

To the Public Utility Commission of Texas

ERCOT Wholesale Electricity Market Monthly Report

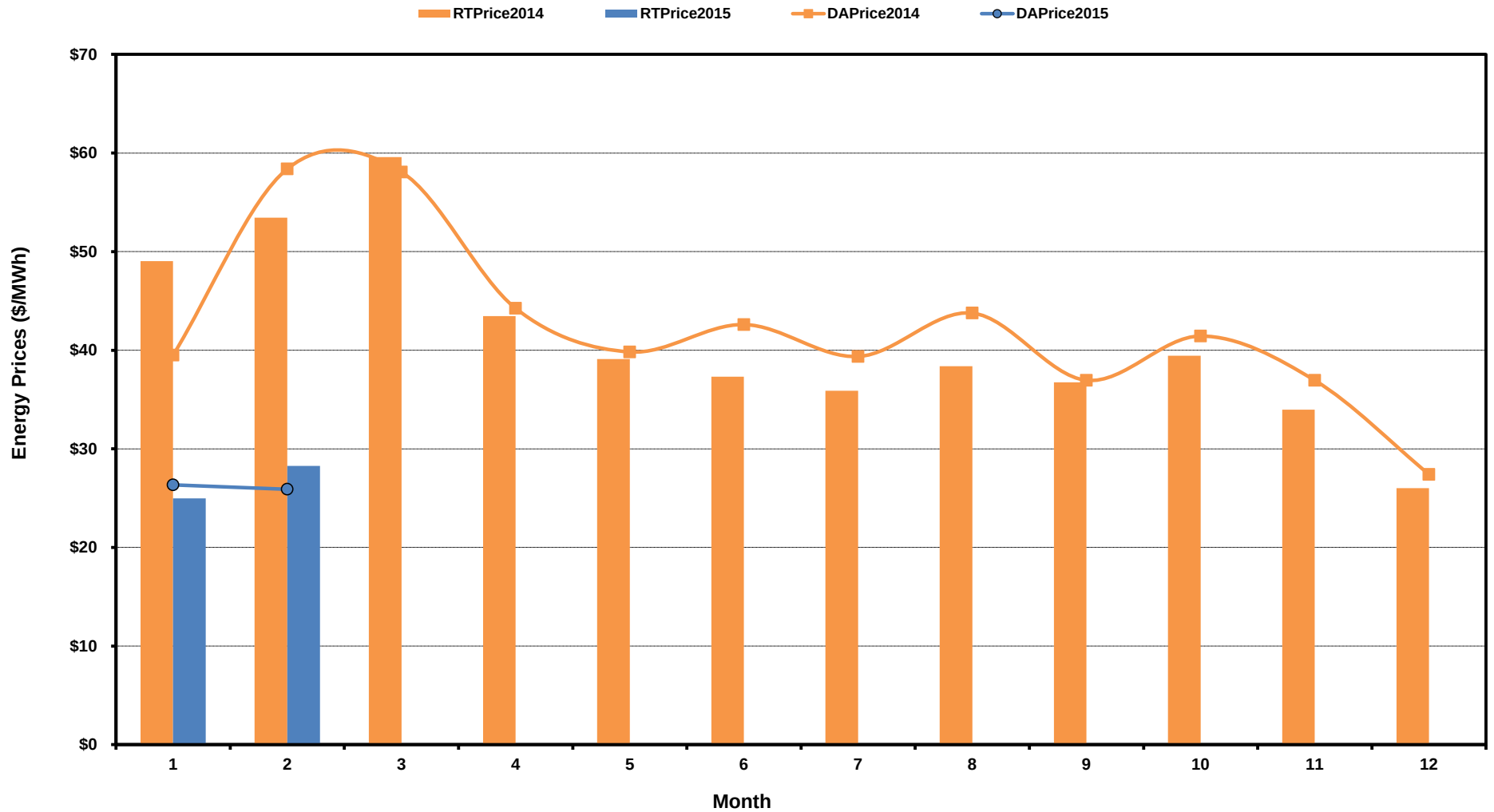
Monday, March 16, 2015

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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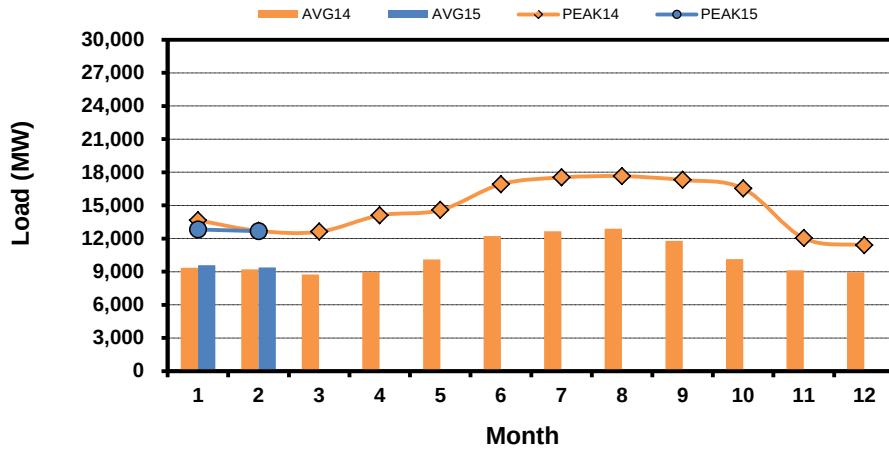
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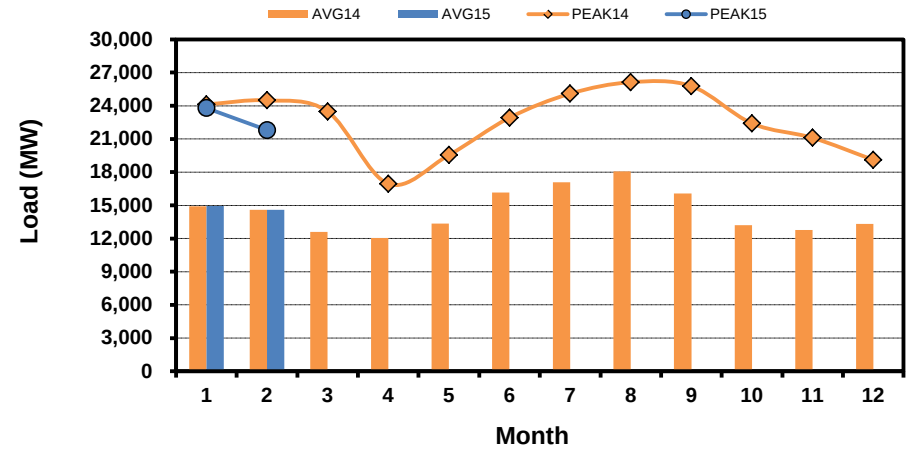
Load Zone Load Statistics

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

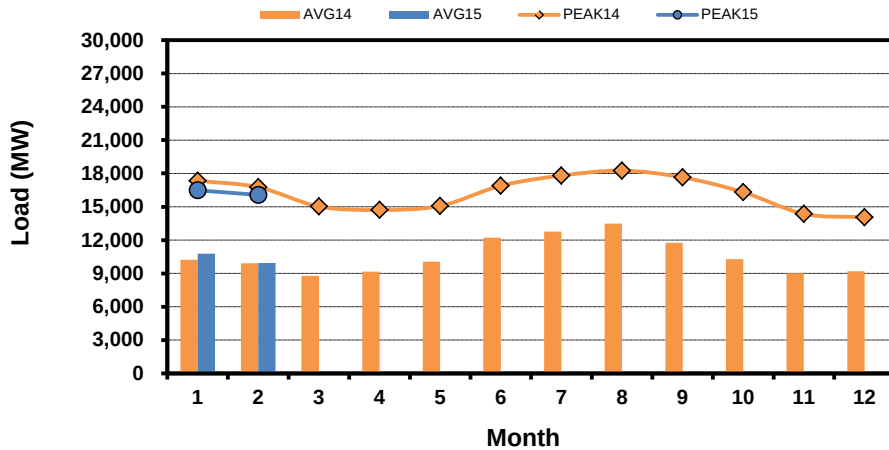
Houston Zone



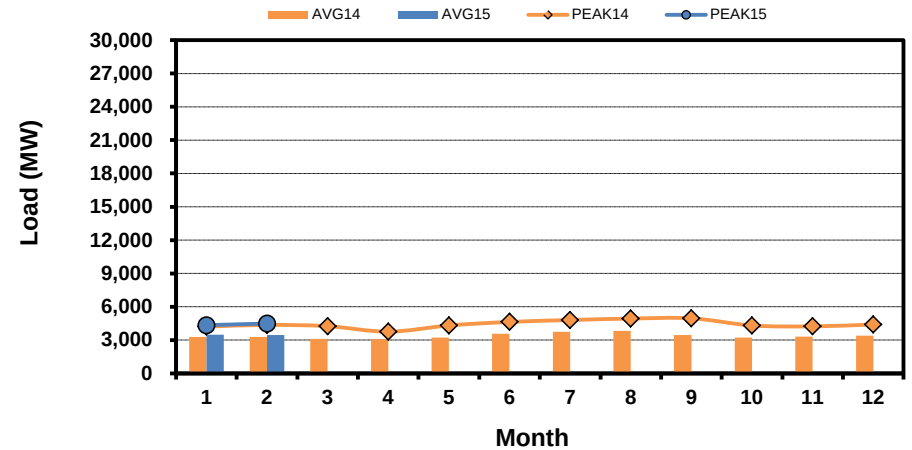
North Zone



South Zone



West Zone



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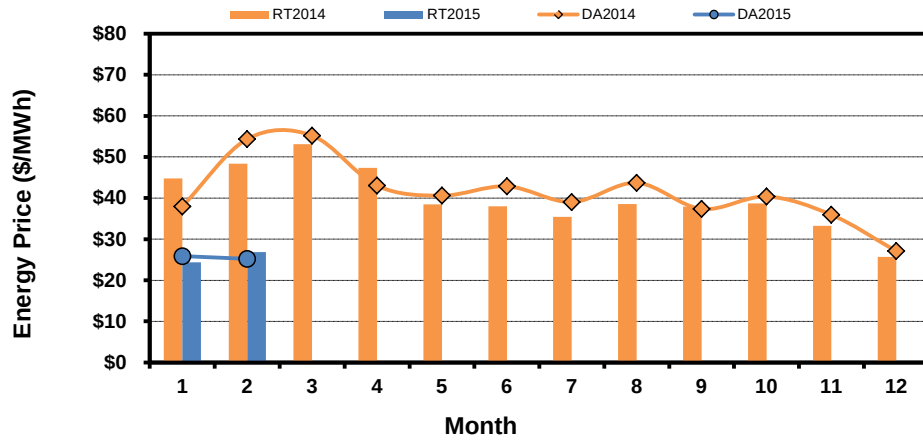
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Note: * Zonal load zone definition vs. Nodal comparable load zone definition: LZ_Houston=LZ_Houston; LZ_West=LZ_West; LZ_North=(LZ_North,LZ_RAYBN); LZ_South=(LZ_South,LZ_CPS,LZ_AEN,LZ_LCRA)

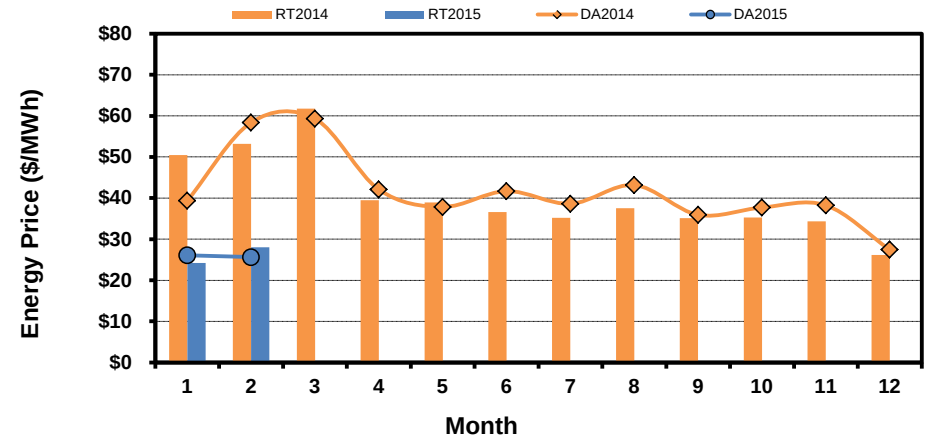
Load Zone Monthly Average Energy Price DA vs RT

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

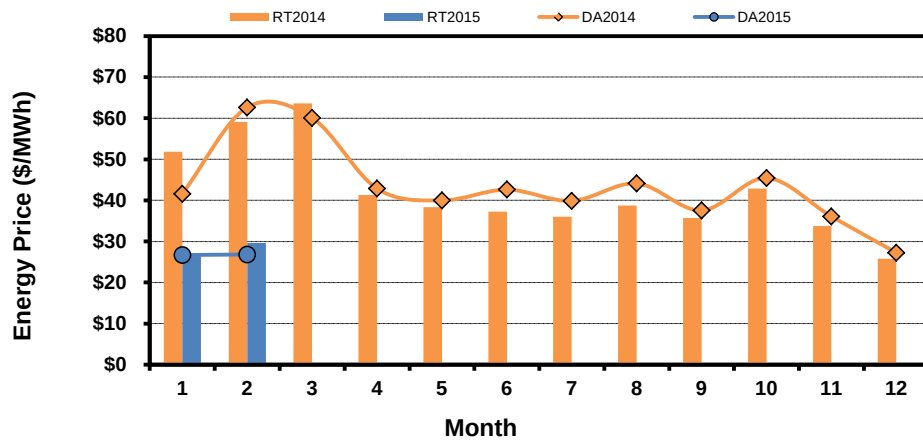
Houston Zone



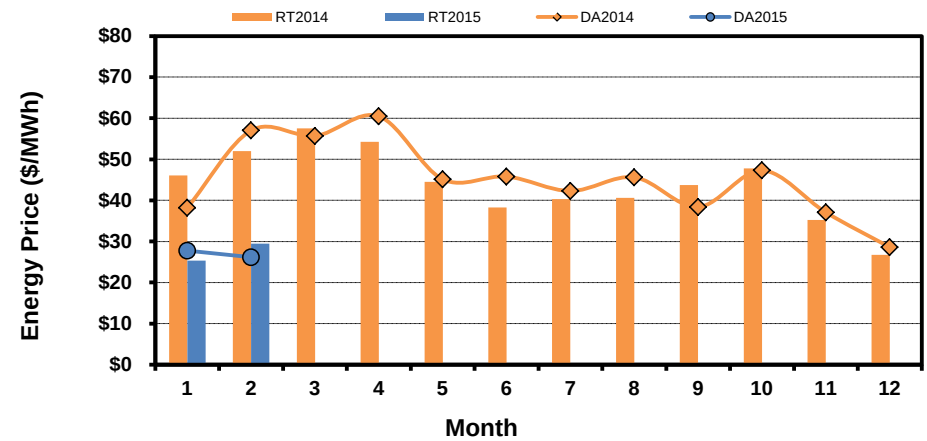
North Zone



South Zone



West Zone



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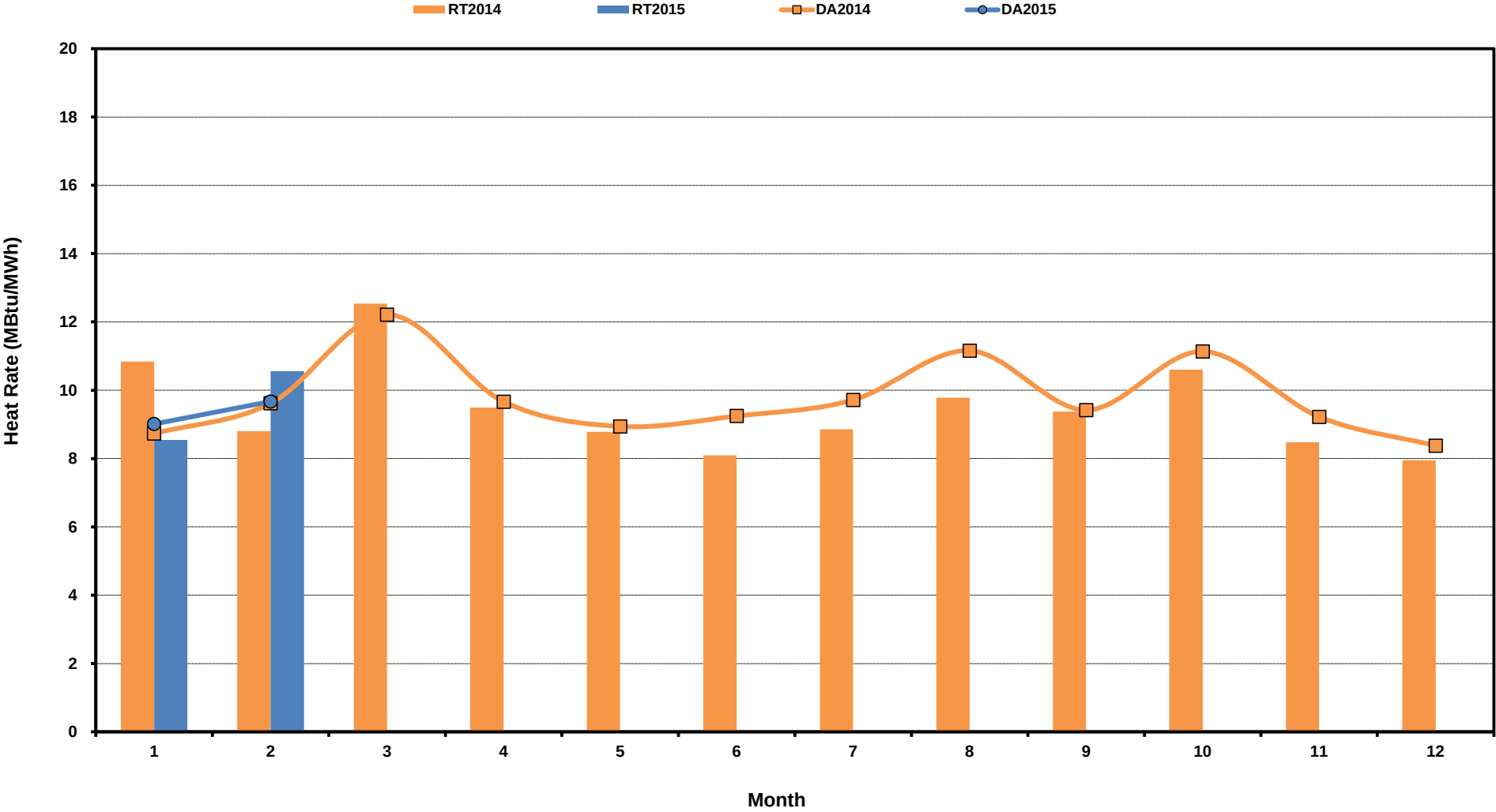
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Note: * Zonal load zone definition vs. Nodal comparable load zone definition: LZ_Houston=LZ_Houston; LZ_West=LZ_West; LZ_North=(LZ_North,LZ_RAYBN); LZ_South=(LZ_South,LZ_CPS,LZ_AEN,LZ_LCRA)

ERCOT-Wide Monthly Implied Heat Rate DA vs RT

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



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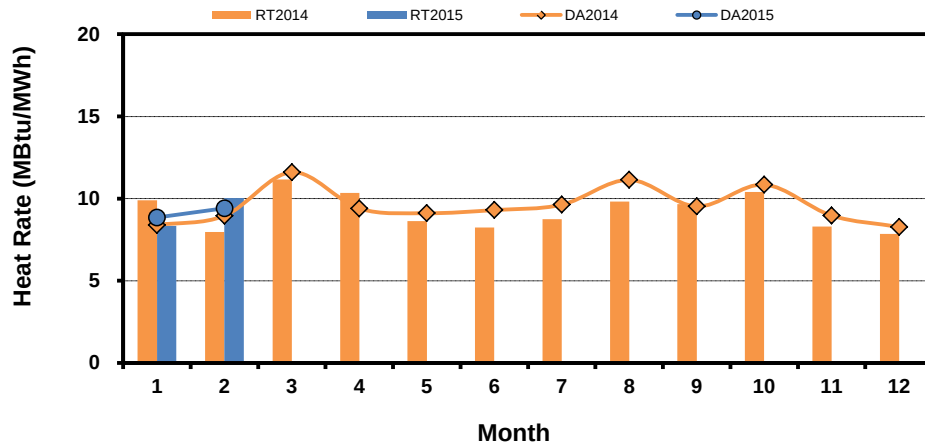
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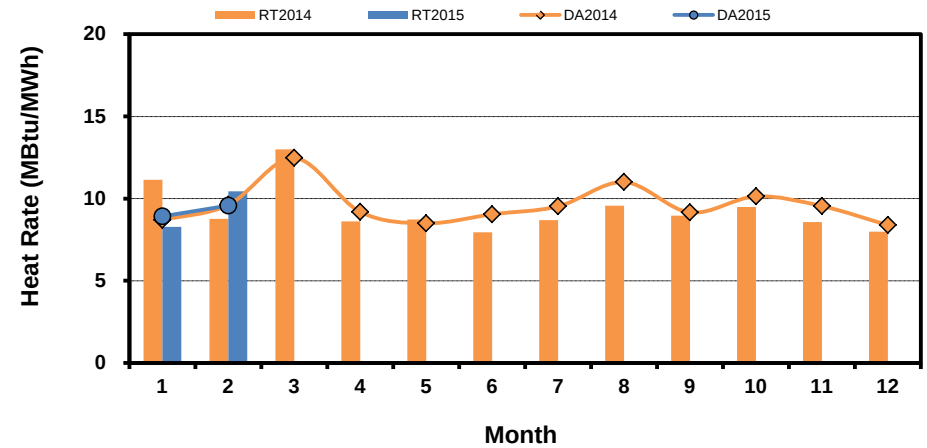
Load Zone Monthly Implied Heat Rate DA vs RT

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

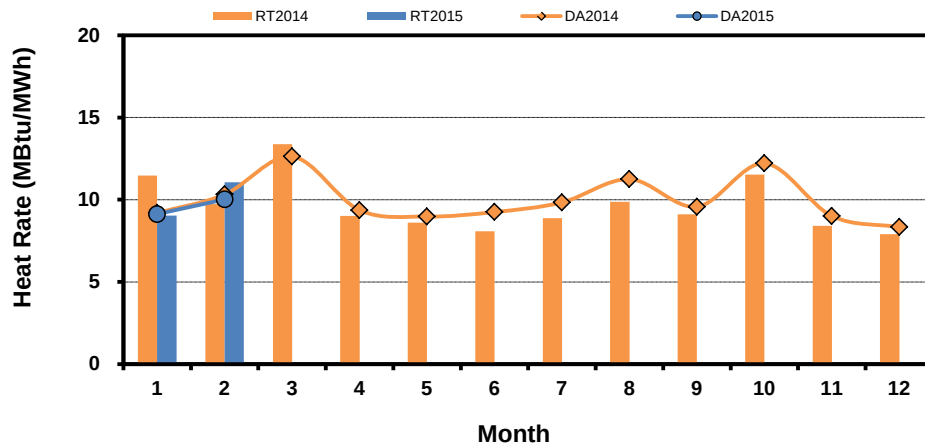
Houston Zone



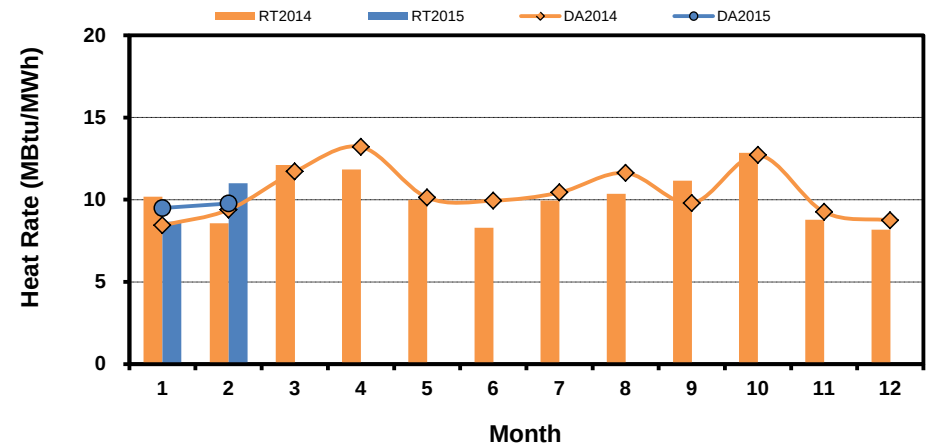
North Zone



South Zone



West Zone



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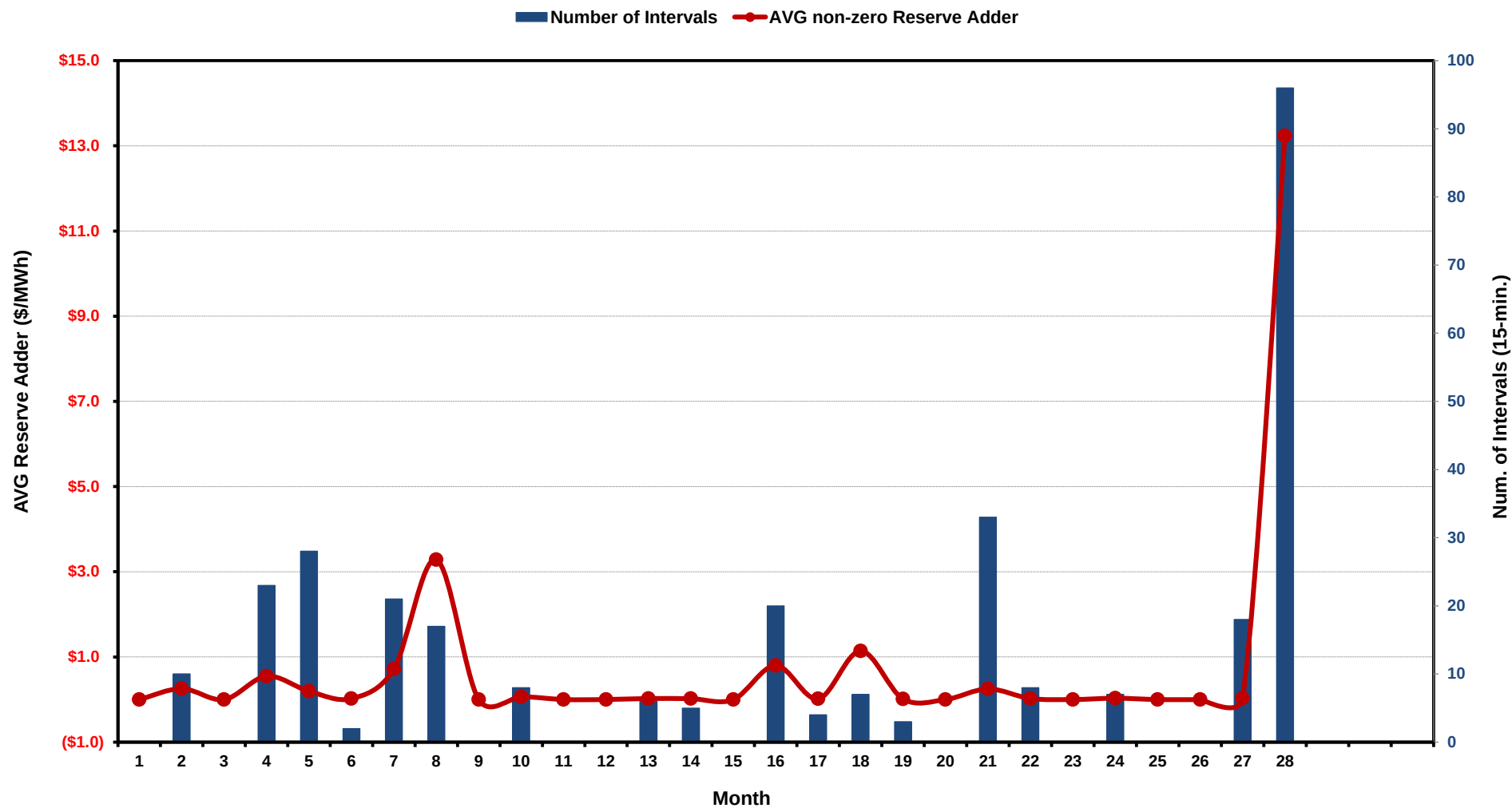
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Note: * Zonal load zone definition vs. Nodal comparable load zone definition: LZ_Houston=LZ_Houston; LZ_West=LZ_West; LZ_North=(LZ_North,LZ_RAYBN); LZ_South=(LZ_South,LZ_CPS,LZ_AEN,LZ_LCRA)

Daily Average Reserve Adder Value and Duration

Feb-2015

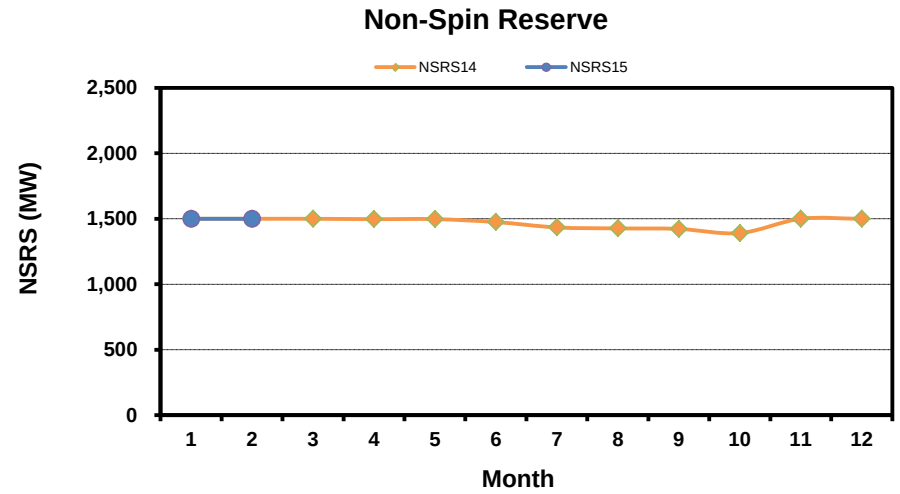
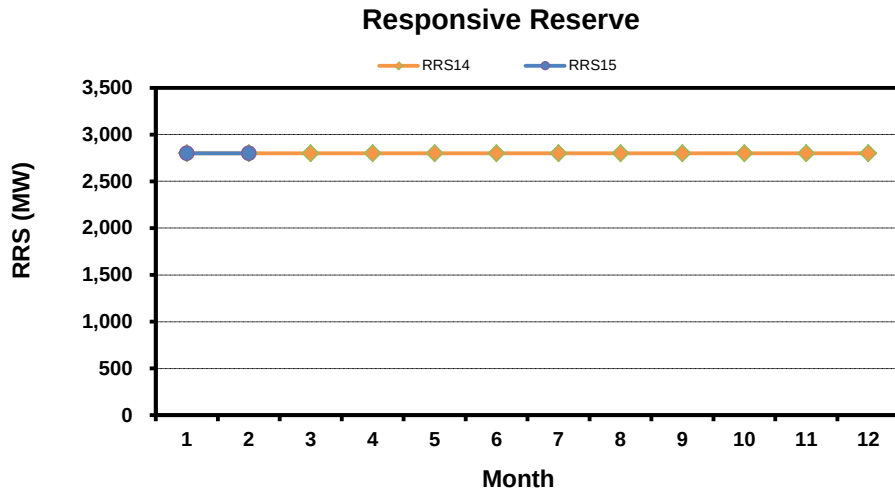
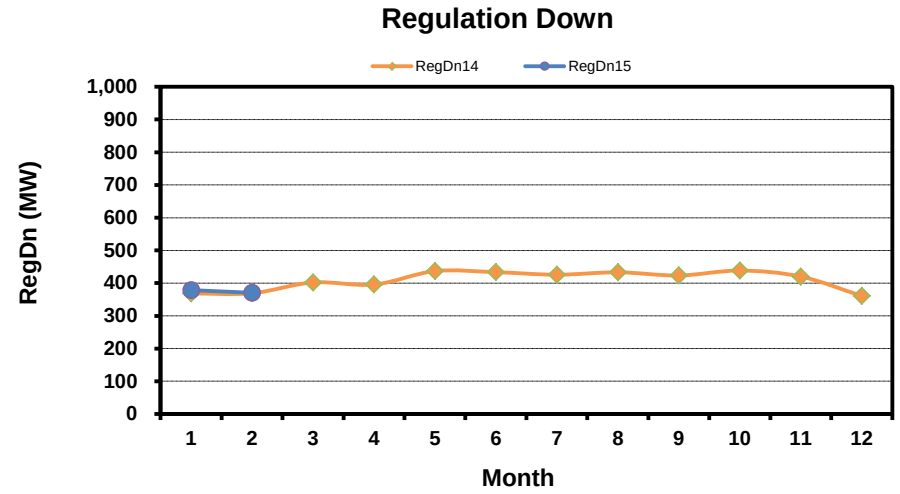
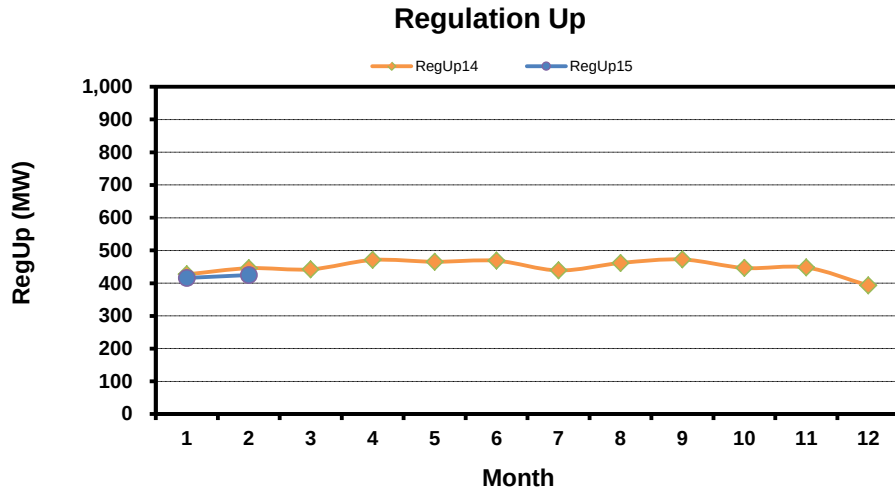


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Monthly Average of Ancillary Services Required MW

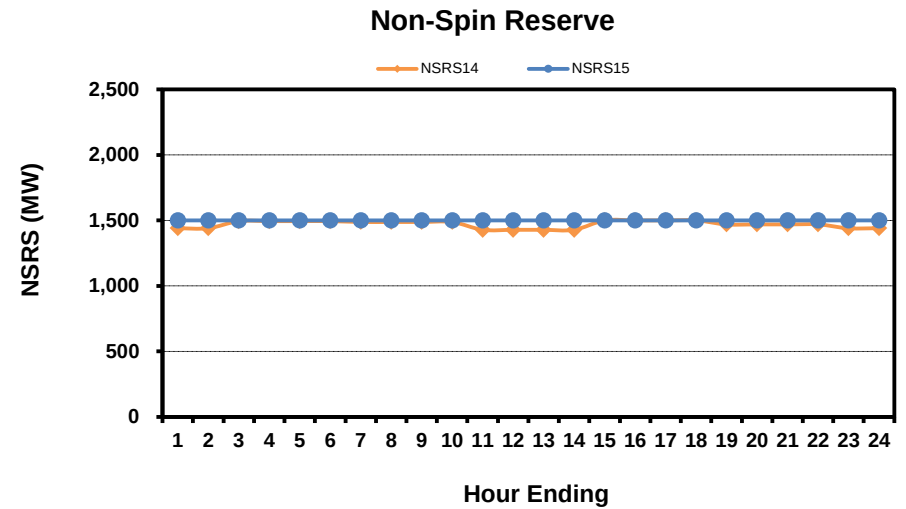
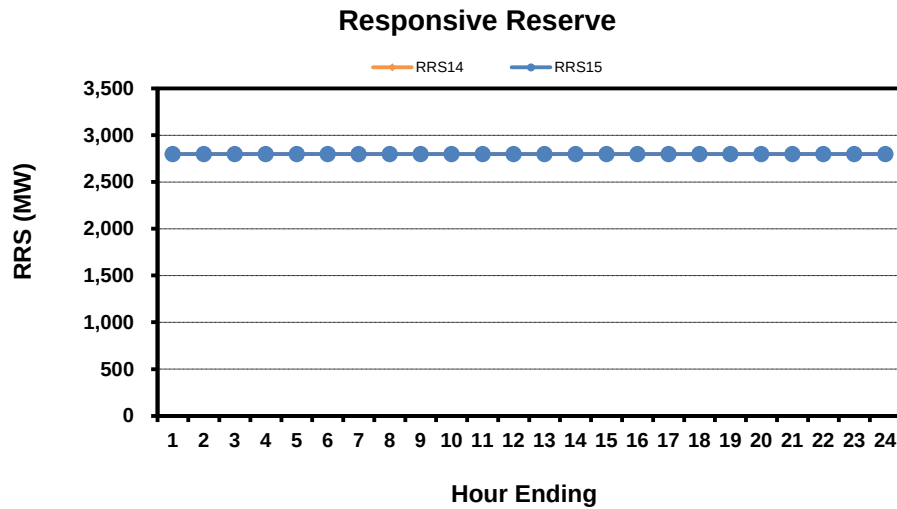
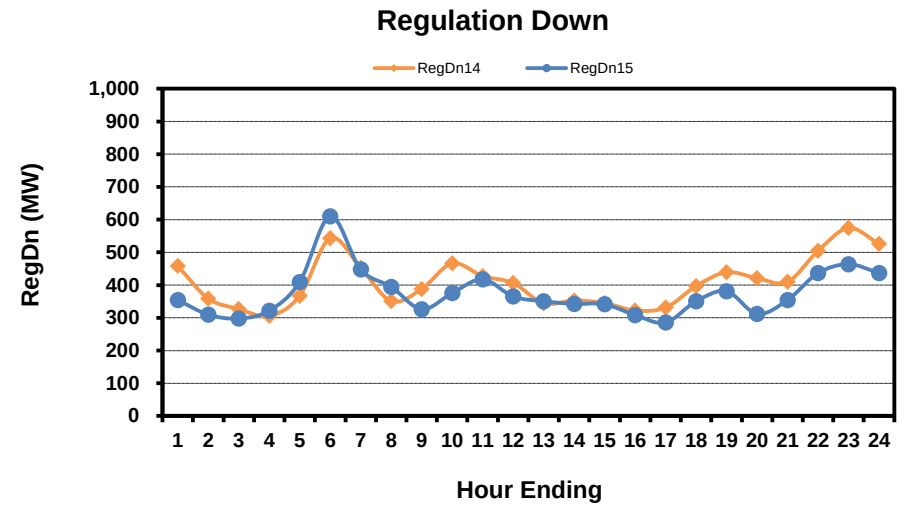
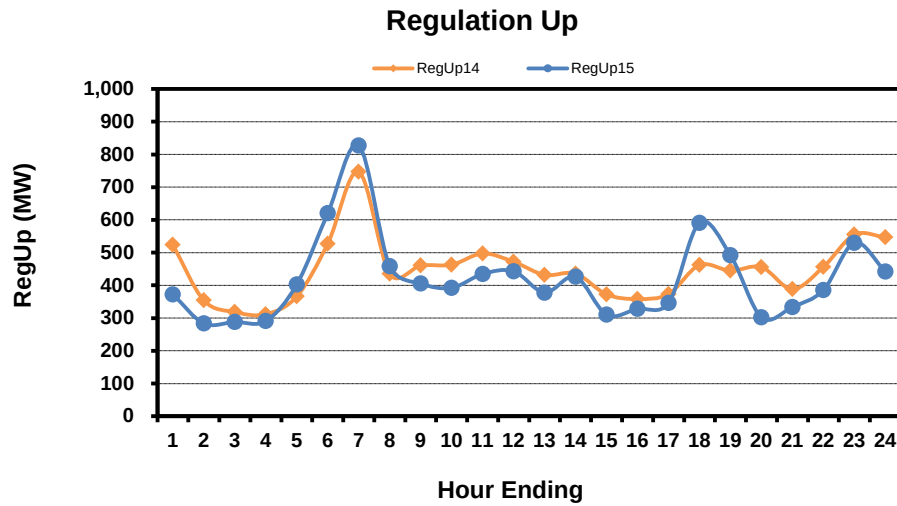


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Hourly Average of Ancillary Services Required MW



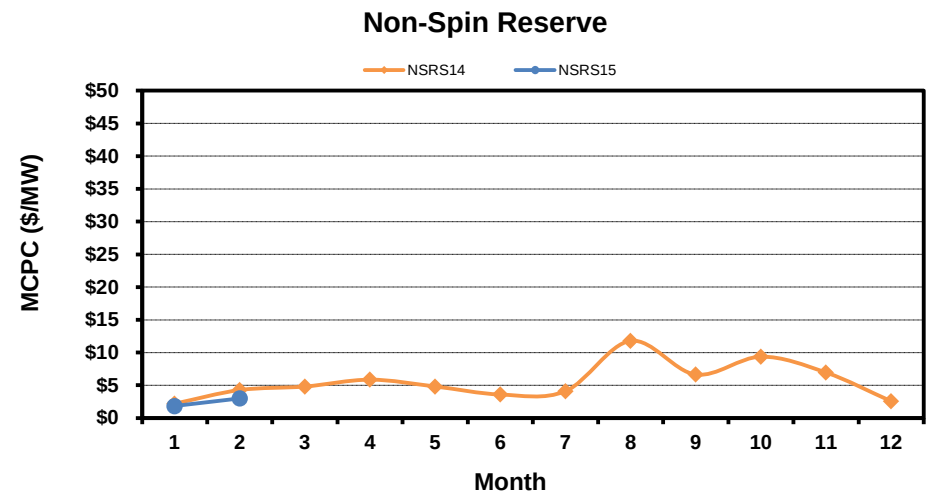
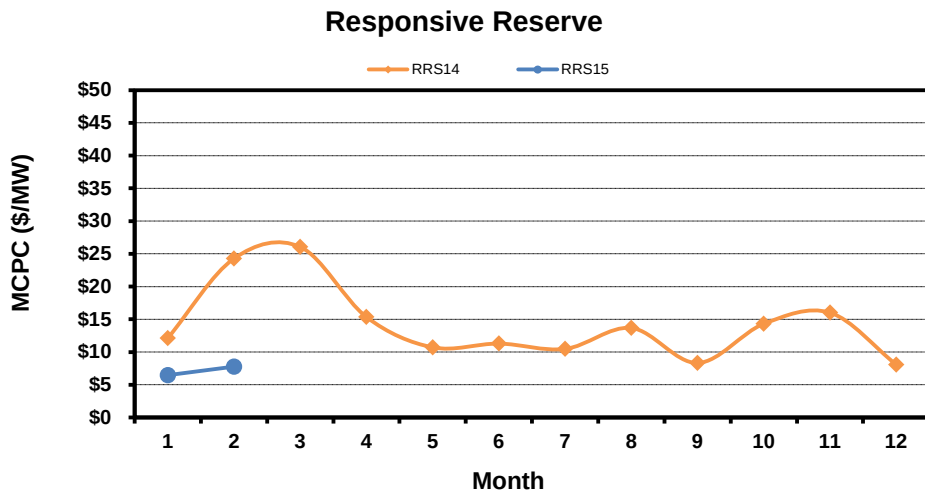
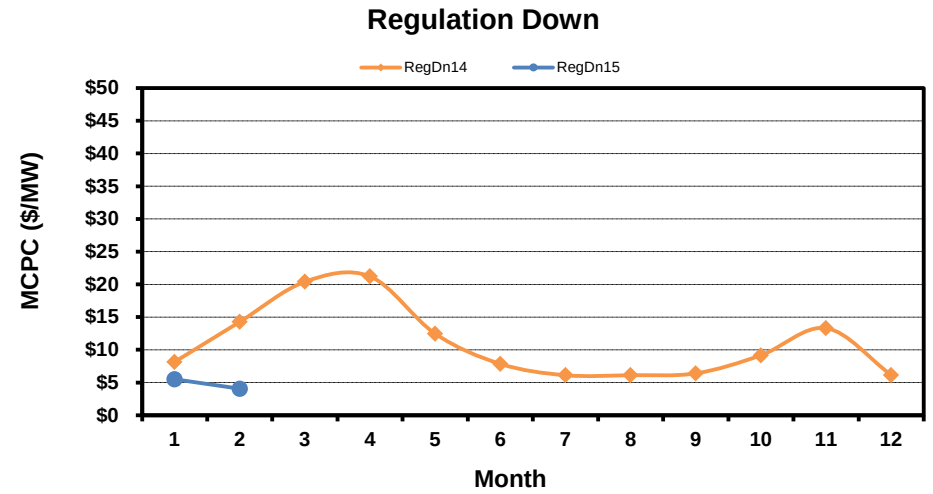
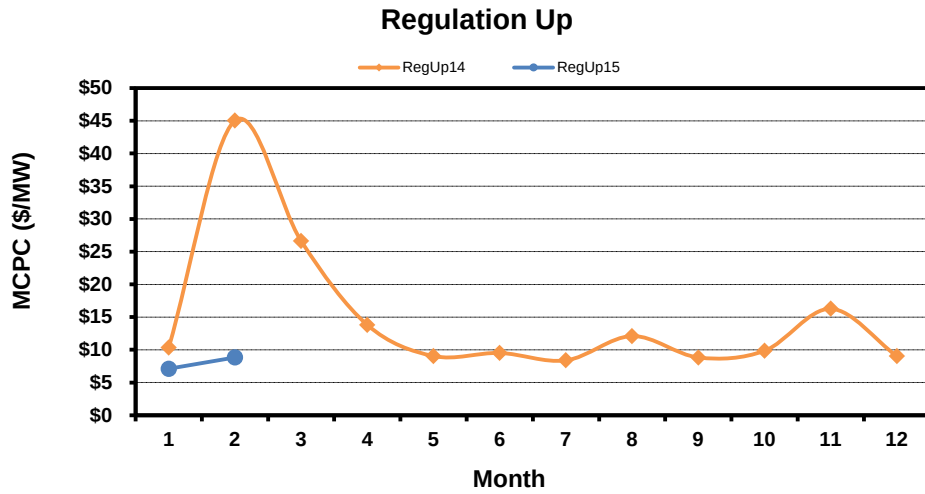
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Monthly Average Ancillary Services Price

(weighted by A/S Quantities Required)

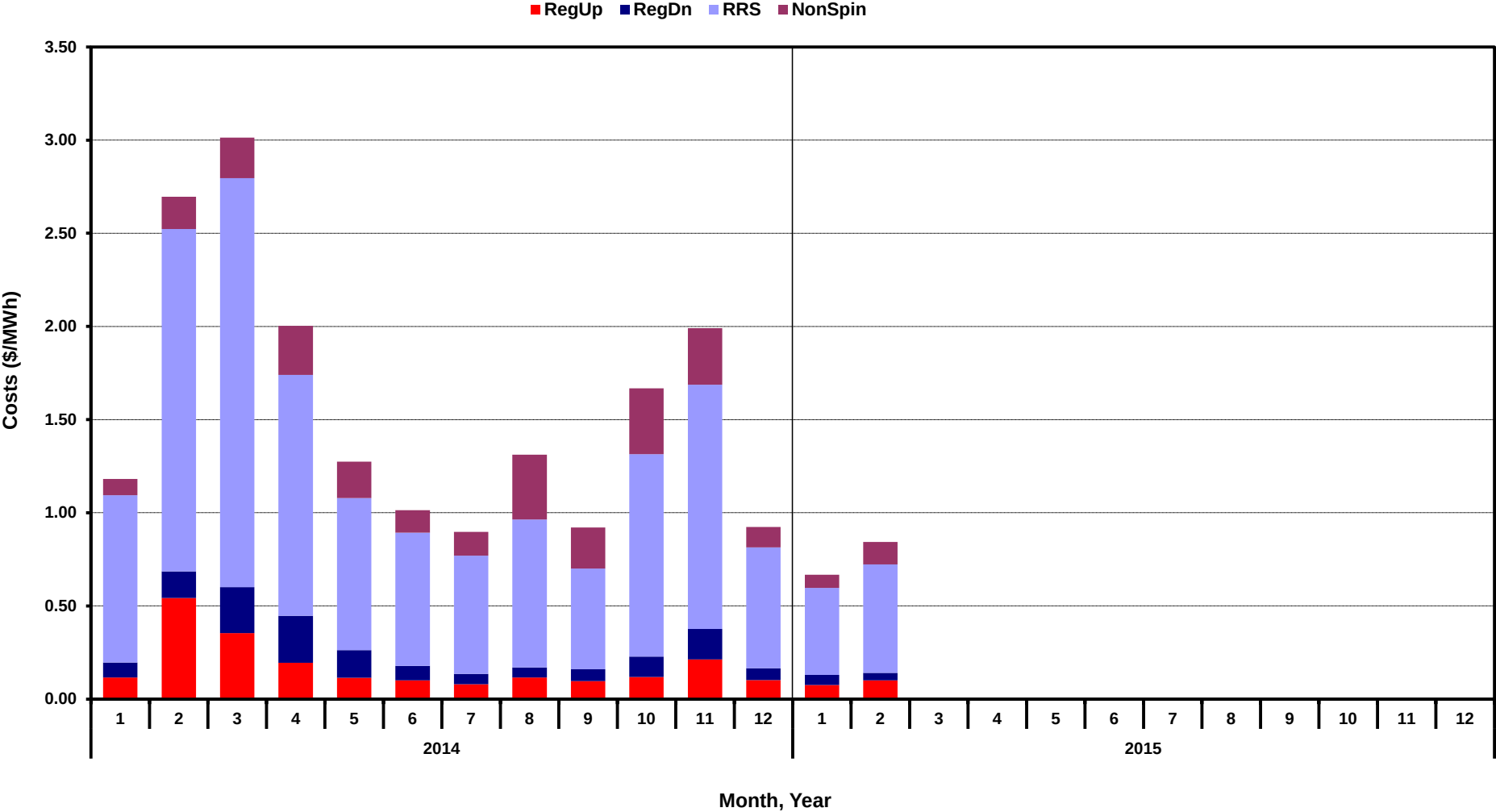


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Monthly Average A/S Cost per MWh Load

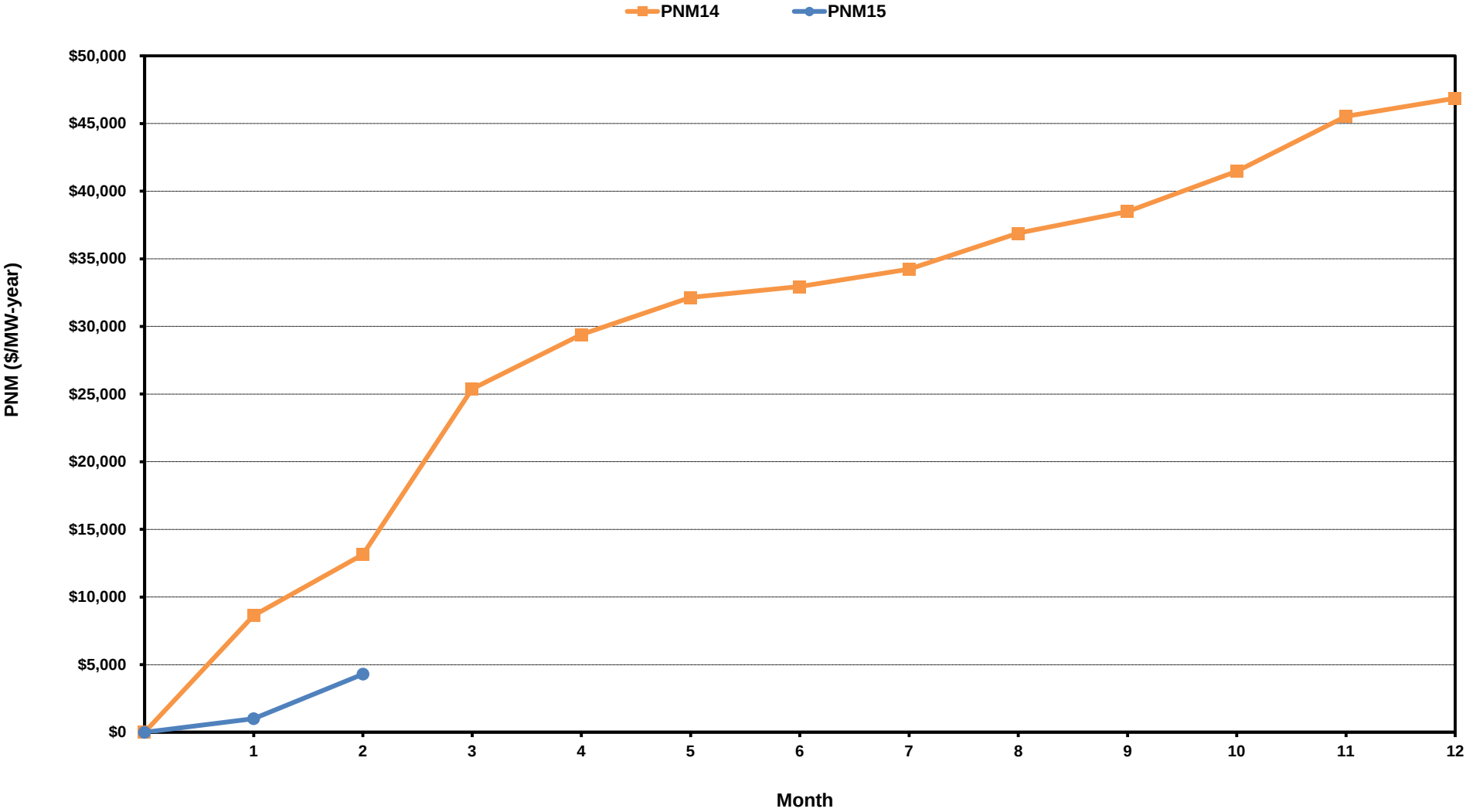


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ERCOT-Wide Cumulative Peaker Net Margin

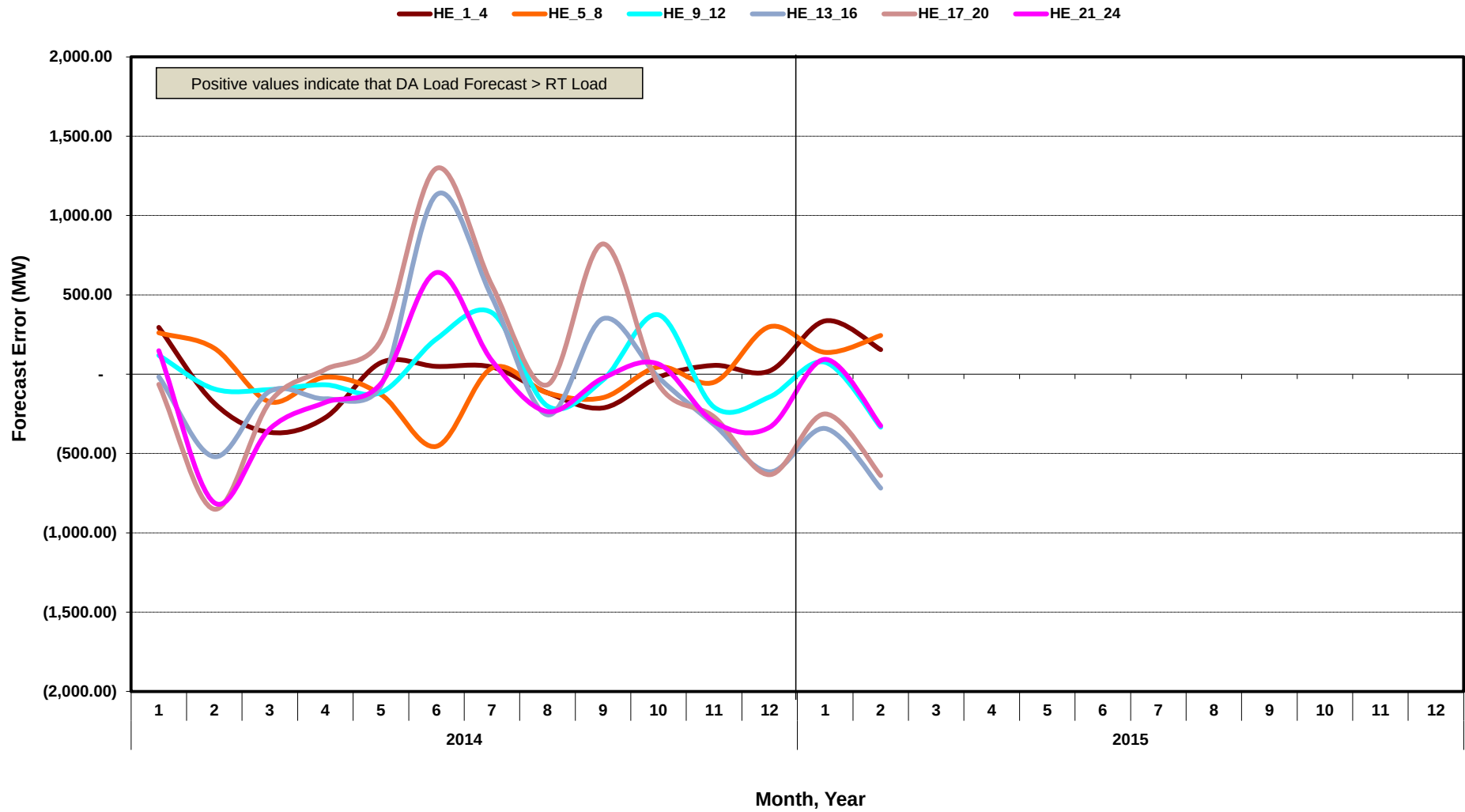


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DA vs. RT Load Forecast Error by Hour Ending

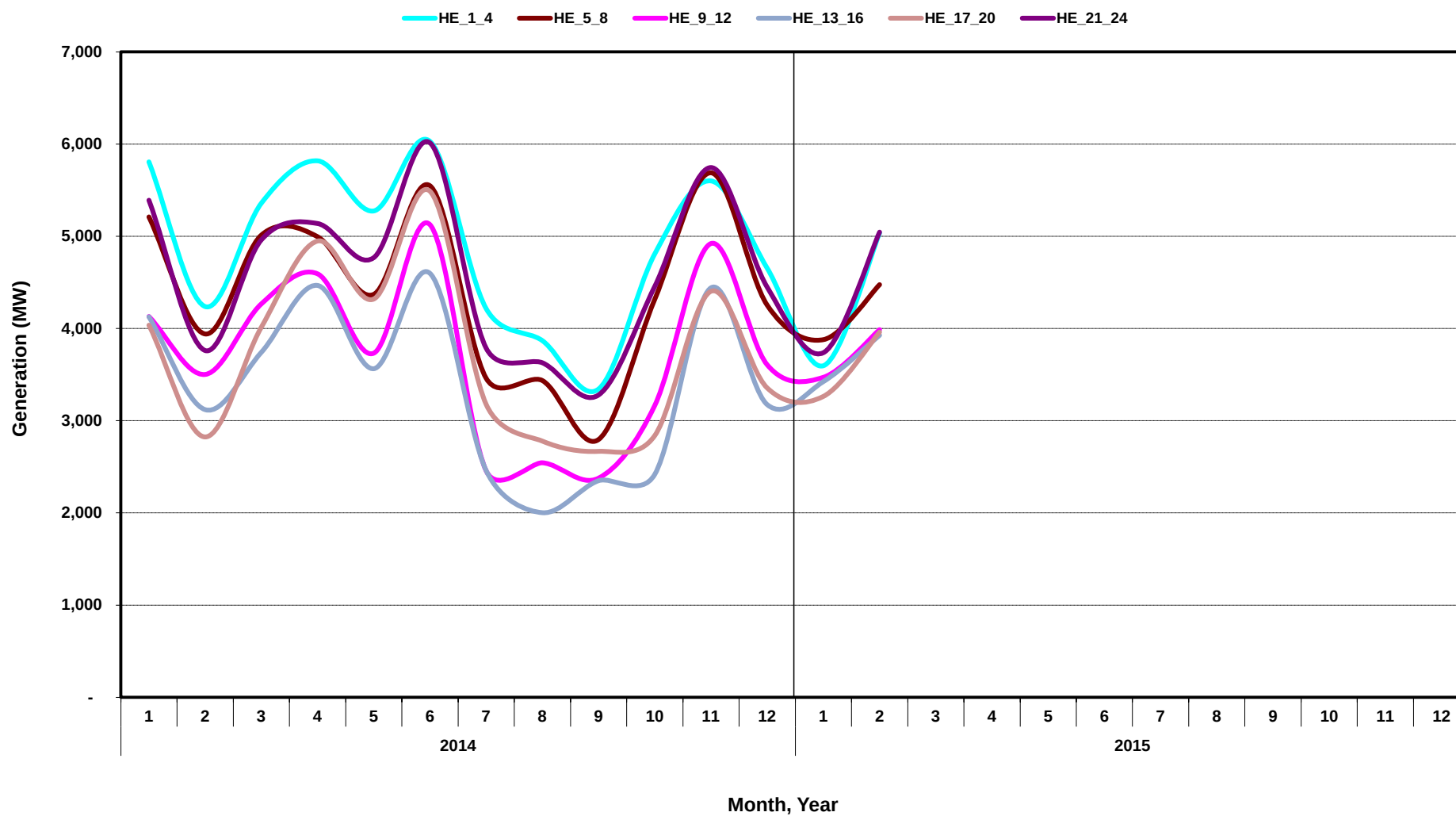


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Monthly Average of Wind Generation by Hour Ending



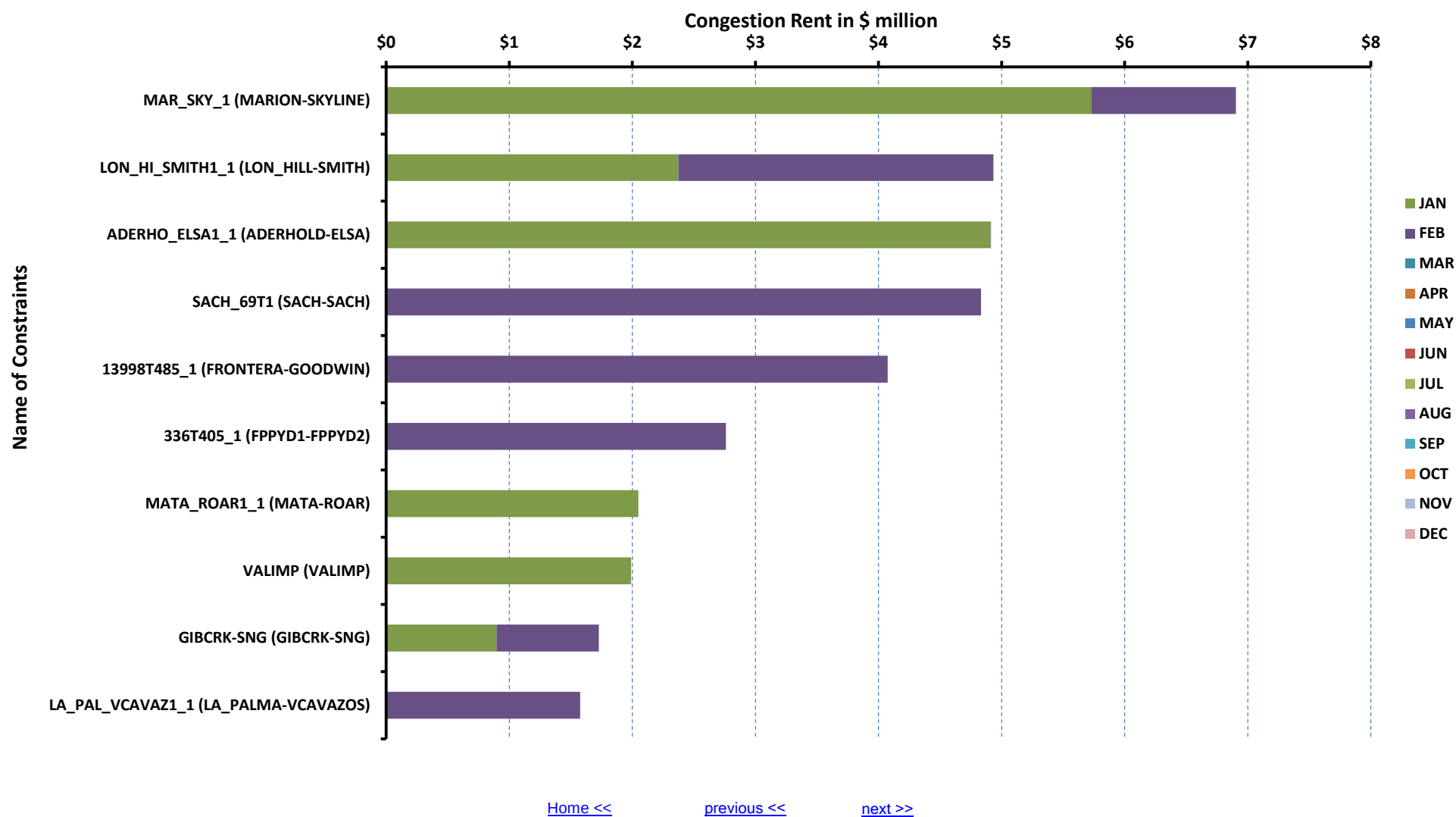
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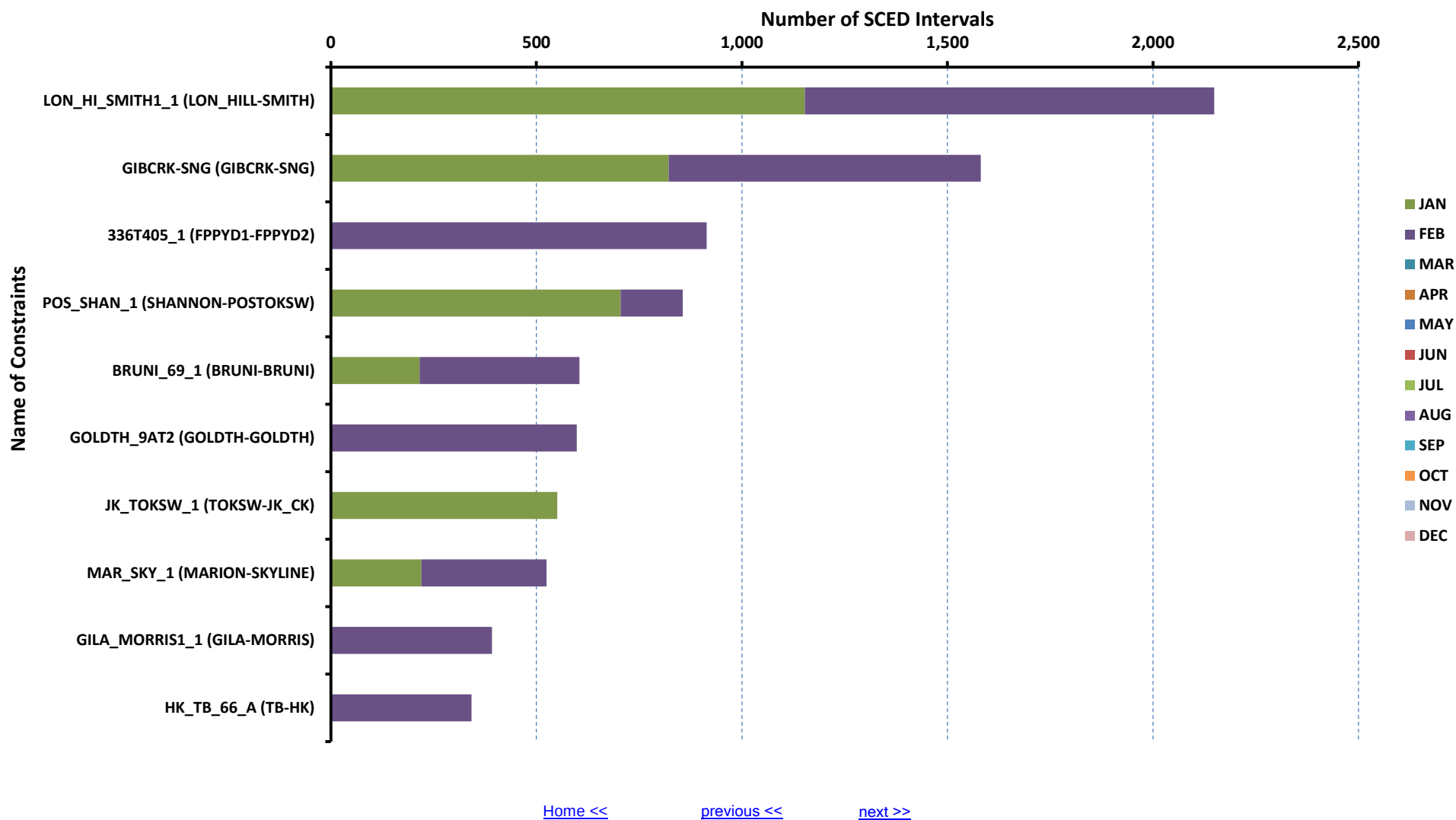
RT Congestion Constraint Rankings - 1

Top 10 Constraints by Total Congestion Rent



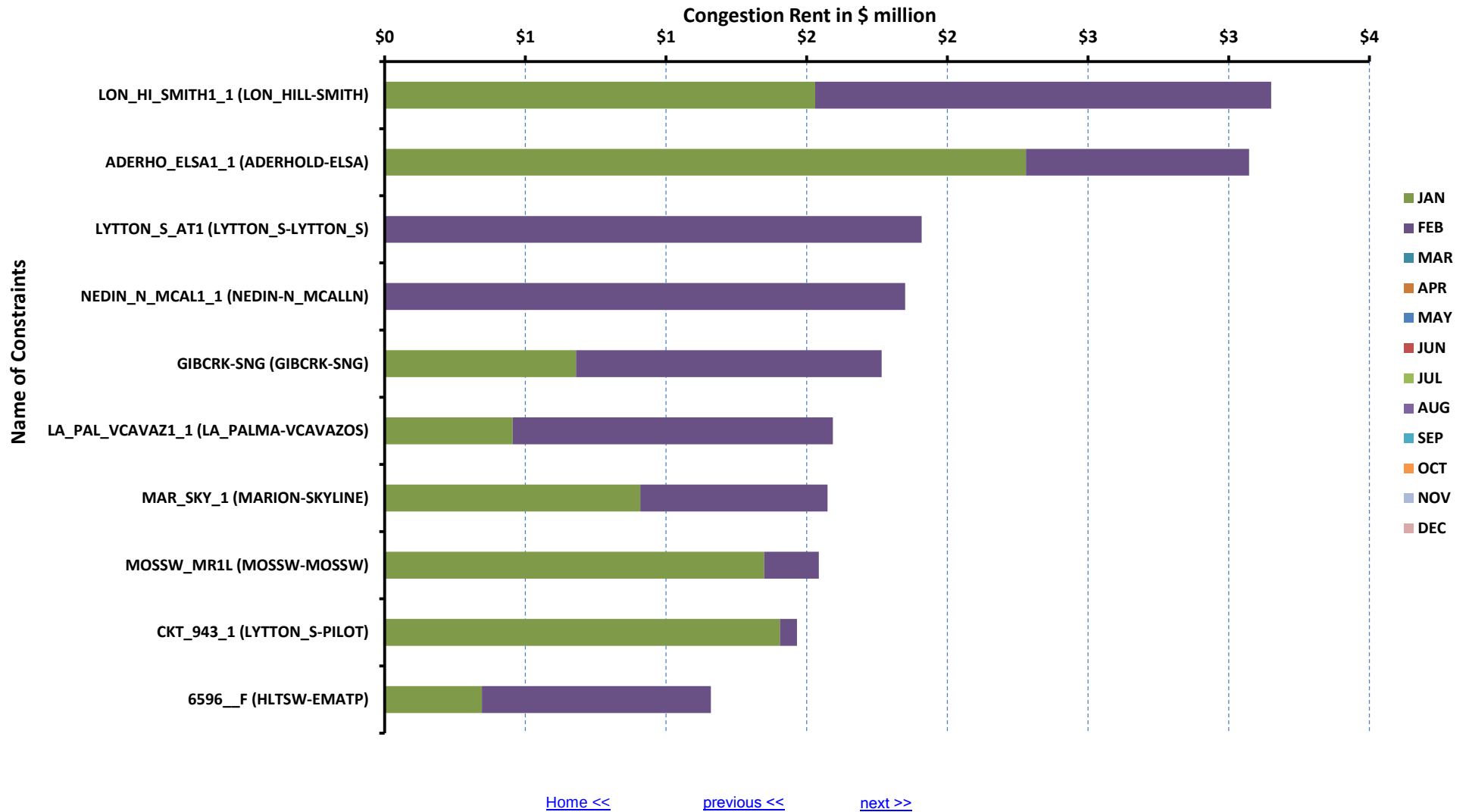
RT Congestion Constraint Rankings - 2

Top 10 Constraints by Binding Frequency



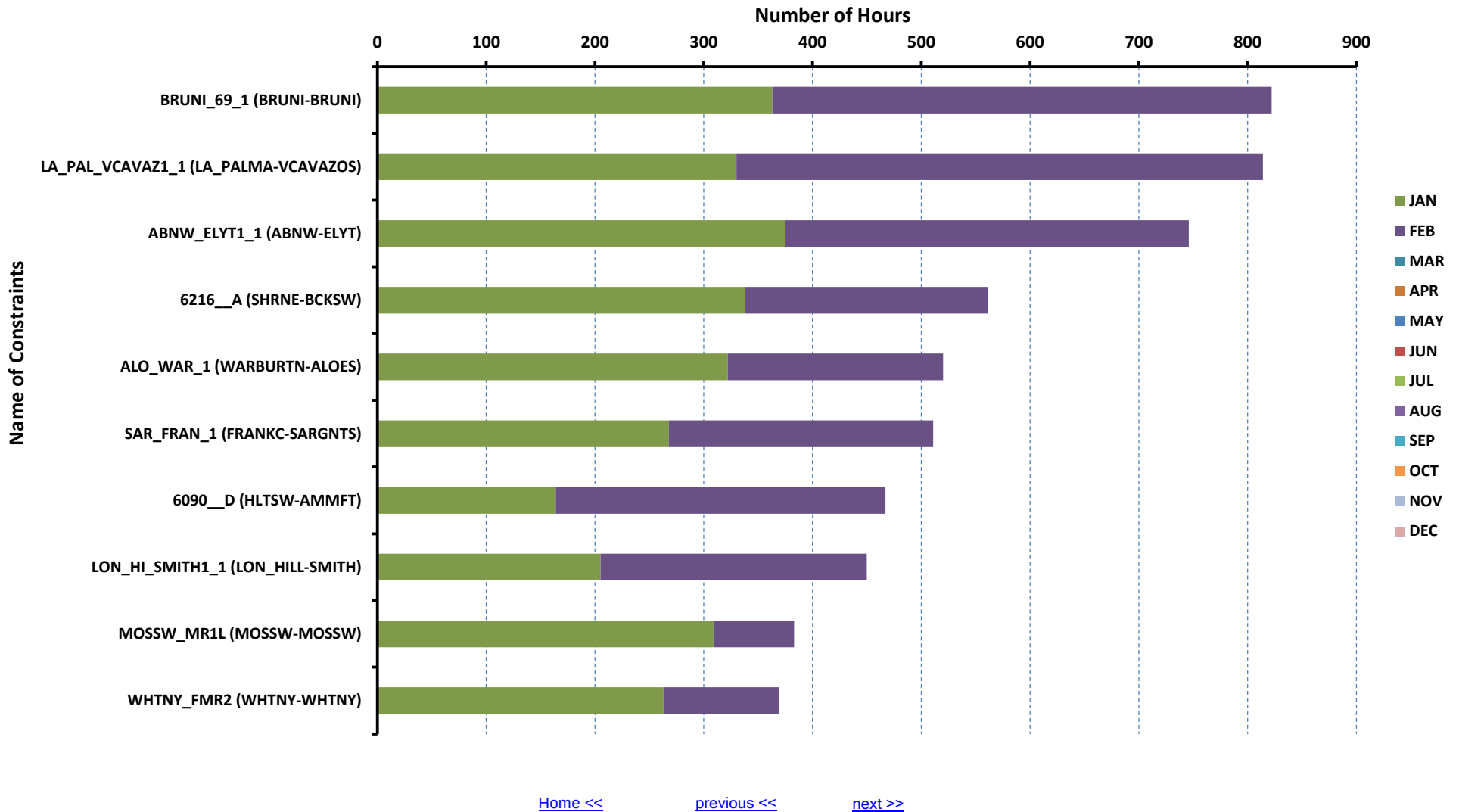
DA Congestion Constraint Rankings - 1

Top 10 Constraints by Total Congestion Rent



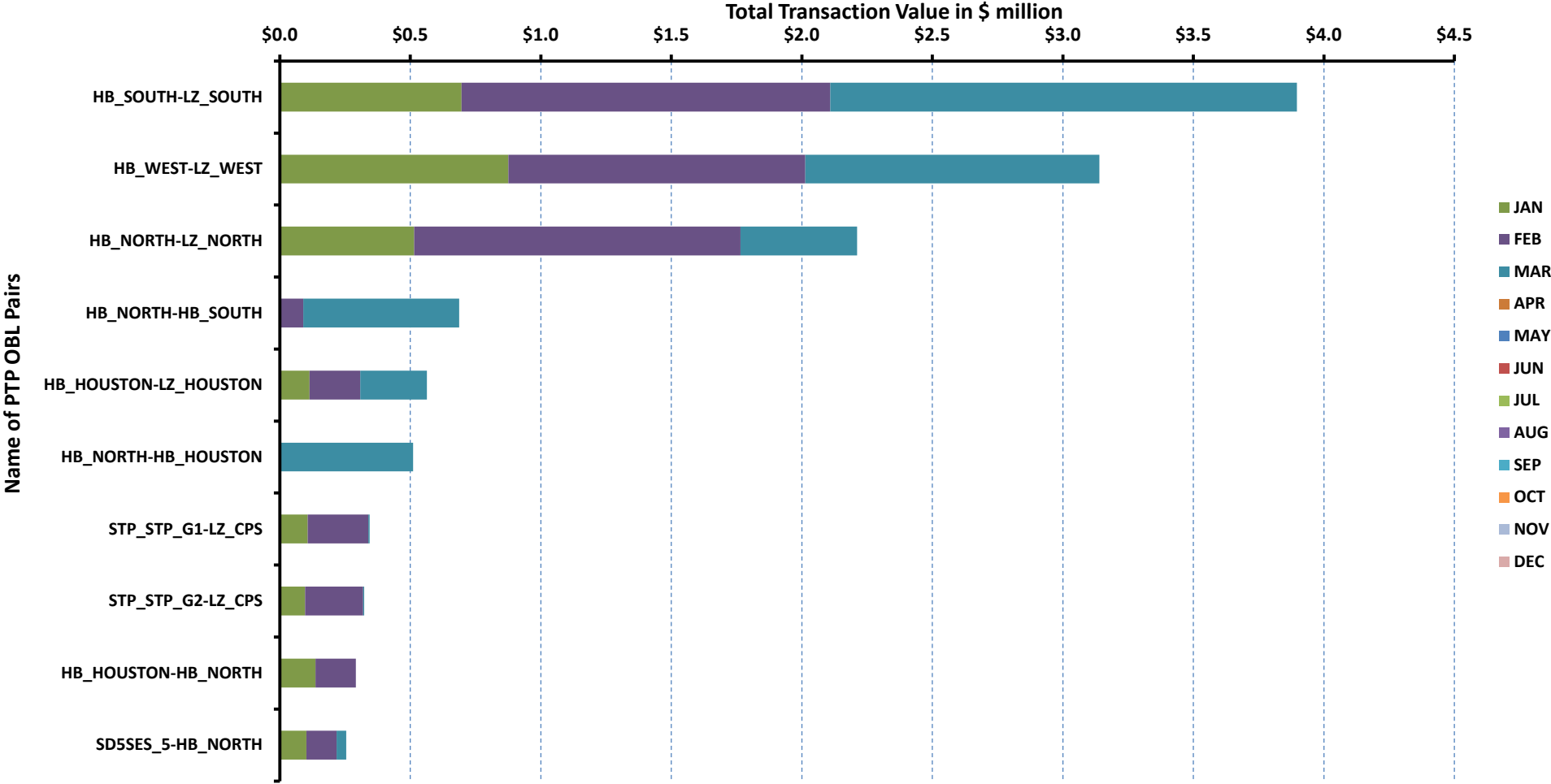
DA Congestion Constraint Rankings - 2

Top 10 Constraints by Binding Frequency



Top 10 CRR Pairs Ranked by Monthly Auction Values - 1

Top 10 PTP Obligations by Total Transaction Value



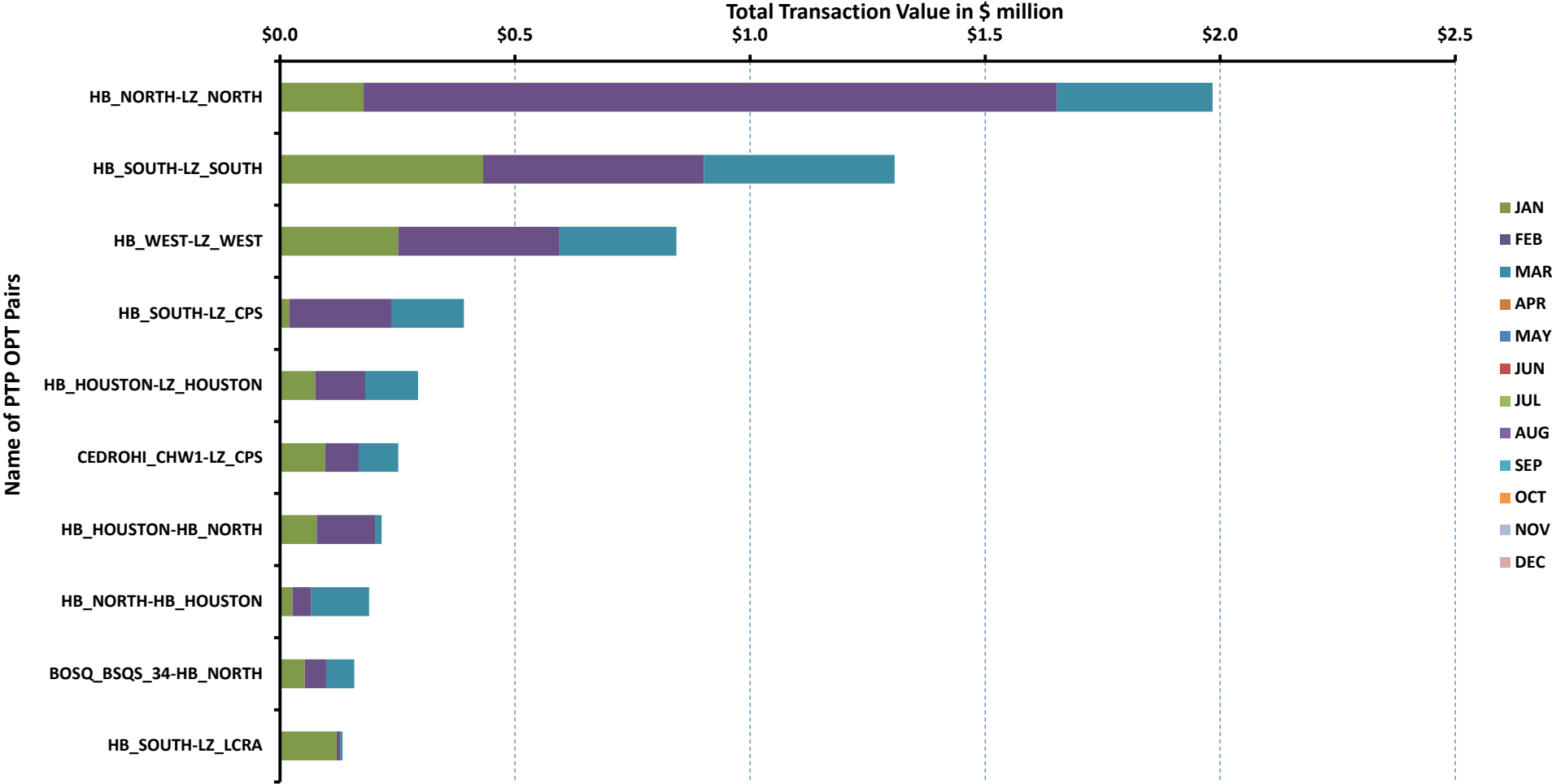
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Top 10 CRR Pairs Ranked by Monthly Auction Values - 2

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	\$ 41.44	\$ 39.45
2014	11	\$ 36.94	\$ 33.97
2014	12	\$ 27.41	\$ 26.02
2015	1	\$ 26.35	\$ 24.97
2015	2	\$ 25.90	\$ 28.27
2015	3		
2015	4		
2015	5		
2015	6		
2015	7		
2015	8		
2015	9		
2015	10		
2015	11		
2015	12		

year	month	loadPEAK_Houston	loadPEAK_North	loadPEAK_South	loadPEAK_West	loadAVG_Houston	loadAVG_North	loadAVG_South	loadAVG_West
2014	1	13,651	24,123	17,347	4,213	9,355	14,910	10,232	3,290
2014	2	12,694	24,490	16,765	4,362	9,207	14,594	9,914	3,284
2014	3	12,611	23,478	15,028	4,252	8,752	12,605	8,776	3,106
2014	4	14,099	16,946	14,714	3,755	8,989	12,038	9,164	3,078
2014	5	14,573	19,552	15,082	4,314	10,120	13,354	10,049	3,231
2014	6	16,916	22,925	16,896	4,633	12,227	16,153	12,205	3,571
2014	7	17,531	25,096	17,809	4,803	12,655	17,081	12,765	3,749
2014	8	17,644	26,131	18,256	4,934	12,904	18,071	13,482	3,823
2014	9	17,300	25,777	17,645	4,960	11,776	16,073	11,757	3,455
2014	10	16,529	22,405	16,314	4,312	10,146	13,203	10,299	3,228
2014	11	12,034	21,098	14,367	4,233	9,113	12,778	9,019	3,295
2014	12	11,383	19,113	14,049	4,402	8,950	13,312	9,199	3,400
2015	1	12,822	23,796	16,489	4,340	9,588	14,941	10,782	3,470
2015	2	12,668	21,805	16,068	4,488	9,376	14,585	9,954	3,459
2015	3								
2015	4								
2015	5								
2015	6								
2015	7								
2015	8								
2015	9								
2015	10								
2015	11								
2015	12								

year	month	avgRTMp_Houston	avgRTMp_North	avgRTMp_South	avgRTMp_West	avgDAMP_Houston	avgDAMP_North	avgDAMP_South	avgDAMP_West
2014	1	\$ 44.80	\$ 50.43	\$ 51.86	\$ 46.03	\$ 37.96	\$ 39.34	\$ 41.58	\$ 38.18
2014	2	\$ 48.35	\$ 53.20	\$ 59.07	\$ 51.96	\$ 54.35	\$ 58.37	\$ 62.62	\$ 57.02
2014	3	\$ 53.10	\$ 61.78	\$ 63.63	\$ 57.56	\$ 55.19	\$ 59.29	\$ 60.04	\$ 55.67
2014	4	\$ 47.32	\$ 39.44	\$ 41.30	\$ 54.24	\$ 43.02	\$ 42.08	\$ 42.87	\$ 60.46
2014	5	\$ 38.47	\$ 38.90	\$ 38.32	\$ 44.48	\$ 40.59	\$ 37.85	\$ 39.98	\$ 45.14
2014	6	\$ 38.02	\$ 36.62	\$ 37.24	\$ 38.26	\$ 42.87	\$ 41.69	\$ 42.62	\$ 45.81
2014	7	\$ 35.43	\$ 35.19	\$ 35.99	\$ 40.30	\$ 39.02	\$ 38.61	\$ 39.87	\$ 42.28
2014	8	\$ 38.53	\$ 37.51	\$ 38.74	\$ 40.65	\$ 43.70	\$ 43.16	\$ 44.12	\$ 45.61
2014	9	\$ 37.93	\$ 35.14	\$ 35.73	\$ 43.72	\$ 37.35	\$ 35.92	\$ 37.54	\$ 38.39
2014	10	\$ 38.71	\$ 35.30	\$ 42.89	\$ 47.82	\$ 40.37	\$ 37.70	\$ 45.44	\$ 47.30
2014	11	\$ 33.28	\$ 34.32	\$ 33.73	\$ 35.20	\$ 35.93	\$ 38.23	\$ 36.09	\$ 37.08
2014	12	\$ 25.72	\$ 26.15	\$ 25.84	\$ 26.77	\$ 27.08	\$ 27.44	\$ 27.26	\$ 28.60
2015	1	\$ 24.36	\$ 24.23	\$ 26.42	\$ 25.36	\$ 25.88	\$ 26.08	\$ 26.68	\$ 27.76
2015	2	\$ 26.86	\$ 27.99	\$ 29.60	\$ 29.46	\$ 25.21	\$ 25.64	\$ 26.83	\$ 26.17
2015	3								
2015	4								
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	\$ 41.44	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	\$ 28.27	10.56	\$ 25.90	9.67
2015	3					
2015	4					
2015	5					
2015	6					
2015	7					
2015	8					
2015	9					
2015	10					
2015	11					
2015	12					

year	month	HRdam_Houston	HRdam_South	HRdam_North	HRdam_West	HRrtm_Houston	HRrtm_South	HRrtm_North	HRrtm_West
2014	1	8.39	9.19	8.70	8.44	9.90	11.47	11.15	10.18
2014	2	8.95	10.32	9.62	9.39	7.96	9.73	8.76	8.56
2014	3	11.61	12.63	12.47	11.71	11.17	13.38	12.99	12.11
2014	4	9.40	9.36	9.19	13.21	10.34	9.02	8.62	11.85
2014	5	9.11	8.98	8.50	10.13	8.64	8.60	8.73	9.98
2014	6	9.30	9.25	9.05	9.94	8.25	8.08	7.95	8.30
2014	7	9.63	9.84	9.53	10.43	8.74	8.88	8.68	9.94
2014	8	11.14	11.25	11.00	11.63	9.82	9.88	9.56	10.36
2014	9	9.52	9.57	9.16	9.79	9.67	9.11	8.96	11.15
2014	10	10.85	12.21	10.13	12.71	10.40	11.53	9.49	12.85
2014	11	8.97	9.01	9.54	9.25	8.31	8.42	8.57	8.79
2014	12	8.28	8.33	8.39	8.74	7.86	7.90	7.99	8.18
2015	1	8.85	9.13	8.92	9.50	8.33	9.04	8.29	8.67
2015	2	9.41	10.02	9.58	9.77	10.03	11.05	10.45	11.00
2015	3								
2015	4								
2015	5								
2015	6								
2015	7								
2015	8								
2015	9								
2015	10								
2015	11								
2015	12								

YEAR	MONTH	DAY	Intervals	RS_Adder
2015	2	1	0	\$ -
2015	2	2	10	\$ 0.26
2015	2	3	0	\$ -
2015	2	4	23	\$ 0.55
2015	2	5	28	\$ 0.20
2015	2	6	2	\$ 0.02
2015	2	7	21	\$ 0.71
2015	2	8	17	\$ 3.28
2015	2	9	0	\$ -
2015	2	10	8	\$ 0.07
2015	2	11	0	\$ -
2015	2	12	0	\$ -
2015	2	13	6	\$ 0.02
2015	2	14	5	\$ 0.02
2015	2	15	0	\$ -
2015	2	16	20	\$ 0.80
2015	2	17	4	\$ 0.02
2015	2	18	7	\$ 1.14
2015	2	19	3	\$ 0.01
2015	2	20	0	\$ -
2015	2	21	33	\$ 0.25
2015	2	22	8	\$ 0.02
2015	2	23	0	\$ -
2015	2	24	7	\$ 0.03
2015	2	25	0	\$ -
2015	2	26	0	\$ -
2015	2	27	18	\$ 0.03
2015	2	28	96	\$ 13.23

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				
2015	4				
2015	5				
2015	6				
2015	7				
2015	8				
2015	9				
2015	10				
2015	11				
2015	12				

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	354	1,500	2,800	372
2015	2	310	1,500	2,800	284
2015	3	298	1,500	2,800	288
2015	4	322	1,500	2,800	291
2015	5	410	1,500	2,800	403
2015	6	610	1,500	2,800	620
2015	7	448	1,500	2,800	827
2015	8	395	1,500	2,800	458
2015	9	326	1,500	2,800	405
2015	10	376	1,500	2,800	392
2015	11	418	1,500	2,800	435
2015	12	365	1,500	2,800	443
2015	13	351	1,500	2,800	378
2015	14	343	1,500	2,800	426
2015	15	342	1,500	2,800	310
2015	16	308	1,500	2,800	328
2015	17	286	1,500	2,800	346
2015	18	350	1,500	2,800	591
2015	19	381	1,500	2,800	492
2015	20	312	1,500	2,800	302
2015	21	354	1,500	2,800	334
2015	22	437	1,500	2,800	386
2015	23	464	1,500	2,800	530
2015	24	437	1,500	2,800	442

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				
2015	4				
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
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	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		
2015	4		
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)
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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
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