

Item 6: IMM Report

Beth Garza

Director, ERCOT IMM

bgarza@potomaceconomics.com

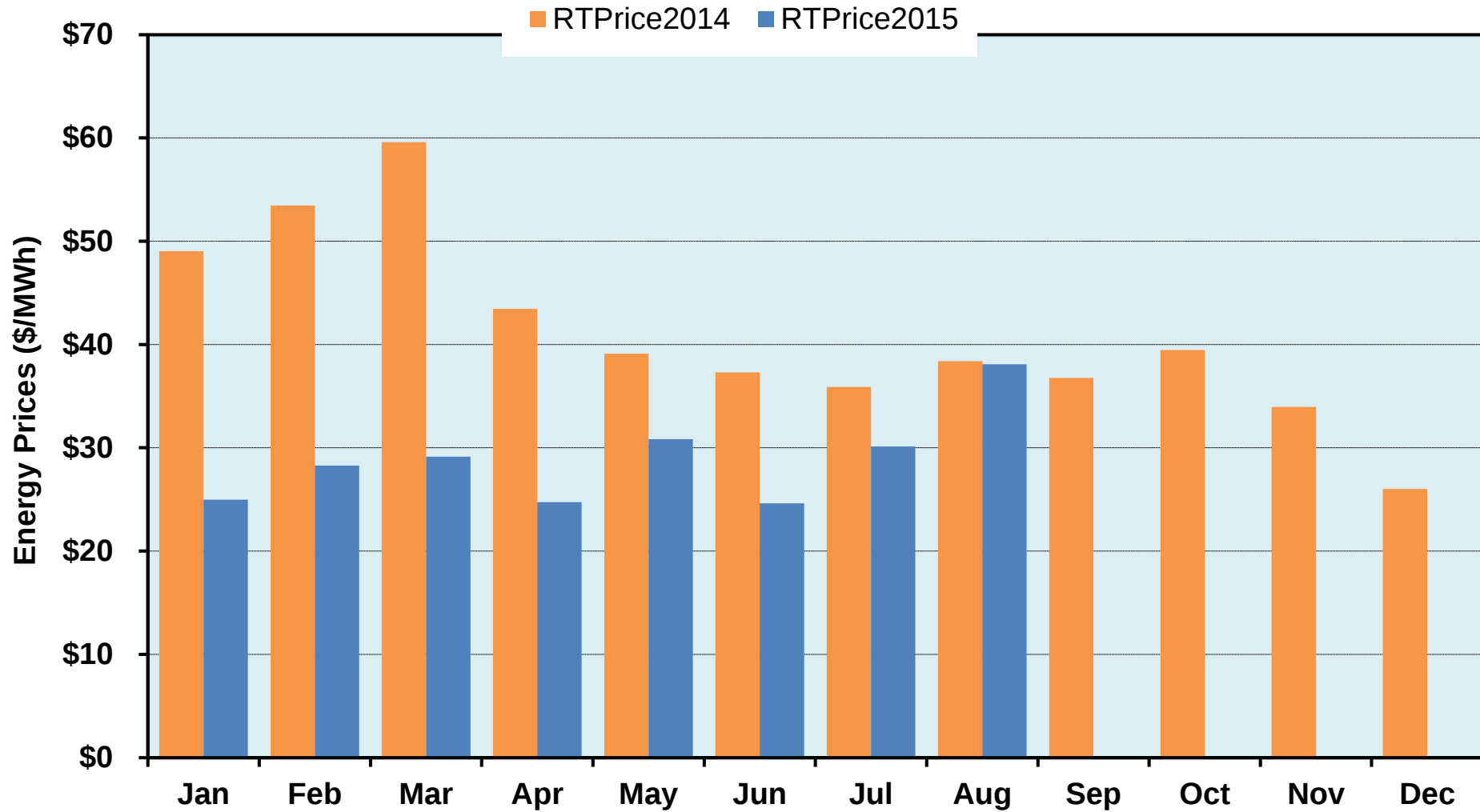
512-225-7077

Board of Directors

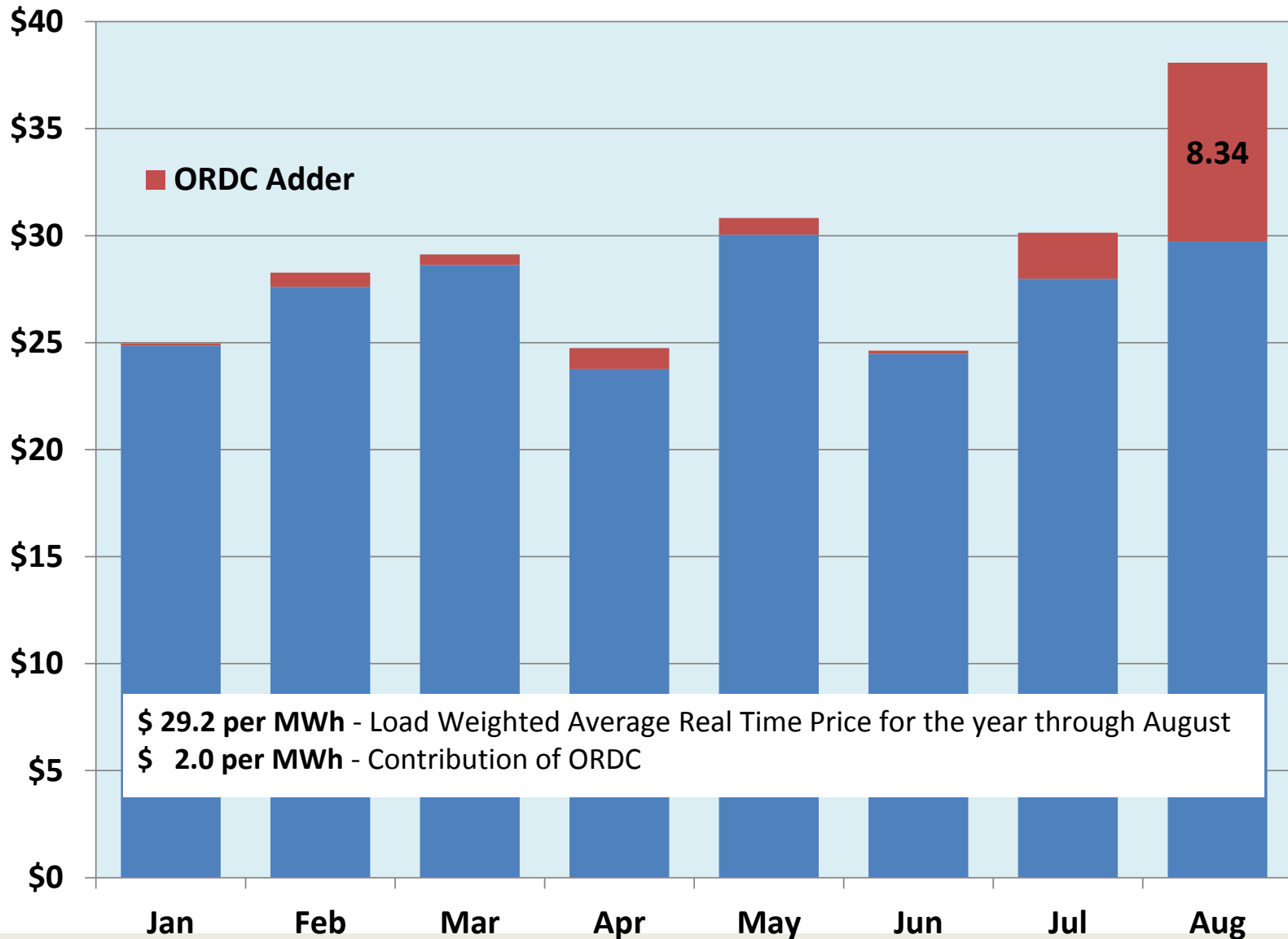
October 13, 2015

ERCOT Public

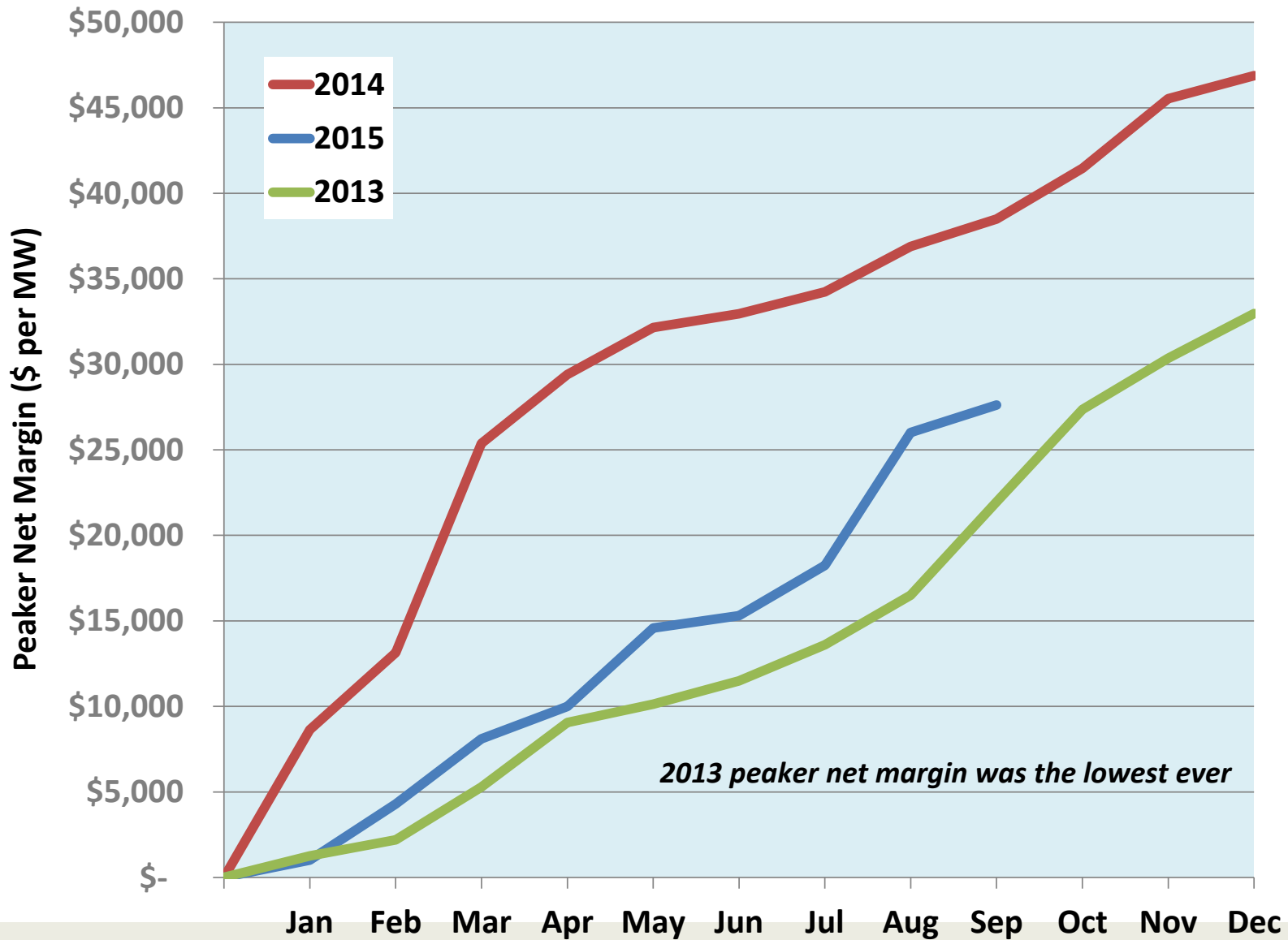
ERCOT-Wide Energy Prices – Real Time



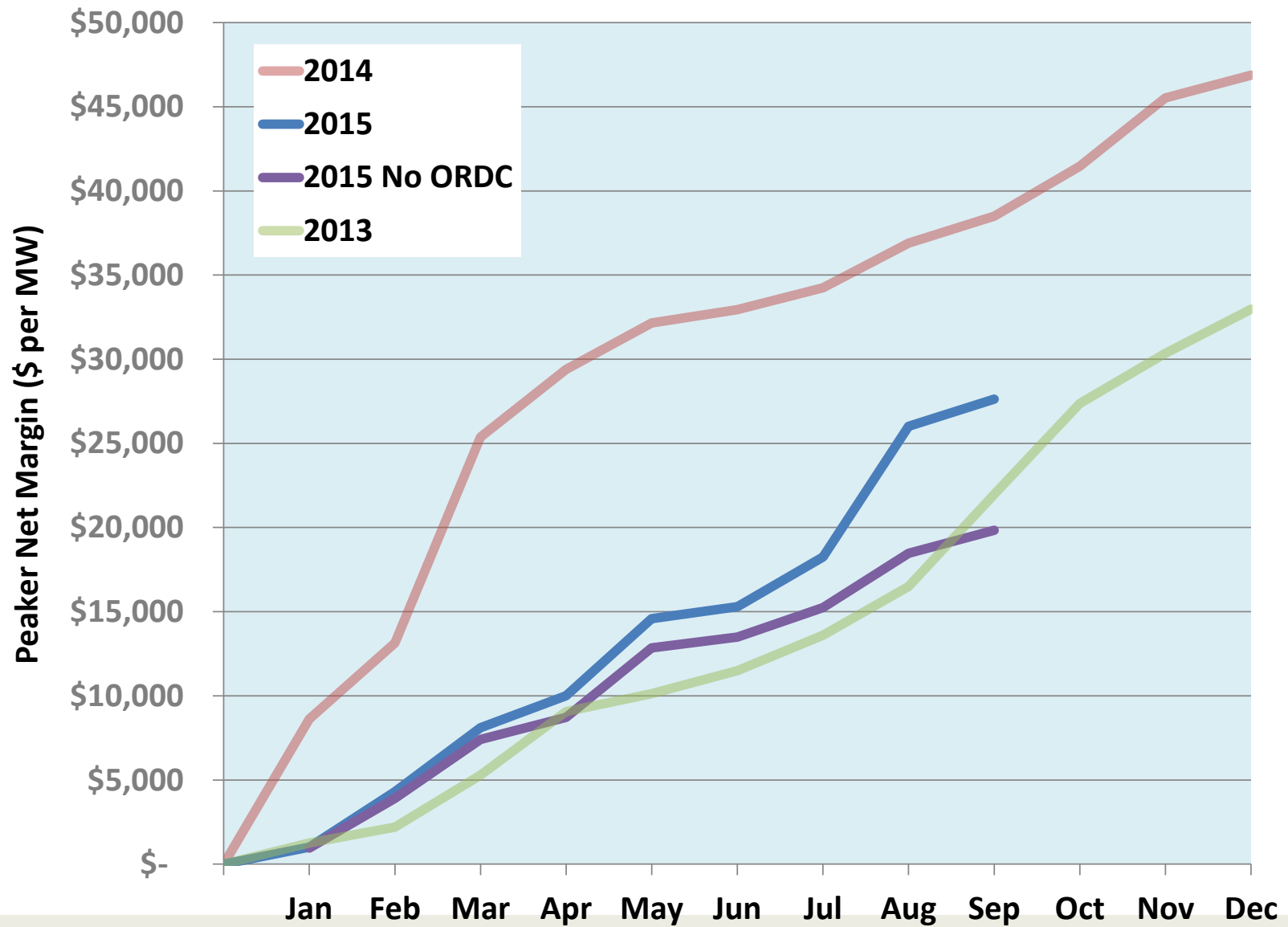
ORDC Contribution to Real Time energy prices



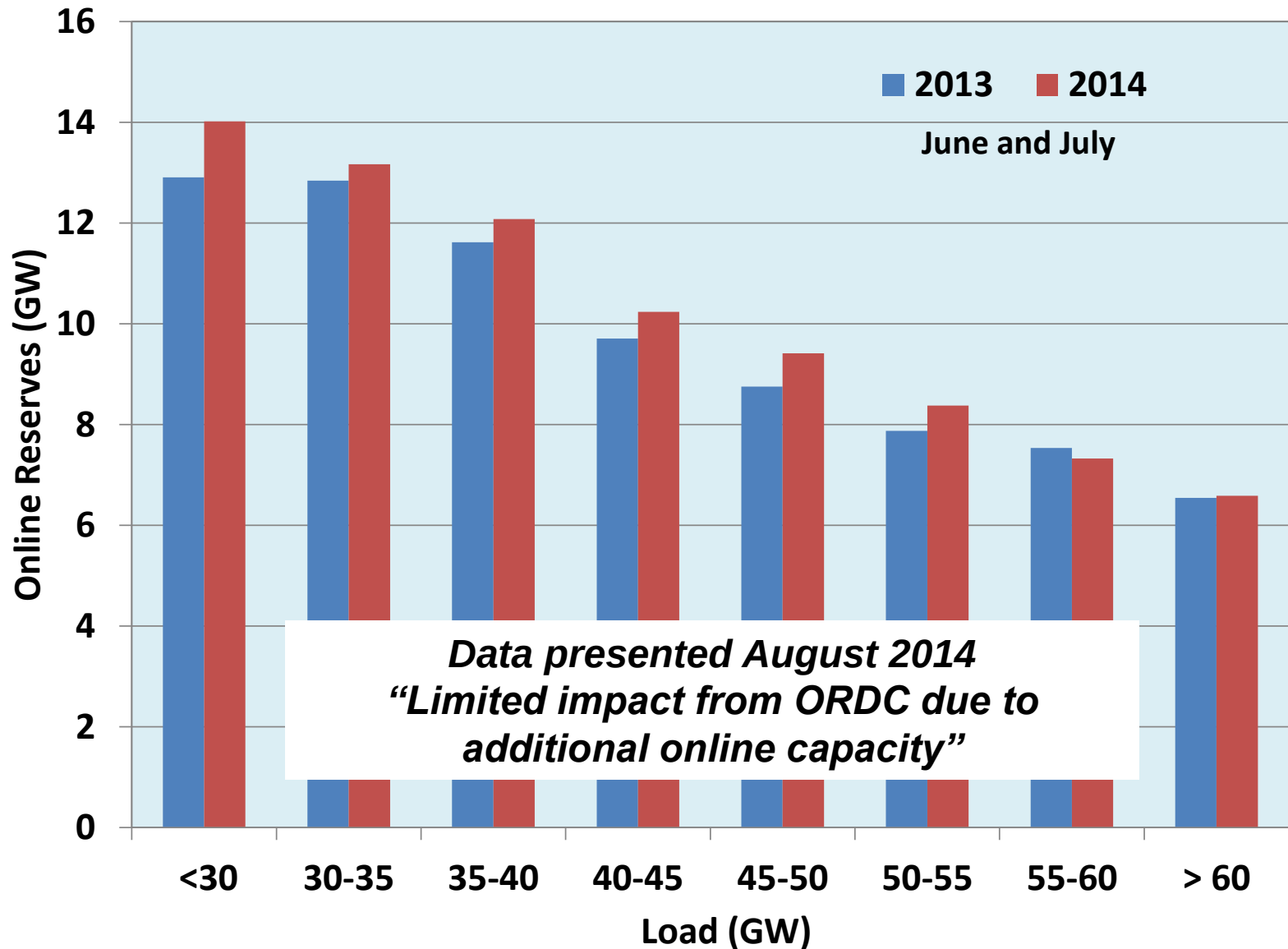
Peaker Net Margin in 2013-2015



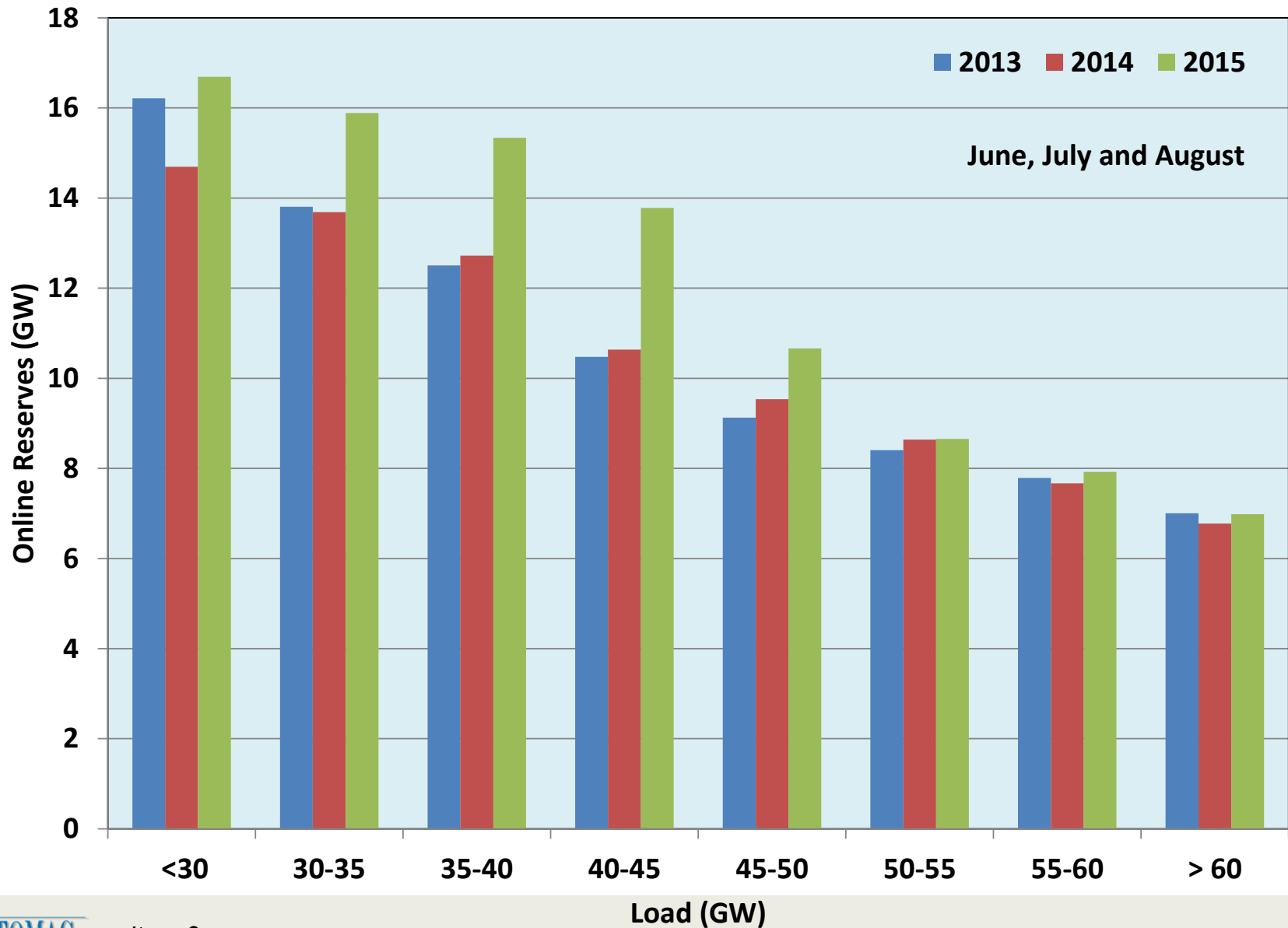
Peaker Net Margin in 2013-2015



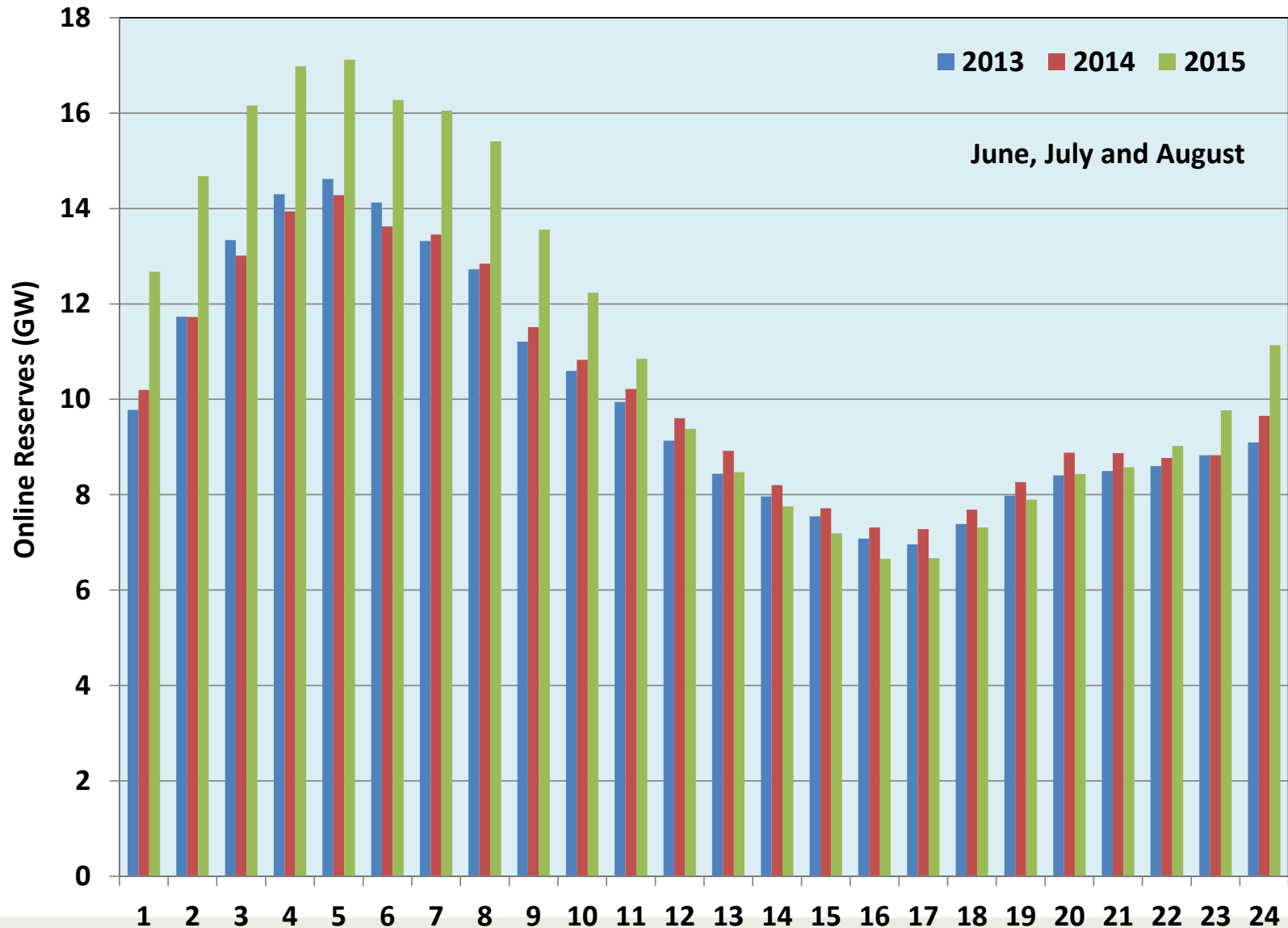
Online Reserves



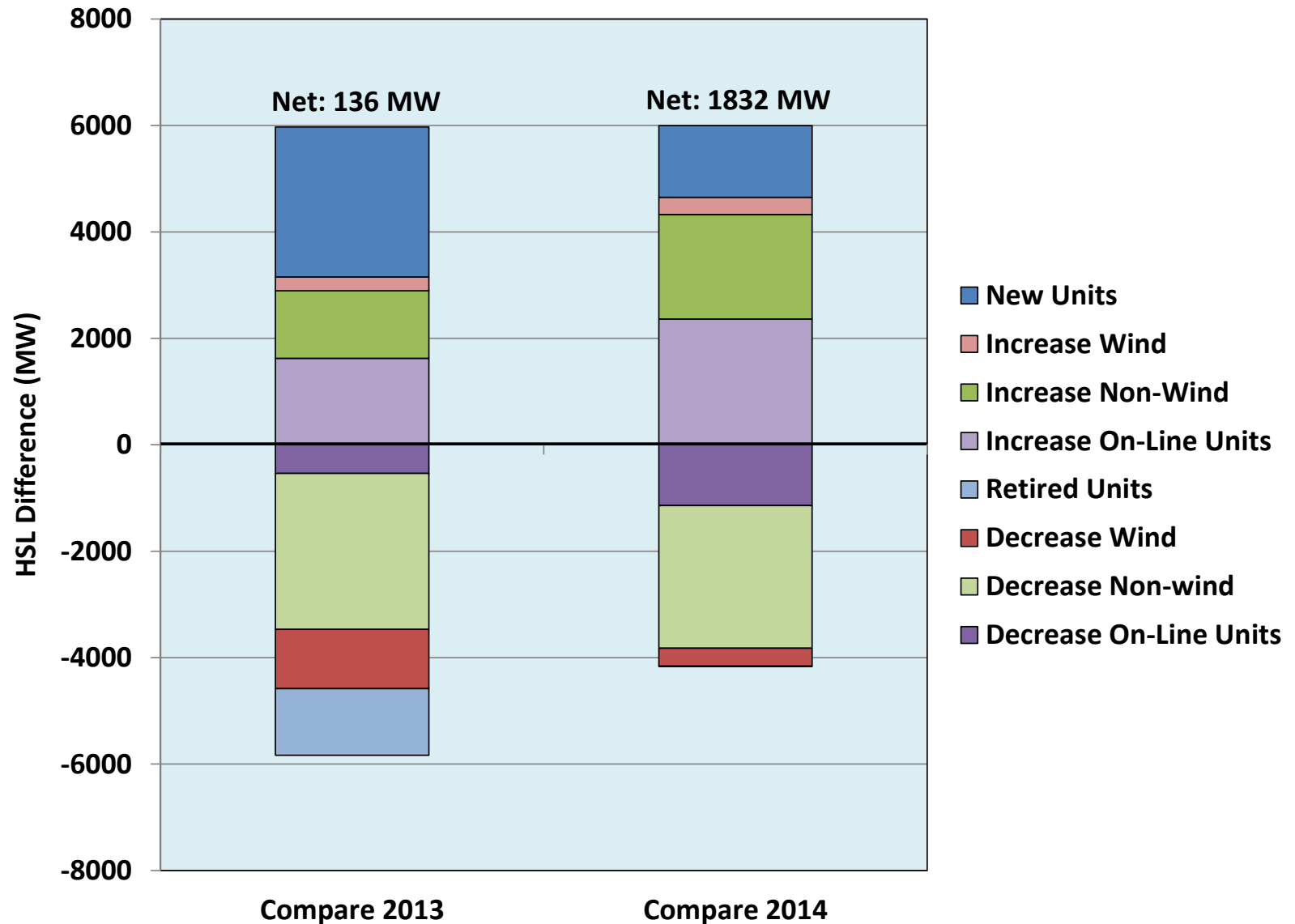
Summer Online Reserves



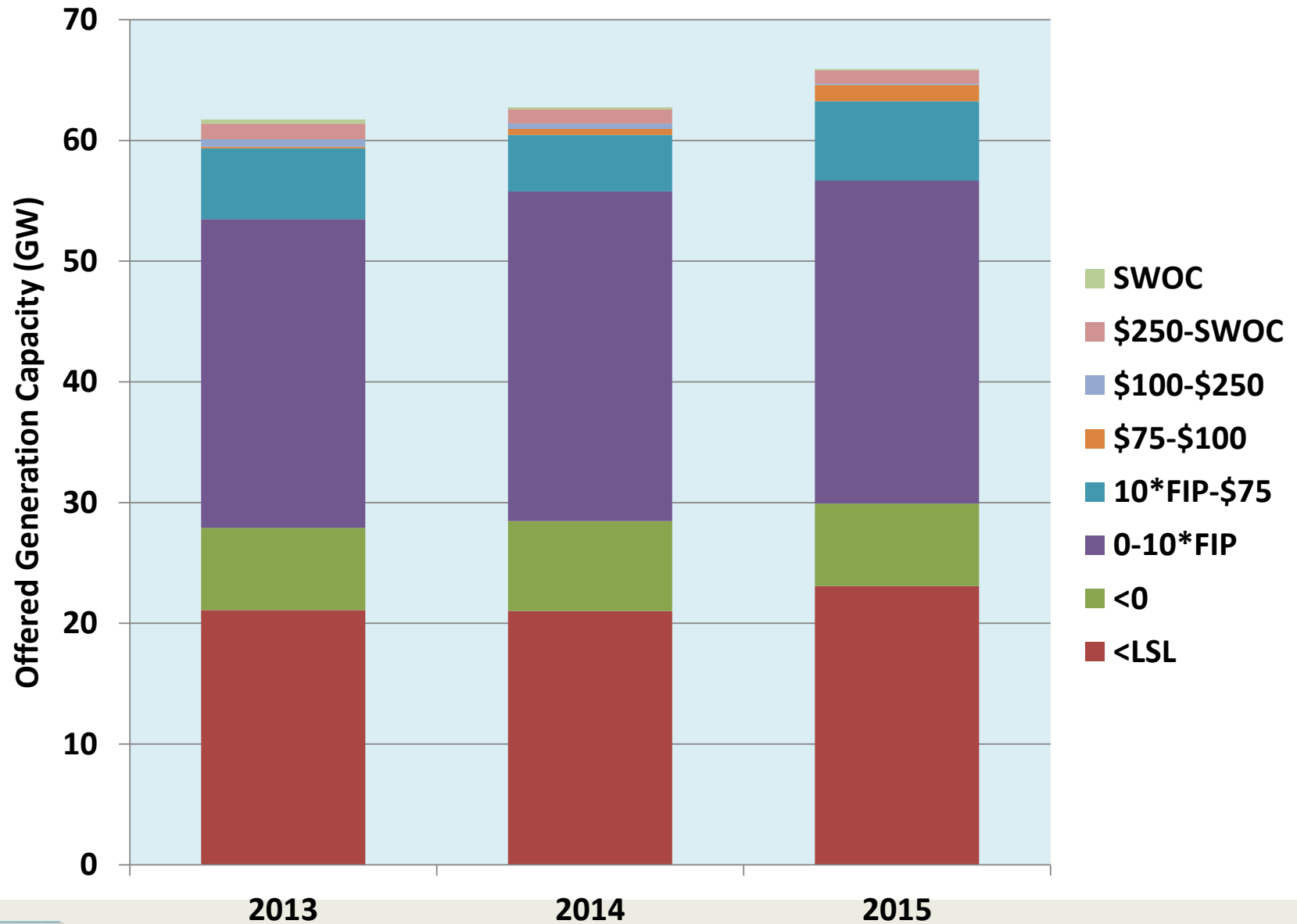
Another View of Summer Online Reserves



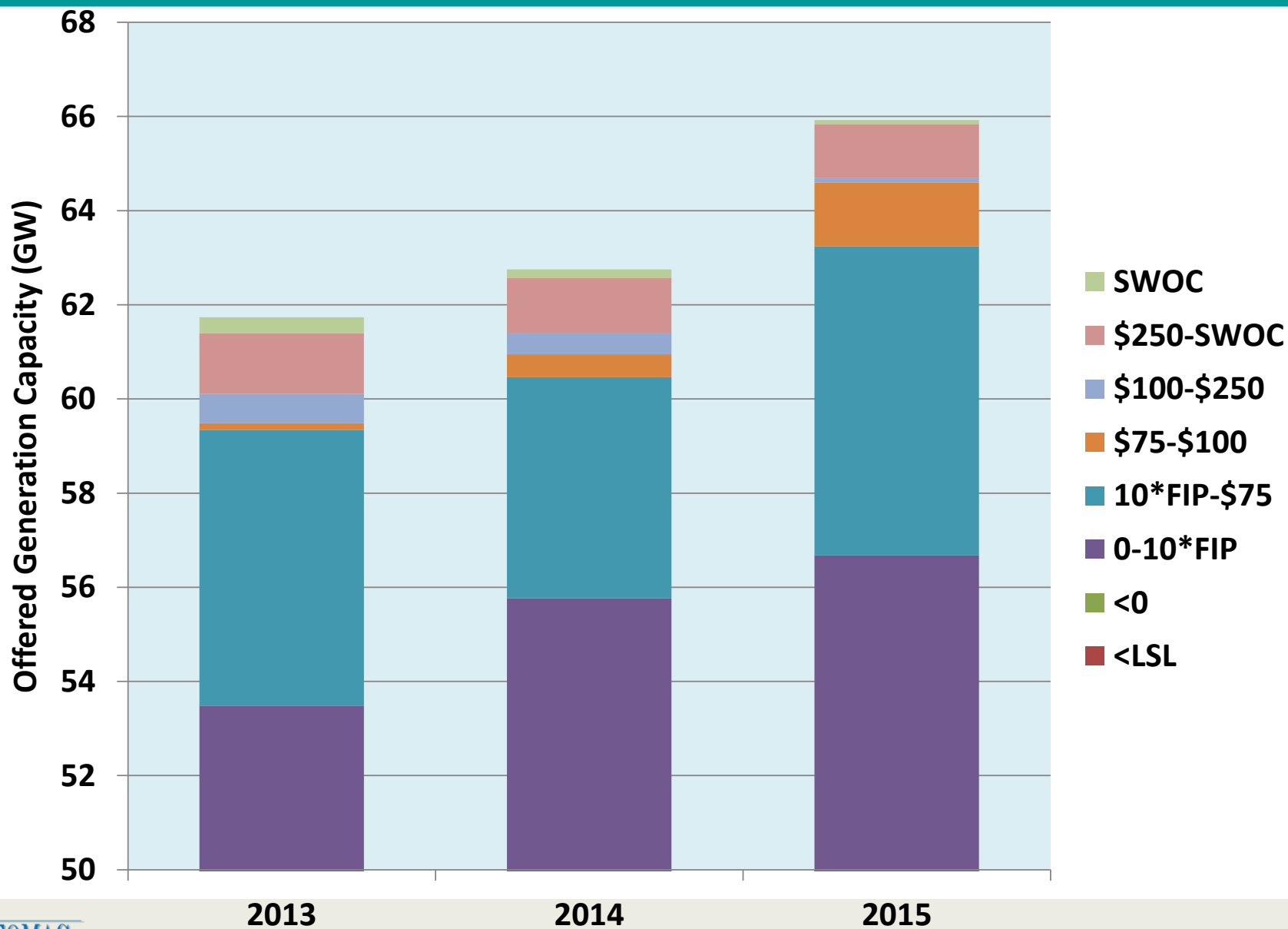
Capacity Available in 2015 Peak Hour



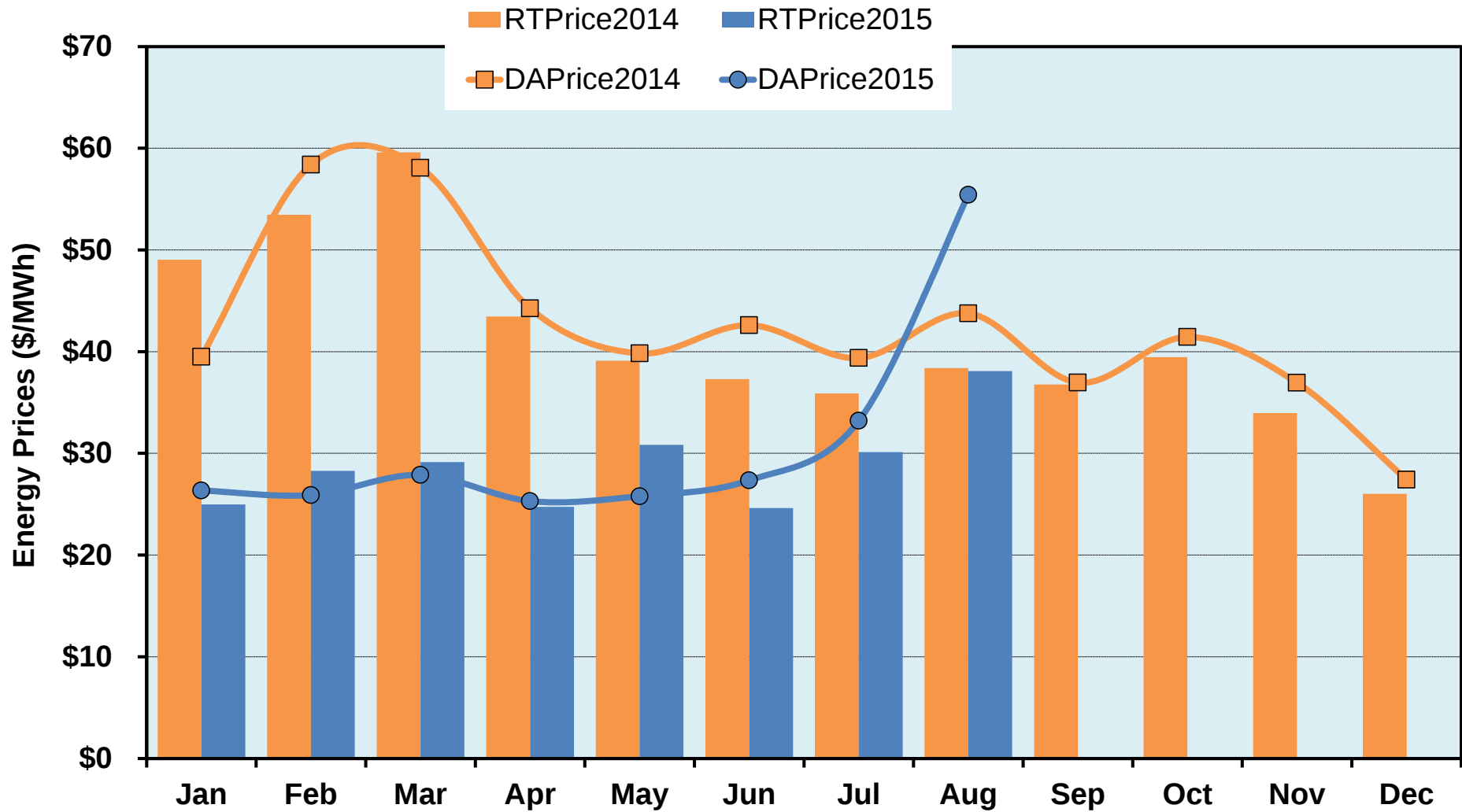
Aggregated Generation Offer Stack - Summer



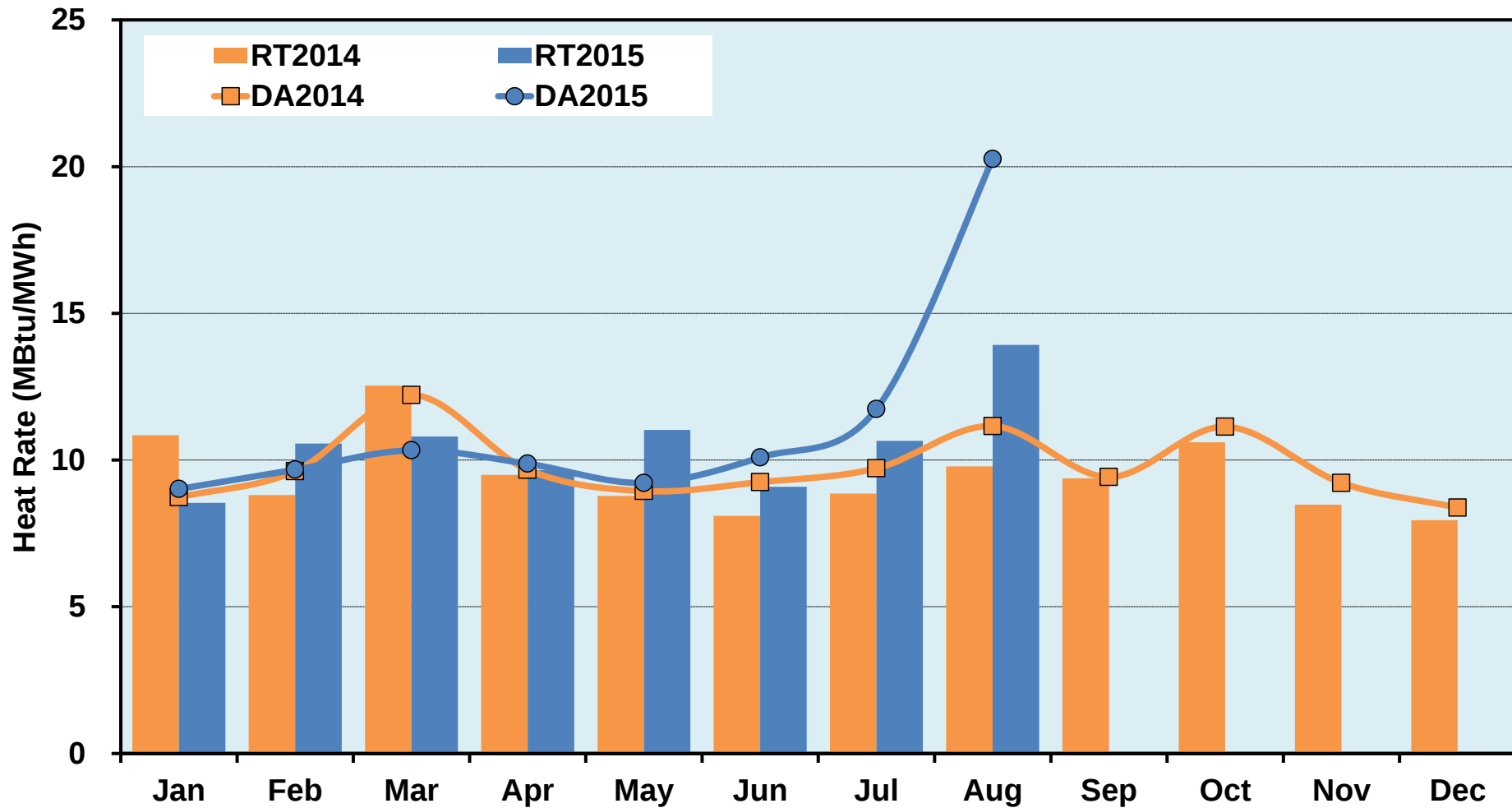
Top Portion of Aggregated Generation Offer Stack - Summer



ERCOT-Wide Energy Prices – Real Time & Day Ahead



ERCOT-Wide Implied Heat Rate – Real Time & Day Ahead



To the Public Utility Commission of Texas

ERCOT Wholesale Electricity Market Monthly Report

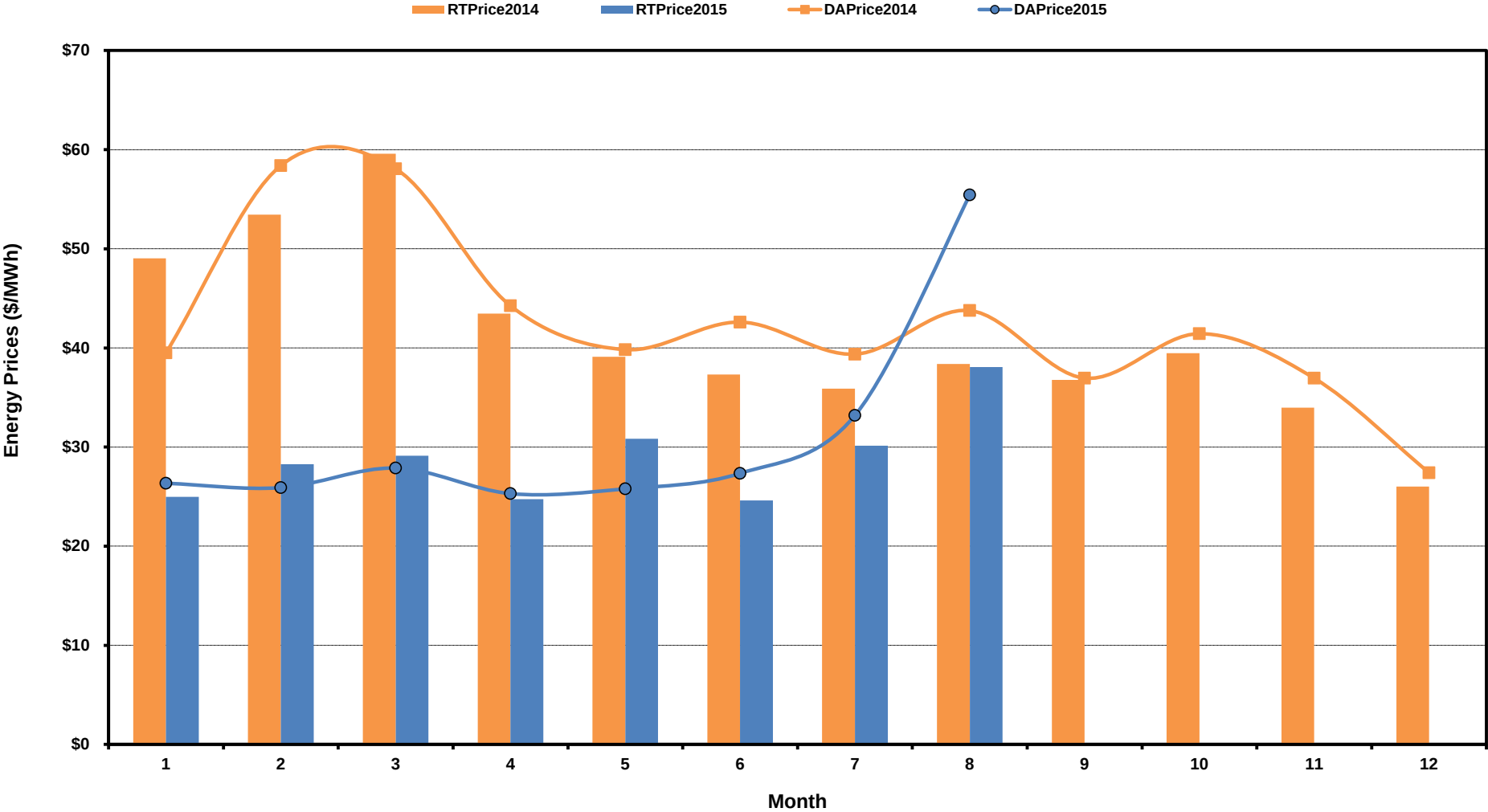
Monday, September 14, 2015

Potomac Economics, Ltd.
Independent Market Monitor

1	ERCOT-wide AVG Energy Prices DA vs. RT	chart	table
2	Load Zone Load Statistics	chart	table
3	Load Zone Energy Prices DA vs RT	chart	table
4	ERCOT-wide Implied Heat Rates DA vs RT	chart	table
5	Load Zone Implied Heat Rates DA vs RT	chart	table
6	Daily Average Reserve Adder Value and Duration	chart	table
7	Ancillary Services Required MW by Month	chart	table
8	Ancillary Services Required MW by Hour Ending	chart	table
9	Ancillary Services Prices by Month	chart	table
10	A/S Costs per MWh of Load by Month	chart	table
11	Ercot-wide Peaker Net Margin	chart	table
12	DA Load Forecast Errors by Hour Ending	chart	table
13	Average Wind Production by Hour Ending	chart	table
14	RT Constraint Rankings		table
	- Top 10 Constraints by Congestion Rent	chart	
	- Top 10 Constraints by Binding Frequency	chart	
15	DA Constraint Rankings		table
	- Top 10 Constraints by Congestion Rent	chart	
	- Top 10 Constraints by Binding Frequency	chart	
16	CRR Auction Prices Rankings		table
	- Top 10 PTP Obligations	chart	
	- Top 10 PTP Options	chart	

ERCOT-Wide Average Energy Prices DA vs RT

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



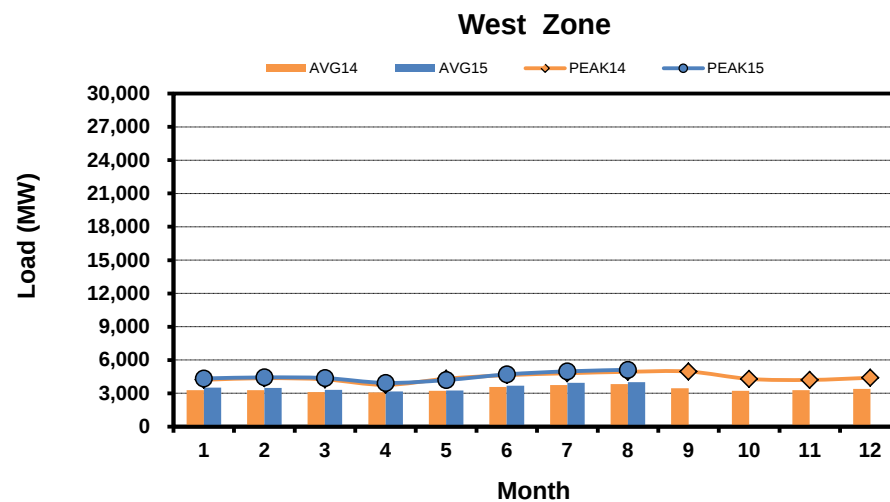
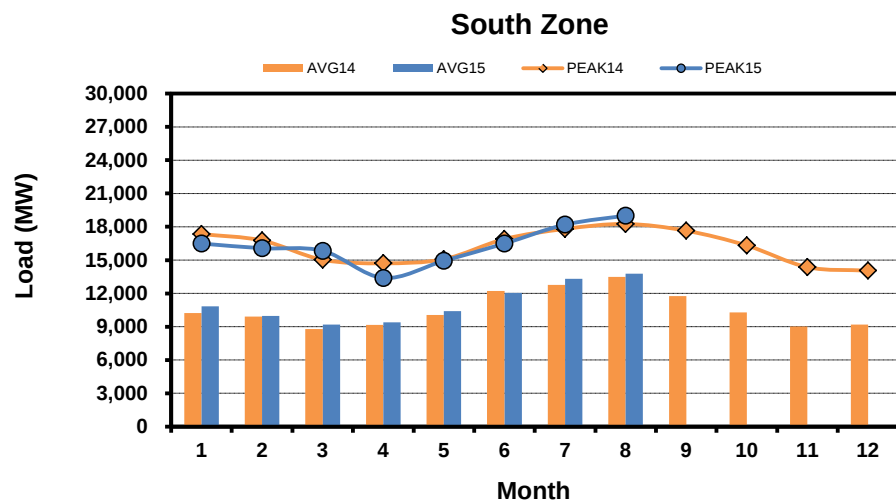
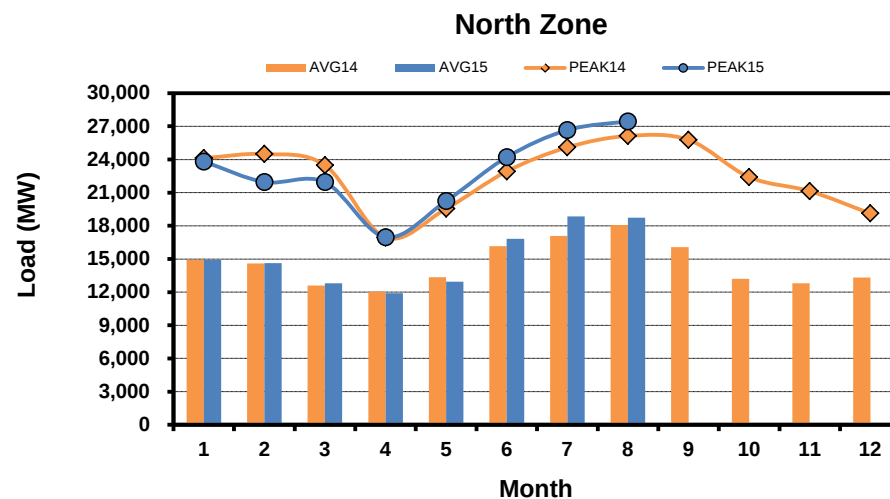
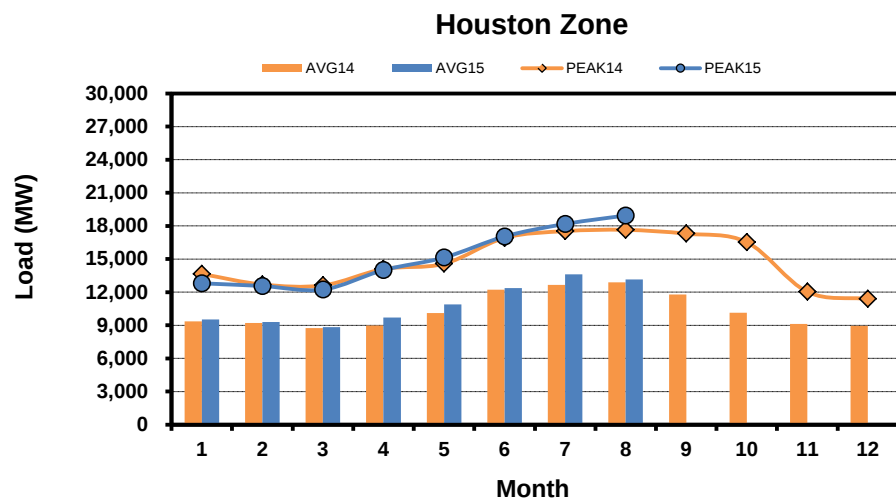
[Home <<](#)

[previous <<](#)

[next >>](#)

Load Zone Load Statistics

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



[Home <<](#)

[previous <<](#)

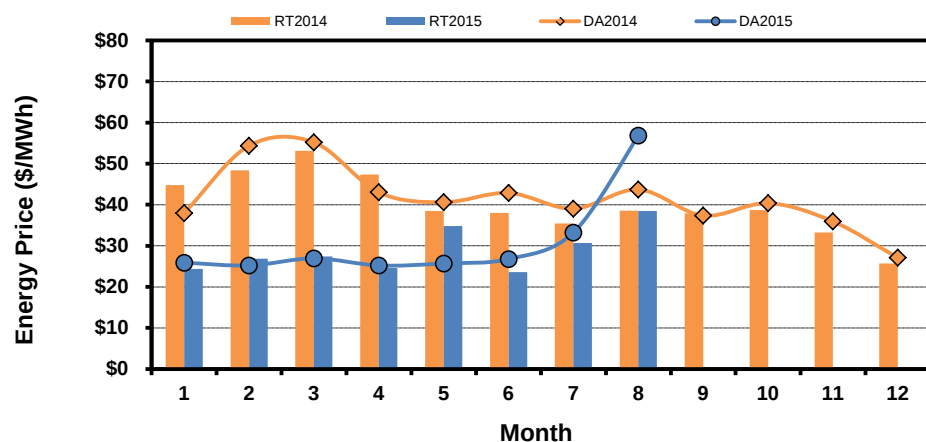
[next >>](#)

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)

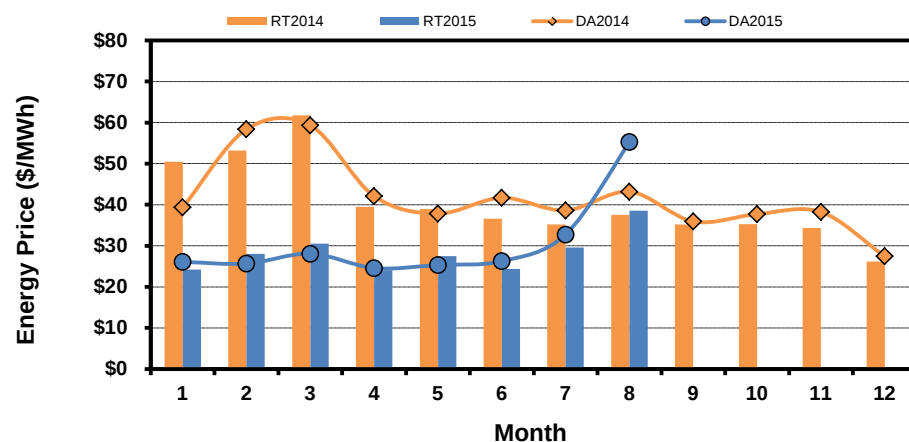
Load Zone Monthly Average Energy Price DA vs RT

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

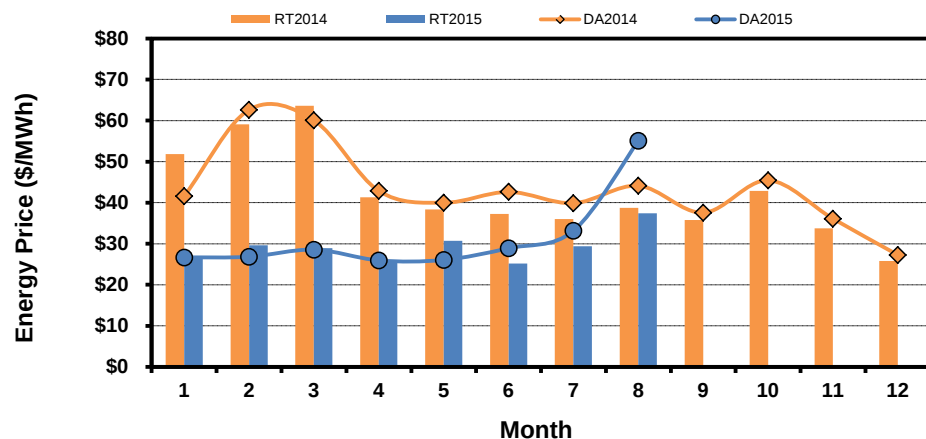
Houston Zone



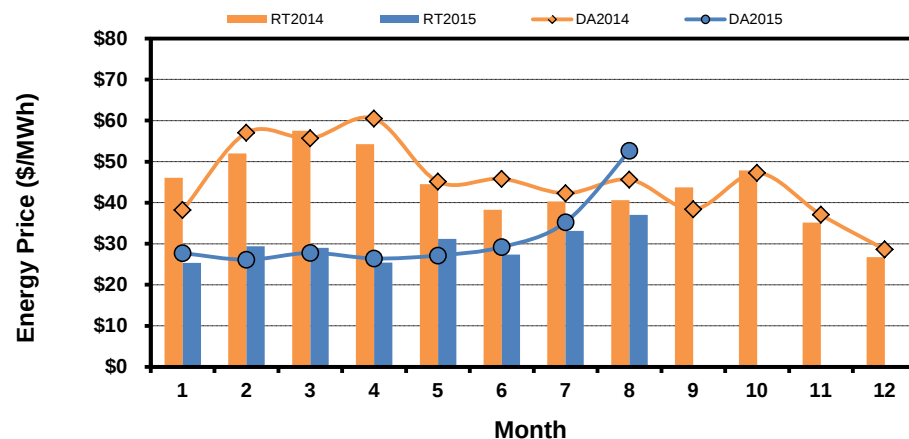
North Zone



South Zone



West Zone



[Home <<](#)

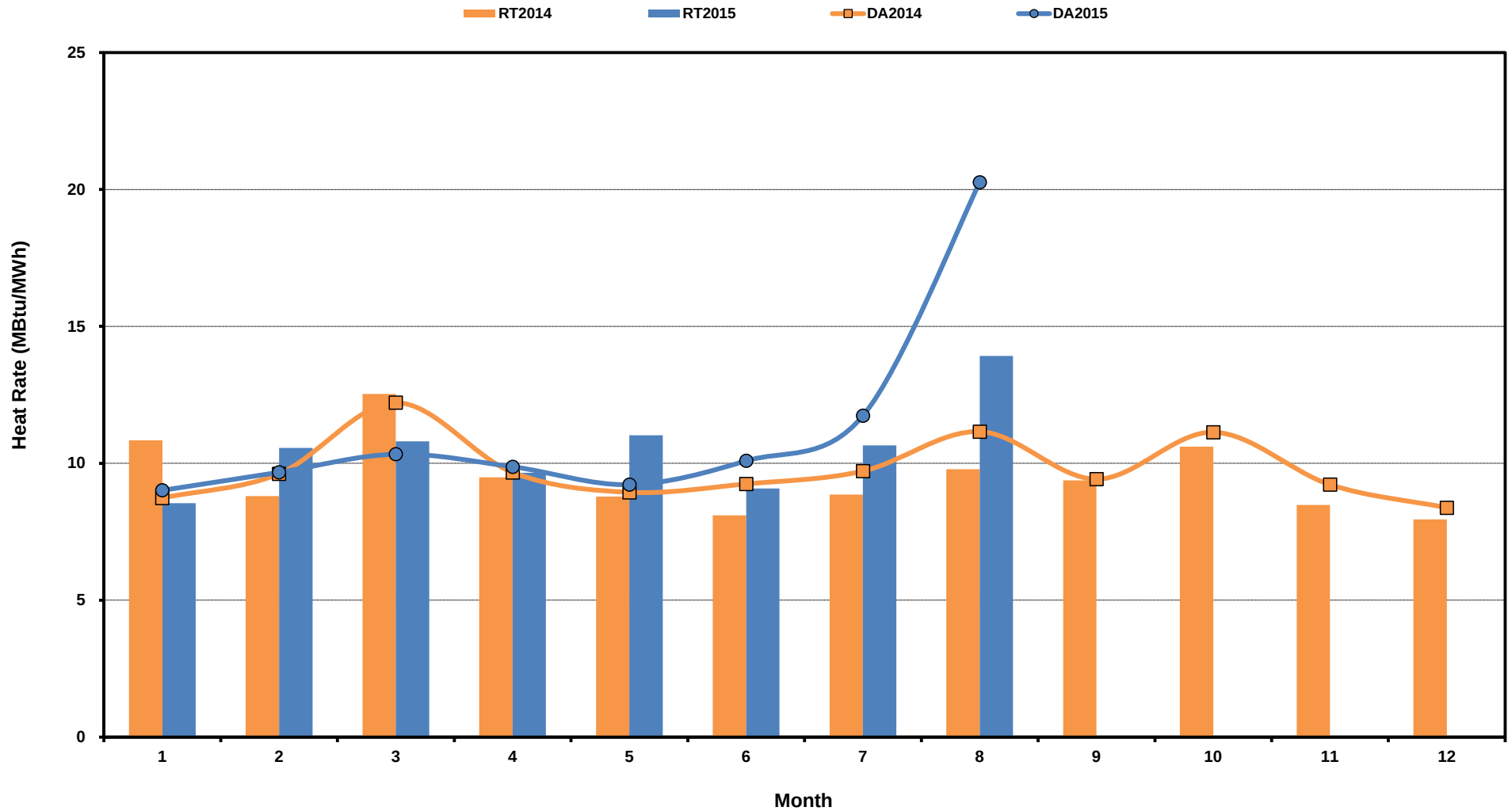
[previous <<](#)

[next >>](#)

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)



[Home <<](#)

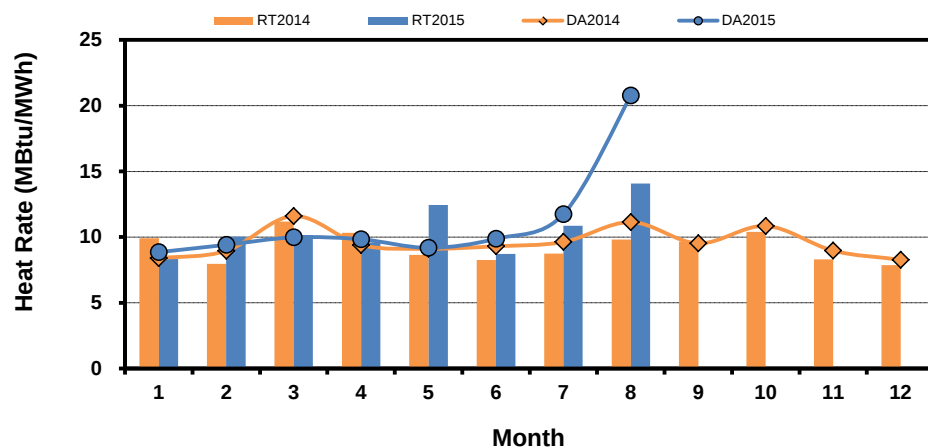
[previous <<](#)

[next >>](#)

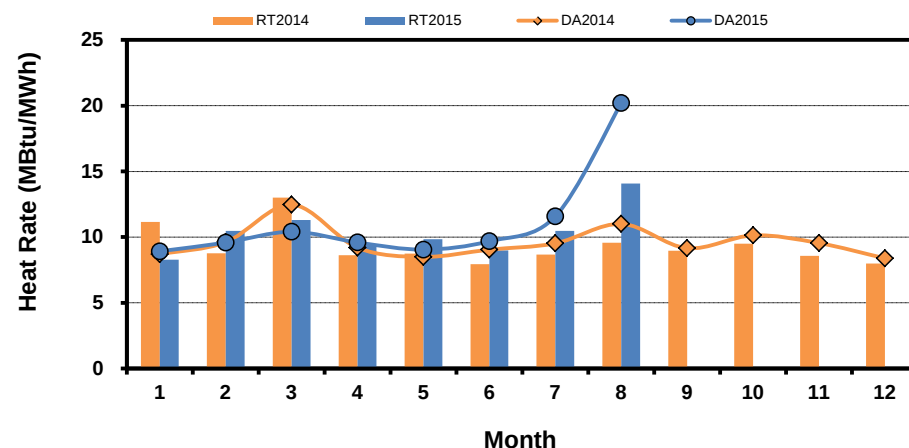
Load Zone Monthly Implied Heat Rate DA vs RT

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

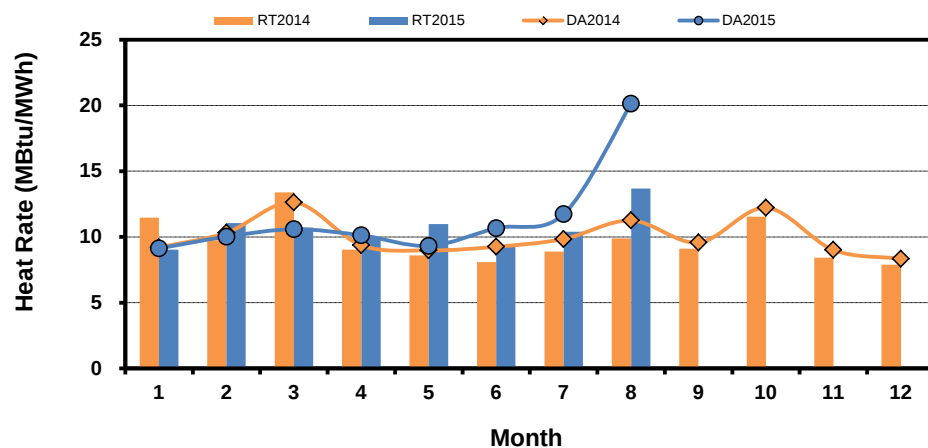
Houston Zone



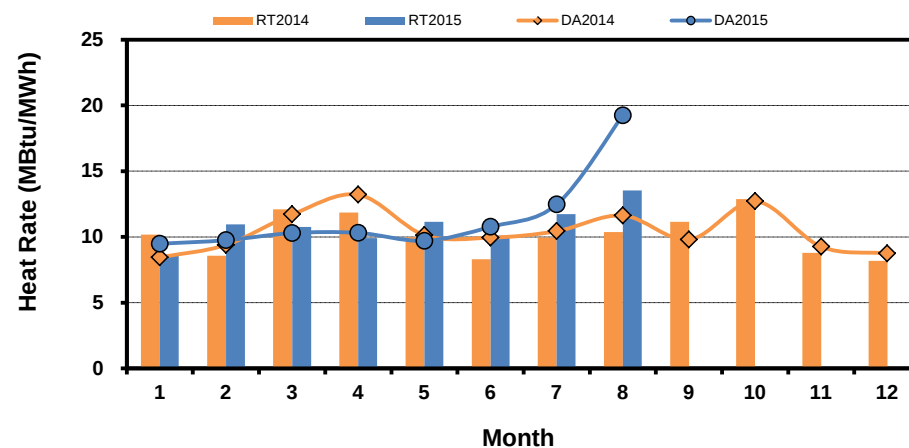
North Zone



South Zone



West Zone



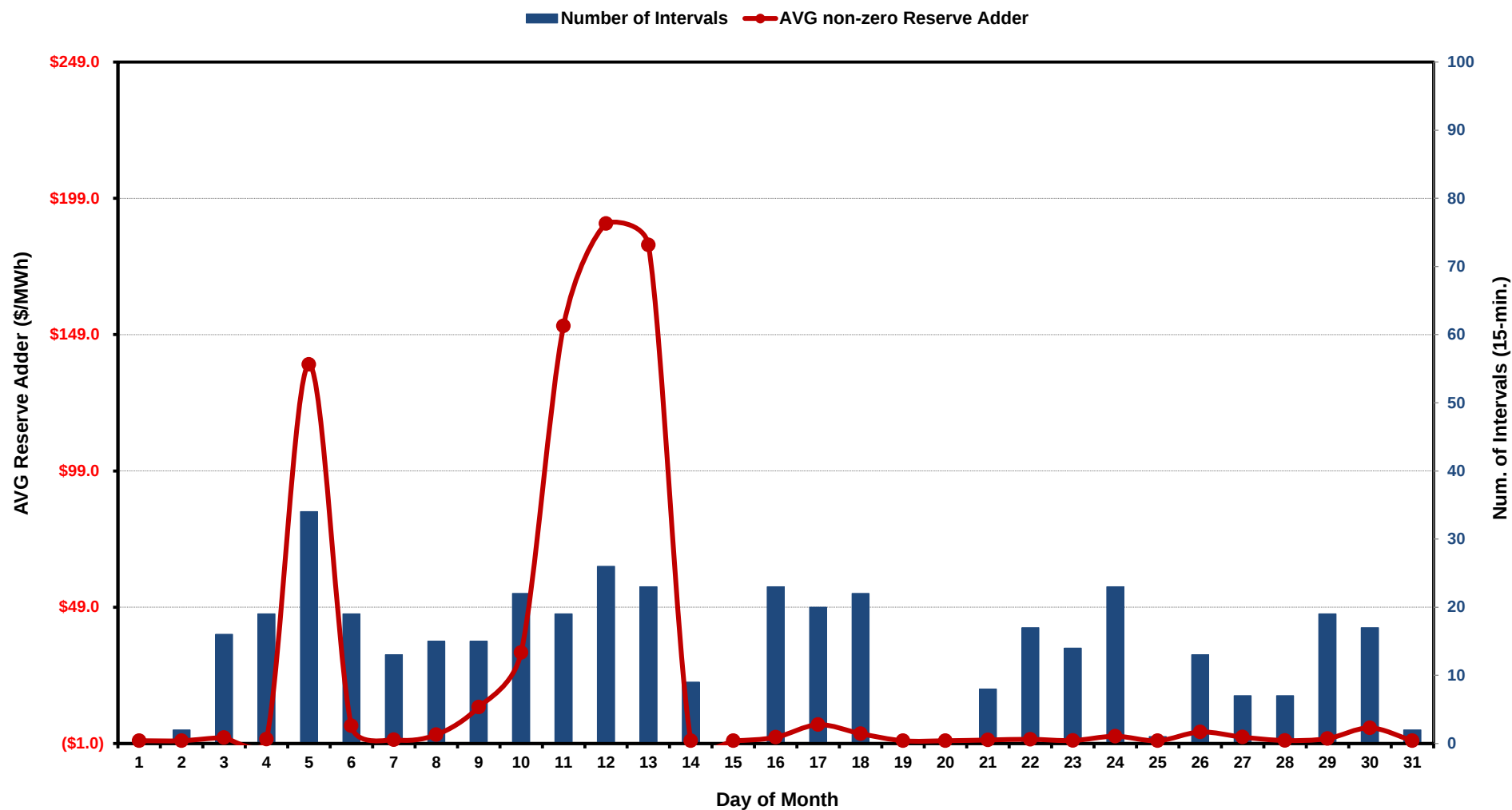
[Home <<](#)

[previous <<](#)

[next >>](#)

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 Aug-2015

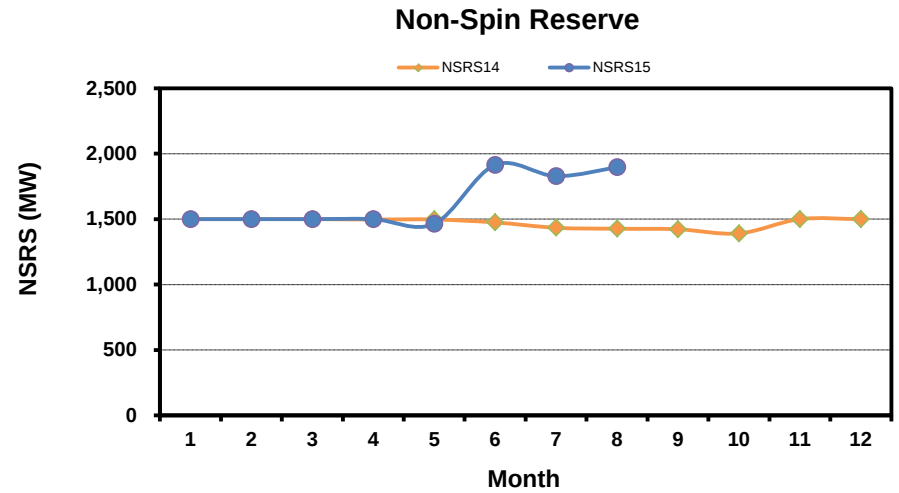
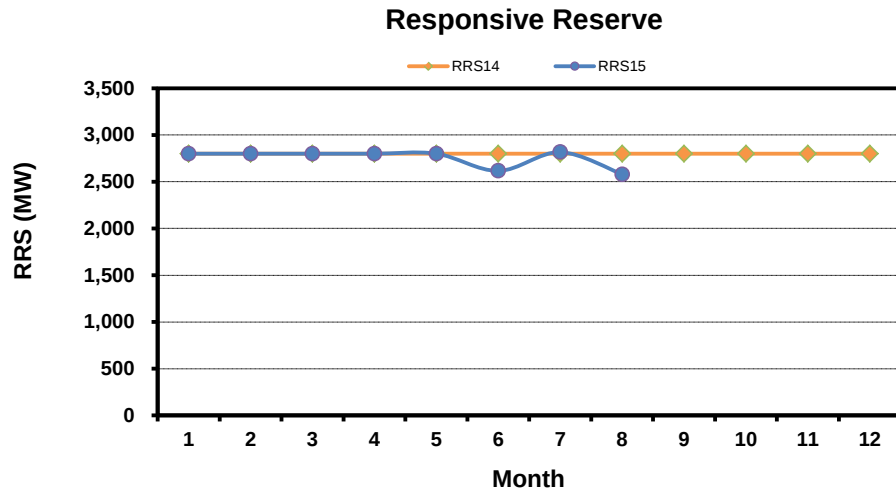
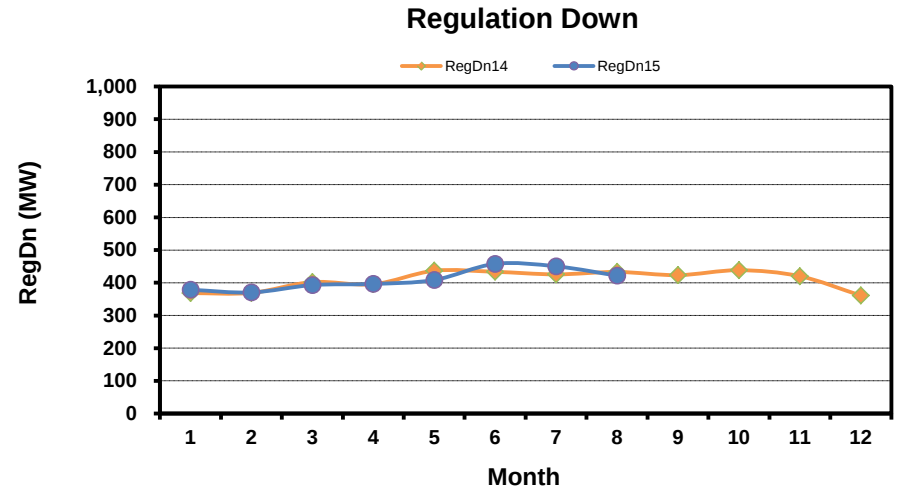
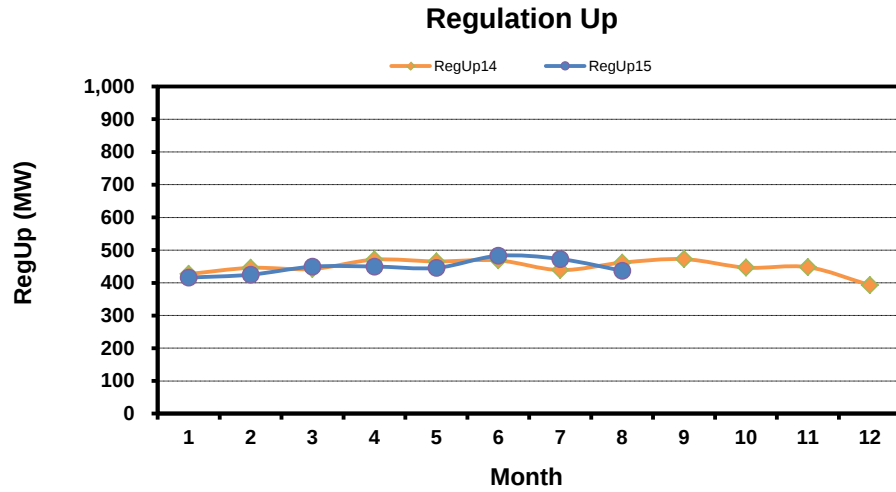


[Home <<](#)

[previous <<](#)

[next >>](#)

Monthly Average of Ancillary Services Required MW

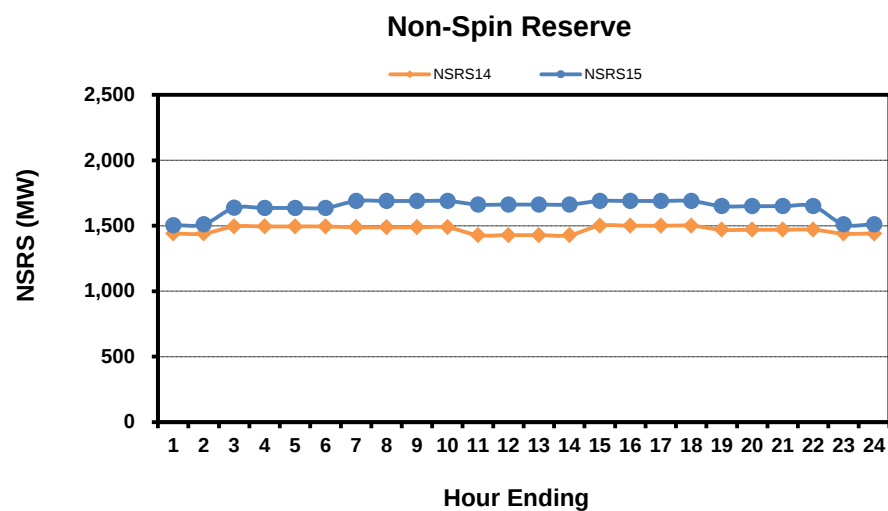
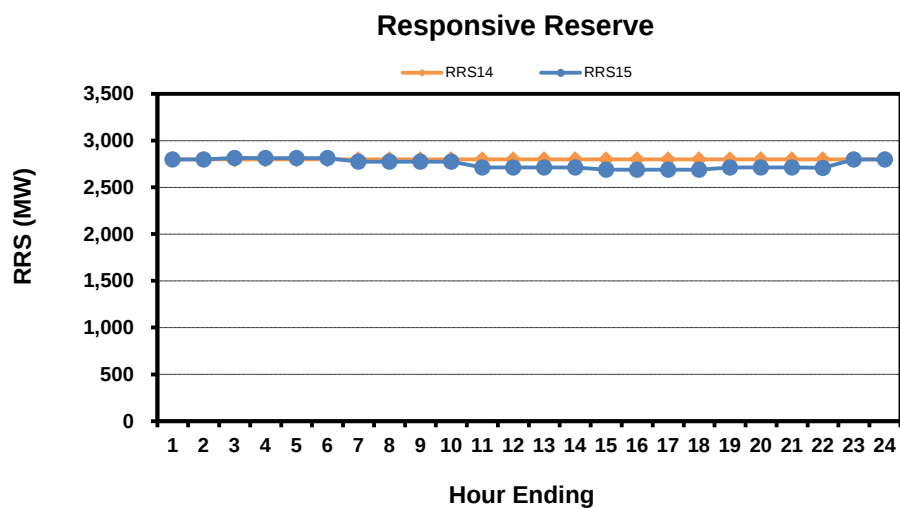
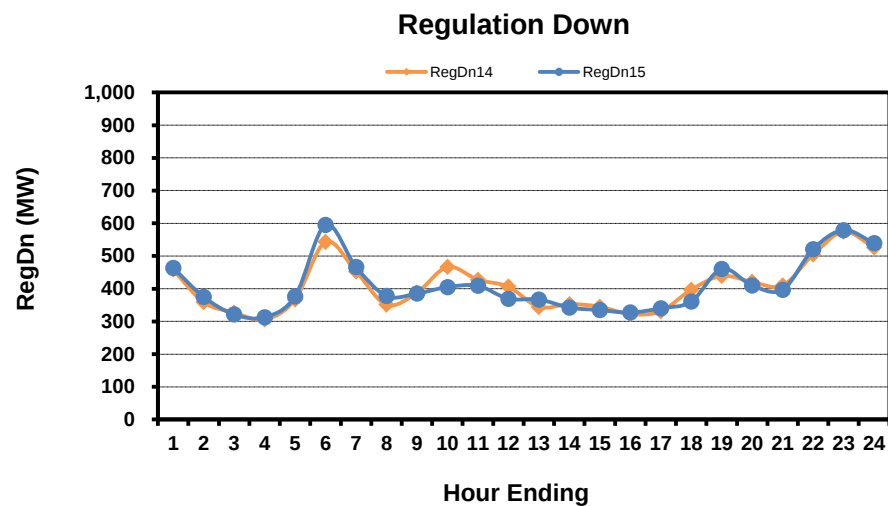
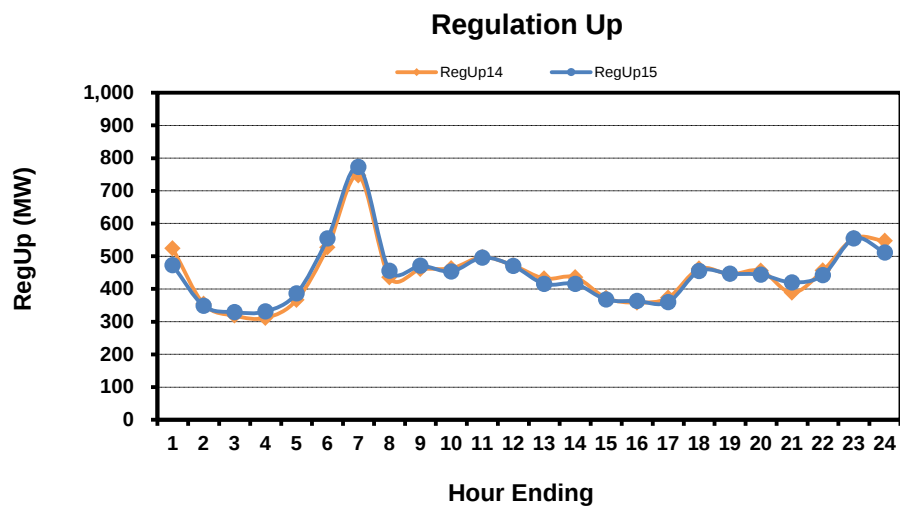


[Home <<](#)

[previous <<](#)

[next >>](#)

Hourly Average of Ancillary Services Required MW



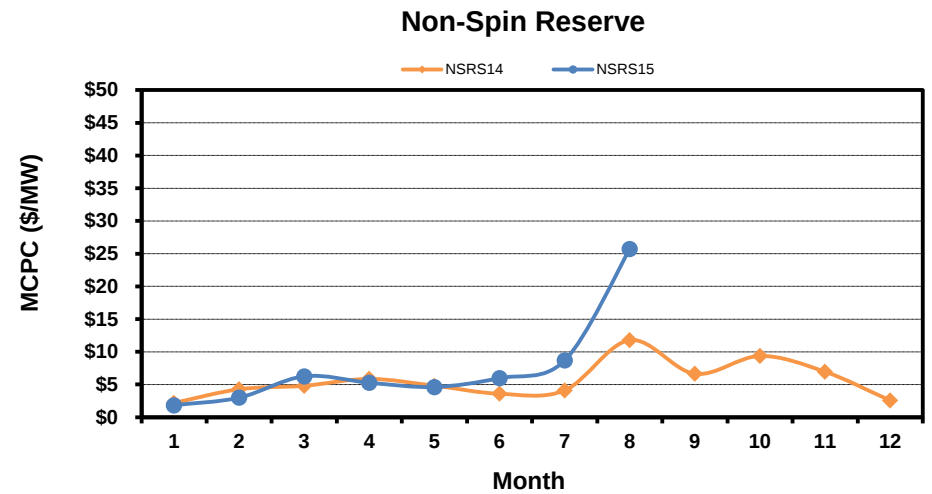
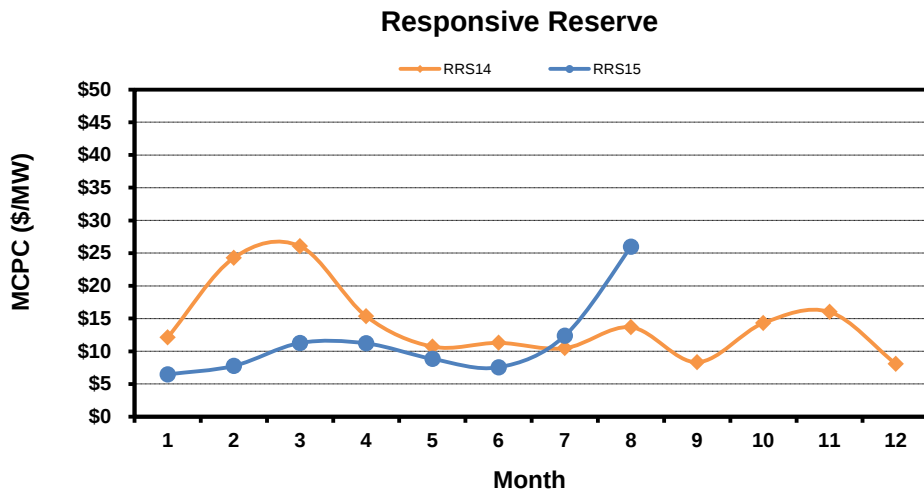
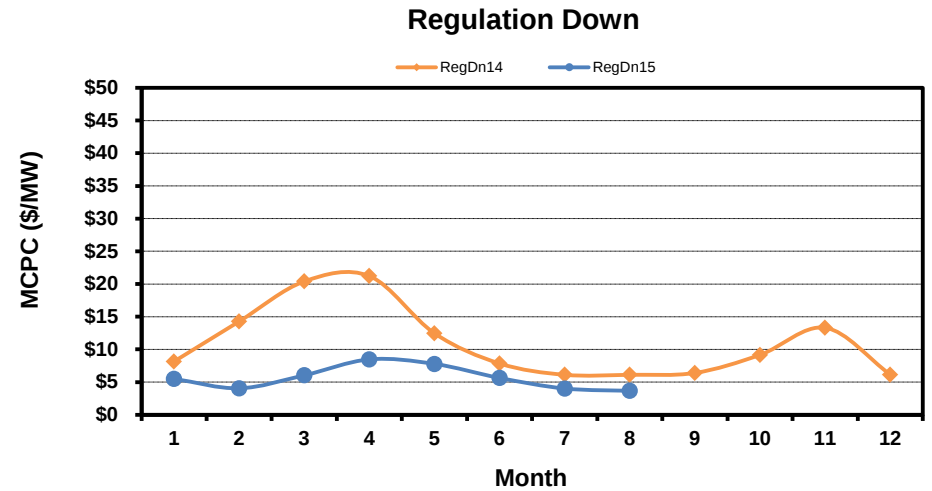
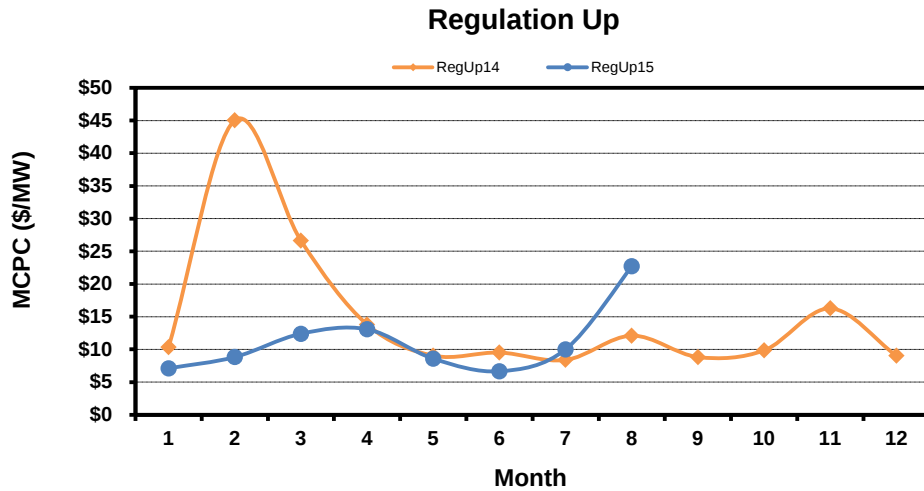
[Home <<](#)

[previous <<](#)

[next >>](#)

Monthly Average Ancillary Services Price

(weighted by A/S Quantities Required)

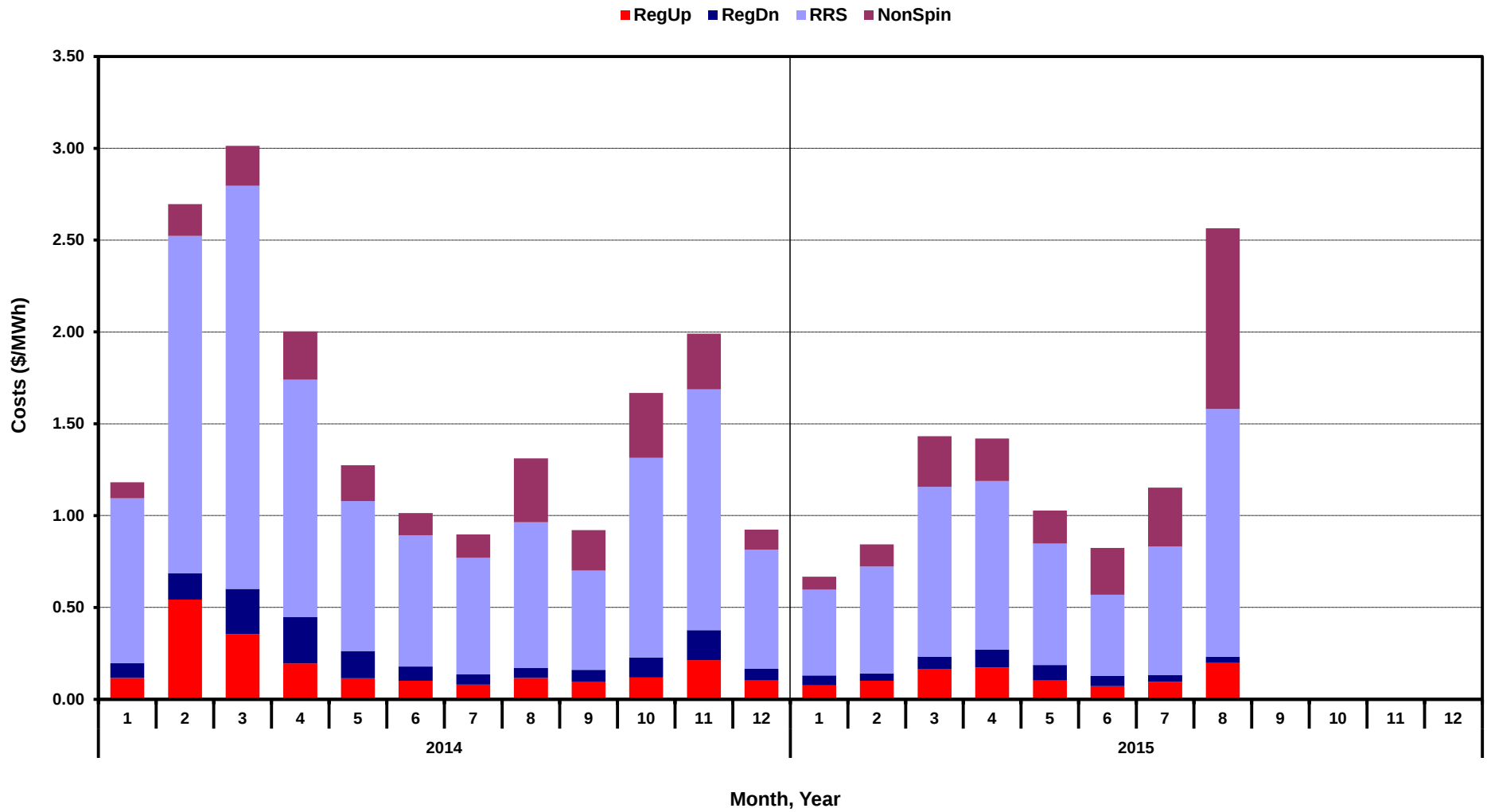


[Home <<](#)

[previous <<](#)

[next >>](#)

Monthly Average A/S Cost per MWh Load

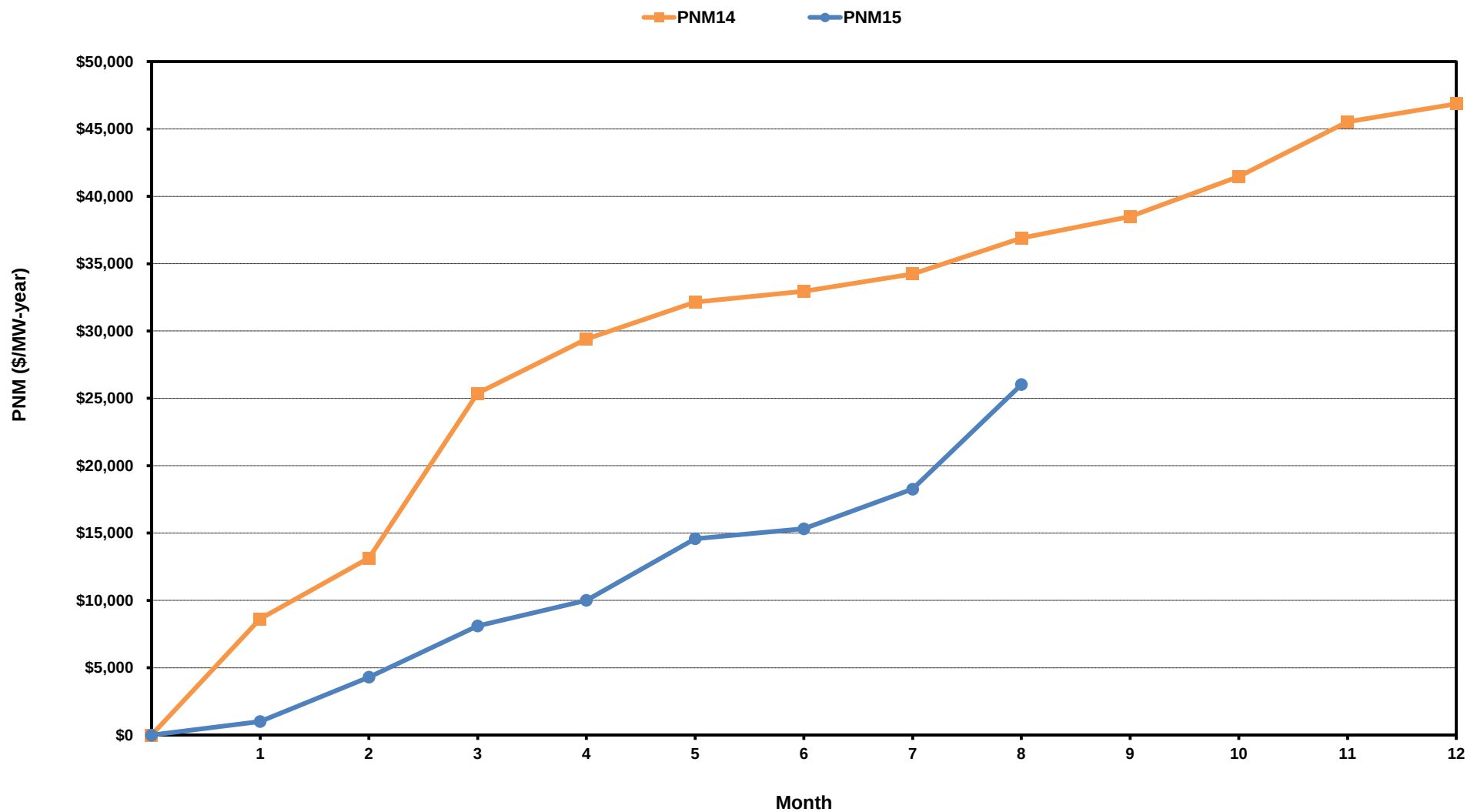


[Home <<](#)

[previous <<](#)

[next >>](#)

ERCOT-Wide Cumulative Peaker Net Margin

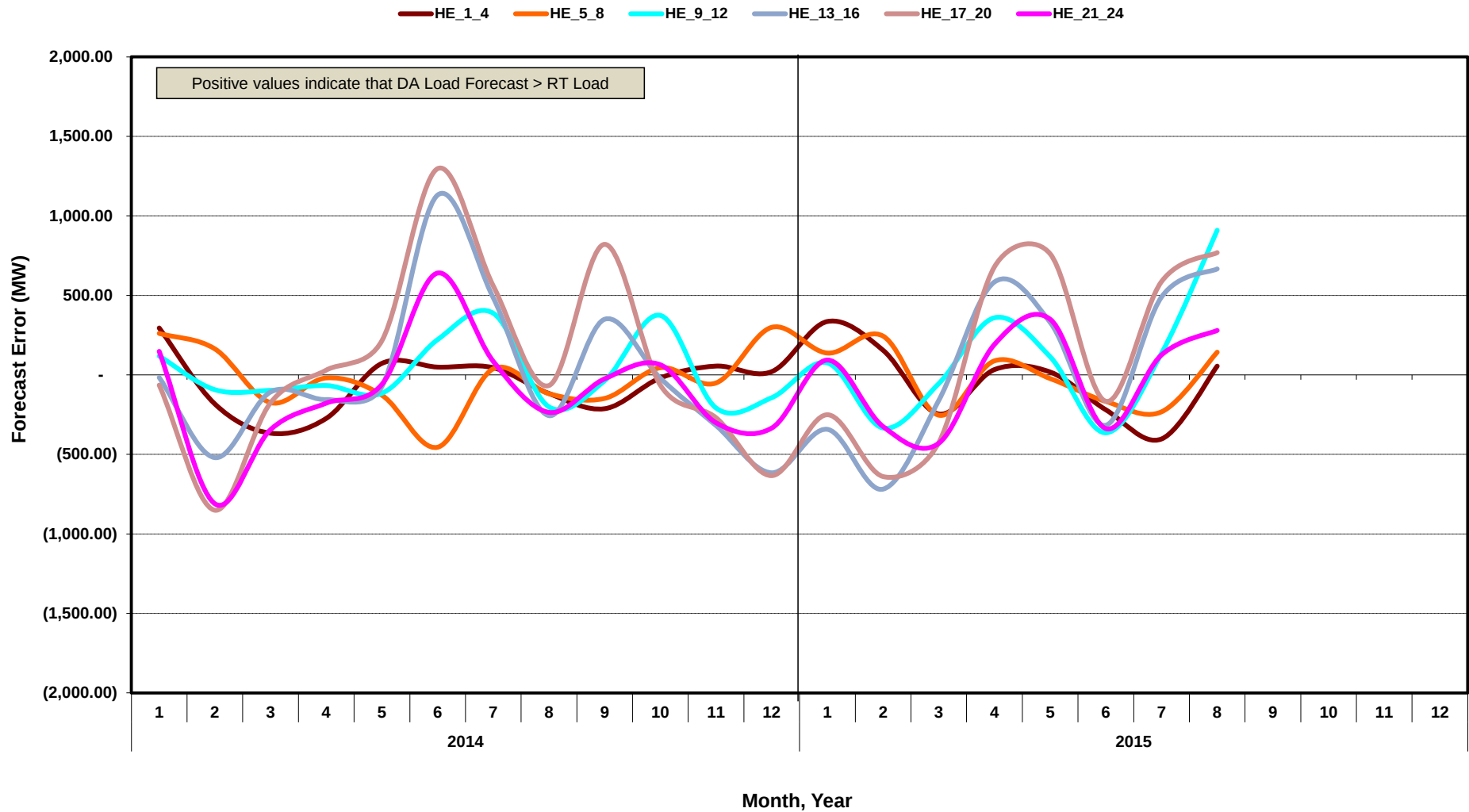


[Home <<](#)

[previous <<](#)

[next >>](#)

DA vs. RT Load Forecast Error by Hour Ending

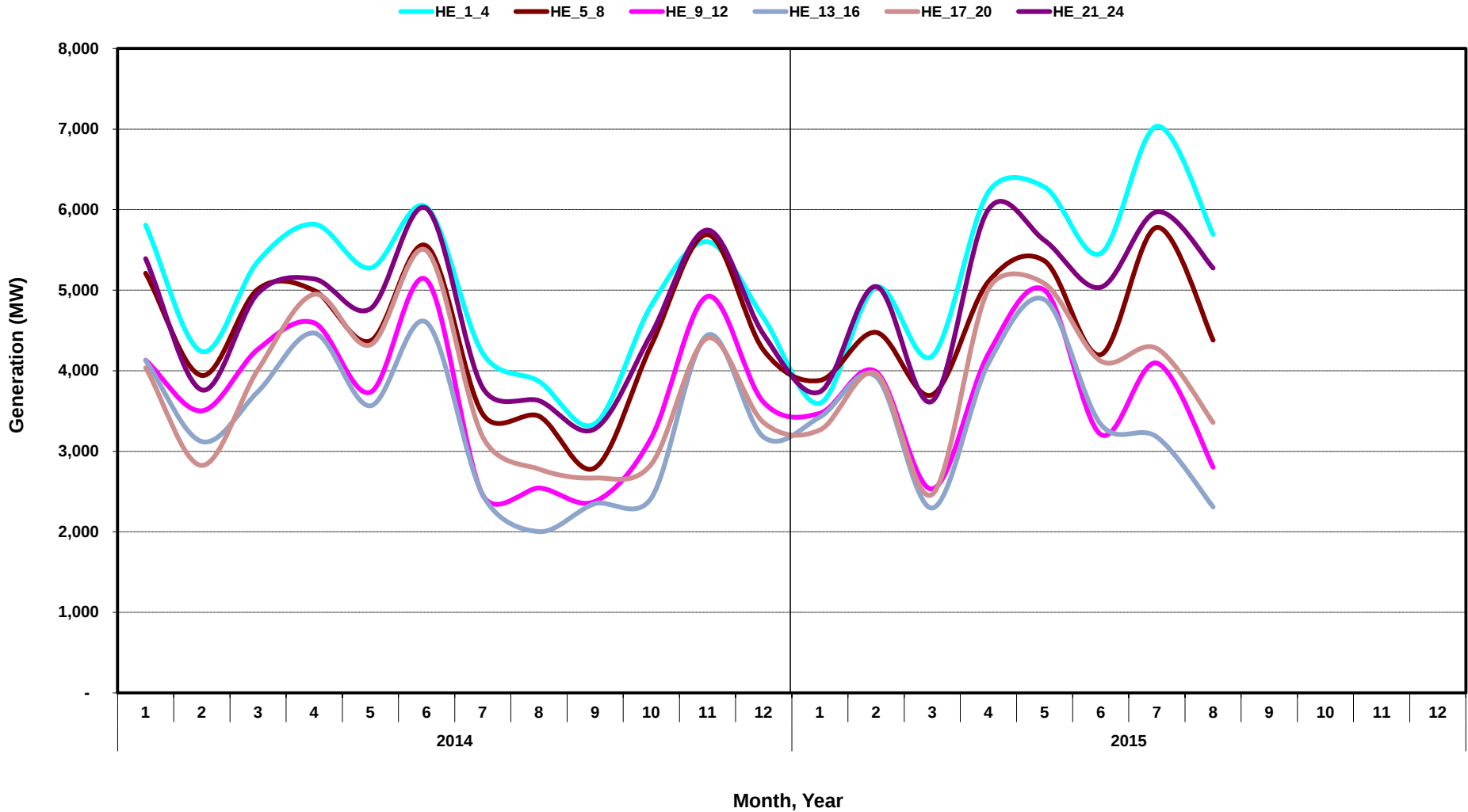


[Home <<](#)

[previous <<](#)

[next >>](#)

Monthly Average of Wind Generation by Hour Ending



[Home <<](#)

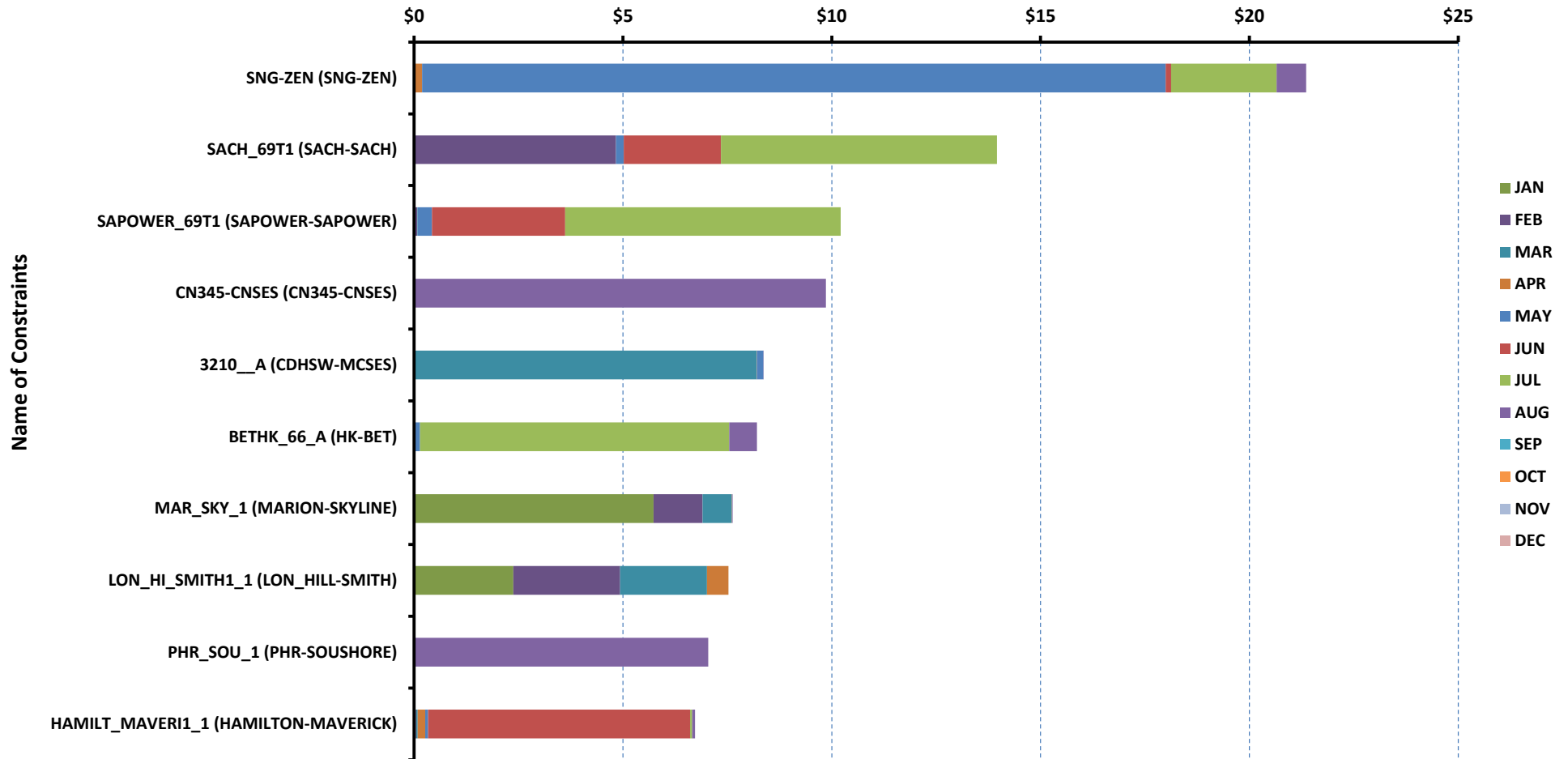
[previous <<](#)

[next >>](#)

RT Congestion Constraint Rankings - 1

Top 10 Constraints by Total Congestion Rent

Congestion Rent in \$ million



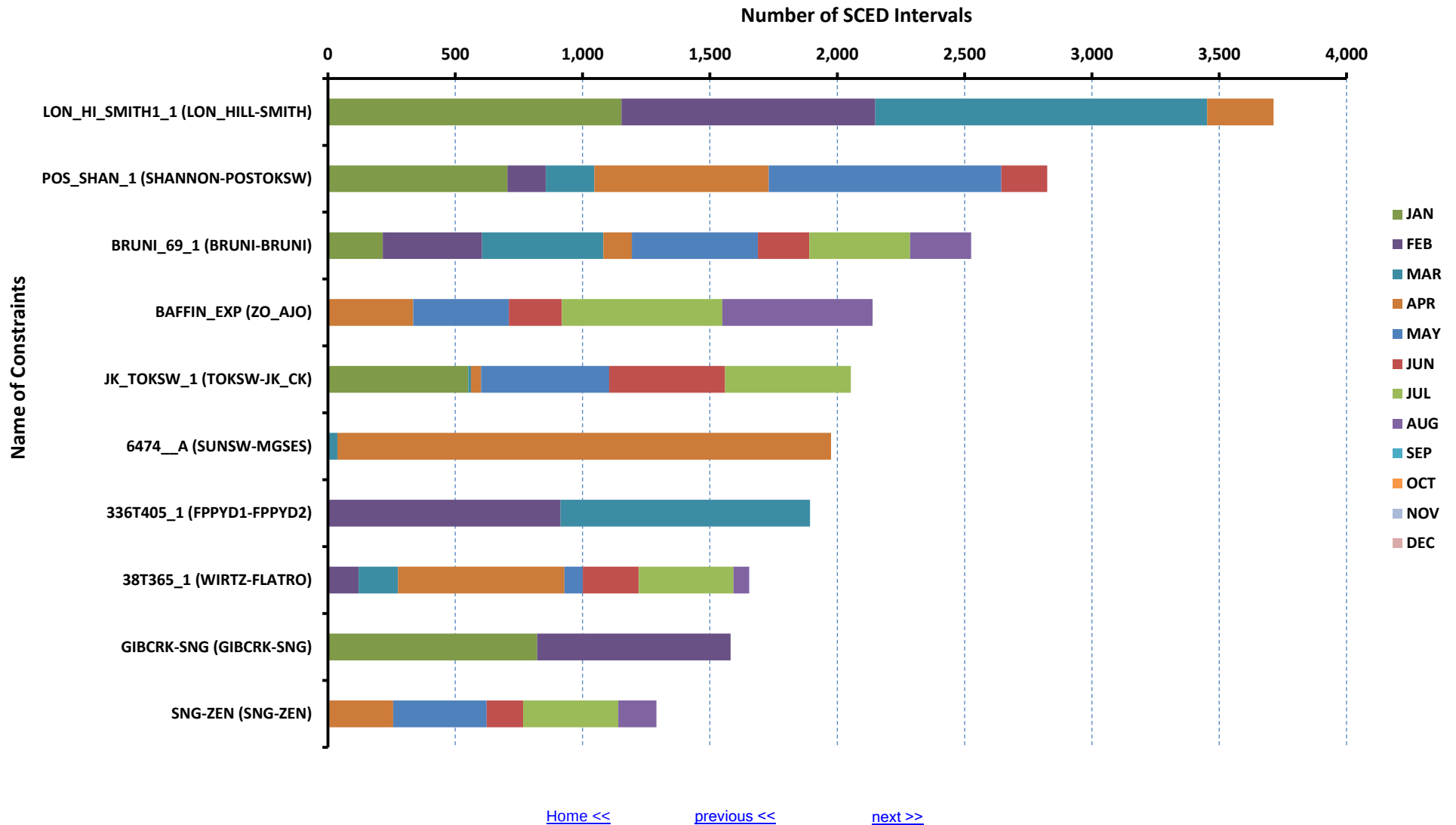
[Home <<](#)

[previous <<](#)

[next >>](#)

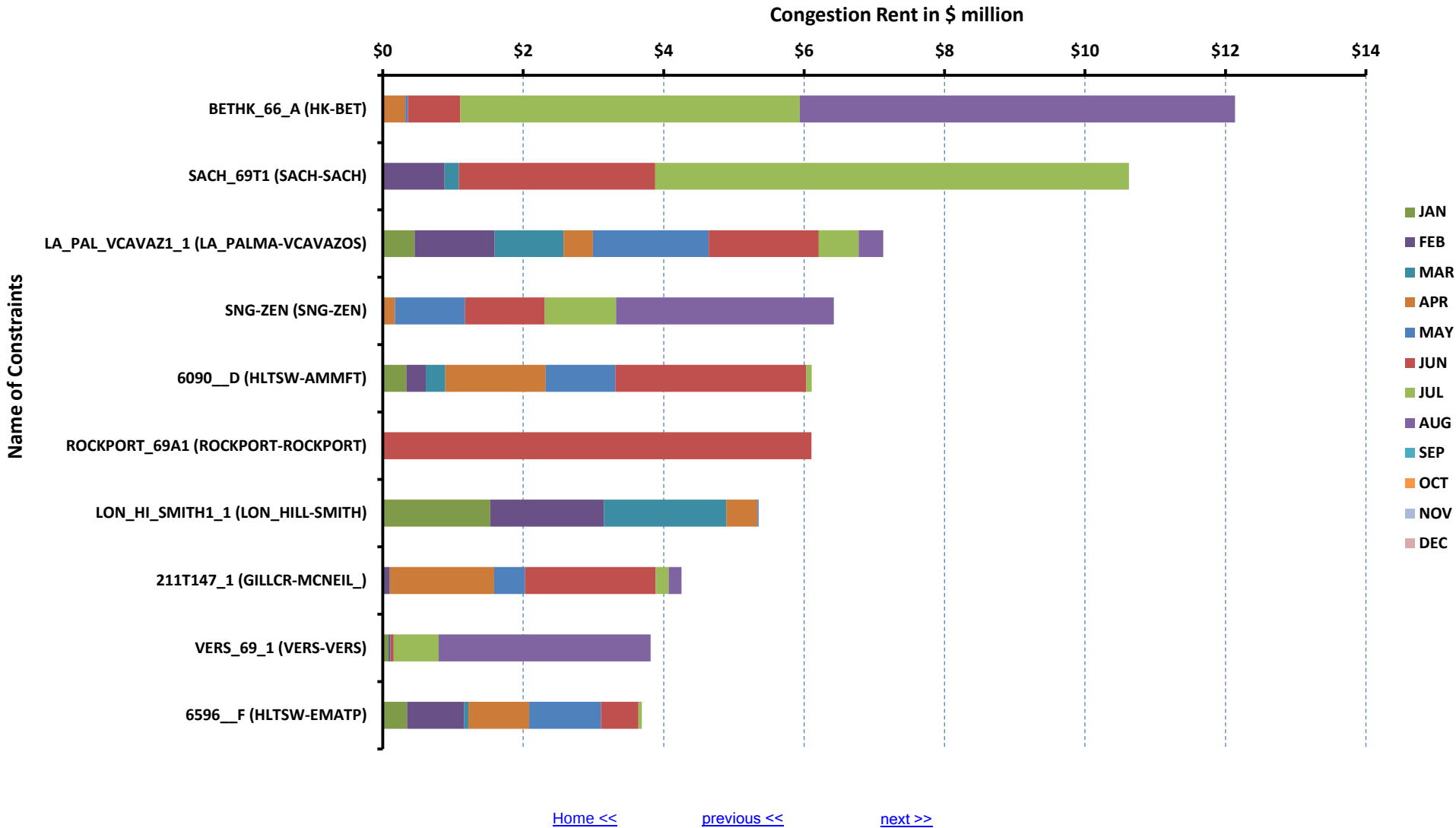
RT Congestion Constraint Rankings - 2

Top 10 Constraints by Binding Frequency



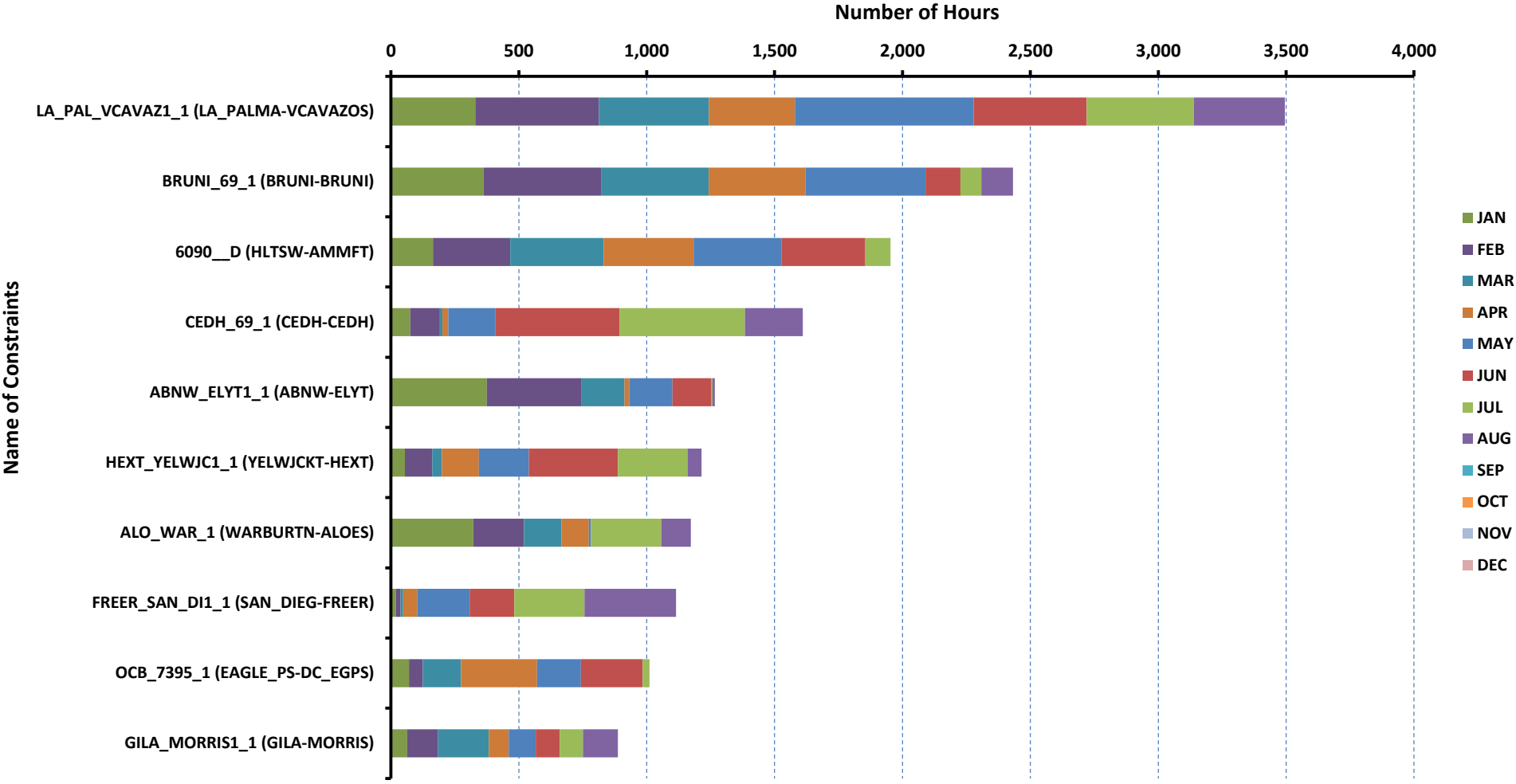
DA Congestion Constraint Rankings - 1

Top 10 Constraints by Total Congestion Rent



DA Congestion Constraint Rankings - 2

Top 10 Constraints by Binding Frequency



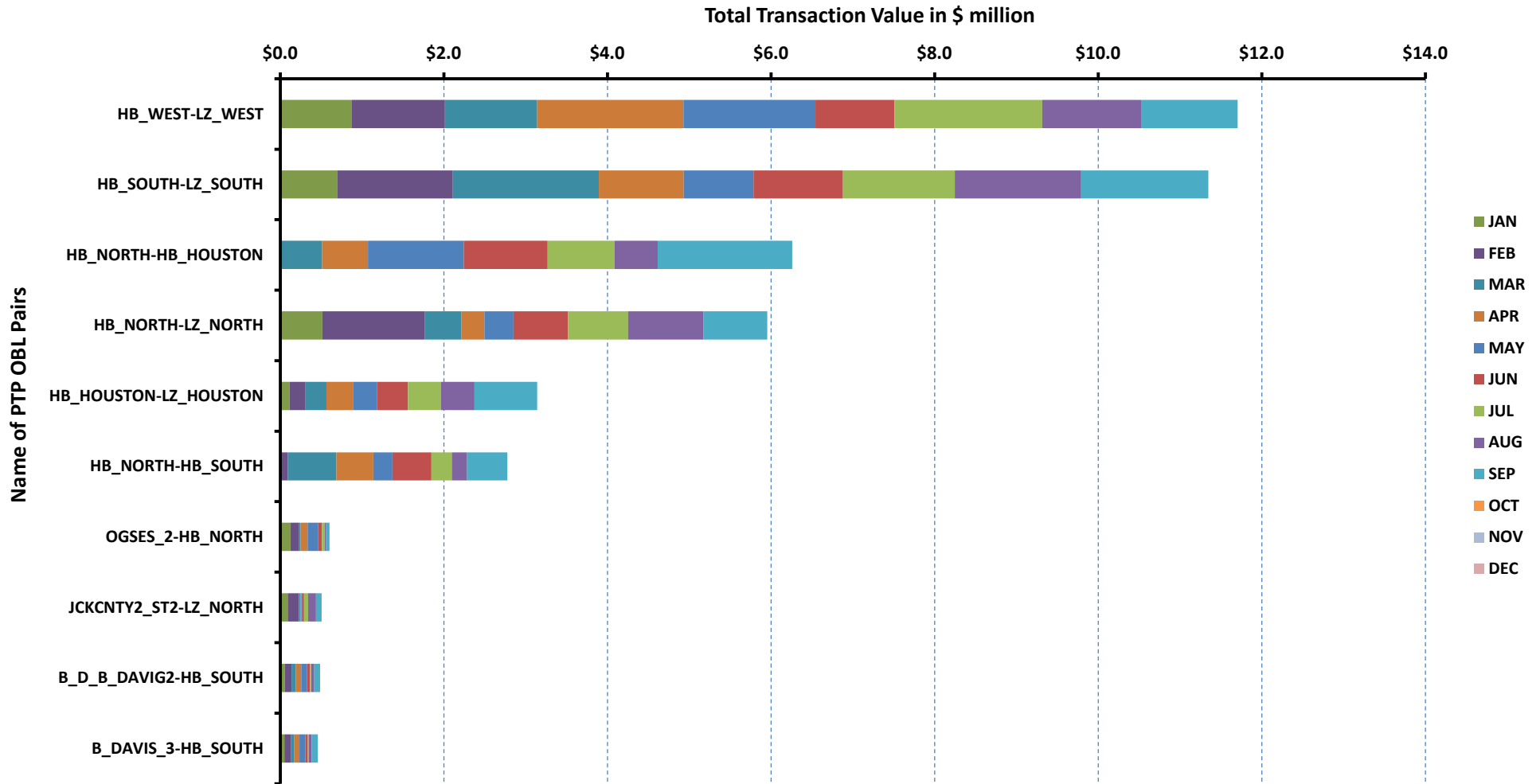
[Home <<](#)

[previous <<](#)

[next >>](#)

Top 10 CRR Pairs Ranked by Monthly Auction Values - 1

Top 10 PTP Obligations by Total Transaction Value



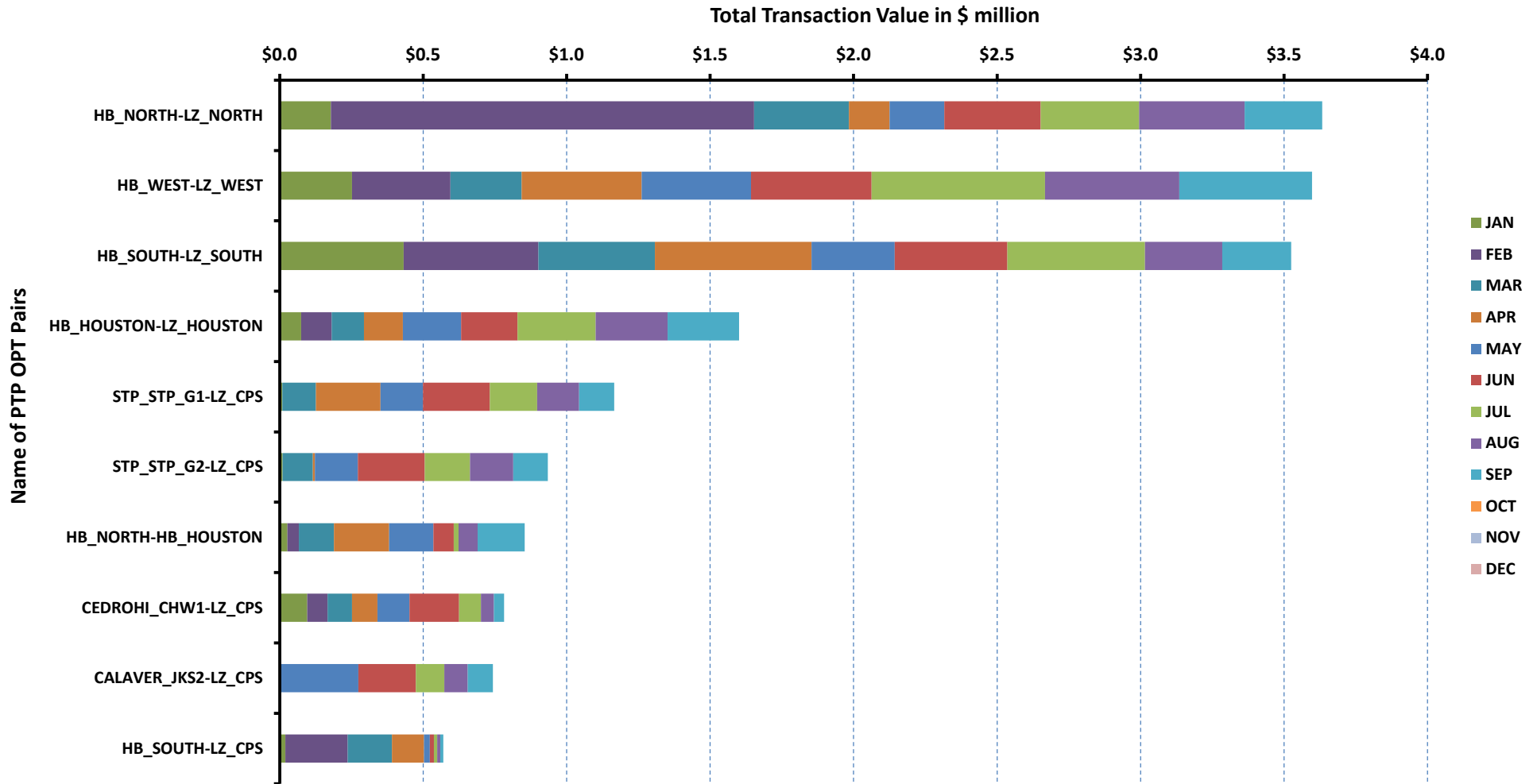
[Home <<](#)

[previous <<](#)

[next >>](#)

Top 10 CRR Pairs Ranked by Monthly Auction Values - 2

Top 10 PTP Options by Total Transaction Value



[Home <<](#)

[previous <<](#)

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	\$ 36.77
2014	10	\$ 41.43	\$ 39.46
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	\$ 25.30	\$ 24.74
2015	5	\$ 25.78	\$ 30.83
2015	6	\$ 27.35	\$ 24.63
2015	7	\$ 33.19	\$ 30.13
2015	8	\$ 55.42	\$ 38.08
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	11,777	16,075	11,756	3,452
2014	10	16,529	22,406	16,314	4,295	10,147	13,211	10,299	3,219
2014	11	12,029	21,132	14,367	4,204	9,112	12,791	9,018	3,284
2014	12	11,384	19,117	14,050	4,399	8,953	13,319	9,199	3,391
2015	1	12,803	23,814	16,491	4,340	9,538	14,918	10,830	3,497
2015	2	12,561	21,965	16,070	4,433	9,308	14,612	9,980	3,479
2015	3	12,235	21,950	15,837	4,373	8,828	12,810	9,183	3,318
2015	4	14,000	16,971	13,396	3,935	9,708	11,898	9,403	3,174
2015	5	15,136	20,244	14,937	4,192	10,881	12,951	10,388	3,262
2015	6	17,048	24,210	16,491	4,703	12,376	16,831	12,038	3,693
2015	7	18,179	26,664	18,197	4,978	13,622	18,837	13,307	3,939
2015	8	18,945	27,444	19,000	5,116	13,146	18,739	13,766	3,991
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	\$ 37.95	\$ 35.16	\$ 35.74	\$ 43.74	\$ 37.35	\$ 35.92	\$ 37.54	\$ 38.39
2014	10	\$ 38.72	\$ 35.31	\$ 42.90	\$ 47.90	\$ 40.37	\$ 37.70	\$ 45.44	\$ 47.29
2014	11	\$ 33.28	\$ 34.32	\$ 33.73	\$ 35.19	\$ 35.93	\$ 38.23	\$ 36.09	\$ 37.07
2014	12	\$ 25.71	\$ 26.15	\$ 25.84	\$ 26.76	\$ 27.08	\$ 27.44	\$ 27.26	\$ 28.60
2015	1	\$ 24.37	\$ 24.24	\$ 26.39	\$ 25.32	\$ 25.89	\$ 26.09	\$ 26.67	\$ 27.72
2015	2	\$ 26.86	\$ 28.03	\$ 29.60	\$ 29.35	\$ 25.21	\$ 25.66	\$ 26.83	\$ 26.10
2015	3	\$ 27.42	\$ 30.50	\$ 28.92	\$ 29.01	\$ 26.93	\$ 28.08	\$ 28.55	\$ 27.76
2015	4	\$ 24.59	\$ 24.08	\$ 25.53	\$ 25.39	\$ 25.21	\$ 24.58	\$ 25.94	\$ 26.41
2015	5	\$ 34.83	\$ 27.49	\$ 30.71	\$ 31.20	\$ 25.68	\$ 25.30	\$ 26.05	\$ 27.14
2015	6	\$ 23.61	\$ 24.37	\$ 25.19	\$ 27.36	\$ 26.77	\$ 26.26	\$ 28.91	\$ 29.18
2015	7	\$ 30.70	\$ 29.60	\$ 29.42	\$ 33.15	\$ 33.23	\$ 32.75	\$ 33.17	\$ 35.26
2015	8	\$ 38.48	\$ 38.53	\$ 37.40	\$ 37.01	\$ 56.83	\$ 55.27	\$ 55.10	\$ 52.67
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	\$ 36.77	9.38	\$ 36.95	9.42
2014	10	\$ 3.72	\$ 39.46	10.61	\$ 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	9.66	\$ 25.30	9.87
2015	5	\$ 2.80	\$ 30.83	11.03	\$ 25.78	9.22
2015	6	\$ 2.71	\$ 24.63	9.09	\$ 27.35	10.09
2015	7	\$ 2.83	\$ 30.13	10.65	\$ 33.19	11.74
2015	8	\$ 2.74	\$ 38.08	13.92	\$ 55.42	20.26
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	9.68	9.11	8.96	11.15
2014	10	10.85	12.21	10.13	12.71	10.41	11.53	9.49	12.87
2014	11	8.97	9.01	9.54	9.25	8.31	8.42	8.57	8.78
2014	12	8.28	8.33	8.39	8.74	7.86	7.90	7.99	8.18
2015	1	8.86	9.12	8.92	9.48	8.34	9.03	8.29	8.66
2015	2	9.41	10.02	9.58	9.75	10.03	11.05	10.47	10.96
2015	3	9.98	10.58	10.41	10.29	10.16	10.72	11.30	10.75
2015	4	9.84	10.12	9.59	10.31	9.60	9.96	9.40	9.91
2015	5	9.19	9.32	9.05	9.70	12.46	10.98	9.83	11.16
2015	6	9.88	10.67	9.69	10.76	8.71	9.29	8.99	10.09
2015	7	11.75	11.73	11.58	12.47	10.85	10.40	10.47	11.72
2015	8	20.77	20.14	20.20	19.25	14.07	13.67	14.09	13.53
2015	9								
2015	10								
2015	11								
2015	12								

YEAR	MONTH	DAY	Intervals	RS_Adder
2015	8	1	0	\$ -
2015	8	2	2	\$ 0.01
2015	8	3	16	\$ 1.16
2015	8	4	19	\$ 0.59
2015	8	5	34	\$ 138.03
2015	8	6	19	\$ 5.49
2015	8	7	13	\$ 0.35
2015	8	8	15	\$ 2.18
2015	8	9	15	\$ 12.34
2015	8	10	22	\$ 32.35
2015	8	11	19	\$ 152.20
2015	8	12	26	\$ 189.75
2015	8	13	23	\$ 181.87
2015	8	14	9	\$ 0.02
2015	8	15	0	\$ -
2015	8	16	23	\$ 1.27
2015	8	17	20	\$ 5.88
2015	8	18	22	\$ 2.60
2015	8	19	0	\$ -
2015	8	20	0	\$ -
2015	8	21	8	\$ 0.28
2015	8	22	17	\$ 0.53
2015	8	23	14	\$ 0.08
2015	8	24	23	\$ 1.65
2015	8	25	1	\$ 0.01
2015	8	26	13	\$ 3.21
2015	8	27	7	\$ 1.32
2015	8	28	7	\$ 0.10
2015	8	29	19	\$ 0.79
2015	8	30	17	\$ 4.72
2015	8	31	2	\$ 0.01

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
2015	5	409	1,464	2,800	446
2015	6	458	1,915	2,616	483
2015	7	450	1,828	2,817	473
2015	8	422	1,897	2,579	437
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	464	1,504	2,800	473
2015	2	375	1,510	2,800	349
2015	3	322	1,637	2,814	329
2015	4	313	1,636	2,814	331
2015	5	377	1,636	2,814	386
2015	6	595	1,636	2,814	554
2015	7	466	1,689	2,776	773
2015	8	378	1,689	2,776	456
2015	9	385	1,689	2,776	471
2015	10	405	1,689	2,776	454
2015	11	409	1,662	2,714	496
2015	12	369	1,662	2,714	470
2015	13	367	1,662	2,714	415
2015	14	342	1,662	2,714	416
2015	15	335	1,689	2,691	368
2015	16	327	1,689	2,691	363
2015	17	340	1,689	2,691	359
2015	18	361	1,689	2,691	455
2015	19	461	1,650	2,714	446
2015	20	410	1,650	2,714	444
2015	21	397	1,650	2,714	420
2015	22	521	1,650	2,710	442
2015	23	579	1,510	2,800	555
2015	24	539	1,510	2,800	511

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	\$ 7.78	\$ 4.63	\$ 8.84	\$ 8.58
2015	6	\$ 5.63	\$ 5.98	\$ 7.56	\$ 6.65
2015	7	\$ 4.01	\$ 8.69	\$ 12.37	\$ 10.00
2015	8	\$ 3.67	\$ 25.73	\$ 25.98	\$ 22.70
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	\$ 0.08	\$ 0.18	\$ 0.66	\$ 0.10
	6	\$ 0.06	\$ 0.25	\$ 0.44	\$ 0.07
	7	\$ 0.04	\$ 0.32	\$ 0.70	\$ 0.10
	8	\$ 0.03	\$ 0.98	\$ 1.35	\$ 0.20
	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	\$ 4,579	\$ 14,579
2015	6	\$ 738	\$ 15,317
2015	7	\$ 2,946	\$ 18,263
2015	8	\$ 7,767	\$ 26,030
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	18.14	330.45	761.37	350.16	(22.99)	114.08
	6	(219.39)	(316.61)	(166.26)	(337.55)	(166.60)	(364.09)
	7	(402.82)	489.99	586.95	125.80	(232.08)	136.13
	8	55.31	666.76	769.16	279.82	142.93	909.89
	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	6,280	4,882	5,081	5,617	5,362	5,000
	6	5,457	3,335	4,120	5,036	4,199	3,209
	7	7,034	3,176	4,275	5,973	5,779	4,094
	8	5,692	2,309	3,357	5,275	4,380	2,803
	9						
	10						
	11						
	12						

category	year	item	rankvar	rank	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
FREQ_EXIST	2015	LON_HI_SMITH1_1 (LON_HILL-SMITH)	3,713	1	1,153	996	1,303	261	-	-	-	-	0	0	0	0
FREQ_EXIST	2015	POS_SHAN_1 (SHANNON-POSTOKSW)	2,825	2	705	151	190	685	913	181	-	-	0	0	0	0
FREQ_EXIST	2015	BRUNI_69_1 (BRUNI-BRUNI)	2,526	3	216	389	476	112	495	202	396	240	0	0	0	0
FREQ_EXIST	2015	BAFFIN_EXP (ZO_AJO)	2,139	4	-	-	-	335	376	207	631	590	0	0	0	0
FREQ_EXIST	2015	JK_TOKSW_1 (TOKSW-JK_CK)	2,054	5	551	-	11	40	502	455	495	-	0	0	0	0
FREQ_EXIST	2015	6474_A (SUNSW-MGSES)	1,976	6	-	-	37	1,939	-	-	-	-	0	0	0	0
FREQ_EXIST	2015	336T405_1 (FPPYD1-FPPYD2)	1,893	7	-	914	979	-	-	-	-	-	0	0	0	0
FREQ_EXIST	2015	38T365_1 (WIRTZ-FLATRO)	1,654	8	-	121	154	654	72	220	372	61	0	0	0	0
FREQ_EXIST	2015	GIBCRK-SNG (GIBCRK-SNG)	1,581	9	822	759	-	-	-	-	-	-	0	0	0	0
FREQ_EXIST	2015	SNG-ZEN (SNG-ZEN)	1,290	10	6	-	-	250	367	144	373	150	0	0	0	0
TOP10_RENT	2015	SNG-ZEN (SNG-ZEN)	\$ 21.36	1	\$0.00	\$ -	\$ -	\$0.19	\$17.80	\$0.13	\$2.52	\$0.71	0	0	0	0
TOP10_RENT	2015	SACH_69T1 (SACH-SACH)	\$ 13.96	2	\$ -	\$4.83	\$ -	\$ -	\$ 0.18	\$2.33	\$6.61	\$ -	0	0	0	0
TOP10_RENT	2015	SAPOWER_69T1 (SAPOWER-SAPOWER)	\$ 10.21	3	\$ -	\$0.08	\$0.01	\$ -	\$ 0.34	\$3.19	\$6.60	\$ -	0	0	0	0
TOP10_RENT	2015	CN345-CNSES (CN345-CNSES)	\$ 9.86	4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$9.86	0	0	0	0
TOP10_RENT	2015	3210_A (CDHSW-MCSES)	\$ 8.37	5	\$ -	\$ -	\$8.20	\$0.01	\$ 0.15	\$ -	\$ -	\$0.00	0	0	0	0
TOP10_RENT	2015	BETHK_66_A (HK-BET)	\$ 8.21	6	\$ -	\$ -	\$ -	\$ -	\$ 0.14	\$ -	\$7.41	\$0.66	0	0	0	0
TOP10_RENT	2015	MAR_SKY_1 (MARION-SKYLINE)	\$ 7.63	7	\$5.73	\$1.17	\$0.70	\$0.00	\$ -	\$ -	\$ -	\$0.02	0	0	0	0
TOP10_RENT	2015	LON_HI_SMITH1_1 (LON_HILL-SMITH)	\$ 7.53	8	\$2.37	\$2.56	\$2.08	\$0.52	\$ -	\$ -	\$ -	\$ -	0	0	0	0
TOP10_RENT	2015	PHR_SOU_1 (PHR-SOUSHORE)	\$ 7.04	9	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$7.04	0	0	0	0
TOP10_RENT	2015	HAMILT_MAVERI1_1 (HAMILTON-MAVERICK)	\$ 6.73	10	\$0.02	\$0.03	\$0.03	\$0.19	\$ 0.06	\$6.28	\$0.05	\$0.07	0	0	0	0

category	year	item	rankvar	rank	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
FREQ_EXIST	2015	LA_PAL_VCAVAZ1_1 (LA PALMA-VCAVAZOS)	3,495	1	330	484	429	336	699	442	419	356	0	0	0	0
FREQ_EXIST	2015	BRUNI_69_1 (BRUNI-BRUNI)	2,432	2	363	459	420	378	470	137	81	124	0	0	0	0
FREQ_EXIST	2015	6090_D (HLTSW-AMMFT)	1,953	3	164	303	365	352	343	328	98	-	0	0	0	0
FREQ_EXIST	2015	CEDH_69_1 (CEDH-CEDH)	1,610	4	76	115	10	23	184	485	491	226	0	0	0	0
FREQ_EXIST	2015	ABNW_ELYT1_1 (ABNW-ELYT)	1,266	5	375	371	167	19	169	152	4	9	0	0	0	0
FREQ_EXIST	2015	HEXT_YELWJC1_1 (YELWJCKT-HEXT)	1,214	6	55	106	38	145	195	348	273	54	0	0	0	0
FREQ_EXIST	2015	ALO_WAR_1 (WARBURTN-ALOES)	1,173	7	322	198	147	107	8	-	275	116	0	0	0	0
FREQ_EXIST	2015	FREER_SAN_DI1_1 (SAN DIEG-FREER)	1,115	8	20	18	10	55	205	175	274	358	0	0	0	0
FREQ_EXIST	2015	OCB_7395_1 (EAGLE_PS-DC_EGPS)	1,011	9	71	54	149	297	172	241	27	-	0	0	0	0
FREQ_EXIST	2015	GILA_MORRIS1_1 (GILA-MORRIS)	887	10	64	120	199	78	105	94	91	136	0	0	0	0
TOP10_RENT	2015	BETHK_66_A (HK-BET)	\$ 12.14	1	\$0.01	\$0.00	\$ -	\$0.31	\$0.04	\$0.75	\$4.83	\$6.20	0	0	0	0
TOP10_RENT	2015	SACH_69T1 (SACH-SACH)	\$ 10.62	2	\$ -	\$0.88	\$0.21	\$ -	\$ -	\$2.80	\$6.74	\$ -	0	0	0	0
TOP10_RENT	2015	LA_PAL_VCAVAZ1_1 (LA PALMA-VCAVAZOS)	\$ 7.13	3	\$0.45	\$1.14	\$0.98	\$0.42	\$1.65	\$1.57	\$0.57	\$0.35	0	0	0	0
TOP10_RENT	2015	SNG-ZEN (SNG-ZEN)	\$ 6.42	4	\$ -	\$ -	\$ -	\$0.17	\$1.00	\$1.14	\$1.01	\$3.10	0	0	0	0
TOP10_RENT	2015	6090_D (HLTSW-AMMFT)	\$ 6.11	5	\$0.33	\$0.28	\$0.28	\$1.43	\$0.99	\$2.72	\$0.07	\$ -	0	0	0	0
TOP10_RENT	2015	ROCKPORT_69A1 (ROCKPORT-ROCKPORT)	\$ 6.11	6	\$ -	\$ -	\$ -	\$ -	\$ -	\$6.11	\$ -	\$ -	0	0	0	0
TOP10_RENT	2015	LON_HI_SMITH1_1 (LON_HILL-SMITH)	\$ 5.35	7	\$1.53	\$1.62	\$1.74	\$0.44	\$0.02	\$ -	\$ -	\$ -	0	0	0	0
TOP10_RENT	2015	211T147_1 (GILLCR-MCNEIL_)	\$ 4.26	8	\$0.00	\$0.10	\$0.00	\$1.49	\$0.44	\$1.86	\$0.18	\$0.19	0	0	0	0
TOP10_RENT	2015	VERS_69_1 (VERS-VERS)	\$ 3.81	9	\$0.08	\$0.02	\$0.01	\$ -	\$ -	\$0.04	\$0.64	\$3.02	0	0	0	0
TOP10_RENT	2015	6596_F (HLTSW-EMATP)	\$ 3.69	10	\$0.35	\$0.81	\$0.06	\$0.87	\$1.02	\$0.54	\$0.05	\$ -	0	0	0	0

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	\$ 11.71	1	\$0.88	\$1.14	\$1.13	\$1.79	\$1.61	\$0.97	\$1.81	\$1.21	\$1.18	0	0	0
N	2015	HB_SOUTH-LZ_SOUTH	\$ 11.35	2	\$0.70	\$1.41	\$1.79	\$1.04	\$0.85	\$1.09	\$1.37	\$1.55	\$1.55	0	0	0
N	2015	HB_NORTH-HB_HOUSTON	\$ 6.26	3	\$ -	\$ -	\$0.51	\$0.56	\$1.17	\$1.03	\$0.82	\$0.53	\$1.64	0	0	0
N	2015	HB_NORTH-LZ_NORTH	\$ 5.95	4	\$0.51	\$1.25	\$0.45	\$0.29	\$0.35	\$0.67	\$0.74	\$0.92	\$0.78	0	0	0
N	2015	HB_HOUSTON-LZ_HOUSTON	\$ 3.14	5	\$0.11	\$0.19	\$0.26	\$0.33	\$0.29	\$0.38	\$0.41	\$0.41	\$0.77	0	0	0
N	2015	HB_NORTH-HB_SOUTH	\$ 2.78	6	\$ -	\$0.09	\$0.60	\$0.45	\$0.23	\$0.48	\$0.25	\$0.19	\$0.49	0	0	0
N	2015	OGSES 2-HB_NORTH	\$ 0.60	7	\$0.13	\$0.10	\$0.02	\$0.09	\$0.13	\$0.04	\$0.03	\$0.02	\$0.04	0	0	0
N	2015	JCKCNTY2_ST2-LZ_NORTH	\$ 0.50	8	\$0.09	\$0.14	\$0.02	\$0.01	\$0.01	\$0.02	\$0.05	\$0.09	\$0.07	0	0	0
N	2015	B_D_B_DAVIG2-HB_SOUTH	\$ 0.49	9	\$0.05	\$0.08	\$0.05	\$0.07	\$0.07	\$0.04	\$0.02	\$0.03	\$0.07	0	0	0
N	2015	B_DAVIS_3-HB_SOUTH	\$ 0.46	10	\$0.05	\$0.08	\$0.04	\$0.06	\$0.07	\$0.03	\$0.01	\$0.03	\$0.07	0	0	0
Y	2015	HB_NORTH-LZ_NORTH	\$ 3.63	1	\$0.18	\$1.47	\$0.33	\$0.14	\$0.19	\$0.34	\$0.34	\$0.37	\$0.27	0	0	0
Y	2015	HB_WEST-LZ_WEST	\$ 3.60	2	\$0.25	\$0.34	\$0.25	\$0.42	\$0.38	\$0.42	\$0.60	\$0.47	\$0.46	0	0	0
Y	2015	HB_SOUTH-LZ_SOUTH	\$ 3.52	3	\$0.43	\$0.47	\$0.41	\$0.55	\$0.29	\$0.39	\$0.48	\$0.27	\$0.24	0	0	0
Y	2015	HB_HOUSTON-LZ_HOUSTON	\$ 1.60	4	\$0.07	\$0.11	\$0.11	\$0.14	\$0.20	\$0.20	\$0.27	\$0.25	\$0.25	0	0	0
Y	2015	STP_STP_G1-LZ_CPS	\$ 1.17	5	\$0.01	\$ -	\$0.12	\$0.23	\$0.15	\$0.23	\$0.16	\$0.15	\$0.12	0	0	0
Y	2015	STP_STP_G2-LZ_CPS	\$ 0.93	6	\$0.01	\$ -	\$0.11	\$0.01	\$0.15	\$0.23	\$0.16	\$0.15	\$0.12	0	0	0
Y	2015	HB_NORTH-HB_HOUSTON	\$ 0.85	7	\$0.03	\$0.04	\$0.12	\$0.19	\$0.15	\$0.07	\$0.02	\$0.07	\$0.16	0	0	0
Y	2015	CEDROHI_CHW1-LZ_CPS	\$ 0.78	8	\$0.10	\$0.07	\$0.08	\$0.09	\$0.11	\$0.17	\$0.08	\$0.05	\$0.04	0	0	0
Y	2015	CALAVER_JKS2-LZ_CPS	\$ 0.74	9	\$ -	\$ -	\$0.00	\$0.00	\$0.27	\$0.20	\$0.10	\$0.08	\$0.09	0	0	0
Y	2015	HB_SOUTH-LZ_CPS	\$ 0.57	10	\$0.02	\$0.22	\$0.15	\$0.11	\$0.02	\$0.01	\$0.01	\$0.01	\$0.01	0	0	0