

Item 7: IMM Report

Steve Reedy

Potomac Economics

Deputy Director, ERCOT IMM

Board of Directors

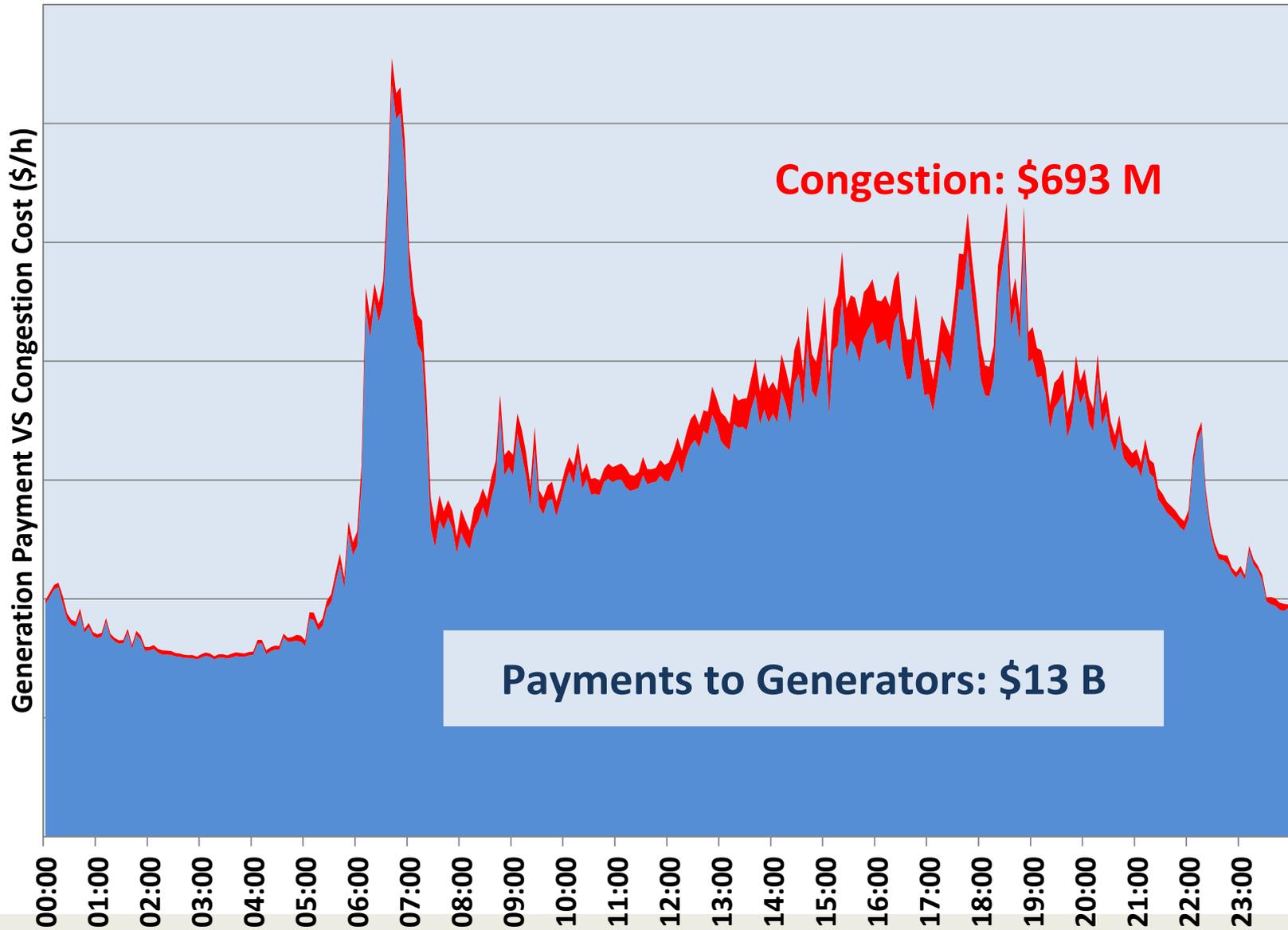
June 9, 2015

ERCOT Public

The path of Congestion Rent and Revenue in ERCOT

- Of the money load pays for energy in real time, most goes to generators and some goes to real time congestion rent.
- Real time congestion rent plus revenue sufficiency uplift goes to fund Day Ahead congestion positions.
- Payouts on the Day Ahead positions greater than their cost is profit for Day Ahead Market Participants.
- Some of the Day Ahead congestion goes to fund CRRs and the rest goes to load.
- Payouts on CRRs greater than their cost is profit to CRR Account Holders.
- Payments made to obtain CRRs goes to load.

SCED Generation Payment VS Congestion 2014



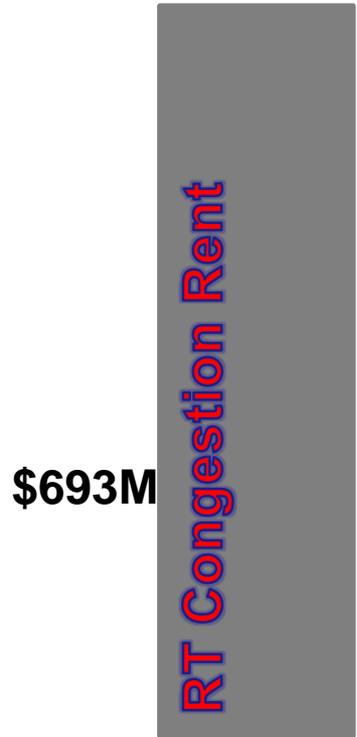
Congestion Rent and Revenue in ERCOT



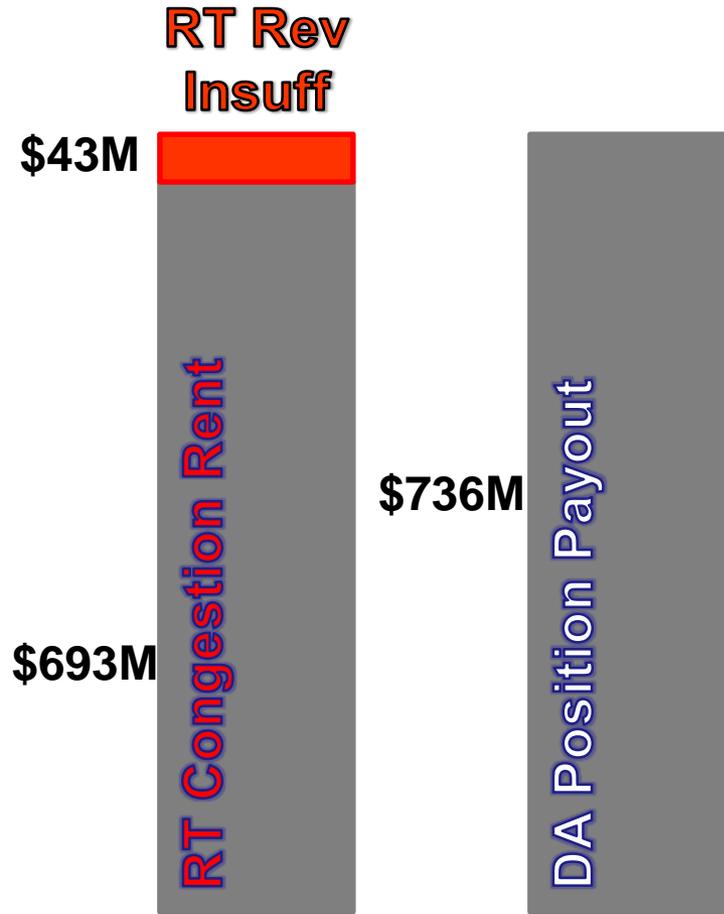
\$693M Congestion Rent

\$13B Generation Payment

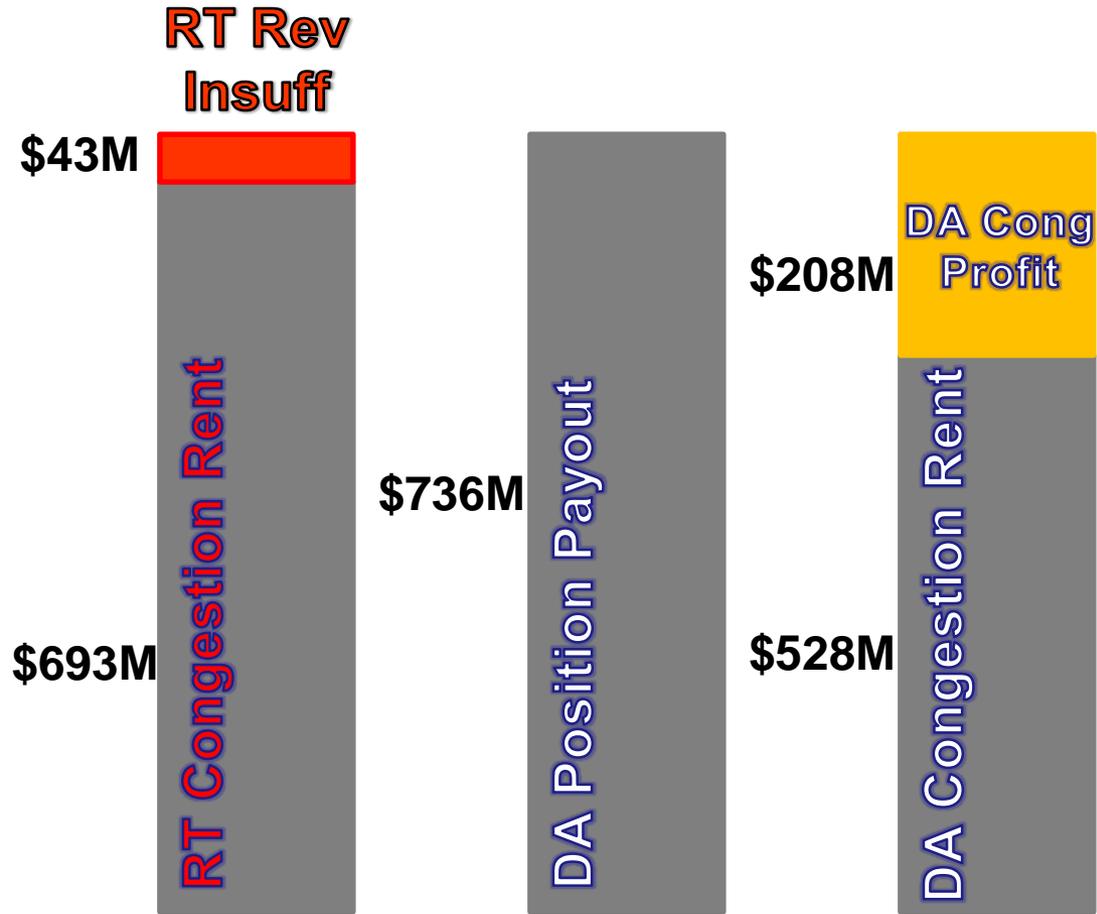
Congestion Rent and Revenue in ERCOT



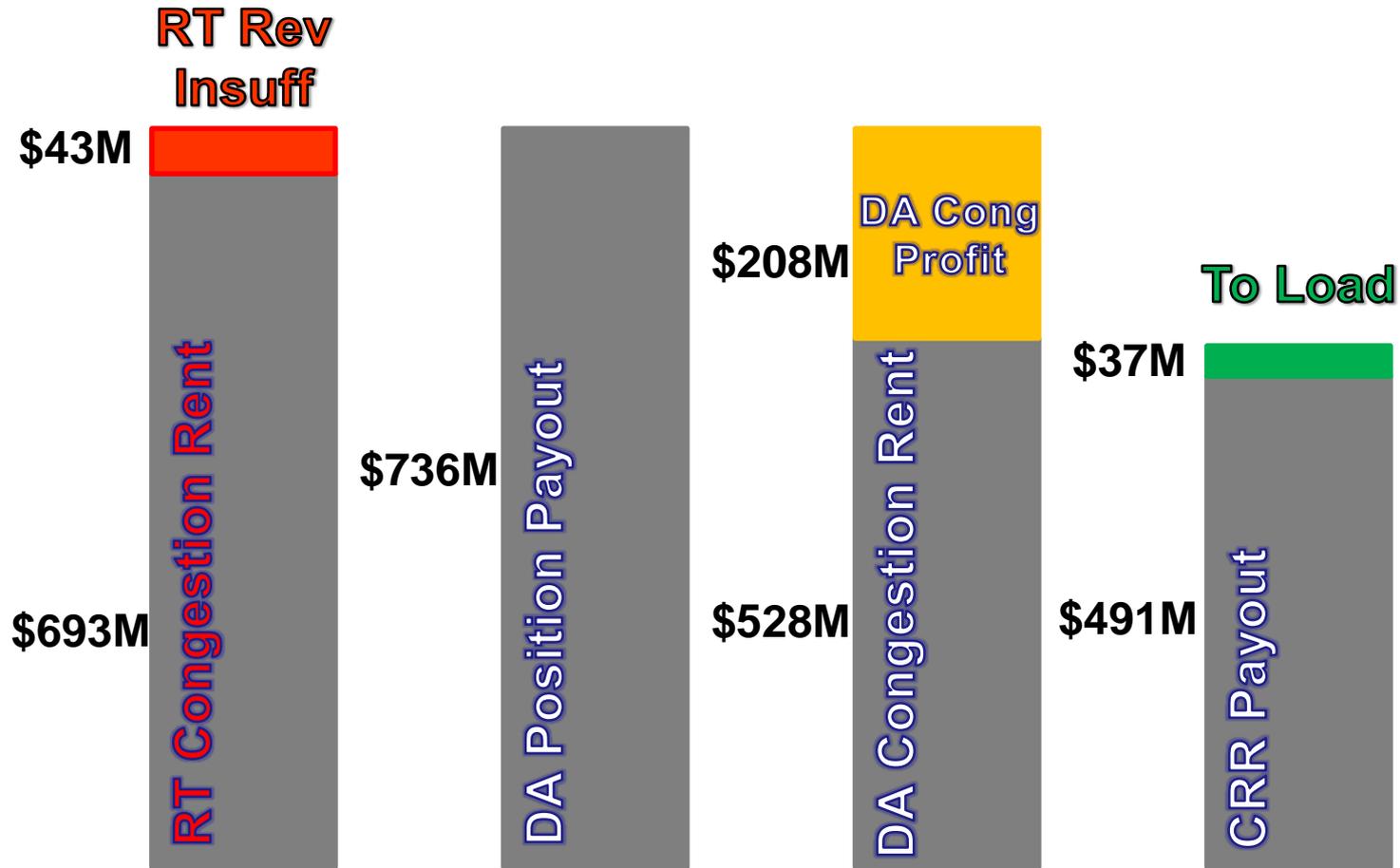
Congestion Rent and Revenue in ERCOT



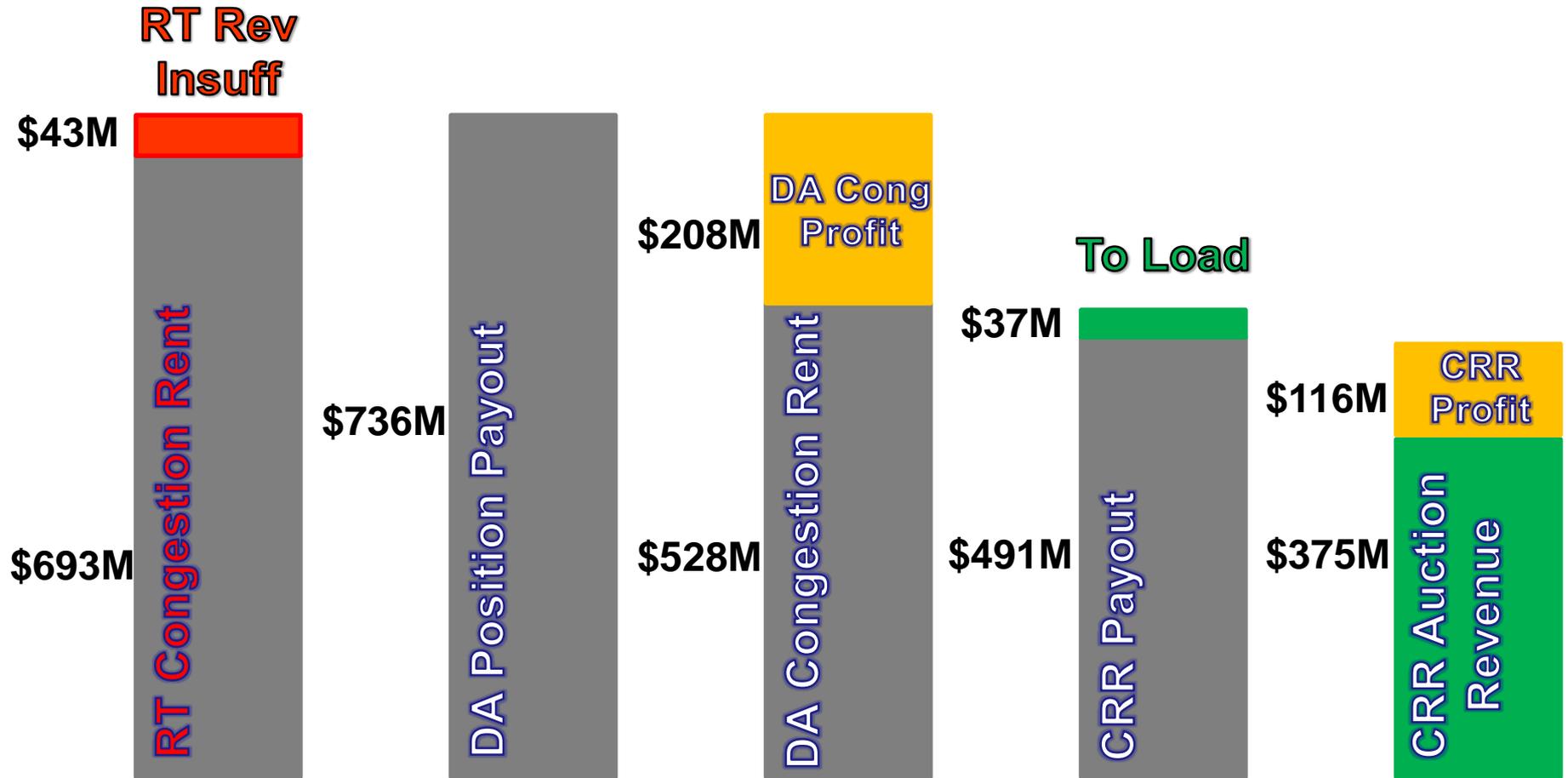
Congestion Rent and Revenue in ERCOT



Congestion Rent and Revenue in ERCOT



Congestion Rent and Revenue in ERCOT



Congestion Rent and Revenue in ERCOT - Summary

- **Of the money load pays for energy, most goes to generators (\$13B) and some goes to real time congestion rent (\$693M).**
- **Real time congestion rent plus revenue sufficiency uplift (\$43M) goes to fund Day Ahead congestion positions (\$736M).**
- **The Day Ahead congestion positions cost \$528M leaving a profit of \$208M for Day Ahead Market Participants.**
- **Some of the \$528M Day Ahead congestion goes to fund CRRs (\$491M) and the rest goes to load (\$37M).**
- **Those CRR positions cost \$375M, which goes to load. The remaining \$116M is profit to CRR Account Holders.**
- **In 2014 load paid \$736M above the amount paid to generators in the real time market.**
 - \$324M went to profit on DA and CRR positions
 - \$412M went back to load directly

To the Public Utility Commission of Texas

ERCOT Wholesale Electricity Market Monthly Report

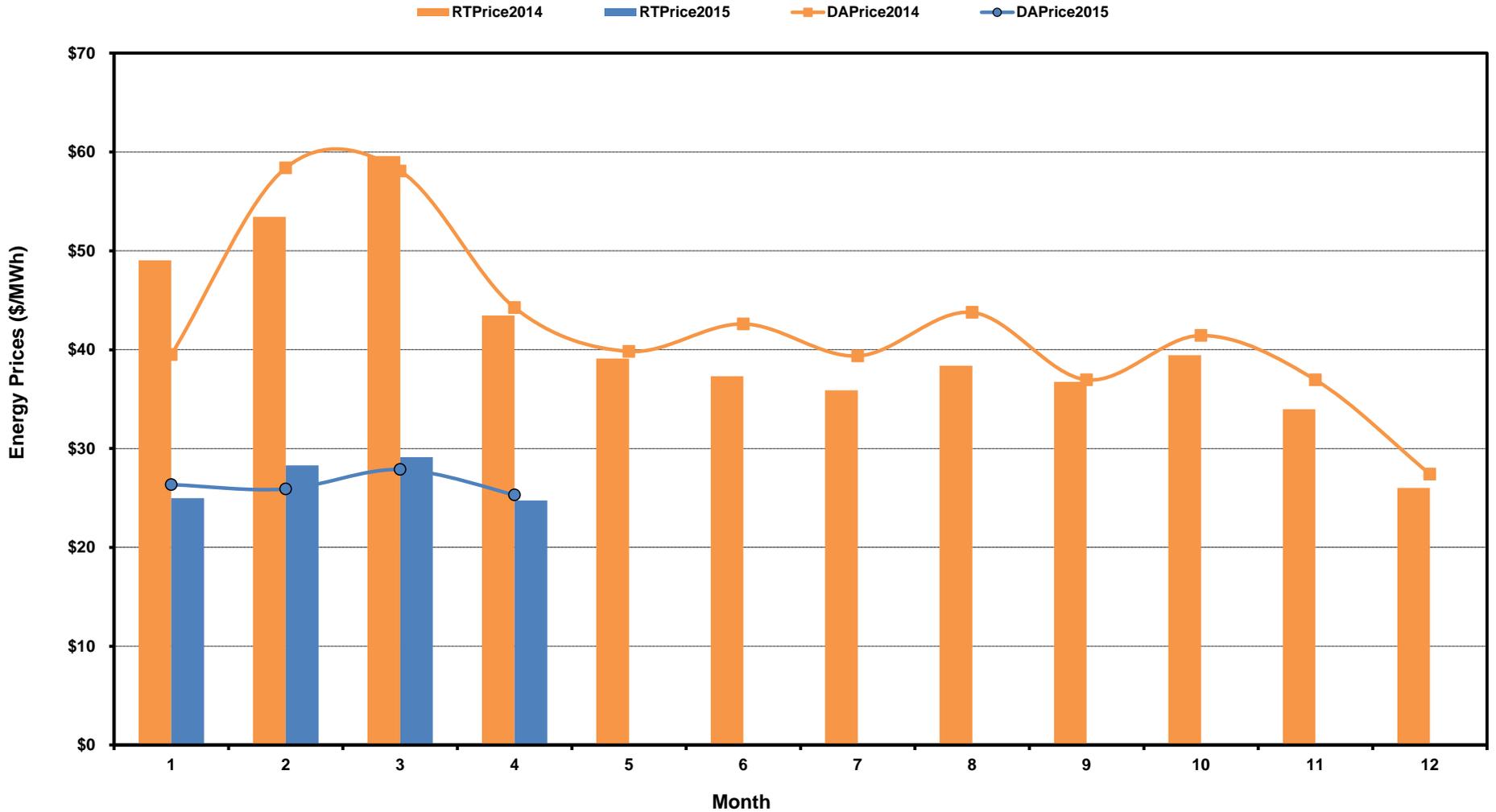
Wednesday, May 27, 2015

Potomac Economics, Ltd.
Independent Market Monitor

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ERCOT-Wide Average Energy Prices DA vs RT

(avg. DA & RT SPPs weighted by Real Time Settlement Loads)



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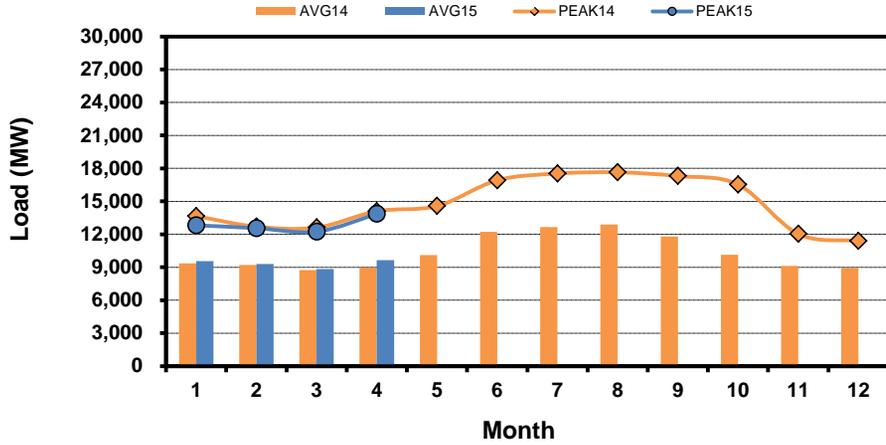
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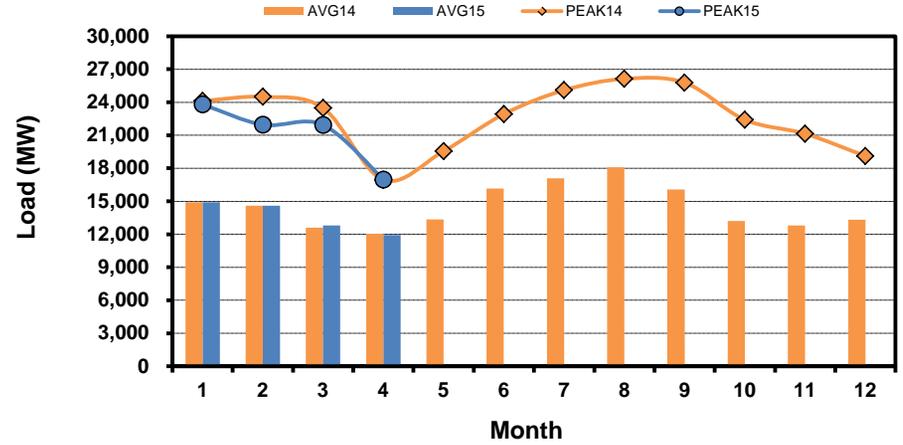
Load Zone Load Statistics

(Nodal load zone made comparable to zonal system Load Zone definitions*)

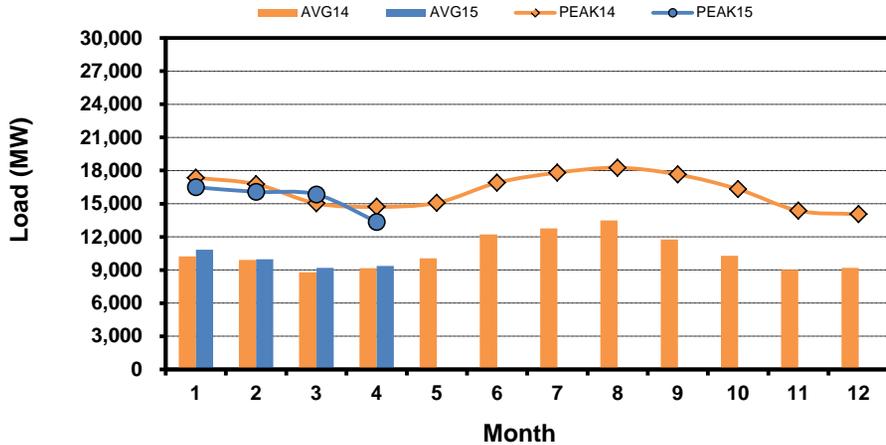
Houston Zone



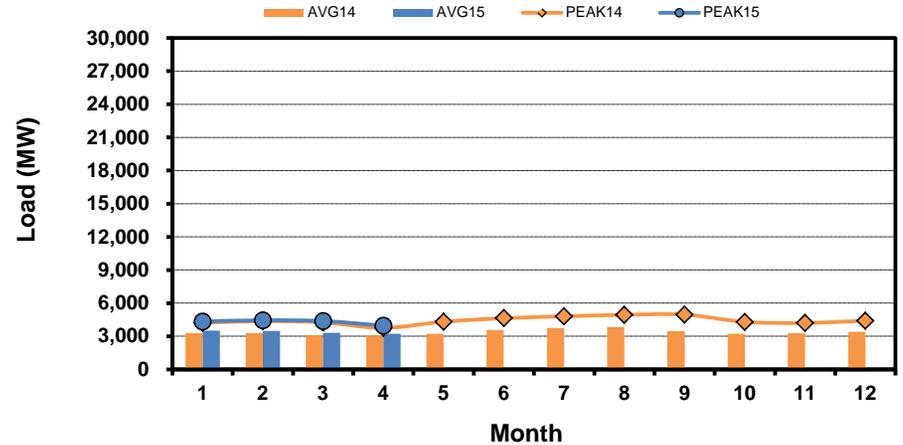
North Zone



South Zone



West Zone



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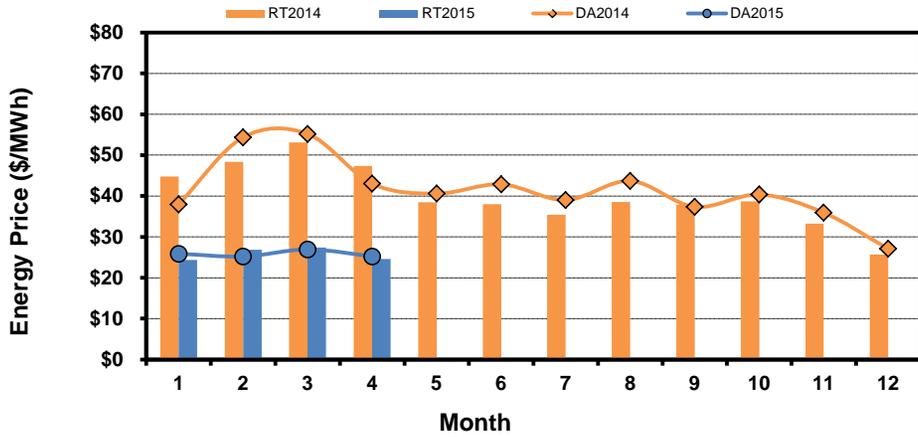
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Note: * Zonal load zone definition vs. Nodal comparable load zone definition: LZ_Houston=LZ_Houston; LZ_West=LZ_West; LZ_North=(LZ_North,LZ_RAYBN); LZ_South=(LZ_South,LZ_CPS,LZ_AEN,LZ_LCRA)

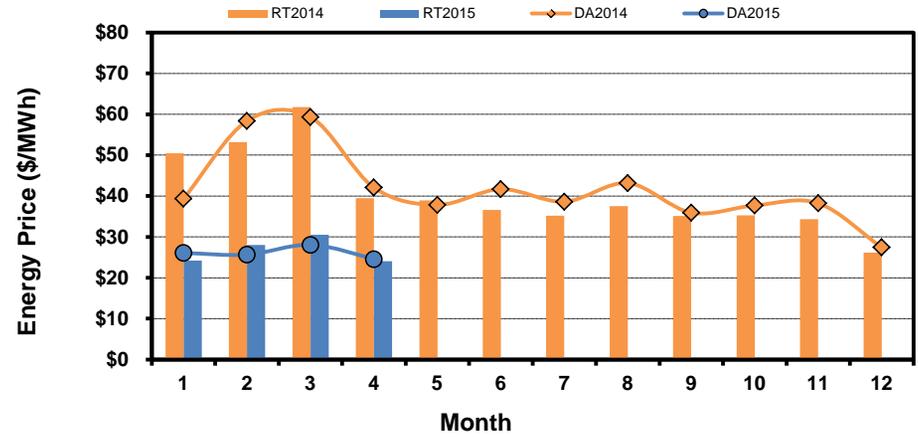
Load Zone Monthly Average Energy Price DA vs RT

(avg. DA & RT SPPs weighted by Real Time Settlement Loads)
 (Nodal load zone made comparable to zonal system Load Zone definitions*)

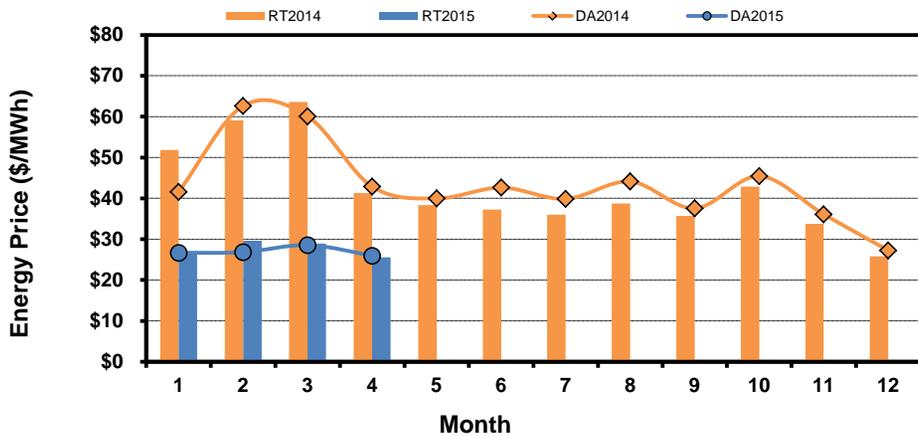
Houston Zone



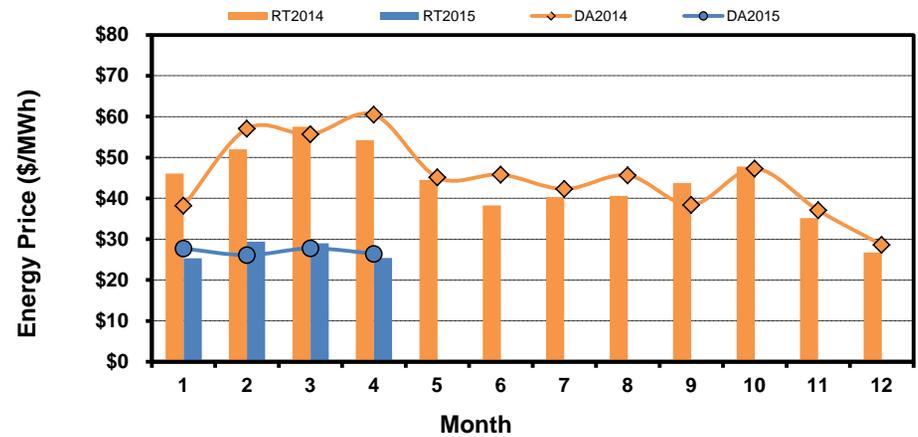
North Zone



South Zone



West Zone



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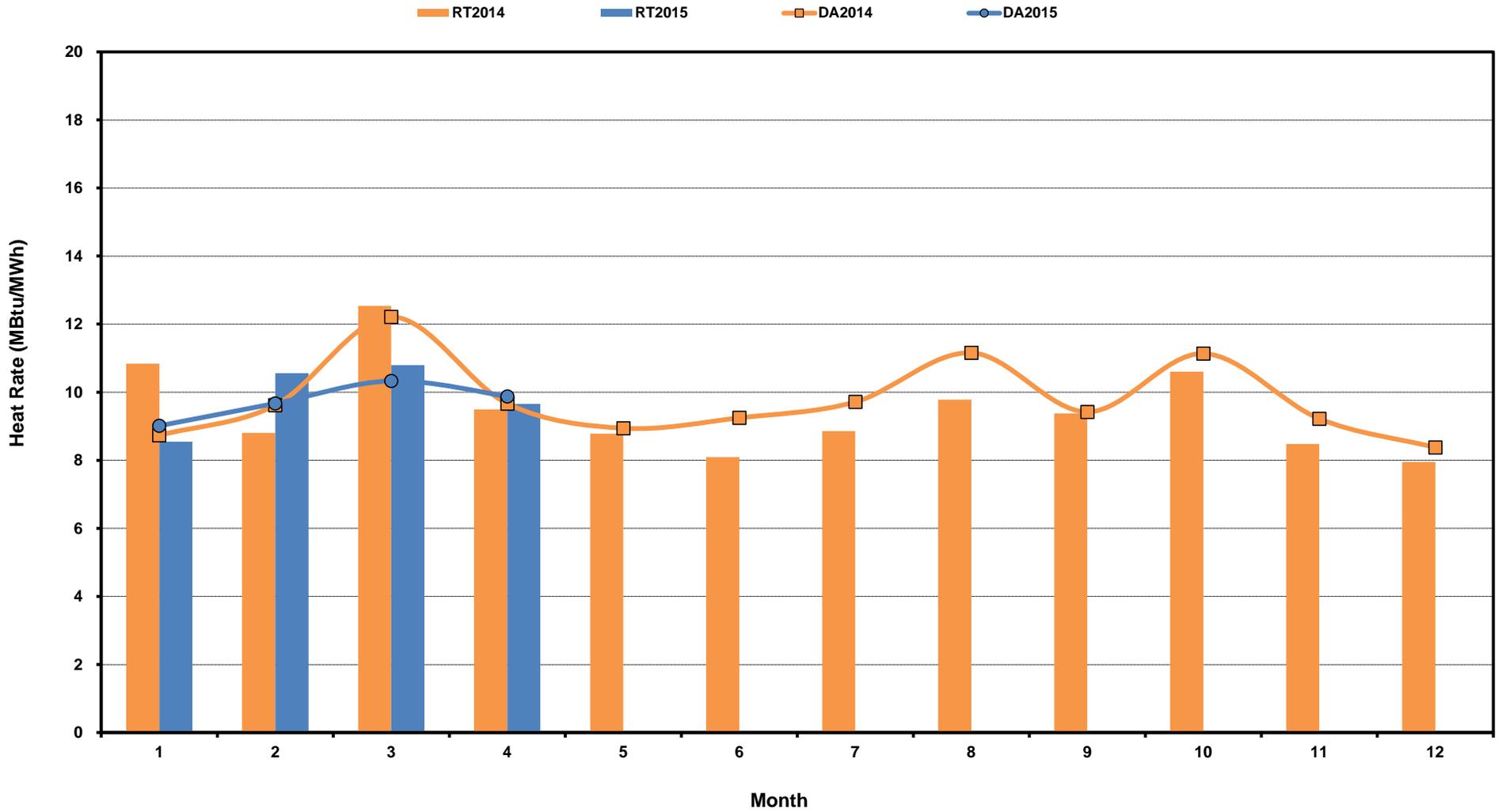
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ERCOT-Wide Monthly Implied Heat Rate DA vs RT

(avg. heat rates weighted by Real Time Settlement Loads)



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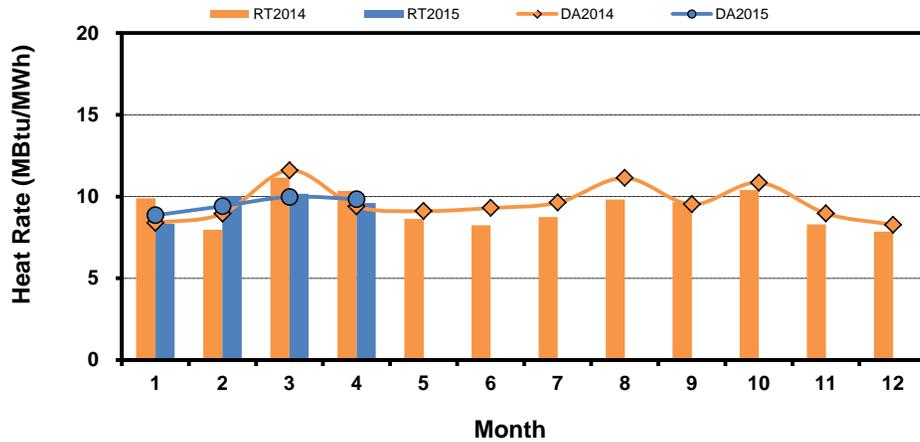
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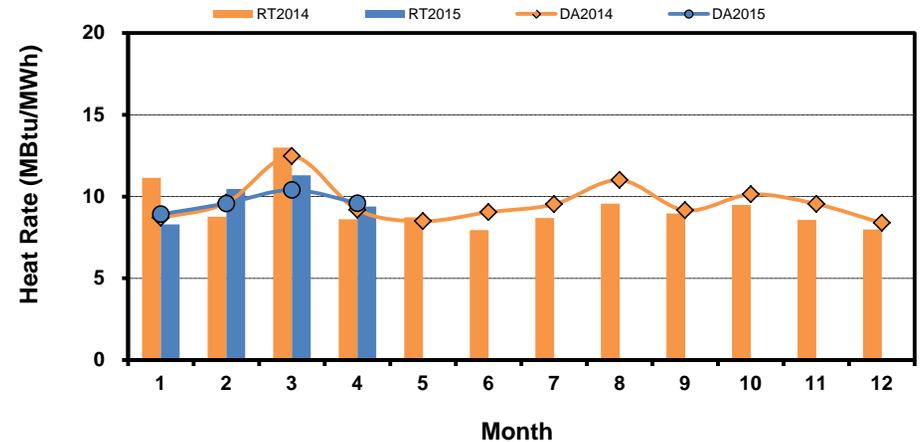
Load Zone Monthly Implied Heat Rate DA vs RT

(avg. heat rates weighted by Real Time Settlement Loads)
 (Nodal load zone made comparable to zonal system Load Zone definitions*)

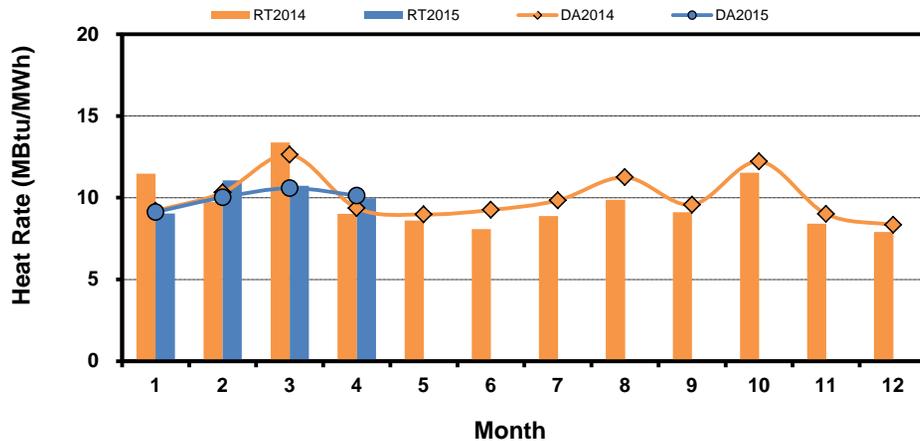
Houston Zone



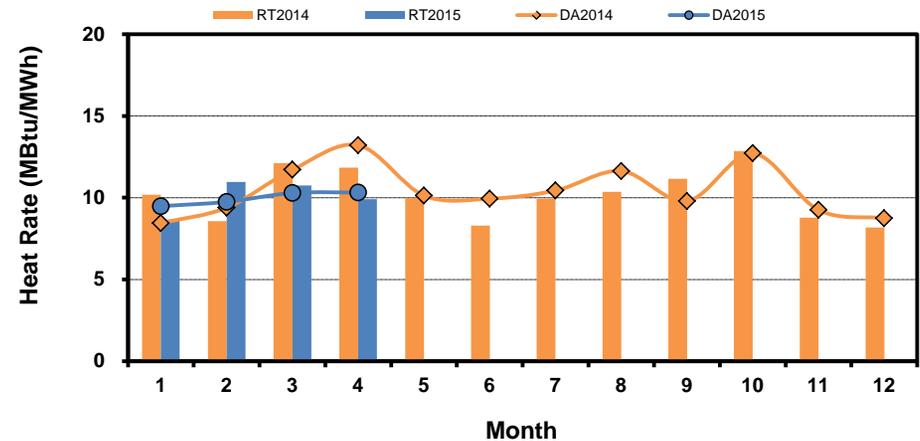
North Zone



South Zone



West Zone



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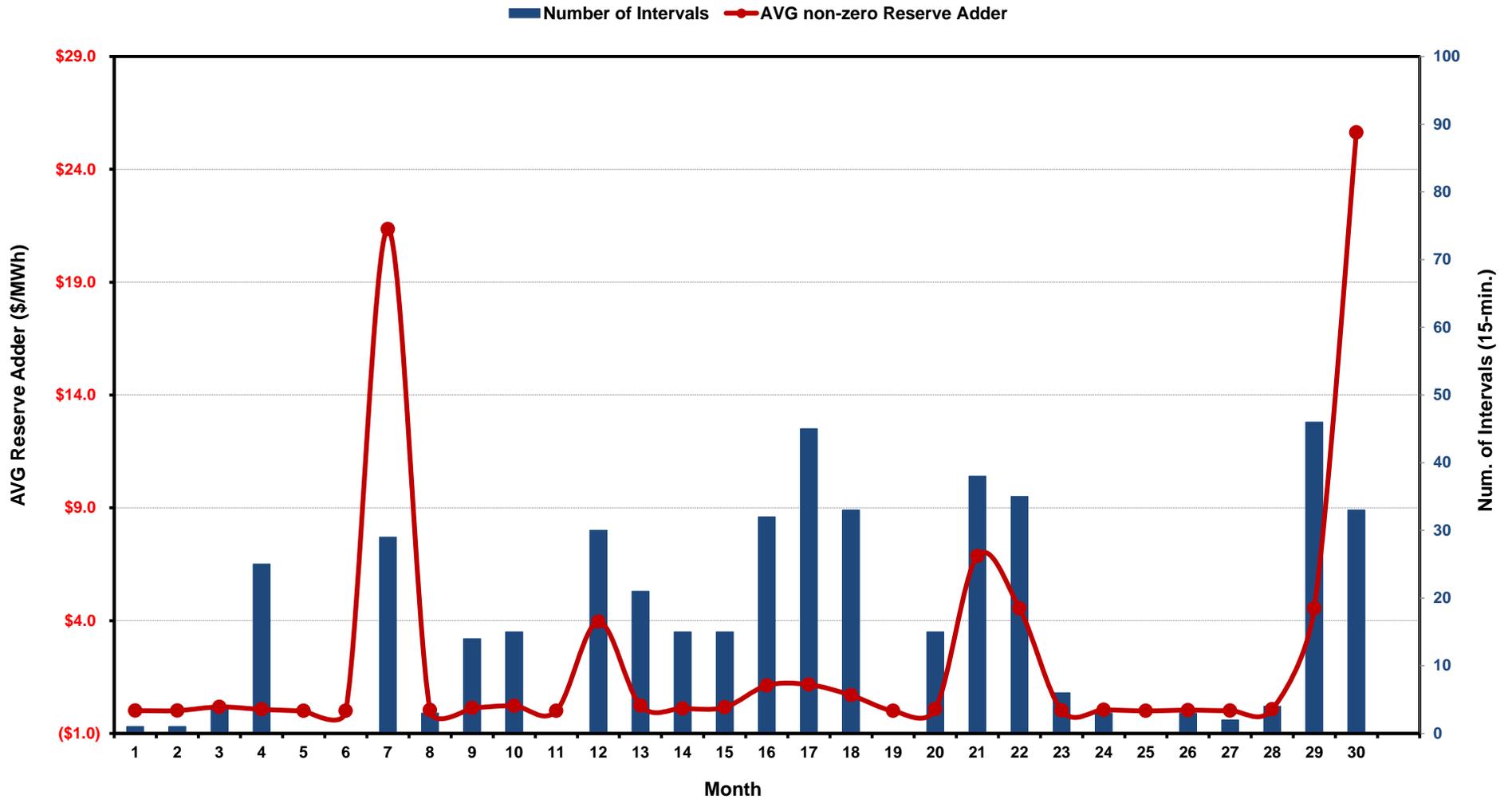
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Daily Average Reserve Adder Value and Duration

Apr-2015



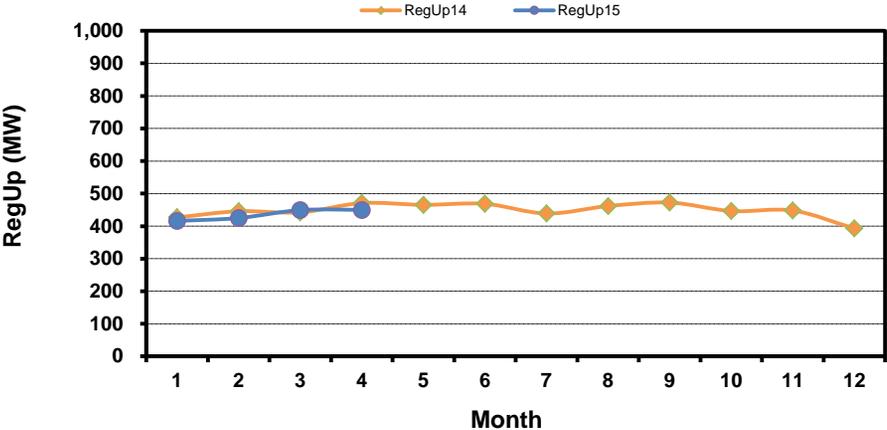
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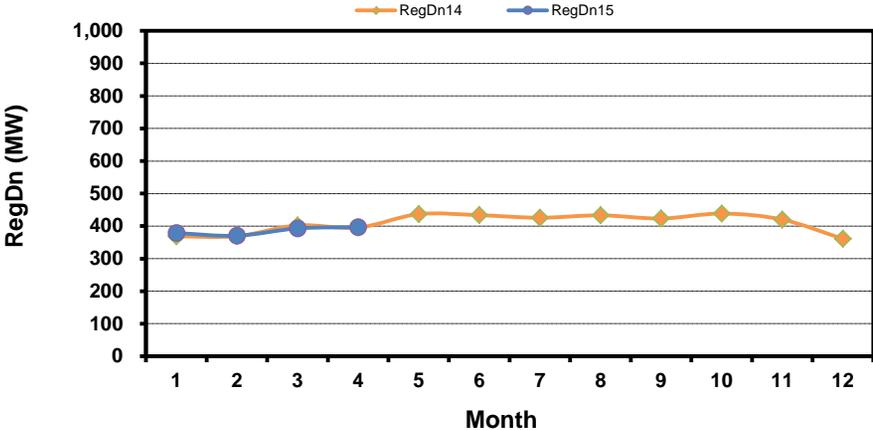
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Monthly Average of Ancillary Services Required MW

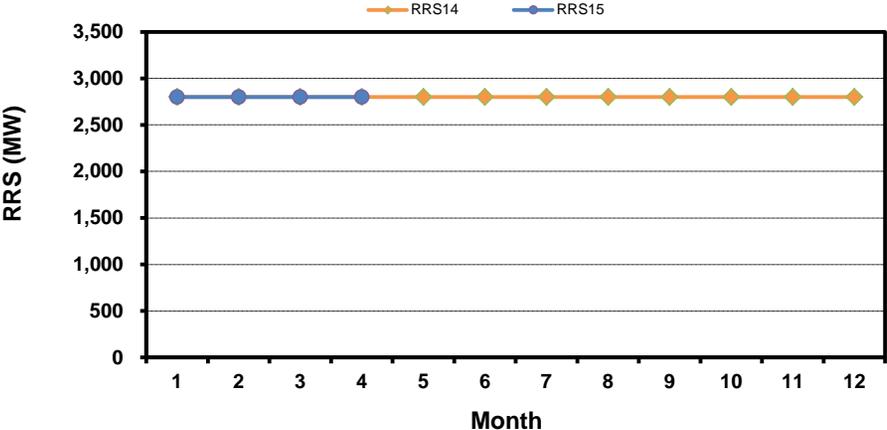
Regulation Up



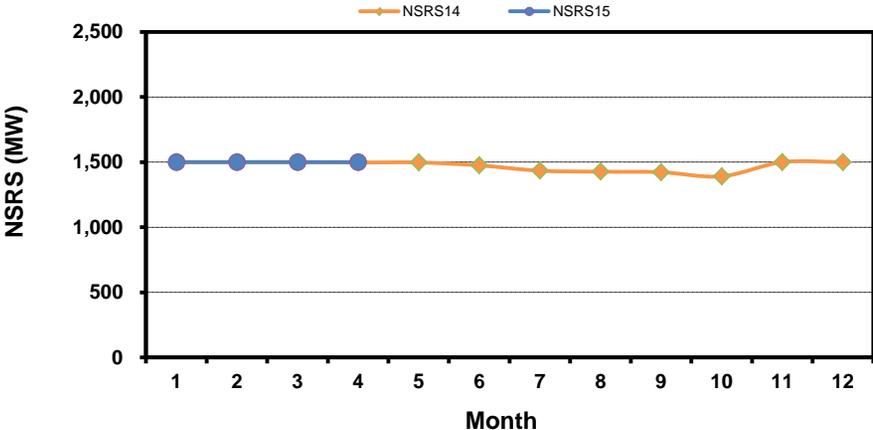
Regulation Down



Responsive Reserve



Non-Spin Reserve



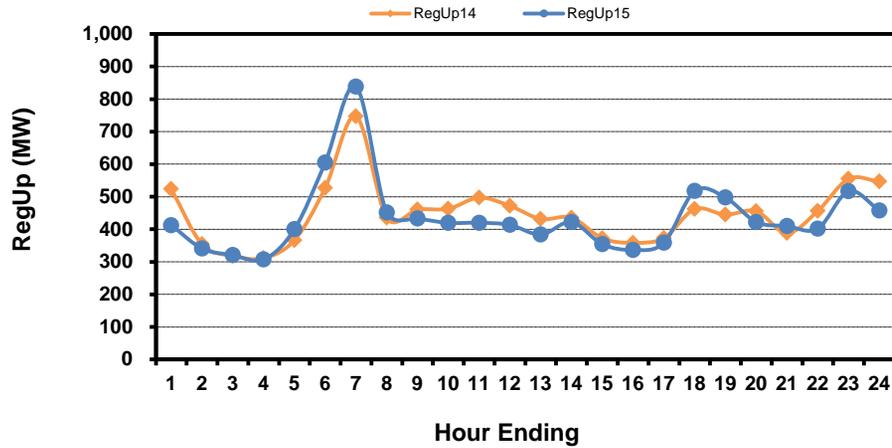
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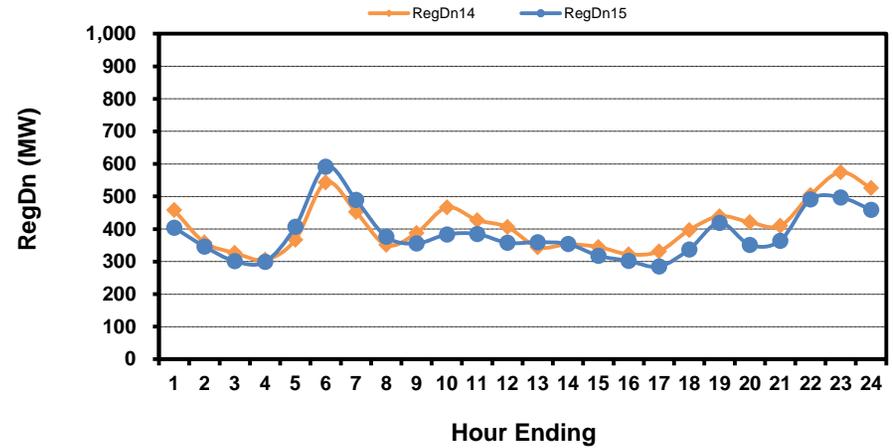
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Hourly Average of Ancillary Services Required MW

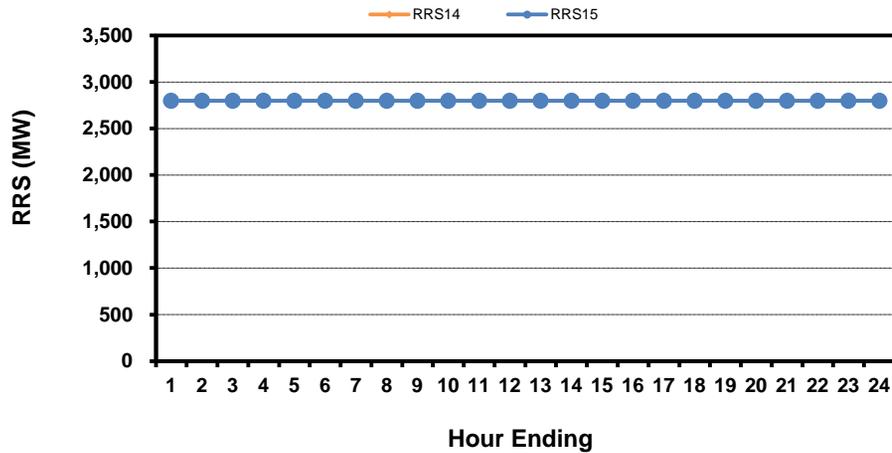
Regulation Up



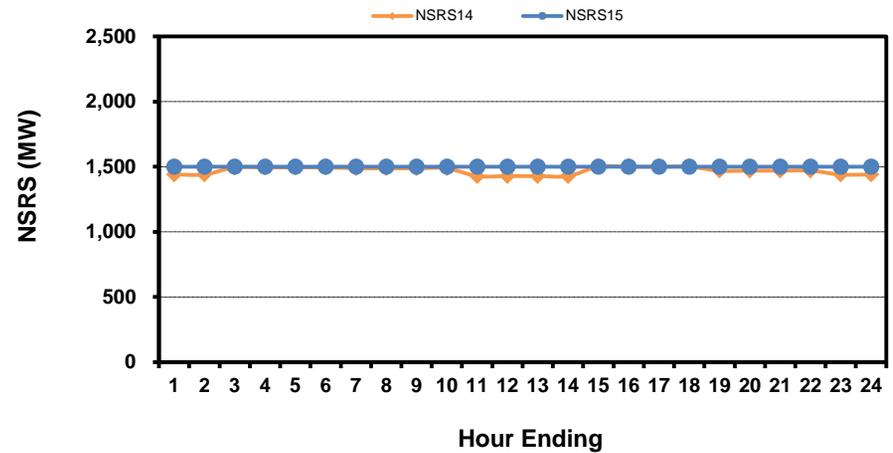
Regulation Down



Responsive Reserve



Non-Spin Reserve



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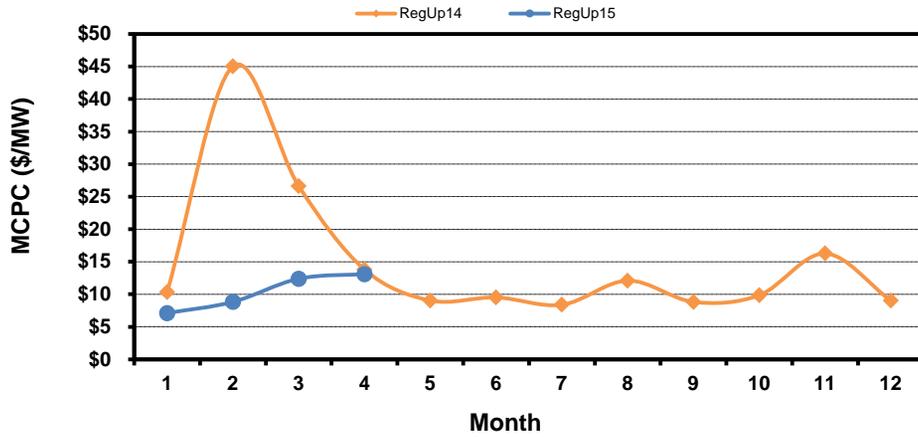
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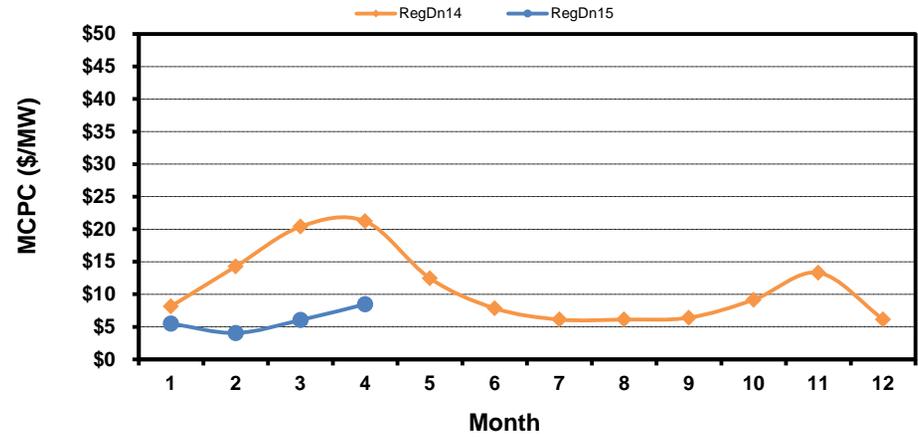
Monthly Average Ancillary Services Price

(weighted by A/S Quantities Required)

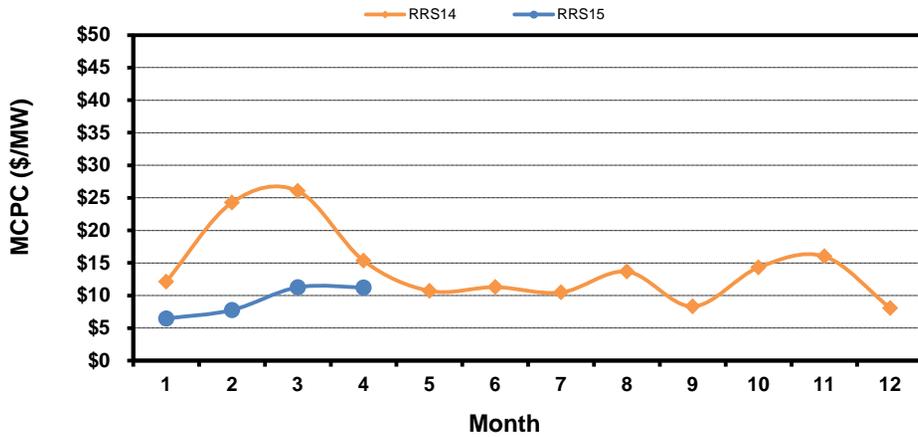
Regulation Up



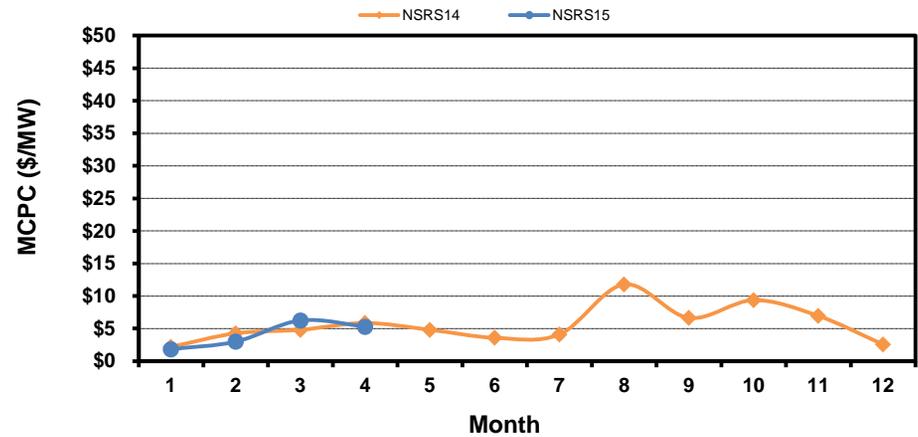
Regulation Down



Responsive Reserve



Non-Spin Reserve

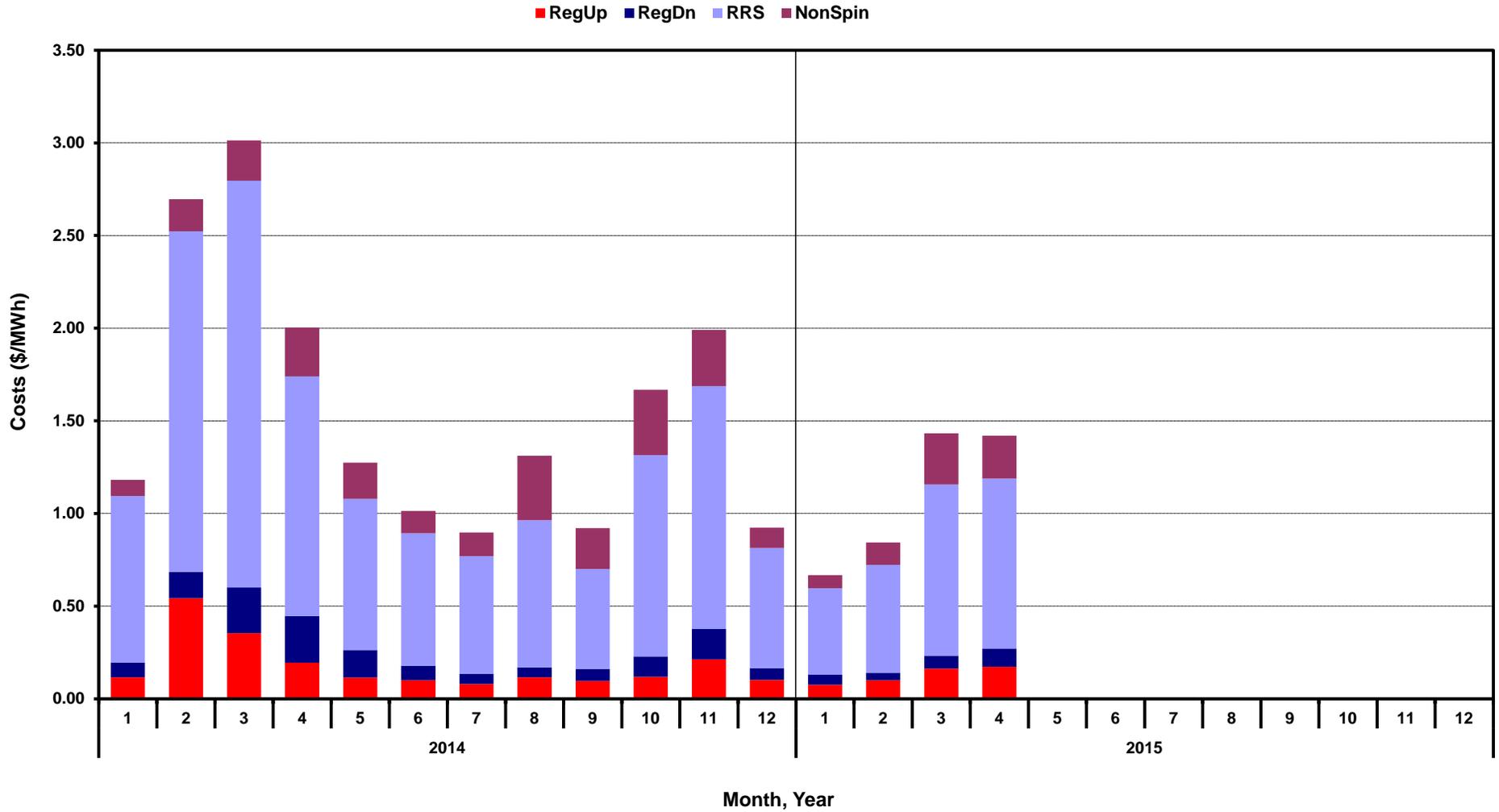


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Monthly Average A/S Cost per MWh Load

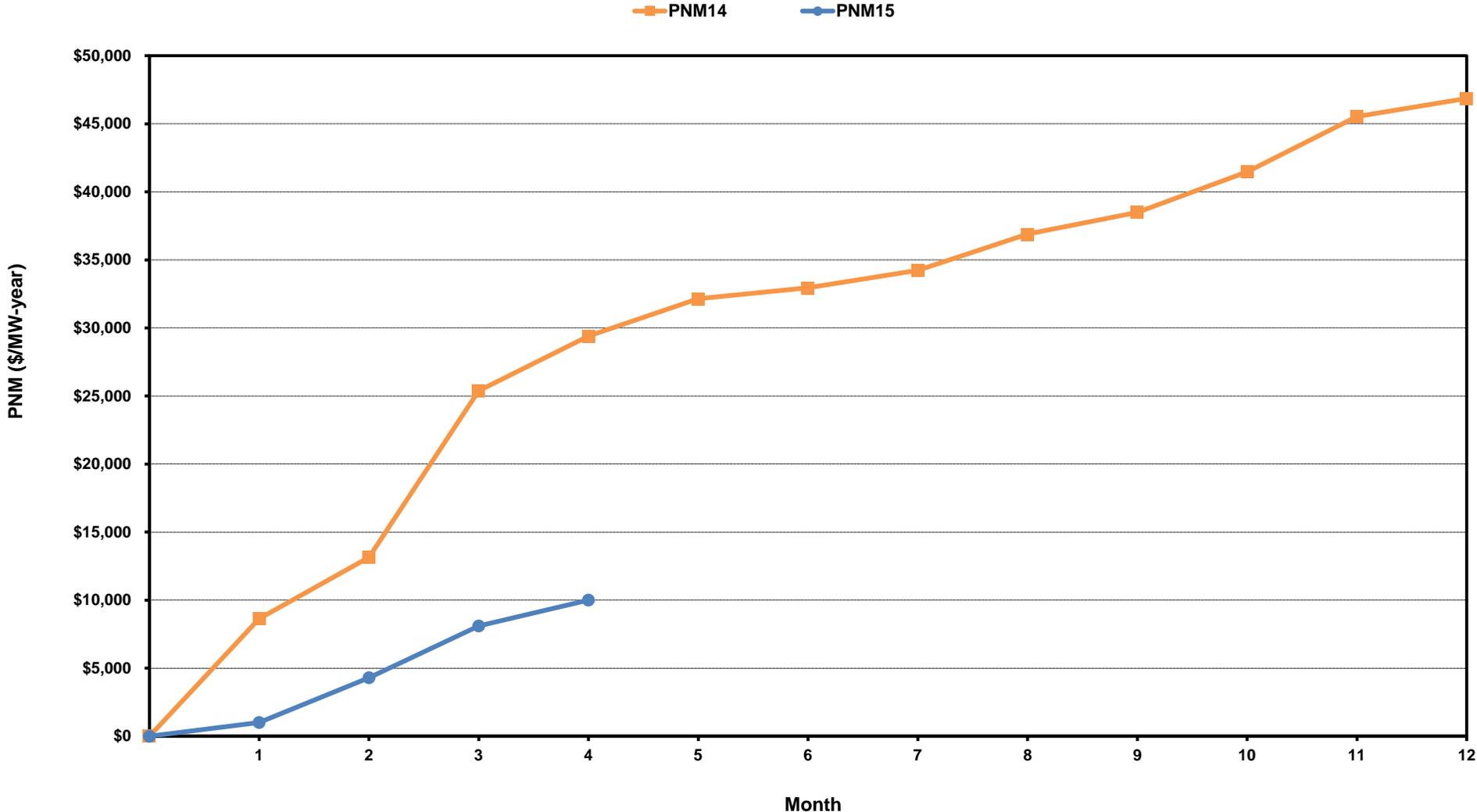


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ERCOT-Wide Cumulative Peaker Net Margin

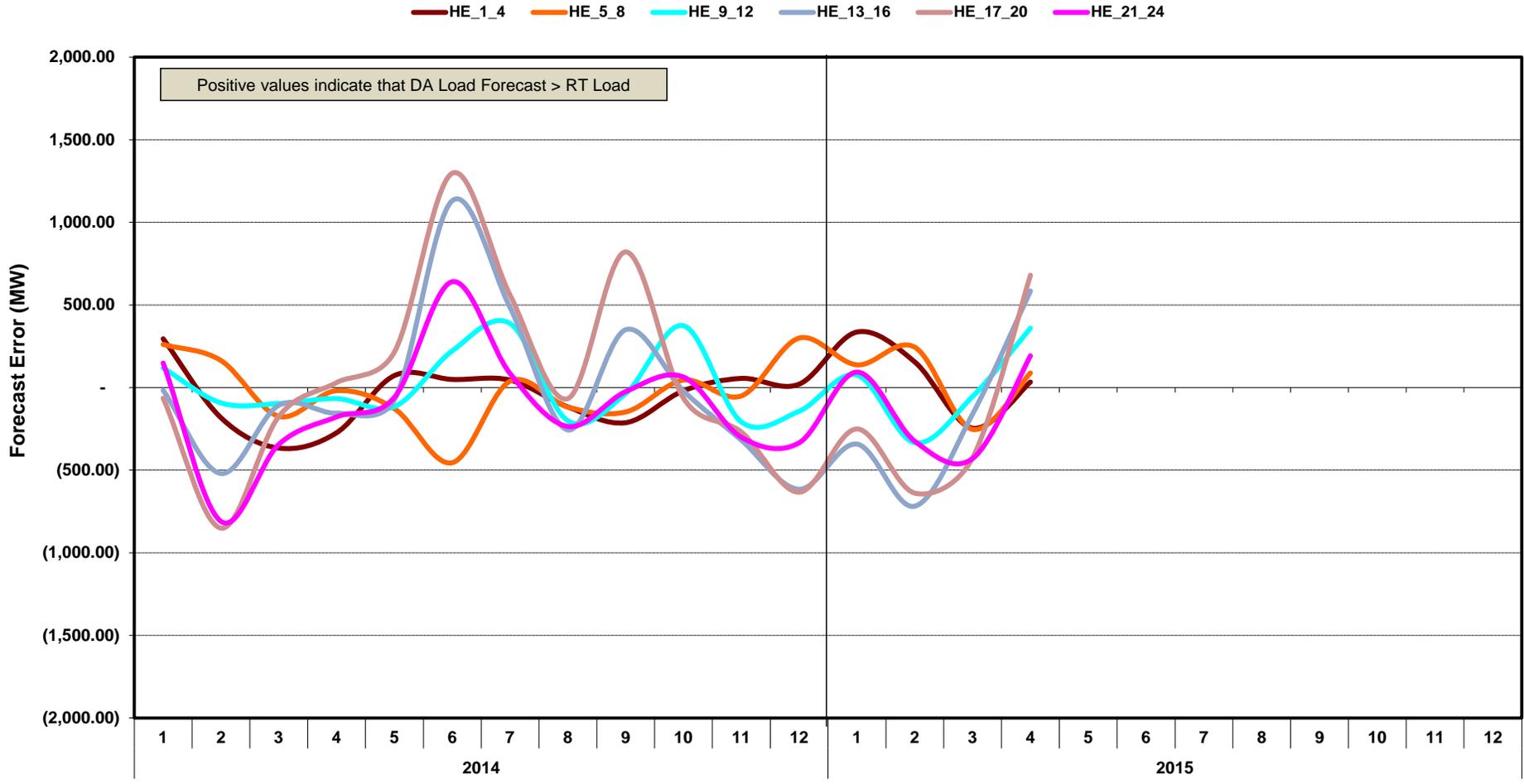


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DA vs. RT Load Forecast Error by Hour Ending

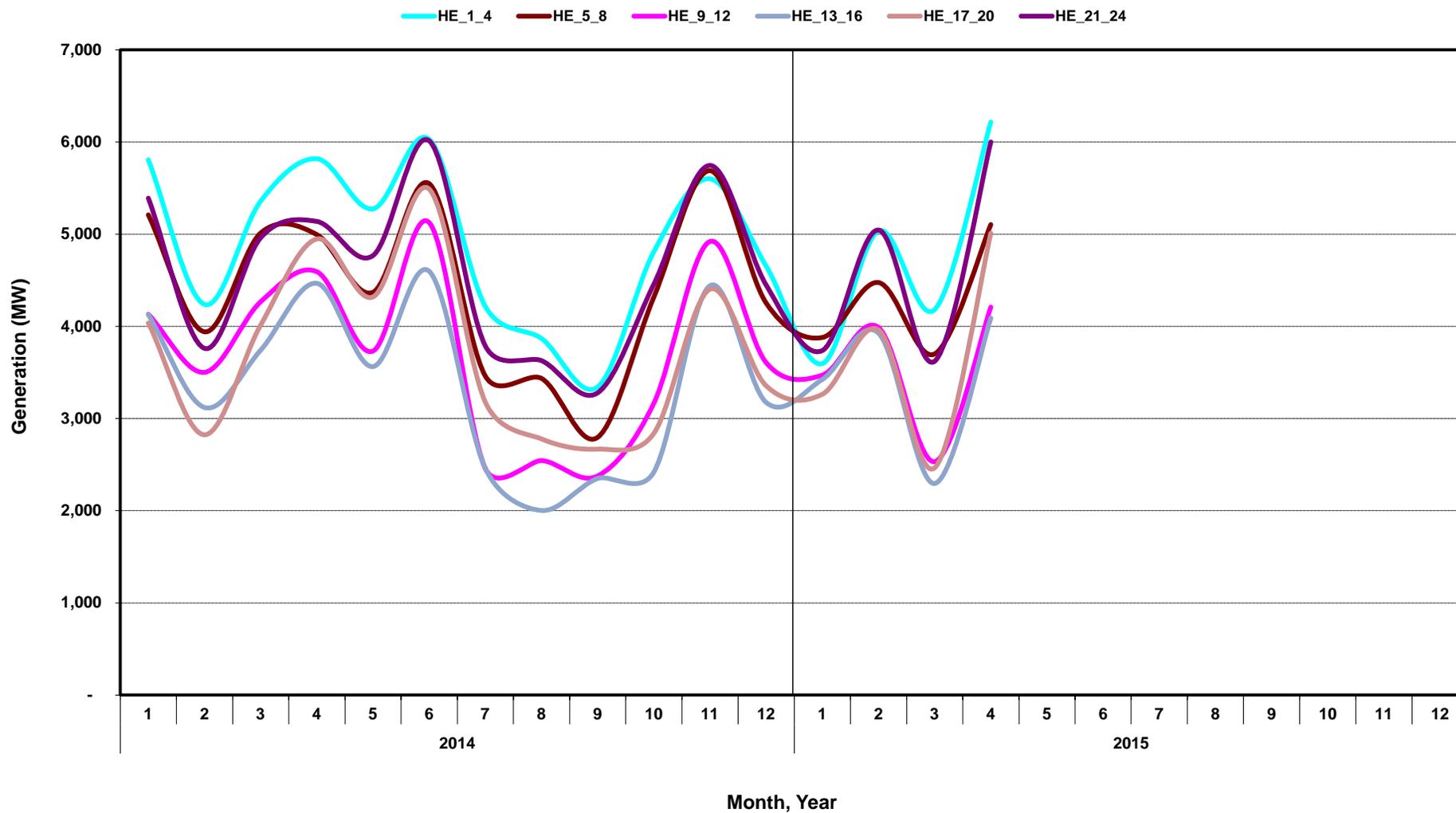


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Monthly Average of Wind Generation by Hour Ending



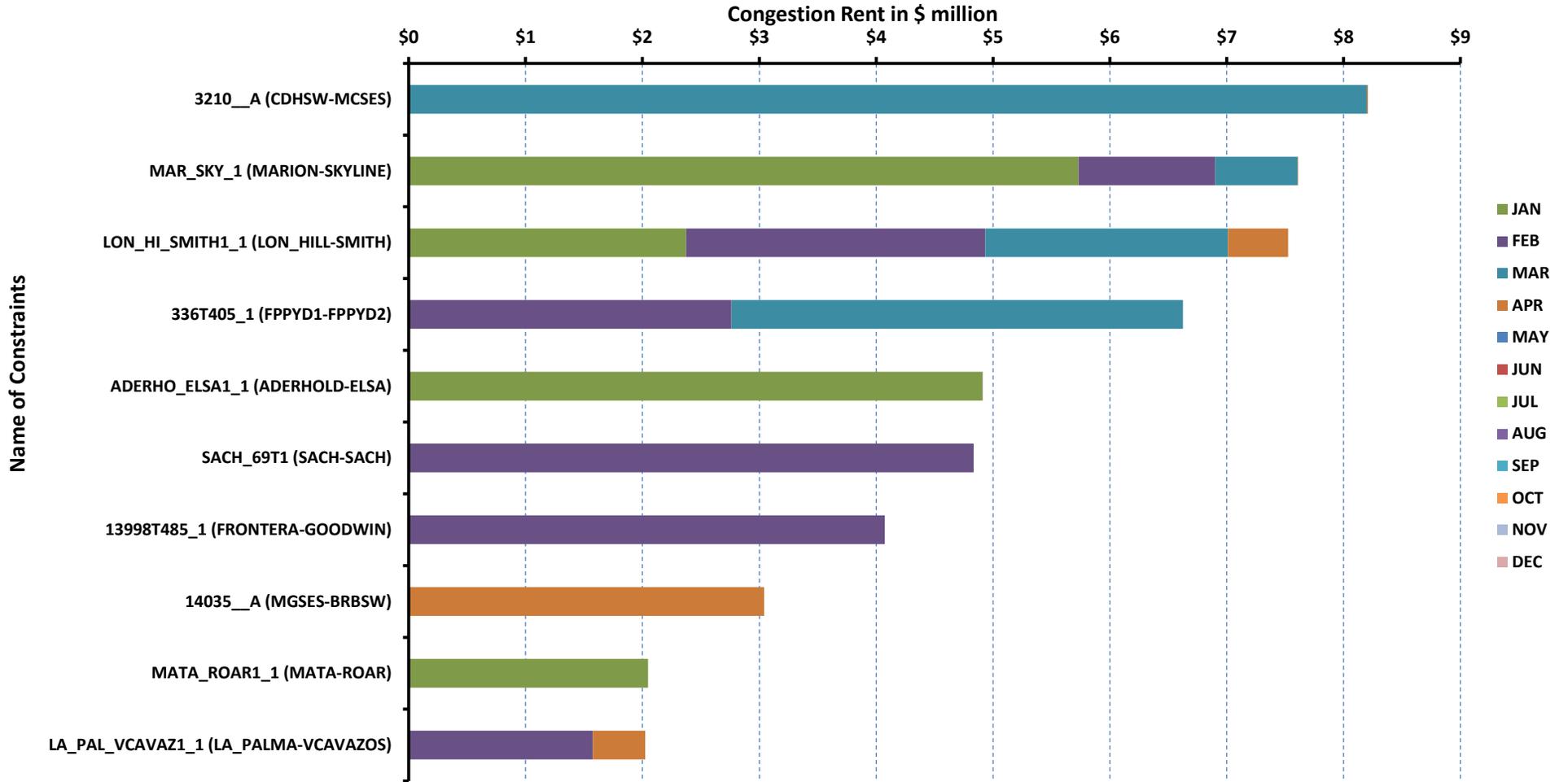
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RT Congestion Constraint Rankings - 1

Top 10 Constraints by Total Congestion Rent



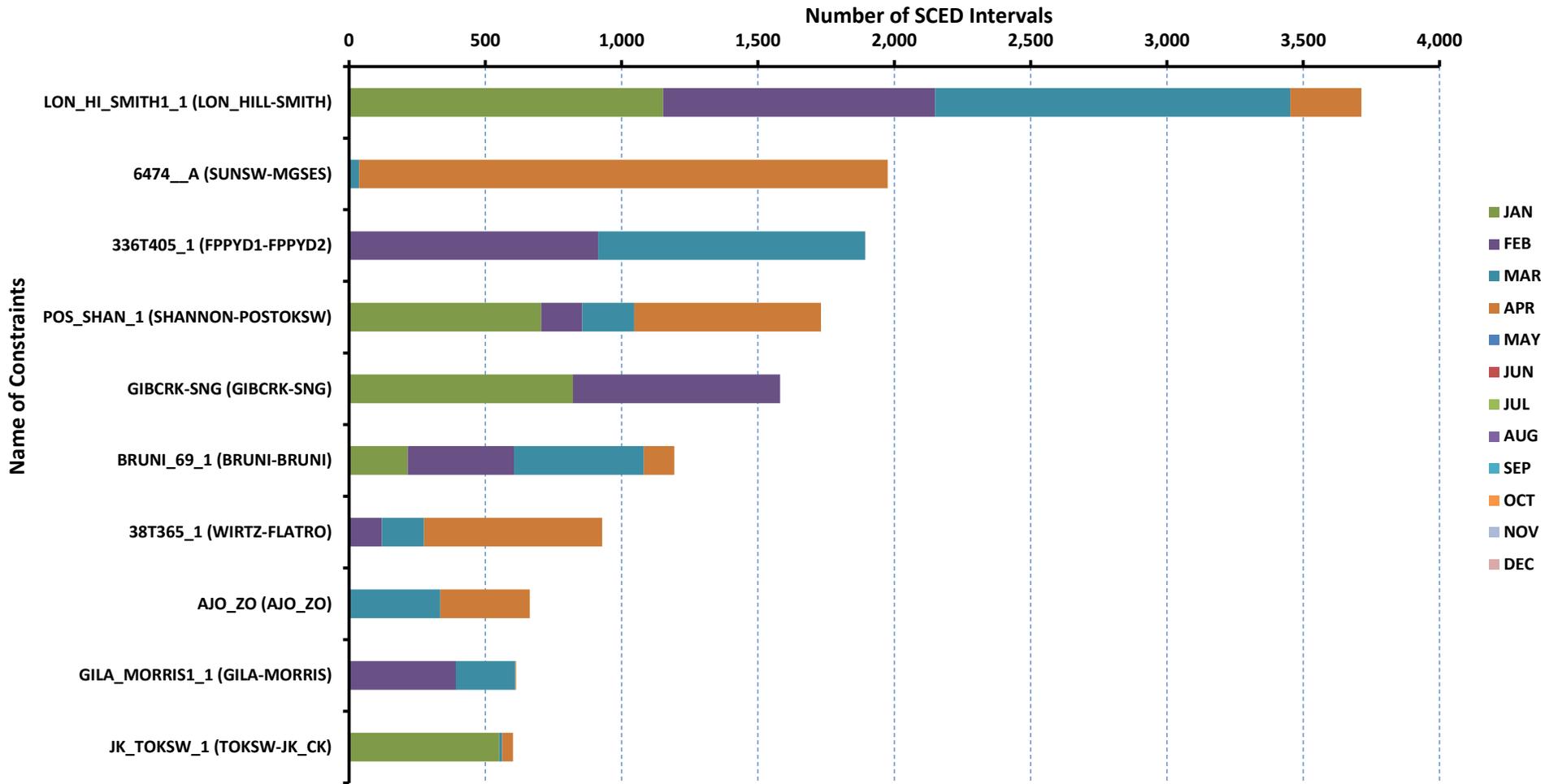
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RT Congestion Constraint Rankings - 2

Top 10 Constraints by Binding Frequency



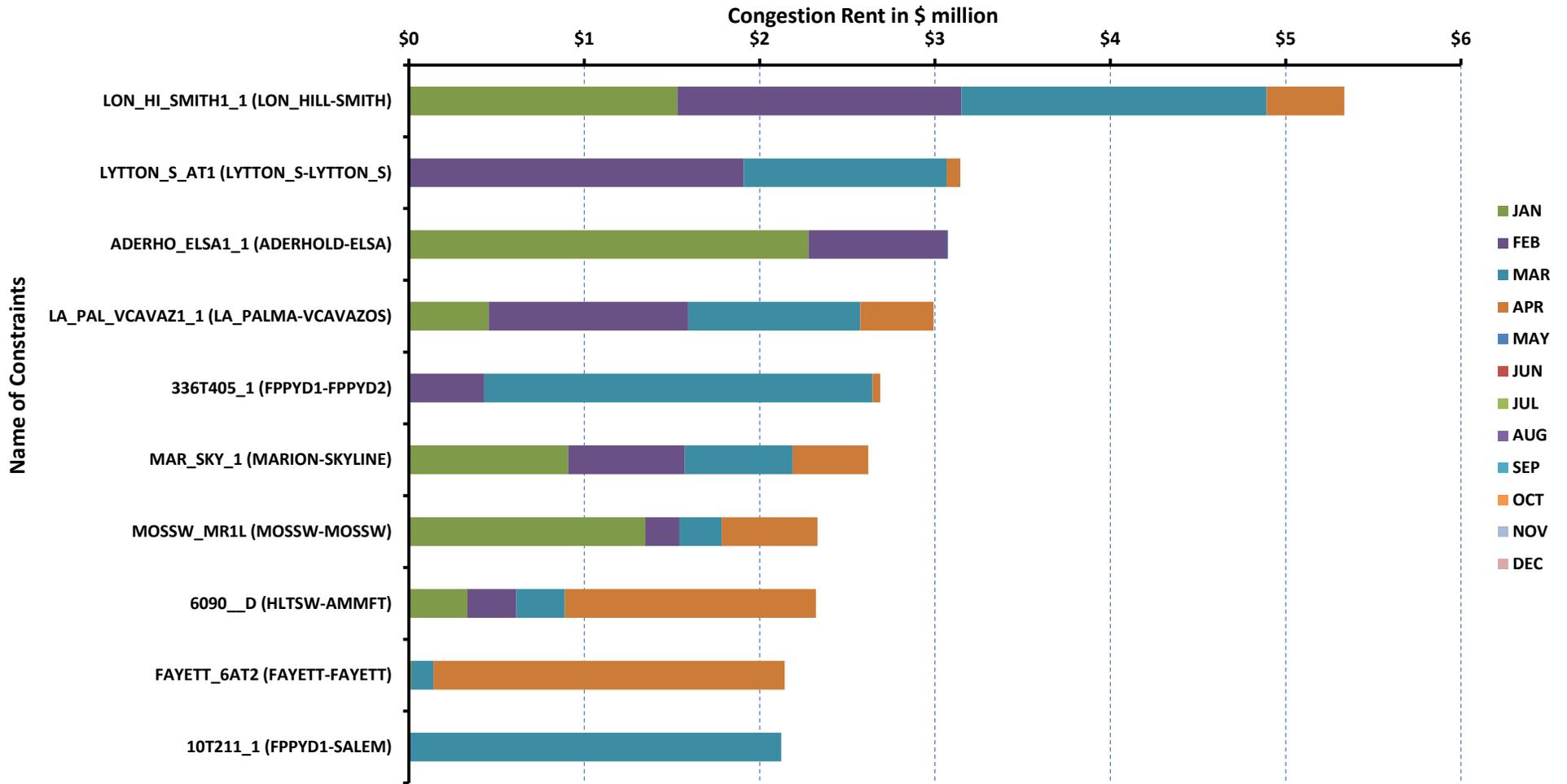
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DA Congestion Constraint Rankings - 1

Top 10 Constraints by Total Congestion Rent



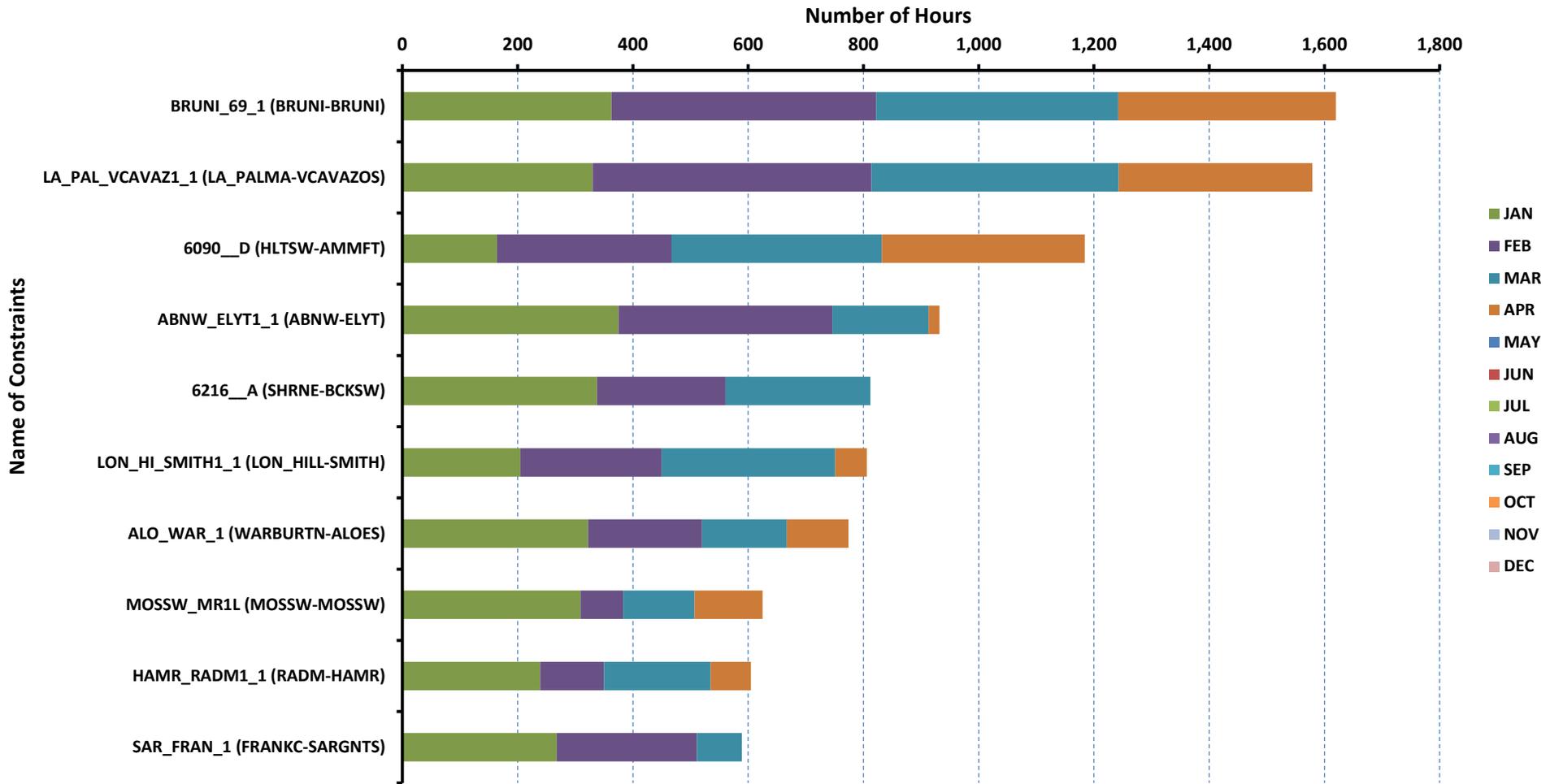
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DA Congestion Constraint Rankings - 2

Top 10 Constraints by Binding Frequency



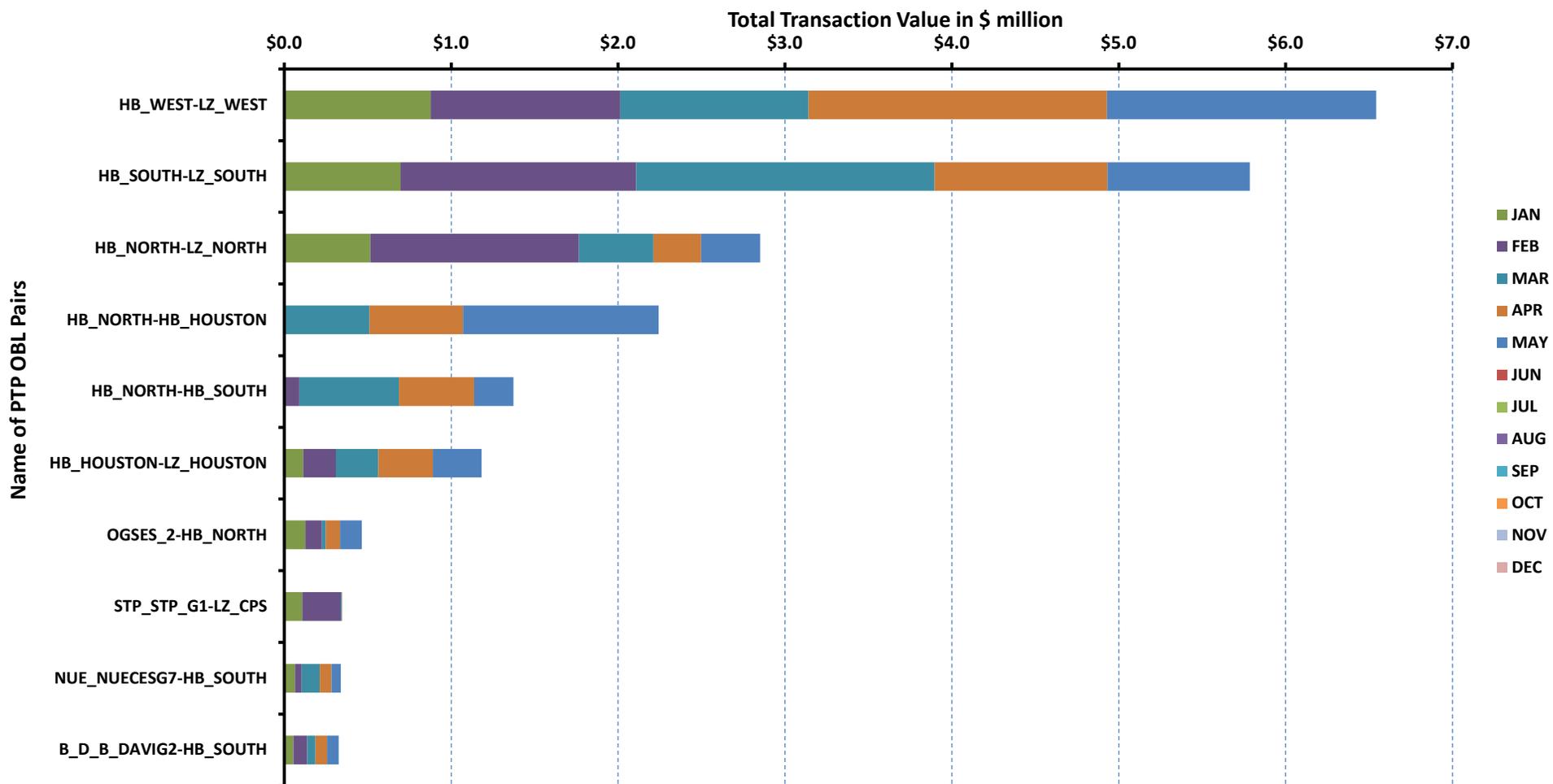
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Top 10 CRR Pairs Ranked by Monthly Auction Values - 1

Top 10 PTP Obligations by Total Transaction Value



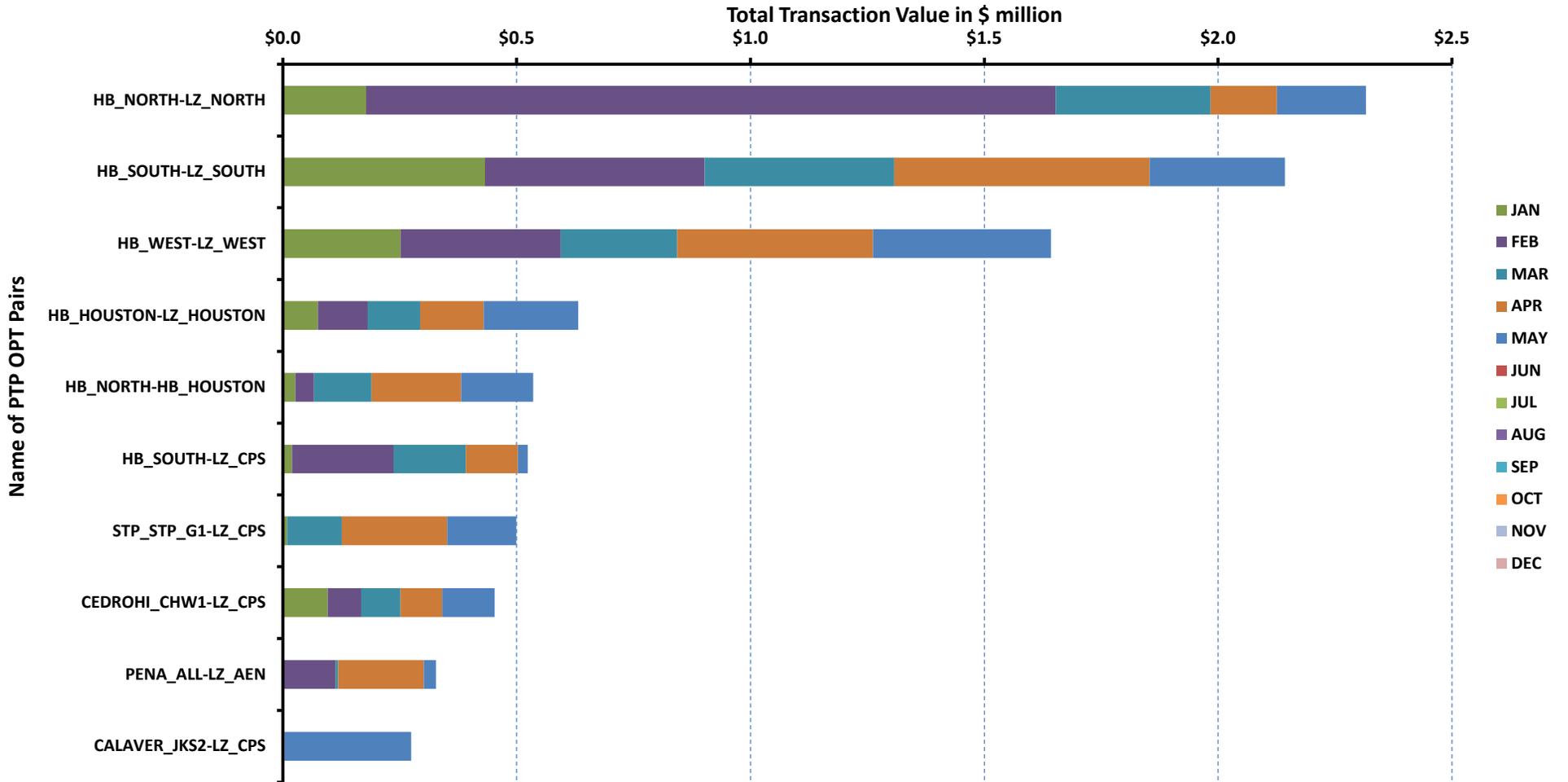
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Top 10 CRR Pairs Ranked by Monthly Auction Values - 2

Top 10 PTP Options by Total Transaction Value



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year	month	dam_spp	rtm_spp
2014	1	\$ 39.50	\$ 49.04
2014	2	\$ 58.39	\$ 53.46
2014	3	\$ 58.07	\$ 59.59
2014	4	\$ 44.25	\$ 43.45
2014	5	\$ 39.83	\$ 39.12
2014	6	\$ 42.60	\$ 37.31
2014	7	\$ 39.37	\$ 35.89
2014	8	\$ 43.77	\$ 38.37
2014	9	\$ 36.95	\$ 36.75
2014	10	\$ 41.43	\$ 39.45
2014	11	\$ 36.94	\$ 33.97
2014	12	\$ 27.41	\$ 26.02
2015	1	\$ 26.35	\$ 24.97
2015	2	\$ 25.90	\$ 28.28
2015	3	\$ 27.88	\$ 29.14
2015	4	\$ 25.31	\$ 24.74
2015	5		
2015	6		
2015	7		
2015	8		
2015	9		
2015	10		
2015	11		
2015	12		

year	month	gasprice	rtm_spp	HR_rtm	dam_spp	HR_dam
2014	1	\$ 4.52	\$ 49.04	10.84	\$ 39.50	8.73
2014	2	\$ 6.07	\$ 53.46	8.81	\$ 58.39	9.62
2014	3	\$ 4.75	\$ 59.59	12.53	\$ 58.07	12.21
2014	4	\$ 4.58	\$ 43.45	9.49	\$ 44.25	9.67
2014	5	\$ 4.45	\$ 39.12	8.78	\$ 39.83	8.94
2014	6	\$ 4.61	\$ 37.31	8.10	\$ 42.60	9.25
2014	7	\$ 4.05	\$ 35.89	8.86	\$ 39.37	9.71
2014	8	\$ 3.92	\$ 38.37	9.78	\$ 43.77	11.16
2014	9	\$ 3.92	\$ 36.75	9.37	\$ 36.95	9.42
2014	10	\$ 3.72	\$ 39.45	10.60	\$ 41.43	11.14
2014	11	\$ 4.01	\$ 33.97	8.48	\$ 36.94	9.22
2014	12	\$ 3.27	\$ 26.02	7.95	\$ 27.41	8.38
2015	1	\$ 2.92	\$ 24.97	8.54	\$ 26.35	9.01
2015	2	\$ 2.68	\$ 28.28	10.56	\$ 25.90	9.67
2015	3	\$ 2.70	\$ 29.14	10.80	\$ 27.88	10.33
2015	4	\$ 2.56	\$ 24.74	9.65	\$ 25.31	9.88
2015	5					
2015	6					
2015	7					
2015	8					
2015	9					
2015	10					
2015	11					
2015	12					

YEAR	MONTH	DAY	Intervals	RS_Adder
2015	4	1	1	\$ 0.01
2015	4	2	1	\$ 0.01
2015	4	3	4	\$ 0.18
2015	4	4	25	\$ 0.07
2015	4	5	0	\$ -
2015	4	6	0	\$ -
2015	4	7	29	\$ 21.35
2015	4	8	3	\$ 0.03
2015	4	9	14	\$ 0.13
2015	4	10	15	\$ 0.22
2015	4	11	0	\$ -
2015	4	12	30	\$ 3.95
2015	4	13	21	\$ 0.23
2015	4	14	15	\$ 0.11
2015	4	15	15	\$ 0.16
2015	4	16	32	\$ 1.12
2015	4	17	45	\$ 1.16
2015	4	18	33	\$ 0.69
2015	4	19	0	\$ -
2015	4	20	15	\$ 0.07
2015	4	21	38	\$ 6.86
2015	4	22	35	\$ 4.54
2015	4	23	6	\$ 0.02
2015	4	24	3	\$ 0.04
2015	4	25	0	\$ -
2015	4	26	3	\$ 0.03
2015	4	27	2	\$ 0.01
2015	4	28	4	\$ 0.07
2015	4	29	46	\$ 4.55
2015	4	30	33	\$ 25.64

year	month	ASMW_REGDN	ASMW_NSPIN	ASMW_RRS	ASMW_REGUP
2014	1	368	1,500	2,800	427
2014	2	369	1,500	2,800	446
2014	3	402	1,500	2,800	442
2014	4	396	1,497	2,800	471
2014	5	437	1,497	2,800	465
2014	6	434	1,475	2,800	469
2014	7	426	1,434	2,800	439
2014	8	433	1,427	2,800	462
2014	9	423	1,423	2,800	472
2014	10	439	1,391	2,800	446
2014	11	420	1,500	2,800	448
2014	12	361	1,500	2,800	393
2015	1	379	1,500	2,800	416
2015	2	370	1,500	2,800	425
2015	3	393	1,500	2,800	449
2015	4	396	1,500	2,800	450

year	DELIVERY_HOUR	ASMW_REGDN	ASMW_NSPIN	ASMW_RRS	ASMW_REGUP
2014	1	458	1,440	2,800	524
2014	2	359	1,440	2,800	354
2014	3	327	1,494	2,800	318
2014	4	306	1,494	2,800	312
2014	5	367	1,494	2,800	366
2014	6	543	1,494	2,800	527
2014	7	453	1,488	2,800	747
2014	8	351	1,488	2,800	435
2014	9	388	1,488	2,800	461
2014	10	467	1,488	2,800	463
2014	11	427	1,428	2,800	497
2014	12	406	1,428	2,800	472
2014	13	344	1,428	2,800	432
2014	14	353	1,428	2,800	436
2014	15	345	1,500	2,800	372
2014	16	322	1,500	2,800	358
2014	17	331	1,500	2,800	373
2014	18	397	1,500	2,800	462
2014	19	439	1,469	2,800	445
2014	20	421	1,469	2,800	455
2014	21	410	1,469	2,800	388
2014	22	505	1,469	2,800	456
2014	23	574	1,440	2,800	555
2014	24	526	1,440	2,800	547
2015	1	404	1,500	2,800	413
2015	2	346	1,500	2,800	341
2015	3	301	1,500	2,800	321
2015	4	299	1,500	2,800	307
2015	5	407	1,500	2,800	400
2015	6	592	1,500	2,800	605
2015	7	490	1,500	2,800	839
2015	8	376	1,500	2,800	451
2015	9	356	1,500	2,800	433
2015	10	383	1,500	2,800	420
2015	11	385	1,500	2,800	420
2015	12	358	1,500	2,800	414
2015	13	359	1,500	2,800	384
2015	14	354	1,500	2,800	422
2015	15	318	1,500	2,800	354
2015	16	302	1,500	2,800	337
2015	17	285	1,500	2,800	359
2015	18	338	1,500	2,800	518
2015	19	419	1,500	2,800	498
2015	20	351	1,500	2,800	422
2015	21	364	1,500	2,800	410
2015	22	491	1,500	2,800	402
2015	23	497	1,500	2,800	517
2015	24	460	1,500	2,800	458

year	month	MCPC_REGDN	MCPC_NSPIN	MCPC_RRS	MCPC_REGUP
2014	1	\$ 8.15	\$ 2.20	\$ 12.12	\$ 10.32
2014	2	\$ 14.28	\$ 4.28	\$ 24.28	\$ 45.03
2014	3	\$ 20.40	\$ 4.81	\$ 26.05	\$ 26.63
2014	4	\$ 21.21	\$ 5.86	\$ 15.35	\$ 13.80
2014	5	\$ 12.45	\$ 4.82	\$ 10.71	\$ 9.04
2014	6	\$ 7.84	\$ 3.59	\$ 11.29	\$ 9.51
2014	7	\$ 6.11	\$ 4.11	\$ 10.47	\$ 8.38
2014	8	\$ 6.12	\$ 11.79	\$ 13.67	\$ 12.10
2014	9	\$ 6.40	\$ 6.64	\$ 8.33	\$ 8.82
2014	10	\$ 9.16	\$ 9.37	\$ 14.31	\$ 9.85
2014	11	\$ 13.31	\$ 6.95	\$ 16.01	\$ 16.26
2014	12	\$ 6.14	\$ 2.56	\$ 8.08	\$ 9.01
2015	1	\$ 5.49	\$ 1.84	\$ 6.47	\$ 7.10
2015	2	\$ 4.05	\$ 3.00	\$ 7.77	\$ 8.83
2015	3	\$ 6.04	\$ 6.26	\$ 11.27	\$ 12.39
2015	4	\$ 8.47	\$ 5.27	\$ 11.21	\$ 13.08
2015	5				
2015	6				
2015	7				
2015	8				
2015	9				
2015	10				
2015	11				
2015	12				

year	month	AScost_REGDN	AScost_NSPIN	AScost_RRS	AScost_REGUP
2014	1	\$ 0.08	\$ 0.09	\$ 0.90	\$ 0.12
	2	\$ 0.14	\$ 0.17	\$ 1.84	\$ 0.54
	3	\$ 0.25	\$ 0.22	\$ 2.19	\$ 0.35
	4	\$ 0.25	\$ 0.26	\$ 1.29	\$ 0.20
	5	\$ 0.15	\$ 0.20	\$ 0.82	\$ 0.11
	6	\$ 0.08	\$ 0.12	\$ 0.72	\$ 0.10
	7	\$ 0.06	\$ 0.13	\$ 0.63	\$ 0.08
	8	\$ 0.05	\$ 0.35	\$ 0.79	\$ 0.12
	9	\$ 0.06	\$ 0.22	\$ 0.54	\$ 0.10
	10	\$ 0.11	\$ 0.35	\$ 1.09	\$ 0.12
	11	\$ 0.16	\$ 0.30	\$ 1.31	\$ 0.21
	12	\$ 0.06	\$ 0.11	\$ 0.65	\$ 0.10
2015	1	\$ 0.05	\$ 0.07	\$ 0.47	\$ 0.08
	2	\$ 0.04	\$ 0.12	\$ 0.58	\$ 0.10
	3	\$ 0.07	\$ 0.28	\$ 0.92	\$ 0.16
	4	\$ 0.10	\$ 0.23	\$ 0.92	\$ 0.17
	5				
	6				
	7				
	8				
	9				
	10				
	11				
	12				

year	month	pnm	pnm_accum
2014		\$ -	\$ -
2014	1	\$ 8,628	\$ 8,628
2014	2	\$ 4,513	\$ 13,142
2014	3	\$ 12,232	\$ 25,374
2014	4	\$ 4,025	\$ 29,399
2014	5	\$ 2,749	\$ 32,148
2014	6	\$ 803	\$ 32,951
2014	7	\$ 1,288	\$ 34,239
2014	8	\$ 2,656	\$ 36,895
2014	9	\$ 1,600	\$ 38,494
2014	10	\$ 2,975	\$ 41,469
2014	11	\$ 4,063	\$ 45,532
2014	12	\$ 1,345	\$ 46,877
2015		\$ -	\$ -
2015	1	\$ 1,010	\$ 1,010
2015	2	\$ 3,289	\$ 4,299
2015	3	\$ 3,801	\$ 8,099
2015	4	\$ 1,901	\$ 10,000
2015	5		
2015	6		
2015	7		
2015	8		
2015	9		
2015	10		
2015	11		
2015	12		

year	month	HE_1_4	HE_13_16	HE_17_20	HE_21_24	HE_5_8	HE_9_12
2014	1	295.09	(16.43)	(64.17)	148.12	261.13	118.43
	2	(182.99)	(520.15)	(851.12)	(810.35)	163.44	(93.02)
	3	(366.45)	(107.40)	(174.94)	(343.99)	(174.20)	(96.86)
	4	(273.46)	(154.90)	30.34	(177.42)	(18.89)	(66.78)
	5	72.77	(72.69)	215.55	(59.14)	(128.09)	(115.22)
	6	49.16	1,131.18	1,297.39	640.74	(454.87)	222.09
	7	45.09	484.34	559.22	84.72	38.71	387.67
	8	(117.03)	(256.24)	(66.57)	(235.55)	(118.07)	(201.01)
	9	(212.53)	350.15	821.30	(24.37)	(147.66)	(35.89)
	10	(19.03)	(20.80)	(64.71)	63.58	45.20	374.23
	11	55.57	(318.40)	(269.27)	(300.93)	(50.47)	(208.02)
	12	20.67	(615.58)	(633.45)	(334.32)	299.33	(143.23)
2015	1	336.03	(342.28)	(250.53)	93.44	137.44	75.46
	2	154.88	(718.24)	(639.31)	(324.92)	244.06	(334.07)
	3	(245.99)	(160.01)	(425.43)	(429.77)	(253.32)	(54.32)
	4	33.62	584.51	679.96	191.93	88.35	359.49
	5						
	6						
	7						
	8						
	9						
	10						
	11						
	12						

year	month	HE_1_4	HE_13_16	HE_17_20	HE_21_24	HE_5_8	HE_9_12
2014	1	5,808	4,127	4,036	5,391	5,211	4,131
	2	4,238	3,120	2,824	3,762	3,941	3,502
	3	5,359	3,742	4,014	4,962	5,013	4,267
	4	5,819	4,467	4,949	5,139	4,996	4,593
	5	5,275	3,564	4,320	4,769	4,371	3,733
	6	6,030	4,599	5,489	6,014	5,549	5,127
	7	4,216	2,459	3,177	3,787	3,461	2,457
	8	3,869	2,003	2,779	3,629	3,436	2,544
	9	3,344	2,350	2,668	3,280	2,796	2,377
	10	4,810	2,418	2,839	4,457	4,317	3,166
	11	5,601	4,442	4,404	5,746	5,689	4,922
	12	4,654	3,175	3,356	4,449	4,254	3,607
2015	1	3,597	3,424	3,264	3,738	3,879	3,471
	2	5,036	3,927	3,961	5,045	4,476	3,988
	3	4,182	2,295	2,465	3,622	3,701	2,532
	4	6,218	4,090	5,011	6,002	5,105	4,209
	5						
	6						
	7						
	8						
	9						
	10						
	11						
	12						

fr_option	year	pair	total_value	rank	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
N	2015	HB_WEST-LZ_WEST	\$ 6.54	1	\$ 0.88	\$ 1.14	\$ 1.13	\$ 1.79	\$ 1.61	0	0	0	0	0	0	0
N	2015	HB_SOUTH-LZ_SOUTH	\$ 5.78	2	\$ 0.70	\$ 1.41	\$ 1.79	\$ 1.04	\$ 0.85	0	0	0	0	0	0	0
N	2015	HB_NORTH-LZ_NORTH	\$ 2.85	3	\$ 0.51	\$ 1.25	\$ 0.45	\$ 0.29	\$ 0.35	0	0	0	0	0	0	0
N	2015	HB_NORTH-HB_HOUSTON	\$ 2.24	4	\$ -	\$ -	\$ 0.51	\$ 0.56	\$ 1.17	0	0	0	0	0	0	0
N	2015	HB_NORTH-HB_SOUTH	\$ 1.37	5	\$ -	\$ 0.09	\$ 0.60	\$ 0.45	\$ 0.23	0	0	0	0	0	0	0
N	2015	HB_HOUSTON-LZ_HOUSTON	\$ 1.18	6	\$ 0.11	\$ 0.19	\$ 0.26	\$ 0.33	\$ 0.29	0	0	0	0	0	0	0
N	2015	OGSES_2-HB_NORTH	\$ 0.46	7	\$ 0.13	\$ 0.10	\$ 0.02	\$ 0.09	\$ 0.13	0	0	0	0	0	0	0
N	2015	STP_STP_G1-LZ_CPS	\$ 0.34	8	\$ 0.11	\$ 0.23	\$ 0.01	\$ 0.00	\$ -	0	0	0	0	0	0	0
N	2015	NUE_NUECESG7-HB_SOUTH	\$ 0.34	9	\$ 0.06	\$ 0.04	\$ 0.11	\$ 0.07	\$ 0.06	0	0	0	0	0	0	0
N	2015	B_D_B_DAVIG2-HB_SOUTH	\$ 0.33	10	\$ 0.05	\$ 0.08	\$ 0.05	\$ 0.07	\$ 0.07	0	0	0	0	0	0	0
Y	2015	HB_NORTH-LZ_NORTH	\$ 2.32	1	\$ 0.18	\$ 1.47	\$ 0.33	\$ 0.14	\$ 0.19	0	0	0	0	0	0	0
Y	2015	HB_SOUTH-LZ_SOUTH	\$ 2.14	2	\$ 0.43	\$ 0.47	\$ 0.41	\$ 0.55	\$ 0.29	0	0	0	0	0	0	0
Y	2015	HB_WEST-LZ_WEST	\$ 1.64	3	\$ 0.25	\$ 0.34	\$ 0.25	\$ 0.42	\$ 0.38	0	0	0	0	0	0	0
Y	2015	HB_HOUSTON-LZ_HOUSTON	\$ 0.63	4	\$ 0.07	\$ 0.11	\$ 0.11	\$ 0.14	\$ 0.20	0	0	0	0	0	0	0
Y	2015	HB_NORTH-HB_HOUSTON	\$ 0.54	5	\$ 0.03	\$ 0.04	\$ 0.12	\$ 0.19	\$ 0.15	0	0	0	0	0	0	0
Y	2015	HB_SOUTH-LZ_CPS	\$ 0.52	6	\$ 0.02	\$ 0.22	\$ 0.15	\$ 0.11	\$ 0.02	0	0	0	0	0	0	0
Y	2015	STP_STP_G1-LZ_CPS	\$ 0.50	7	\$ 0.01	\$ -	\$ 0.12	\$ 0.23	\$ 0.15	0	0	0	0	0	0	0
Y	2015	CEDROHI_CHW1-LZ_CPS	\$ 0.45	8	\$ 0.10	\$ 0.07	\$ 0.08	\$ 0.09	\$ 0.11	0	0	0	0	0	0	0
Y	2015	PENA_ALL-LZ_AEN	\$ 0.33	9	\$ -	\$ 0.11	\$ 0.01	\$ 0.18	\$ 0.03	0	0	0	0	0	0	0
Y	2015	CALAVER_JKS2-LZ_CPS	\$ 0.27	10	\$ -	\$ -	\$ 0.00	\$ 0.00	\$ 0.27	0	0	0	0	0	0	0