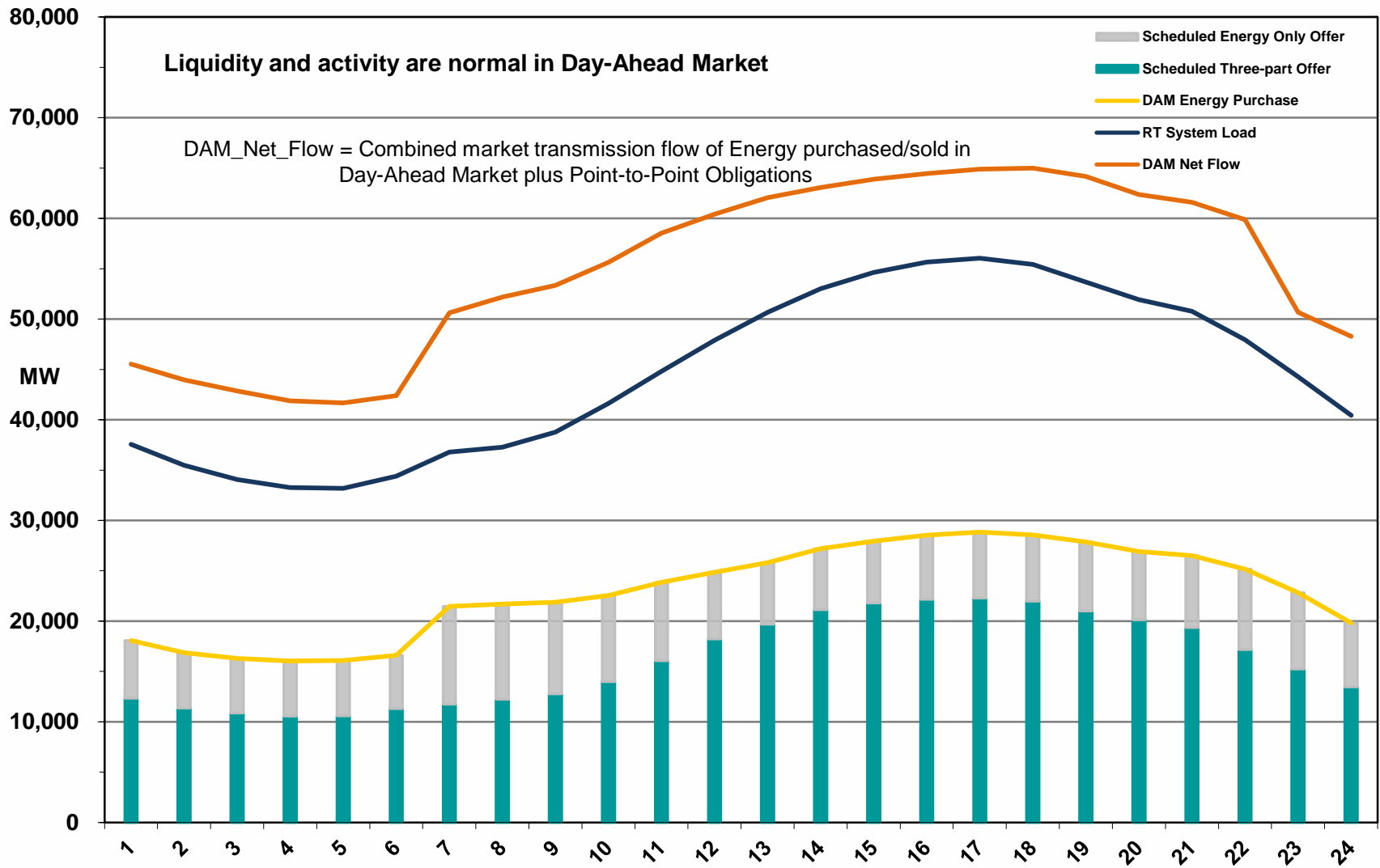


---

# **Market Operations**

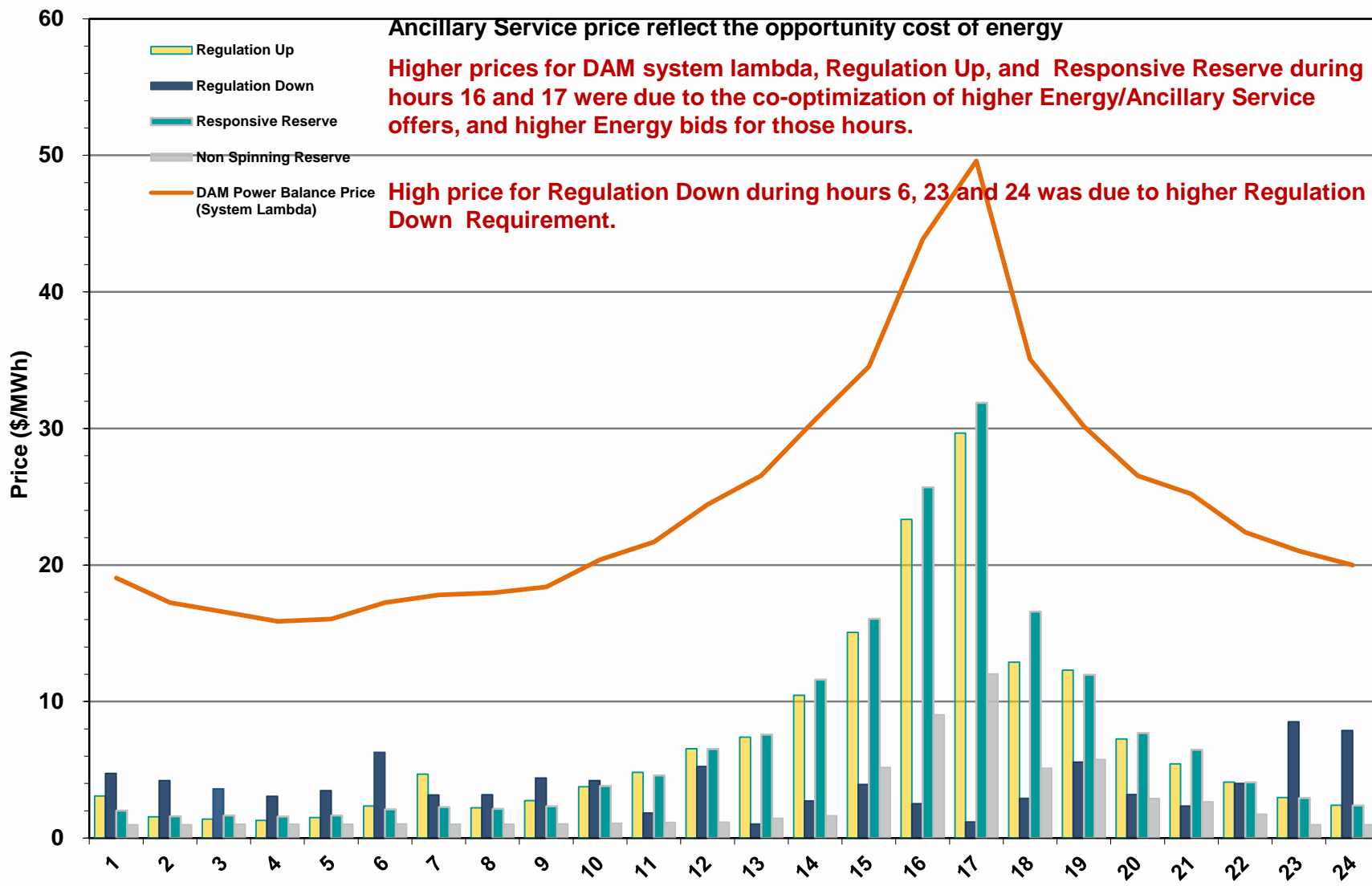
---

# Day-Ahead Schedule (Hourly Average) – September 2015

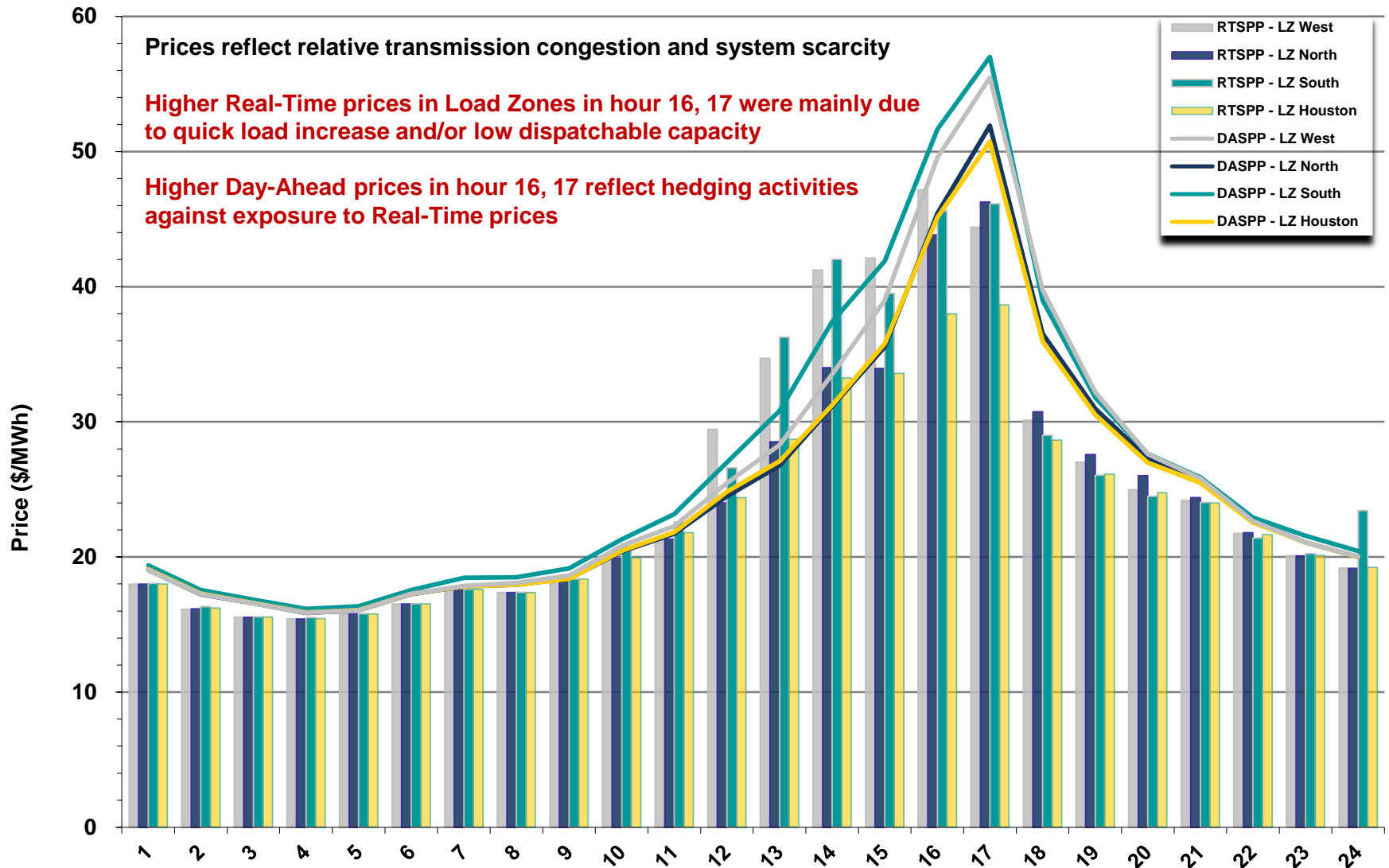




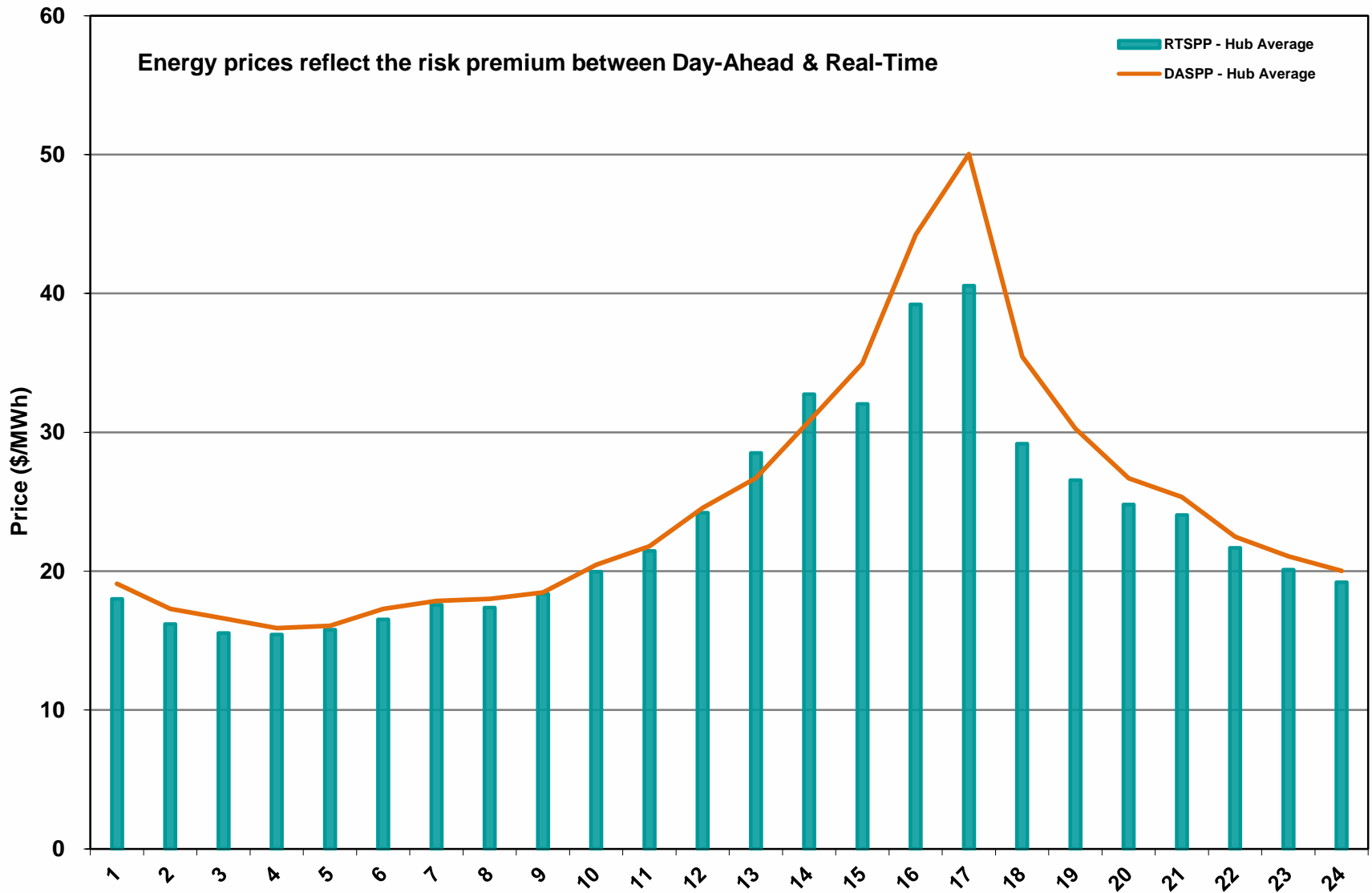
# Day-Ahead Electricity And Ancillary Service Hourly Average Prices – Sep. 2015



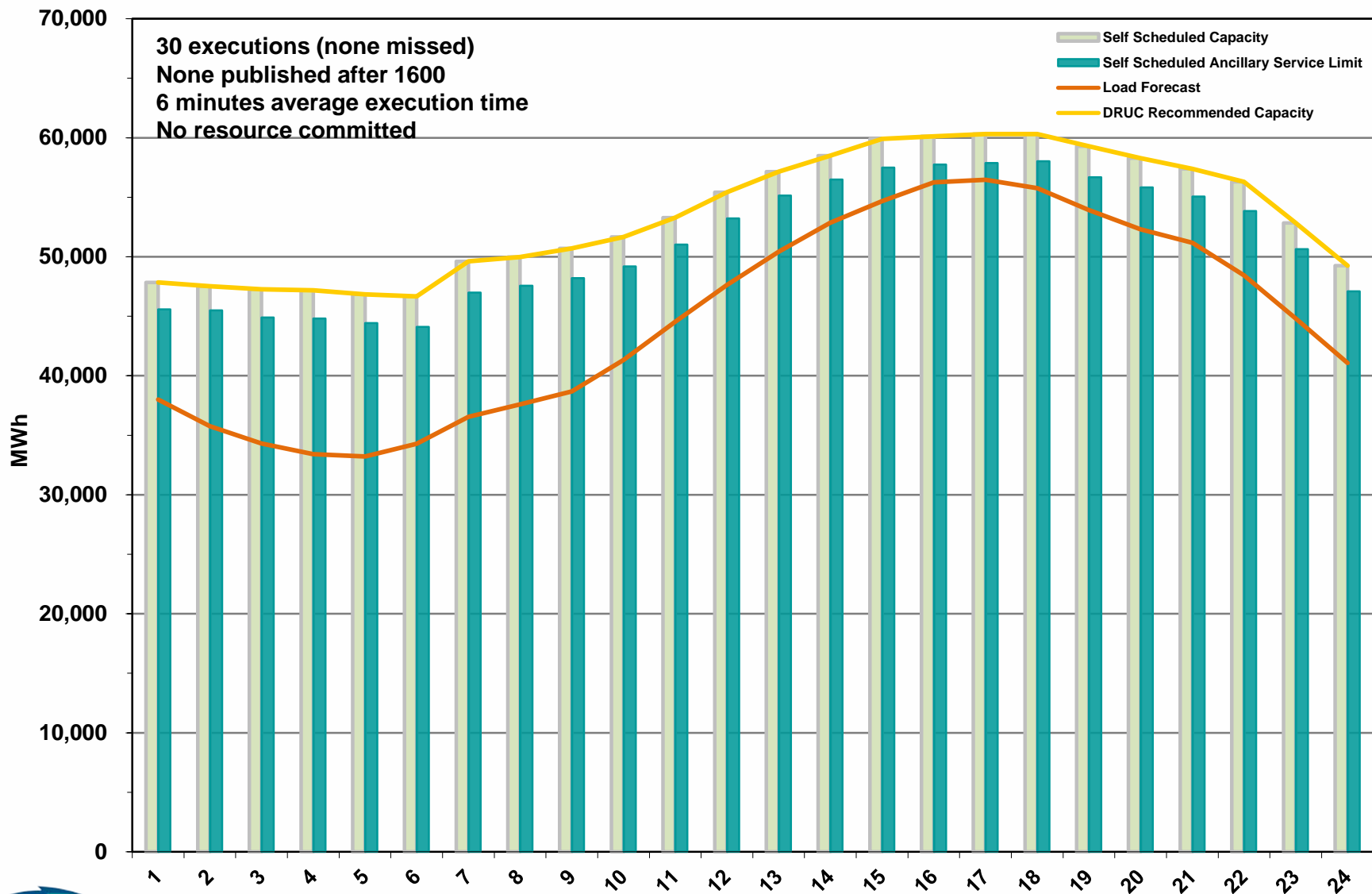
# Day-Ahead Vs Real-Time Load Zone SPP (Hourly Average) – September 2015



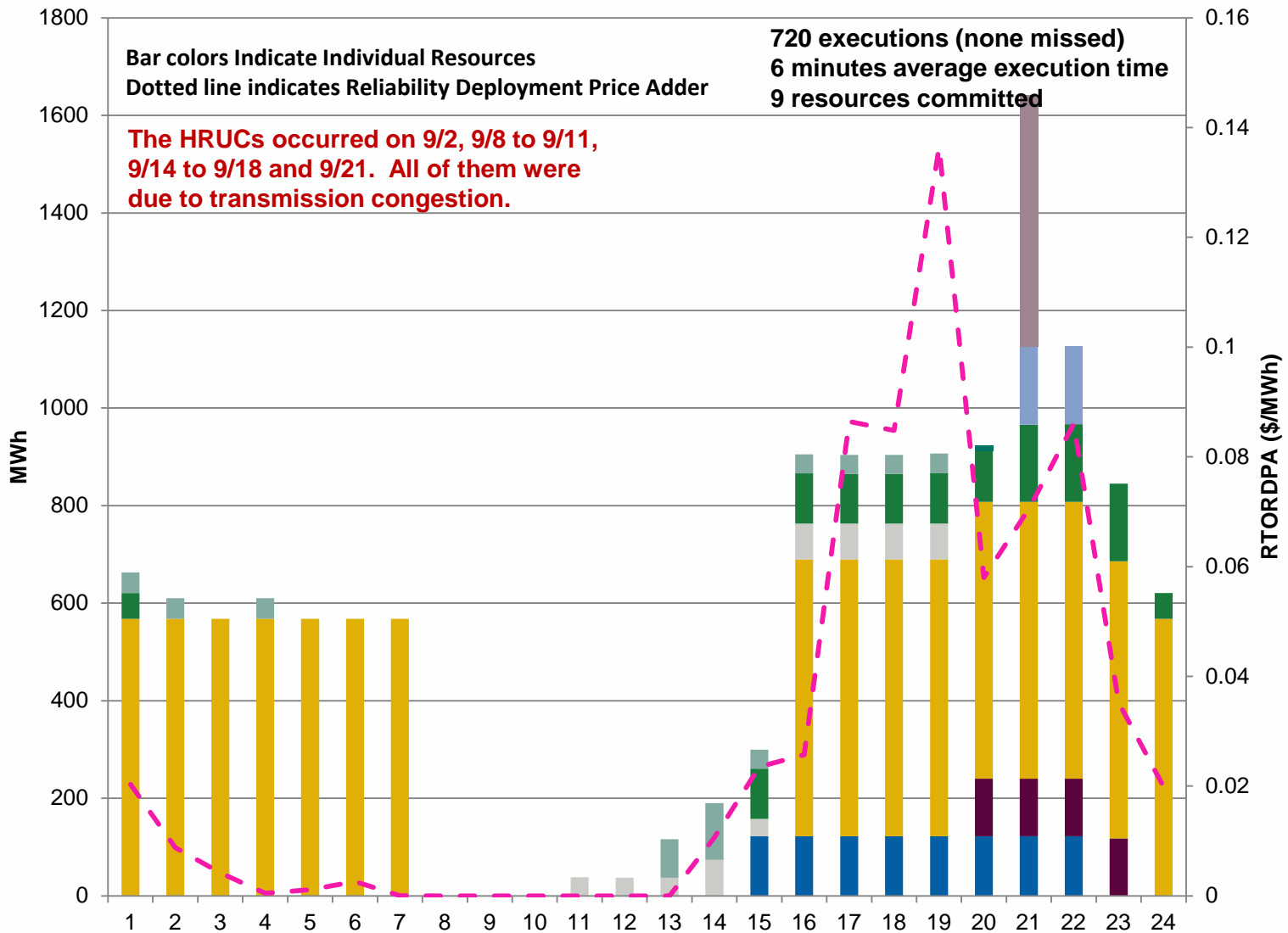
# Day-Ahead Vs Real-Time Hub Average SPP (Hourly Average) – September 2015



# DRUC Monthly Summary (Hourly Average) – September 2015



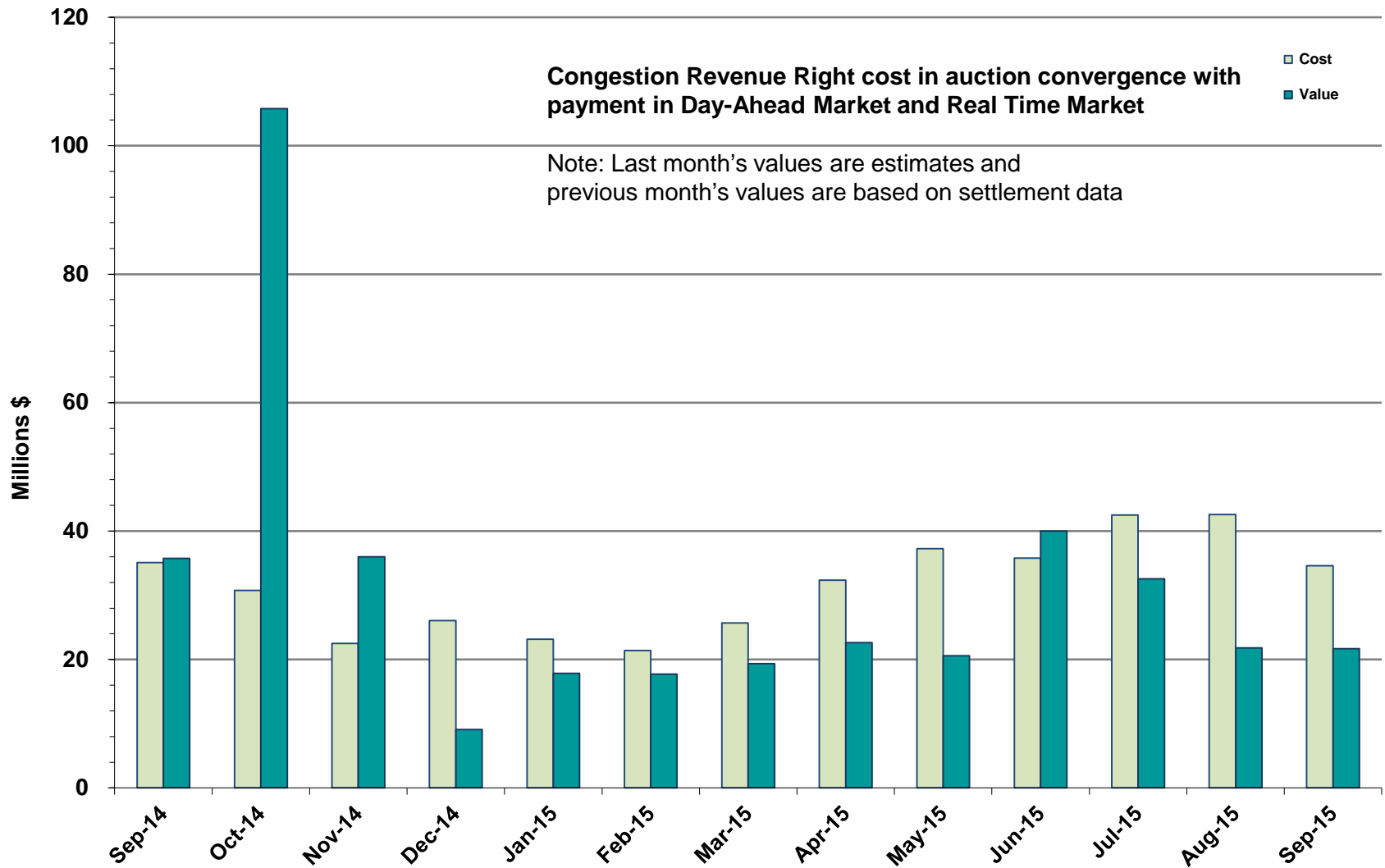
# HRUC Monthly Summary and Real Time On-Line Reliability Deployment Price Adder (RTORDPA) – September 2015



# Non-Spinning Reserve Service Deployment – September 2015

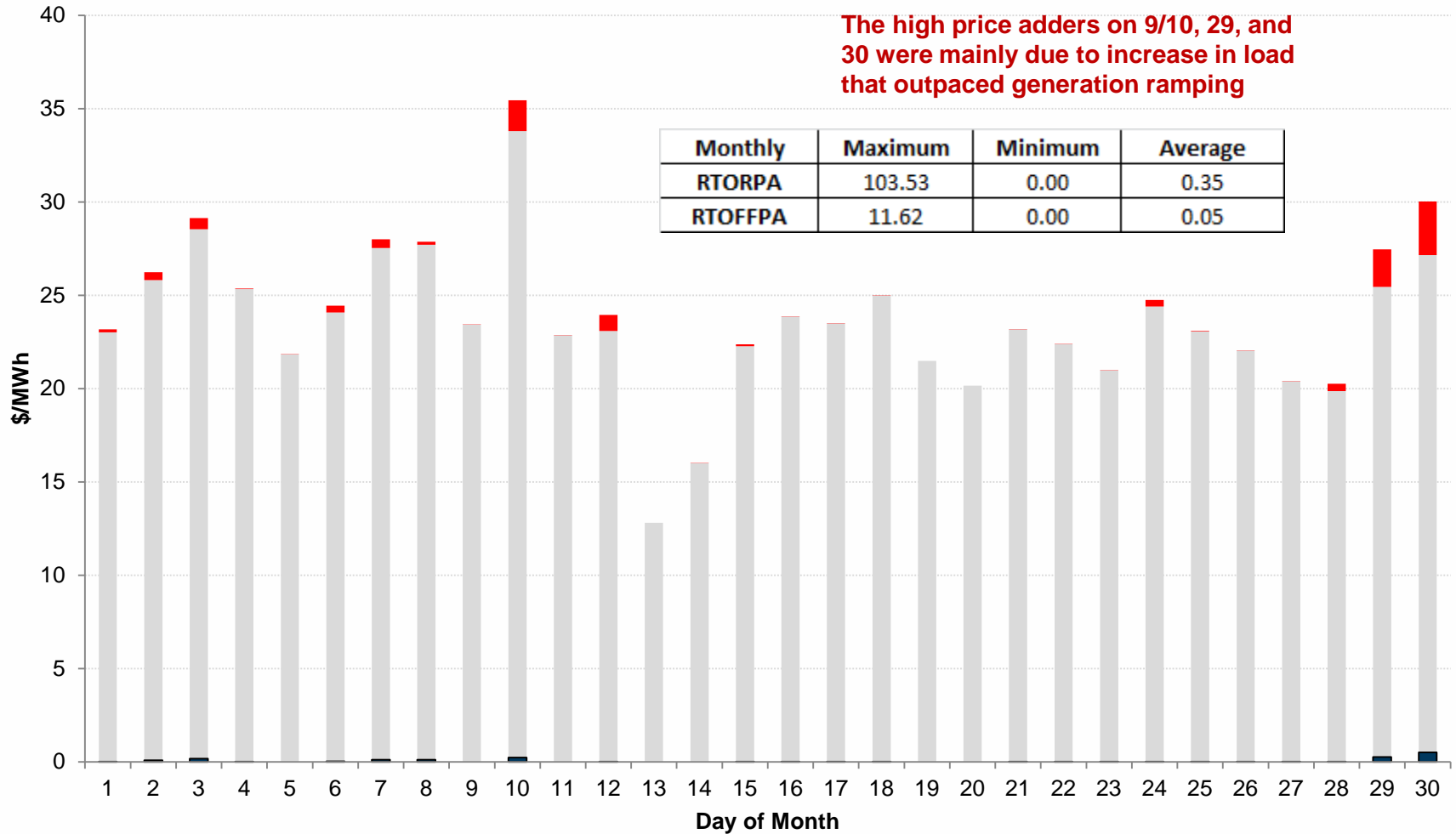
Deployment Start Time	Deployment End Time	Deployment Duration (Hours)	Max Deployment (MW)	Reason
9/3/2015 14:45	9/3/2015 18:30	3.75	50	Local Congestion
9/8/2015 14:23	9/8/2015 17:52	3.48	76	Local Congestion

# CRR Price Convergence – September 2015



# ORDC Price Adder (Daily Average) – September 2015

Average Daily Real-Time System Lambda, Real-Time On-Line Reserve Price Adder (RTORPA), and Real-Time Offline Reserve Price Adder (RTOFFPA) - September 2015





# ERS Procurement for **October 2015 – January 2016**

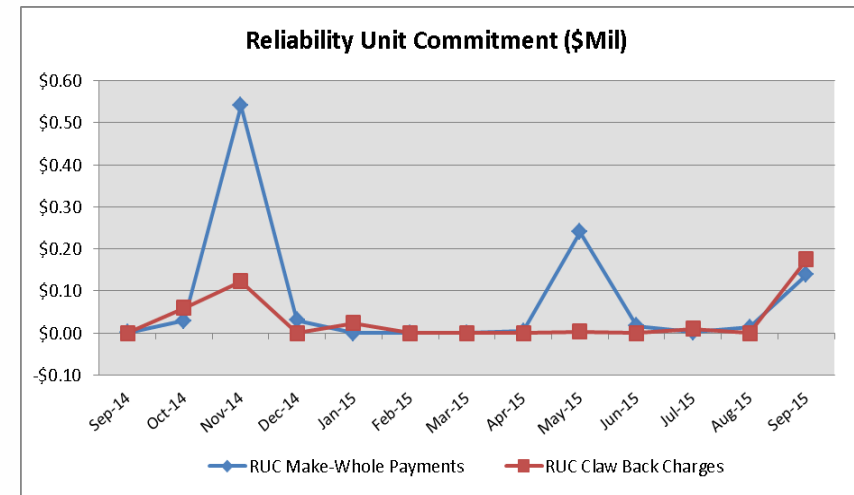
	<b>BH1</b>	<b>BH2</b>	<b>BH3</b>	<b>NBH</b>
Non Weather-Sensitive ERS-10 MW	<b>372.082</b>	<b>416.611</b>	<b>390.329</b>	<b>349.300</b>
Non Weather-Sensitive ERS-30 MW	<b>546.023</b>	<b>563.297</b>	<b>550.152</b>	<b>433.297</b>
Total MW Procured	<b>918.105</b>	<b>979.908</b>	<b>940.481</b>	<b>782.597</b>
Clearing Price	<b>\$14.46</b>	<b>\$2.59</b>	<b>\$14.00</b>	<b>\$3.21</b>

BH1 - Business Hours 1  
BH2 - Business Hours 2  
BH3 - Business Hours 3  
NBH - Non-Business Hours

HE 0900 through 1300, Monday thru Friday except ERCOT Holidays  
HE 1400 through 1600, Monday thru Friday except ERCOT Holidays  
HE 1700 through 2000, Monday thru Friday except ERCOT Holidays  
All other hours

# Reliability Services – September 2015

Reliability Unit Commitment (RUC)	\$ in Millions
RUC Make-Whole Payments	(\$0.14)
RUC Clawback Charges	\$0.17
<b>RUC Commitment Settlement</b>	<b>\$0.03</b>
RUC Capacity Short Charges	\$0.14
RUC Make-Whole Uplift	\$0.00
<b>RUC Commitment Cost Allocation</b>	<b>\$0.14</b>
RUC Decommitment Payments	\$0.00



RUC Make-Whole Payments were \$0.14M in September 2015.  
RUC Clawback Charges were \$0.17M.

There was \$0.17M allocated directly to load in September 2015, compared to:

- \$0.00M in August 2015
- \$0.00M in September 2014

# Capacity Services – September 2015

Capacity Services	\$ in Millions
Regulation Up Service	\$2.28
Regulation Down Service	\$1.41
Responsive Reserve Service	\$11.96
Non-Spinning Reserve Service	\$2.90
Black Start Service	\$0.61
Voltage Services - Reactive Power	\$0.00
Voltage Services - Lost Opportunity	\$0.00
<b>Total Charges</b>	<b>\$19.16</b>

Capacity Services costs decreased from last month and from September 2014.

September 2015 cost was \$19.16M, compared to:

- A charge of \$89.70M in August 2015
- A charge of \$26.35M in September 2014

# Energy Settlement – September 2015

Day-Ahead Market Energy Settlement	\$ in Millions
Energy Purchases	\$439.78
Point to Point Obligation Purchases	\$20.45
RMR Day-Ahead Revenue	\$0.00
Energy Sales	(\$435.16)
Day-Ahead Congestion Rent	\$25.06
Day-Ahead Market Make-Whole Payments	(\$0.09)

Day-Ahead Market and Real-Time Market energy settlement activity decreased from last month and from September 2014.

Real-Time Market Energy Settlement	\$ in Millions
Energy Imbalance at a Resource Node	(\$455.04)
Energy Imbalance at a Load Zone	\$650.74
Energy Imbalance at a Hub	(\$175.78)
Real Time Congestion from Self Schedules	\$1.53
Block Load Transfers and DC Ties	(\$2.11)
Impact to Revenue Neutrality	\$19.34
Emergency Energy Payments	(\$0.05)
Base Point Deviation Charges	\$0.21
Real-Time Metered Generation (MWh in millions)	32.02

# Congestion Revenue Rights (CRR) – September 2015

	\$ in Millions
Annual Auction	(\$23.73)
Monthly Auction	(\$7.41)
<b>Total Auction Revenue</b>	<b>(\$31.14)</b>
Day-Ahead CRR Settlement	(\$21.67)
Day-Ahead CRR Short-Charges	\$0.03
Day-Ahead CRR Short-Charges Refunded	(\$0.03)
Real-Time CRR Settlement	\$0.00
Real-Time CRR Short-Charges	\$0.00
Real-Time CRR Short-Charges Refunded	\$0.00
<b>Total CRR Funding</b>	<b>(\$21.67)</b>
Day-Ahead Point to Point Obligations Settlement	\$20.45
Real-Time Point to Point Obligation Settlement	(\$24.08)
<b>Net Point to Point Obligation Settlement</b>	<b>(\$3.63)</b>

Congestion Revenue Rights settlement payments were fully funded and excess funds were deposited into the CRR Balancing Account Fund.

Point to Point Obligations settled with a net credit of \$3.63M compared to a net charge of \$1.55M last month.

# CRR Balancing Account Fund – September 2015

<b>CRR Balancing Account Fund</b>	<b>\$ in Millions</b>
<b>Beginning Balance for the Month</b>	\$10.00
<b>CRR Balancing Account Credit Total</b>	\$3.43
<b>CRR PTP Option Award Charges</b>	\$0.05
<b>Day-Ahead CRR Short-Charges Refunded</b>	(\$0.03)
<b>Load Allocated CRR Amount</b>	(\$3.45)
<b>Total Fund Amount</b>	\$10.00

ERCOT implemented the rolling CRR Balancing Account Fund beginning with Operating Month December 2014.

In the month of September 2015, the fund cap remained at \$10M and excess funds of \$3.45M were allocated to Load.

# Revenue Neutrality – September 2015

## Revenue Neutrality Settlement

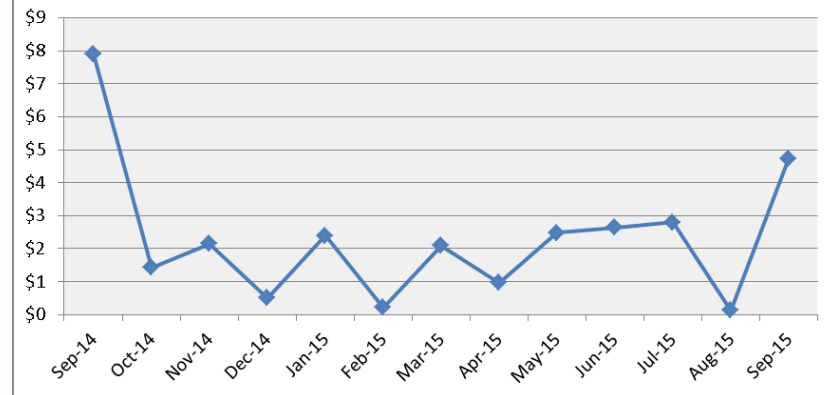
Revenue Neutrality Settlement	\$ in Millions
Real-Time Point to Point Obligation Settlement	(\$24.08)
Real-Time Point to Point Options and Options with Refund Settlement	\$0.00
Real-Time Energy Imbalance Settlement	\$19.92
Real-Time Congestion from Self-Schedules Settlement	\$1.53
DC Tie & Block Load Transfer Settlement	(\$2.11)
<b>Charge to Load</b>	<b>\$4.74</b>

Revenue Neutrality charges to load increased compared to last month and decreased compared to September 2014.

September 2015 was a charge of \$4.74M, compared to:

- \$0.14M charge in August 2015
- \$7.90M charge in September 2014

Revenue Neutrality Uplift (\$Mil)



## Real-Time Ancillary Service Imbalance (ORDC) – September 2015

Real-Time Ancillary Service Imbalance	\$ in Thousands
Real-Time AS Imbalance Payment Amount	(\$250.39)
Load Allocated AS Imbalance Revenue Neutrality Amount	\$250.38
<b>Total Charges</b>	<b>\$250.38</b>

In September 2015, total credits to QSEs with an Ancillary Service Imbalance were \$250,392, while total charges in August 2015 were \$ 879,171.

7 of the 30 days in September had settlement dollars equal to \$0 for the day.

All of the 30 days were settled as a net credit to QSEs with an Ancillary Service Imbalance and as a charge to QSEs representing load.

The highest payment to QSEs with an Ancillary Service Imbalance occurred on September 30<sup>th</sup> in the amount of \$54,886.



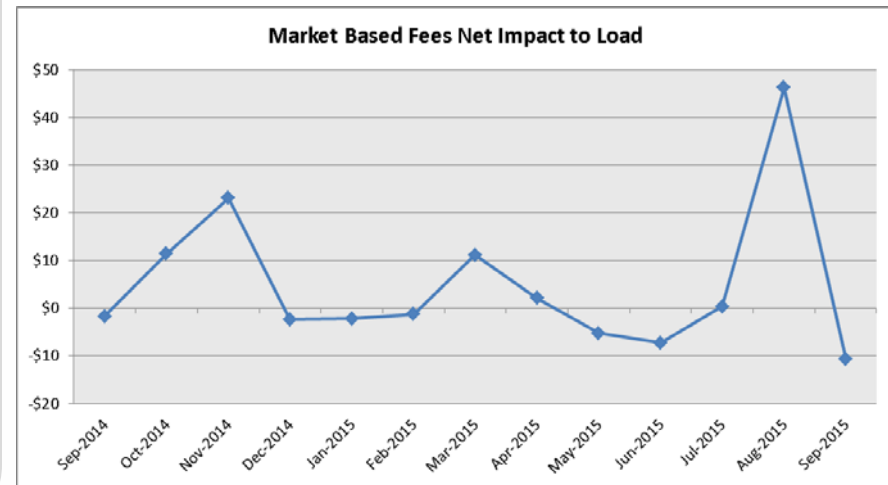
# Net Allocation to Load – September 2015

Market-Based Allocation	\$ in Millions
CRR Auction Revenue Disbursement Settlement	(\$31.14)
Balancing Account Proceeds Settlement	(\$3.45)
Net Reliability Unit Commitment Settlement	(\$0.17)
Ancillary Services Settlement	\$19.16
Reliability Must Run Settlement (incl. RMR for Capacity)	\$0.00
Real-Time Revenue Neutrality Settlement	\$4.74
Emergency Energy Settlement	\$0.05
Base Point Deviation Settlement	(\$0.21)
ORDC Settlement	\$0.25
<b>Total</b>	<b>(\$10.77)</b>
<b>Fee Allocation</b>	
ERCOT Administrative Fee Settlement	\$14.95
<b>Net Allocated to Load</b>	<b>\$4.18</b>

The charge for the net allocation to Load decreased from last month and from September 2014.

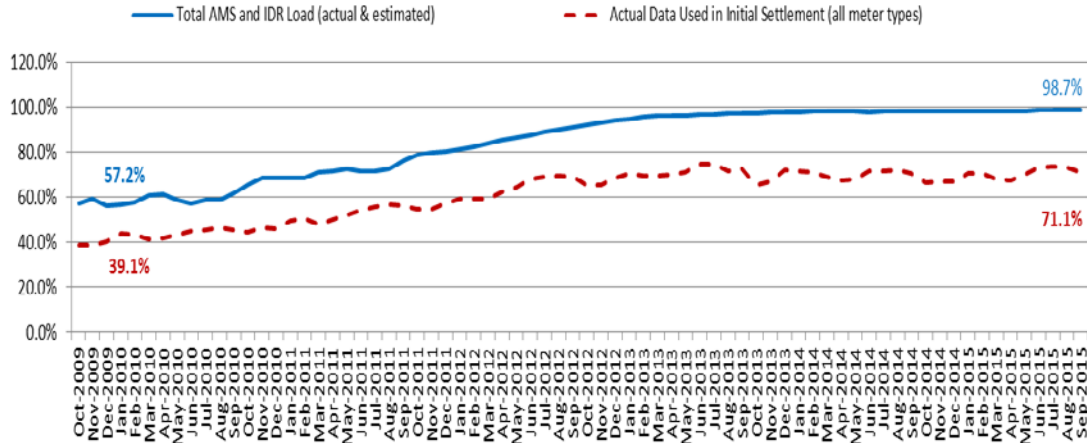
September 2015 was a charge of \$4.18M, compared to:

- A charge of \$63.44M in August 2015
- A charge of \$12.80M in September 2014



# Advanced Meter Settlement Impacts – September 2015

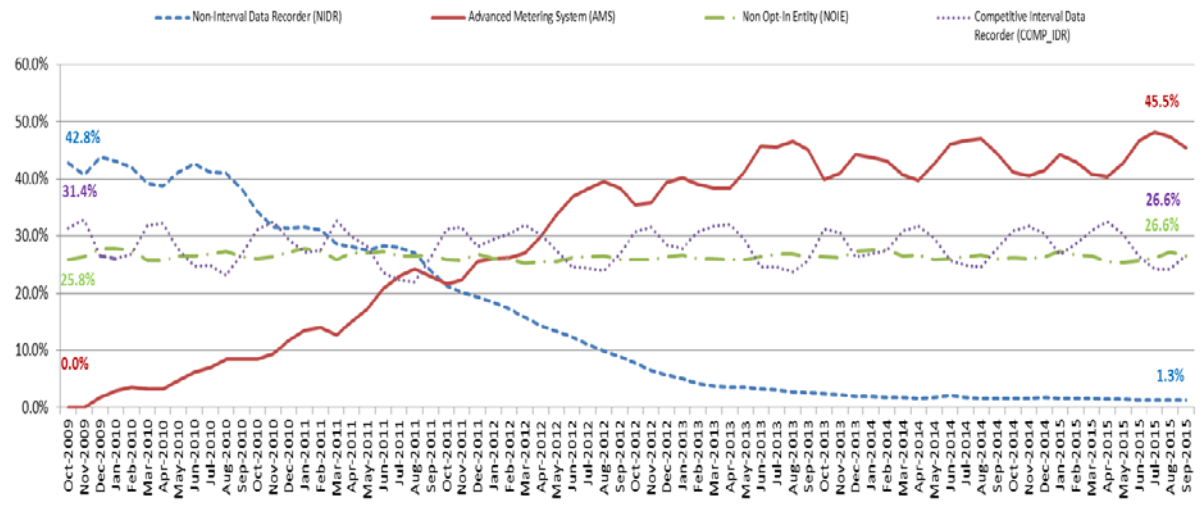
Percent Actual/Percent Interval Data Recorder (IDR)



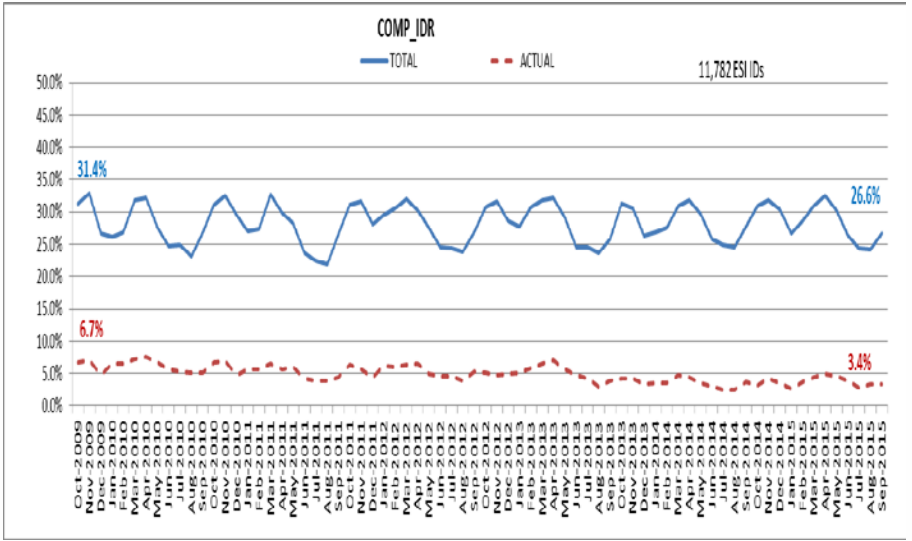
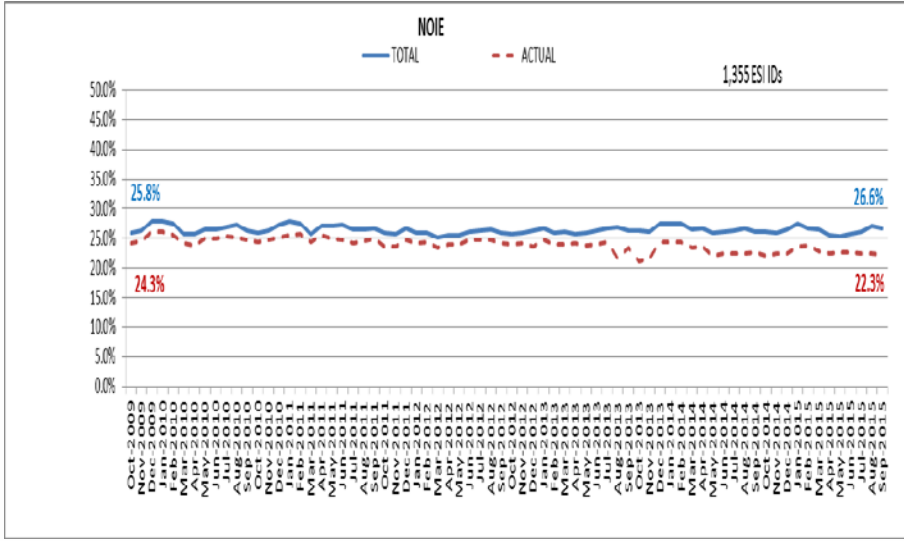
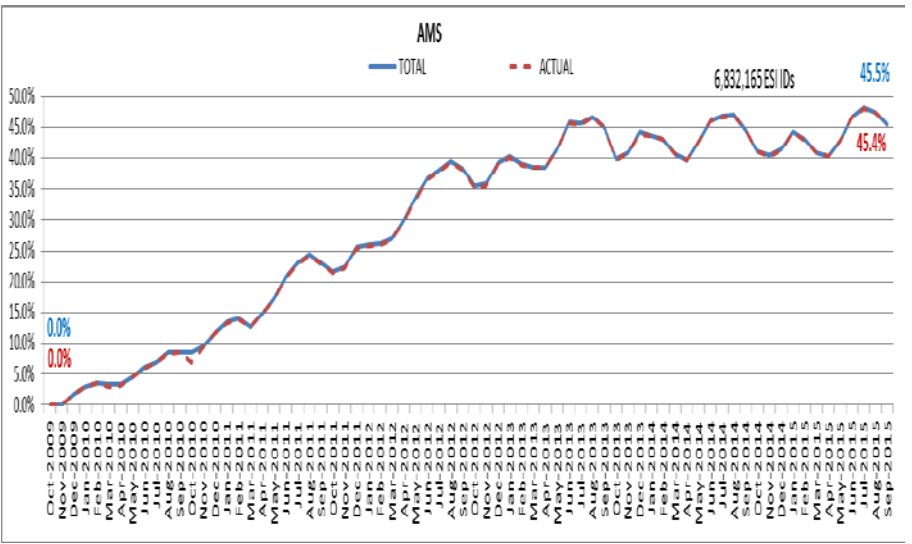
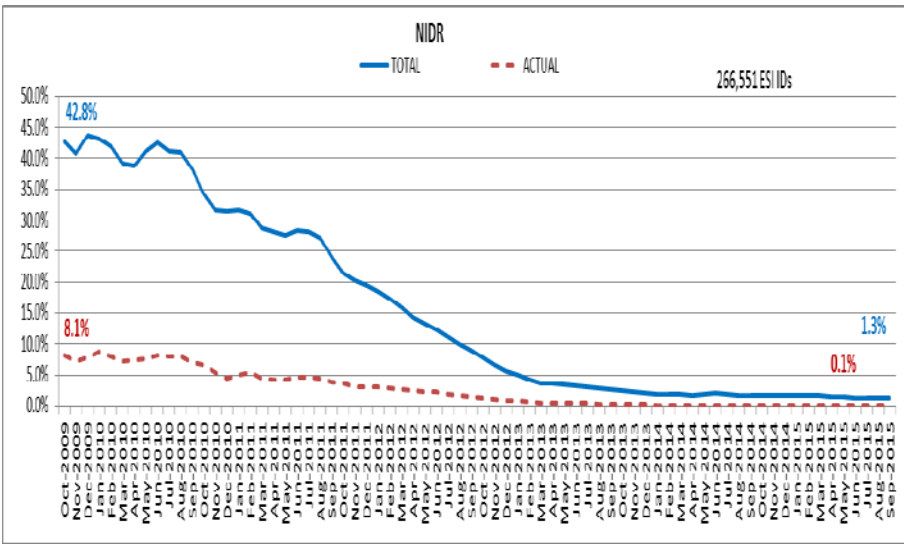
September 2015: At month end, settling 6.8M ESIIDs using Advanced Meter data.

September 2015: 98.7% of the load in ERCOT is settled with 15-min interval data (AMS, Competitive IDR, and NOIE IDR).

Percent of Load by Meter Type



# ERCOT Wide Load Volumes by Meter Type – INITIAL Settlement – September 2015

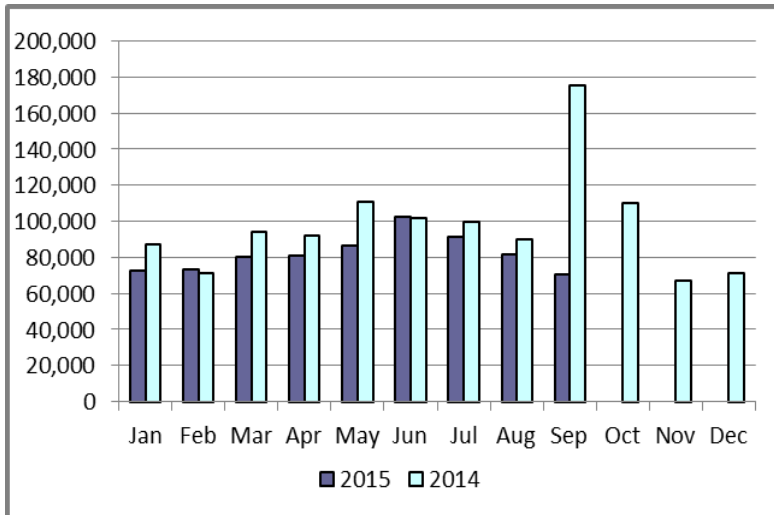


# Retail Transaction Volumes – Summary – September 2015

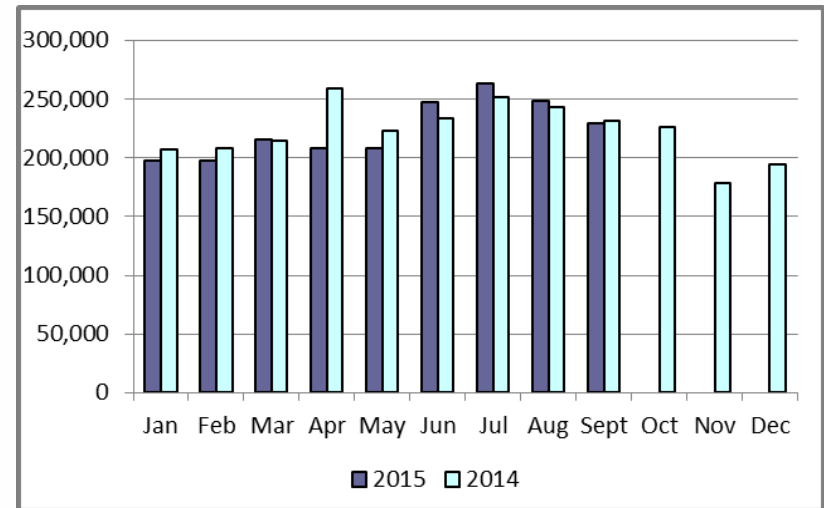
Transaction Type	Year-To-Date		Transactions Received	
	September 2015	September 2014	September 2015	September 2014
Switches	739,648	920,929	70,342	175,164
Acquisition	0	0	0	0
Move - Ins	2,015,689	2,072,329	229,405	231,418
Move - Outs	1,034,509	1,034,002	117,949	115,918
Continuous Service Agreements (CSA)	402,869	498,528	54,677	44,268
Mass Transitions	0	5,614	0	0
<b>Total</b>	<b>4,192,715</b>	<b>4,531,402</b>	<b>472,373</b>	<b>566,768</b>

# Retail Transaction Volumes – Summary – September 2015

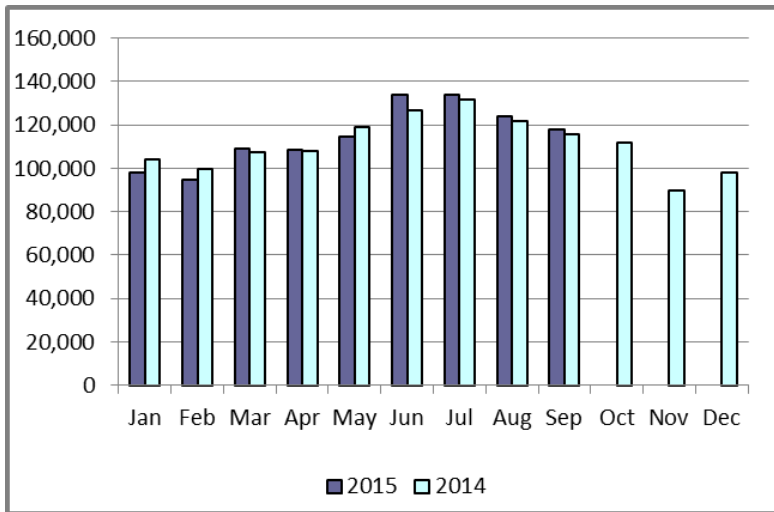
## Switches/Acquisitions



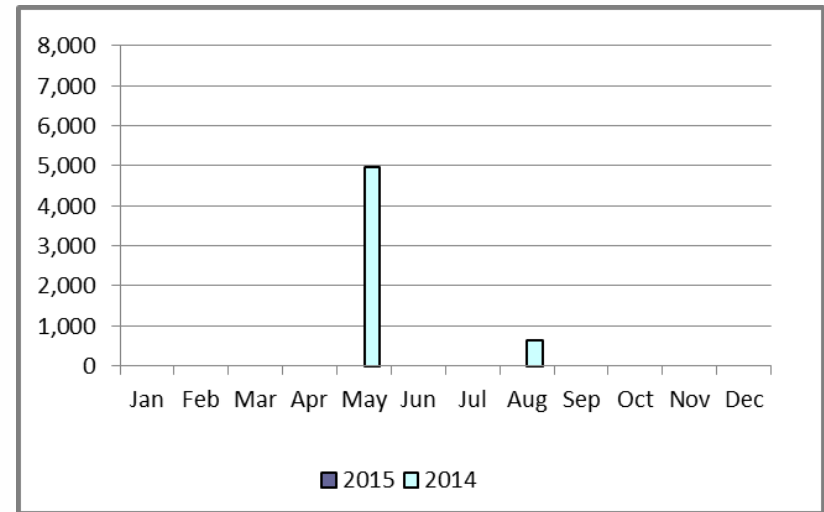
## Move-Ins



## Move-Outs

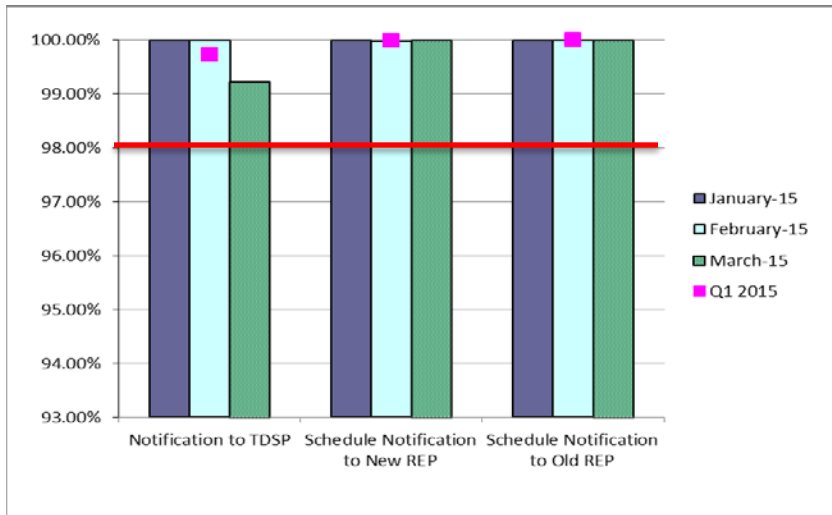


## Mass Transition

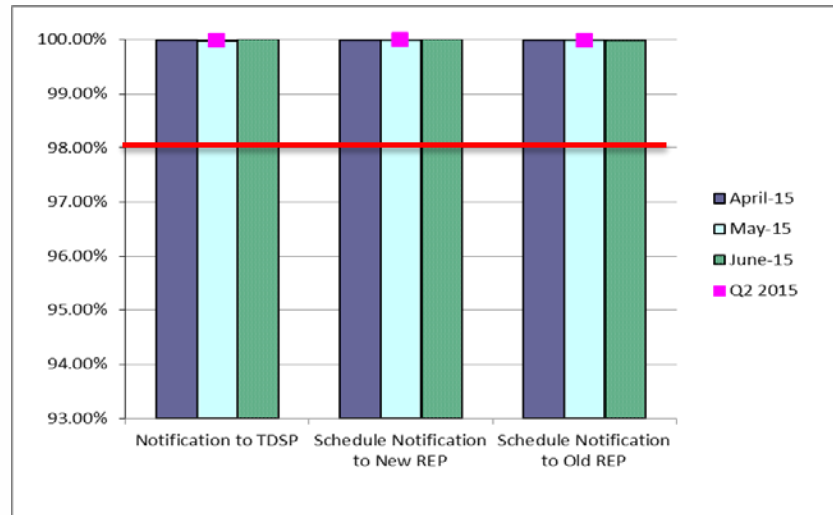


# Retail Performance Measures – Switch – September 2015

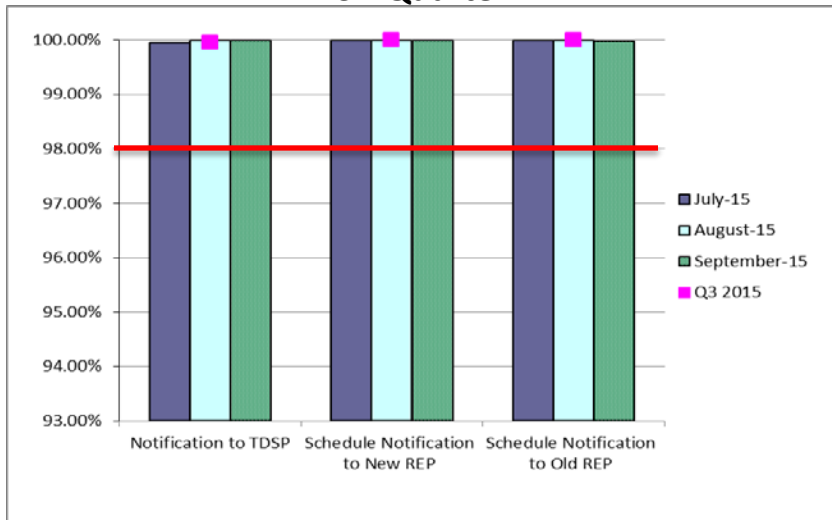
## 1<sup>st</sup> Quarter



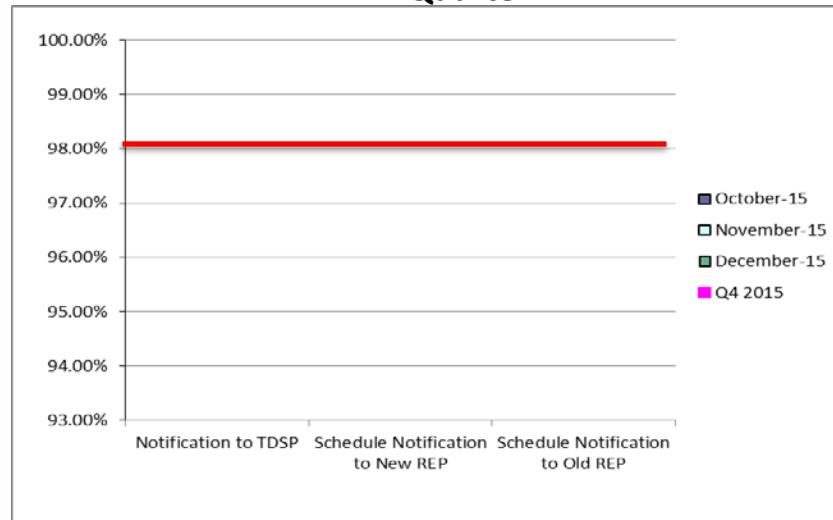
## 2<sup>nd</sup> Quarter



## 3<sup>rd</sup> Quarter

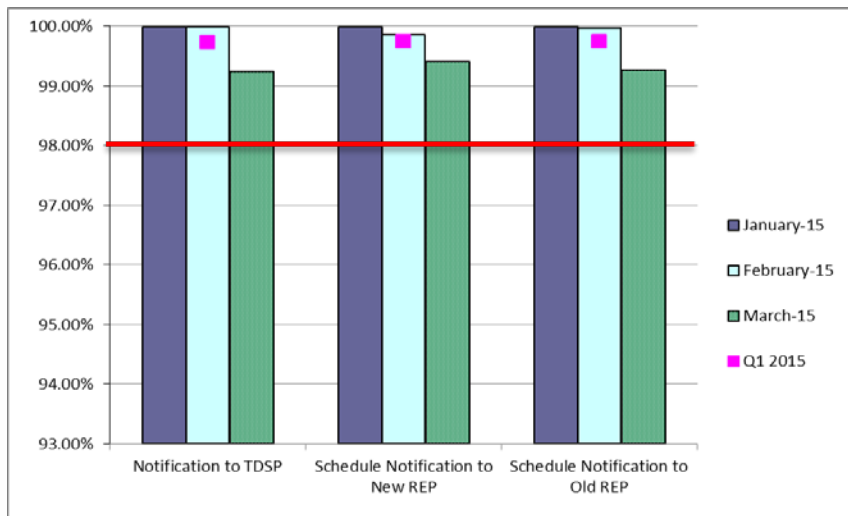


## 4<sup>th</sup> Quarter

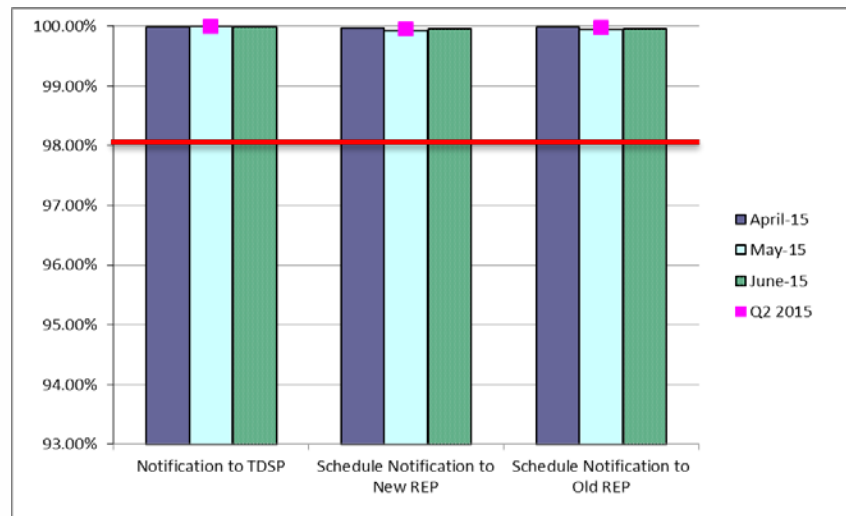


# Retail Performance Measures (Same Day Move-In) – September 2015

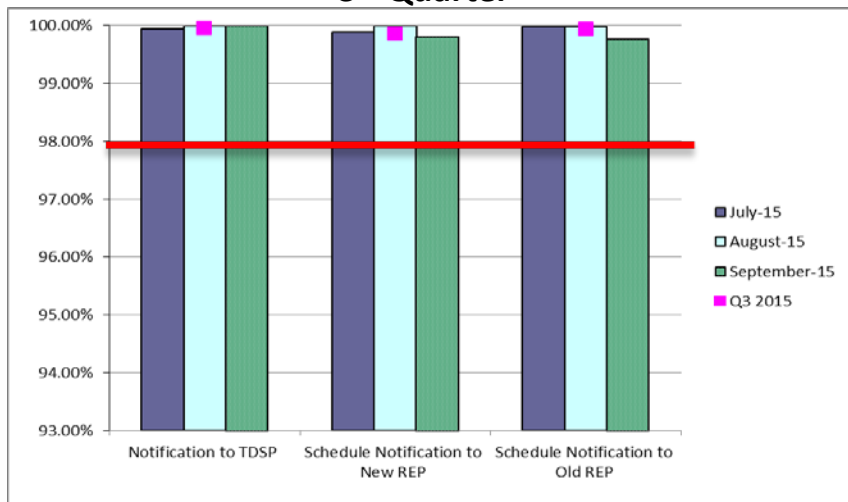
## 1<sup>st</sup> Quarter



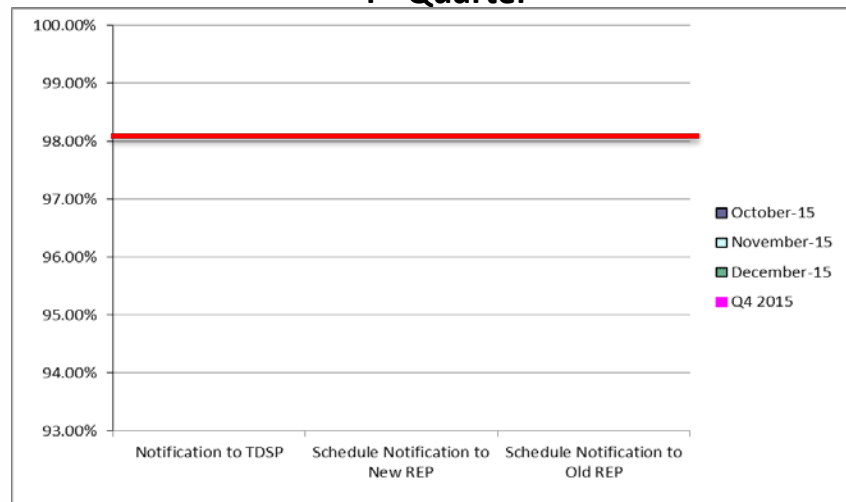
## 2<sup>nd</sup> Quarter



## 3<sup>rd</sup> Quarter

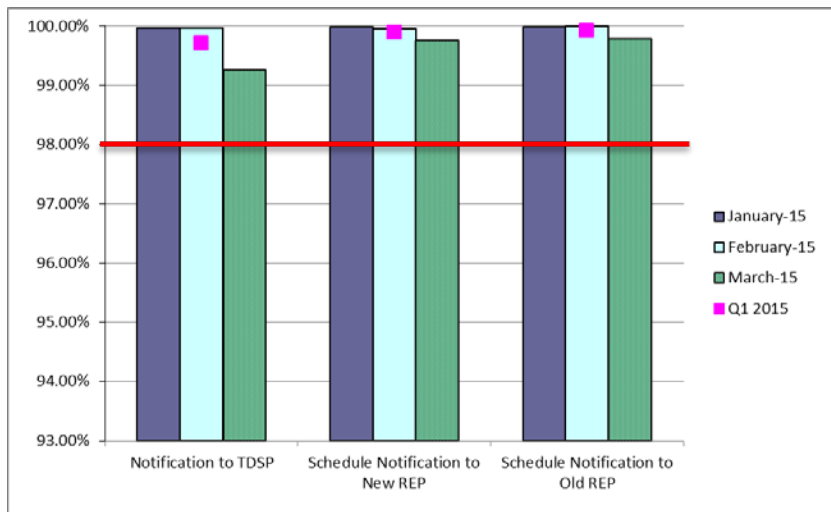


## 4<sup>th</sup> Quarter

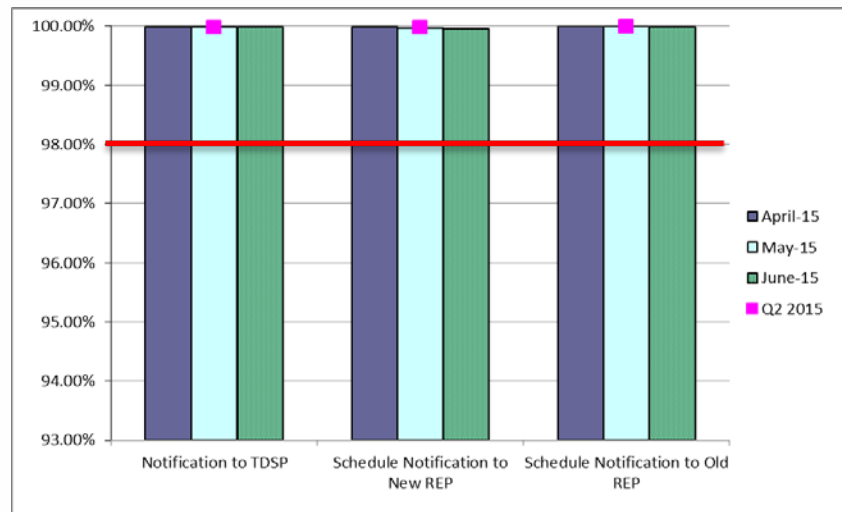


# Retail Performance Measures (Standard Move-In) – September 2015

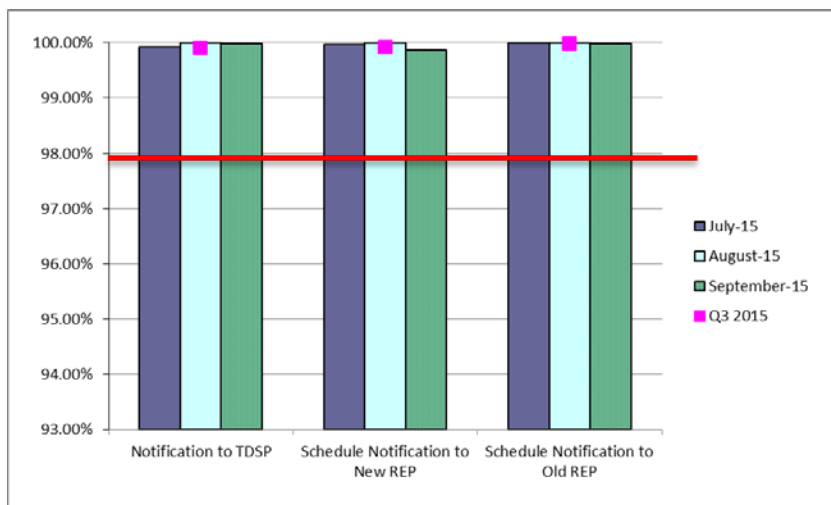
## 1<sup>st</sup> Quarter



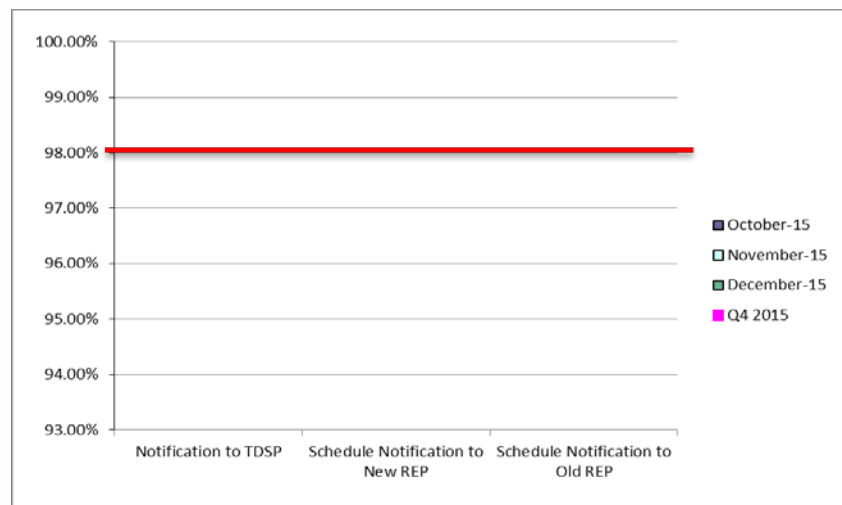
## 2<sup>nd</sup> Quarter



## 3<sup>rd</sup> Quarter



## 4<sup>th</sup> Quarter





---

# **Projects Report**

---

# ERCOT Portfolio Stoplight Report – September 2015

Impact Metric Tolerances	2015 Project Funding	\$ 21,650,000	2015 Portfolio Spending Estimate
Unfavorable variances are represented as negative numbers within the report. - Green = No more than 4.9% unfavorable variance - Yellow = Unfavorable variance between 4.9% and 9.9% - Red = Unfavorable variance more than 9.9%	Projects In Flight/On Hold (Count = 45)		\$ 21,621,791
	Projects Not Yet Started (Count = 18)		\$ 456,143
	Projects Completed (Count = 35)		\$ 3,270,358
	Spending Reductions Required to Maintain Capital Budget		\$ (3,698,292)
	<b>TOTAL</b>		<b>\$ 21,650,000</b>

Project Number	Projects in Initiation Phase (Count = 4)	<b>Footnotes</b> 1 - One or more phases took longer than expected, resulting in additional funding and/or time required 2 - One or more phases required more labor than expected, resulting in additional funding and/or time required 3 - Project placed on hold 4 - Resource constraints resulted in delay to one or more phases 5 - Project was on an urgent timeline to meet a pre-defined target implementation date. Compressed project planning required budget estimation before full requirements were known. Additional effort needed, resulting in additional funding. NA - Metric not calculated because: - it is reported at the parent project level, or - it is an administrative project
TBD	Infoblox Hardware Refresh	
177-01	Cyber Security Project #19	
NPRR573	Alignment of PRC Calculation	
NPRR680	Allow QSEs to Self-Arrange AS Quantities Greater Than Their AS Obligation	

Project Number	Projects in Planning Phase (Count = 13)	Baseline Phase Start	Baseline Phase Finish	Scheduled Go-Live Date	Scheduled Phase Finish	Schedule Impact		Budget Impact	
106-01	MP Online Data Entry - Ph 1	10/9/2013	3/5/2014	TBD	10/8/2015	4	-395%		0%
141-01	Production Virtualization	11/6/2014	11/18/2016	TBD	11/18/2016		0%		0%
158-01	Move iTron LF Application to High Availability Environment	1/14/2015	6/19/2015	TBD	1/28/2016	4	-142%		74%
DC4	DC4 Program Control - Planning Phase Only	9/9/2015	3/30/2016	TBD	4/5/2016		-2%		0%
169-01	Short Circuit Ratio Functionality	4/6/2015	9/16/2015	TBD	11/4/2015	1	-30%		11%
172-01	Physical Security Project #2	8/27/2015	6/8/2016	TBD	6/8/2016		0%		0%
173-01	ERCOT Flight Certification Website	7/23/2015	12/11/2015	TBD	12/11/2015		0%		7%
174-01	2015 Outage Scheduler Enhancements	9/9/2015	11/11/2015	TBD	10/7/2015		55%		-1%
TBD	Enterprise Resource Planning	8/5/2015	9/2/2015	TBD	11/1/2015	1	-214%		0%
NPRR219	Resolution of Alignment Items A33, A92, A106, and A150 - TSPs Must Submit Outages for Resource Owned Equipment and Clarification of Changes in Status of Transmission Element Postings	9/9/2015	11/11/2015	TBD	10/7/2015		55%	NA	See #174-01
NPRR515	Day-Ahead Market Self-Commitment of Generation Resources	8/5/2015	9/18/2015	TBD	10/7/2015	1	-43%		0%
NPRR556	Resource Adequacy During Transmission Equipment Outage	9/9/2015	10/7/2015	TBD	10/7/2015		0%		4%
SCR783	Outage Scheduler Enhancements – Group 2, Usability and Filtering Enhancements	9/9/2015	11/11/2015	TBD	10/7/2015		55%	NA	See #174-01



# ERCOT Portfolio Stoplight Report – September 2015

Project Number	Projects in Execution Phase (Count = 19)	Baseline Phase Start	Baseline Go-Live Target	Scheduled Go-Live Date	Scheduled Phase Finish	Schedule Impact		Budget Impact	
052-01	EMS Upgrade	9/24/2014	5/25/2016	5/26/2016	11/1/2016		0%		5%
065-01	NMMS Upgrade	12/17/2014	5/27/2016	5/30/2016	7/12/2016		0%		-1%
116-01	Collage Replacement	2/6/2014	9/22/2014	1/22/2016	2/8/2016	4	-213%	2	-94%
120-01	IT Production Hardening	5/21/2015	4/1/2016	3/25/2016	4/25/2016		2%		7%
143-01	OSI Pi Visualization Enhancements	1/16/2015	6/19/2015	11/15/2015	10/30/2015	1	-96%		2%
144-01	OC-48 Replacement with DWDM	2/4/2015	12/22/2015	12/22/2015	1/26/2016		0%	1	-9%
155-01	Replace N2N System	2/5/2015	5/14/2015	10/8/2015	11/16/2015	2	-150%	2	-24%
161-01	NPRRs 588 and 615	9/16/2015	2/19/2016	2/19/2016	3/30/2016		0%		21%
165-00	Capital Efficiencies and Enhancements - 2015	1/1/2015	12/31/2015	12/31/2015	12/31/2015		0%		41%
168-01	Configuration Management System Requirements for CIP v5 Readiness	7/6/2015	12/16/2015	12/16/2015	12/30/2015		0%		4%
170-01	Enterprise Content Alignment Program	8/26/2015	1/5/2016	1/5/2016	2/29/2016		0%		22%
171-01	CIP v5 Readiness Project	7/22/2015	4/29/2016	3/28/2016	3/28/2016		11%		0%
NPRR553	Monthly BLT Payment and Charge for Presidio Exception	4/9/2015	10/25/2015	10/25/2015	10/25/2015		0%	NA	See #165-00
NPRR588	Clarifications for PV Generation Resources	9/16/2015	2/19/2016	2/19/2016	3/30/2016		0%	NA	See #161-01
NPRR595	RRS Load Resource Treatment in ORDC	8/5/2015	10/23/2015	10/22/2015	11/23/2015		1%	NA	See NPRR698
NPRR615	PVGR Forecasting	9/16/2015	2/19/2016	2/19/2016	3/30/2016		0%	NA	See #161-01
NPRR698	Clarifications to NPRR595, RRS Load Resource Treatment In ORDC	8/5/2015	10/23/2015	10/22/2015	11/23/2015		1%		8%
NPRR706	Restore the Ability to Use Physical Responsive Reserve Capability as an Indicator of Available Frequency-Responsive Capacity	8/5/2015	10/23/2015	10/22/2015	11/23/2015		1%		See NPRR698
NPRR710	Removal of ORDC Phase 2 Language and Modification to HASL Calculation	8/5/2015	10/23/2015	10/22/2015	11/23/2015		1%		See NPRR698
Project Number	Projects in Stabilization (Count = 5)	Baseline Execution Phase Start	Baseline Go-Live Target	Actual Go-Live Date	Scheduled Execution Phase Finish	Schedule Impact		Budget Impact	
122-01	Infoblox DNS/DHCP	5/21/2014	11/5/2014	11/20/2014	11/8/2015	1	-8%		0%
127-01	SQL Server 2012 Upgrade / Cluster Consolidation	12/18/2014	7/19/2015	7/19/2015	9/9/2015		0%		14%
134-01	Privileged Account Management	4/1/2015	9/30/2015	9/30/2015	10/30/2015		0%		15%
156-01	Symposium Call Center Replacement	2/5/2015	5/19/2015	8/21/2015	10/14/2015	2	-91%	2	-15%
163-01	Cyber Security Project #10	7/1/2015	9/15/2015	9/22/2015	11/25/2015	1	-9%		18%
Project Number	Projects On Hold (Count = 4)	Forecast Start Date	Baseline Phase Finish	Scheduled Go-Live Date	Scheduled Phase Finish	Schedule Impact		Budget Impact	
SCR777	Bilateral CRR Interface Enhancement	8/20/2014	11/28/2014	TBD	TBD	3		3	
NPRR327	State Estimator Data Redaction Methodology	12/5/2012	2/12/2013	TBD	TBD	3		3	
129-01	Access and Roles Management	7/1/2014	10/1/2014	TBD	TBD	3		3	
166-01	Jboss Application Monitoring & Management (JAMM)	TBD	TBD	TBD	TBD	3		3	



# ERCOT Portfolio Stoplight Report – September 2015

Project Number	Projects Completed (Count =35)	Baseline Execution Phase Start	Baseline Go-Live Target	Actual Go-Live Date	Actual Execution Phase Finish	Schedule Status	Total Variance
NPRR467	Balancing Account Resettlement Due to DAM Resettlement	7/1/2014	12/6/2014	12/6/2014	6/12/2015	0%	NA See #10052
NPRR500	Posting of Generation that is Off but Available	1/7/2015	2/6/2015	2/6/2015	3/27/2015	0%	48%
NPRR543	Message for Confirmed E-Tags	3/18/2015	6/23/2015	6/25/2015	7/9/2015	-2%	19%
NPRR559	Revisions to MCE Calculation	1/29/2015	6/13/2015	6/13/2015	7/10/2015	0%	NA See #154-01
NPRR580	Establishment of a Rolling CRR Balancing Account Fund	7/1/2014	12/6/2014	12/6/2014	6/12/2015	0%	NA See #10052
NPRR586	Align Credit Lock for CRR Auctions with Transaction Submission Deadline	7/2/2014	9/26/2014	9/22/2014	10/28/2014	4%	2 -18%
NPRR589	Ancillary Service Offers in the Supplemental Ancillary Services Market	3/1/2015	9/25/2015	9/30/2015	9/30/2015	-2%	
NPRR597	Utilize Initial Estimated Liability (IEL) Only During Initial Market Activity	1/29/2015	6/13/2015	6/13/2015	7/10/2015	0%	NA See #154-01
NPRR601	Inclusion of Incremental Exposure in Mass Transitions to Counter-Parties that are Registered as QSEs and LSEs and Provide POLR Service	1/29/2015	6/13/2015	6/13/2015	7/10/2015	0%	NA See #154-01
NPRR626	Reliability Deployment Price Adder	1/15/2015	6/28/2015	6/26/2015	9/7/2015	1%	NA See #149-01
NPRR639	Correction to Minimum Current Exposure	1/29/2015	6/13/2015	6/13/2015	7/10/2015	0%	NA See #154-01
NPRR645	Real-Time On-Line Capacity Revisions	1/15/2015	6/28/2015	6/26/2015	9/7/2015	1%	NA See #149-01
NPRR665	As-Built Clarification of Reliability Deployment Price Adder	1/15/2015	6/28/2015	6/26/2015	9/7/2015	1%	NA See #149-01
NPRR598	Clarify Inputs to PRC and ORDC	1/15/2015	6/28/2015	7/1/2015	7/31/2015	-1%	NA See #149-01
OBD	Setting the Shadow Price Caps and Power Balance Penalties in Security-Constrained Economic Dispatch	1/15/2015	6/28/2015	6/26/2015	9/7/2015	1%	NA See #149-01
SCR771	ERCOT System Change Allowing Independent Master QSE to Represent Split Generation Resources	4/23/2015	9/9/2015	9/9/2015	9/9/2015	0%	NA See #165-00
SCR772	New Extract for Five Minute Interval Settlement Data	11/5/2014	2/13/2015	2/12/2015	3/30/2015	1%	19%
SCR775	Posting Results of Real-Time Data in a Display Format	3/31/2015	6/22/2015	6/22/2015	7/20/2015	0%	40%
SCR778	Credit Exposure Calculations for NOIE Options Linked to RTM PTP Obligations	1/29/2015	3/28/2015	3/28/2015	7/10/2015	0%	NA See #154-01
SCR779	Increase to the CRR Auction Transaction Limit	9/29/2014	6/28/2015	5/27/2015	6/24/2015	11%	-2%
10052_01	Settlement System Upgrade	1/25/2012	12/23/2014	12/6/2014	6/12/2015	1%	-1%
057-01	EPS Metering DB Redesign	4/17/2013	9/6/2013	12/11/2014	1/14/2015	2 -324%	2 -216%
083-01	Centralized Application Log Management	8/28/2013	5/7/2014	3/27/2014	2/4/2015	16%	9%
089-01	Information Technology Change Management	10/29/2014	5/1/2015	5/27/2015	6/15/2015	2 -14%	2 -39%
097-01	ABB MMS OS Technology Refresh	8/15/2014	3/26/2015	3/26/2015	5/8/2015	0%	0%
104-01	Disaster Recovery: S&B, RTL, MDT	10/9/2014	1/18/2015	1/18/2015	1/28/2015	0%	2%
115-01	Cyber Security Project #14	6/30/2014	1/15/2015	1/15/2015	3/6/2015	0%	13%
130-01	Electronic Crisis Communications Enhancements	6/19/2014	12/12/2014	2/16/2015	6/12/2015	1 -37%	2 -5%
137-01	EIS Reporting and Control Systems Upgrade	8/13/2014	1/15/2015	1/13/2015	2/25/2015	1%	9%
142-01	Implementation of NERC BAL-TRE-001 Regional Standard	1/14/2015	2/16/2015	2/6/2015	3/6/2015	30%	46%
149-01	Market System Enhancements 2015	1/15/2015	6/28/2015	6/26/2015	9/7/2015	1%	17%
150-01	Backup Resiliency	12/17/2014	2/6/2015	2/6/2015	3/2/2015	0%	-3%
153-01	Infrastructure Performance Management	12/22/2014	1/22/2015	2/19/2015	3/2/2015	1 -90%	0%
154-01	2014 CMM NPRRs and SCRs	1/29/2015	6/13/2015	6/13/2015	7/10/2015	0%	1 -5%
164-01	Browser Compatibility Assessment	2/25/2015	9/30/2015	TBD	10/2/2015	0%	0%



# ERCOT Portfolio Stoplight Report – September 2015

Project Number	2015 Projects Not Yet Started (Count = 18)	Forecast Start Date
NPRR419	Revise Real Time Energy Imbalance and RMR Adjustment Charge	Oct-2015
NPRR519	Exemption of ERS-Only QSEs from Collateral and Capitalization Requirements	Oct-2015
NPRR617	Energy Offer Flexibility	Oct-2015
NPRR620	Collateral Requirements for Counter-Parties with No Load or Generation	Oct-2015
NPRR662	Proxy Energy Offer Curves	Oct-2015
NPRR683	Revision to Available Credit Limit Calculation	Oct-2015
NPRR686	Changing the IRR Forecast from Next 48 Hours to Next 168 Hours	Oct-2015
NPRR700	Utilizing Actual Fuel Costs in Startup Offer Caps	Oct-2015
RMGRR126	Additional ERCOT Validations for Customer Billing Contact Information File	Oct-2015
RRGRR006	Clarification of Descriptions and Alignment with Resource Asset Registration Forms	Oct-2015
TBD	Build Load Models for TSAT	Oct-2015
TBD	CREZ Voltage Control and Coordination - Phase 2	Oct-2015
TBD	CRR Framework Upgrade	Oct-2015
TBD	Emergency Energy Settlements Inputs Automation	Oct-2015
TBD	Mobile Device Management (MDM) – GEMS	Oct-2015
TBD	Privileged Account Management - SSAFE16	Oct-2015
NPRR679	ONOPTOUT for RUC Given After the Adjustment Period	Nov-2015
TBD	Records Management and eDiscovery	Nov-2015