



Monthly State of the Market Report August 2011

Published September 15, 2011

SPP Market Monitoring Unit



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Executive Summary

During August 2011, the SPP Energy Imbalance Service (EIS) market operated in a typical summer-time pattern. On August 2, SPP set a new electricity demand record for the wholesale energy market. However, overall August temperatures across the SPP market footprint were lower than those experienced in July 2011.

In August the percentage of intervals with congestion increased slightly from July (Figure 4), but is at a level typically experienced during the summer months. Two localized areas in the SPP market footprint experienced the most congestion during the month – the Texas Panhandle region and in Oklahoma near Oklahoma City and Tulsa (Figure 2). Congestion in the Texas Panhandle continues due to high north to south flow and transmission bottlenecks in the area. Much of the congestion in Oklahoma was due to unplanned outages caused by strong storms on August 8 & 9.

The average LIP dropped from \$39.24/MWh in July to \$35.80 in August, a decrease of 8.7%, while the gas cost at the Panhandle Eastern Pipeline dropped from \$4.27/MMBtu to \$3.94 (Figure 5); again showing that change in LIP in the SPP EIS market typically is highly correlated to changes in gas costs.

Availability of market resources remains strong with over 85% of generation available for market dispatch. In August, the availability of these additional status types has encouraged market participants to better define the operational characteristics of their resources, which has allowed more capacity to become available to the market (Figure 13). Prior to this implementation, approximately 5% of generation was represented in statuses that are not available for dispatch. Now, only 2% of generation is represented in statuses that are not available for dispatch.

Dispatchable range continues to decrease (Figure 15) and is now below the 12-month average. The MMU will continue to monitor this trend. Although ramp availability decreased from July, the overall available ramp is still the second highest experienced in the EIS market. Associated with the trend of increased ramp availability is an associated stabilization in ramp deficiency intervals, which remain at historically low levels (Figure 14).

Figure 1 SPP EIS Price Contour Map

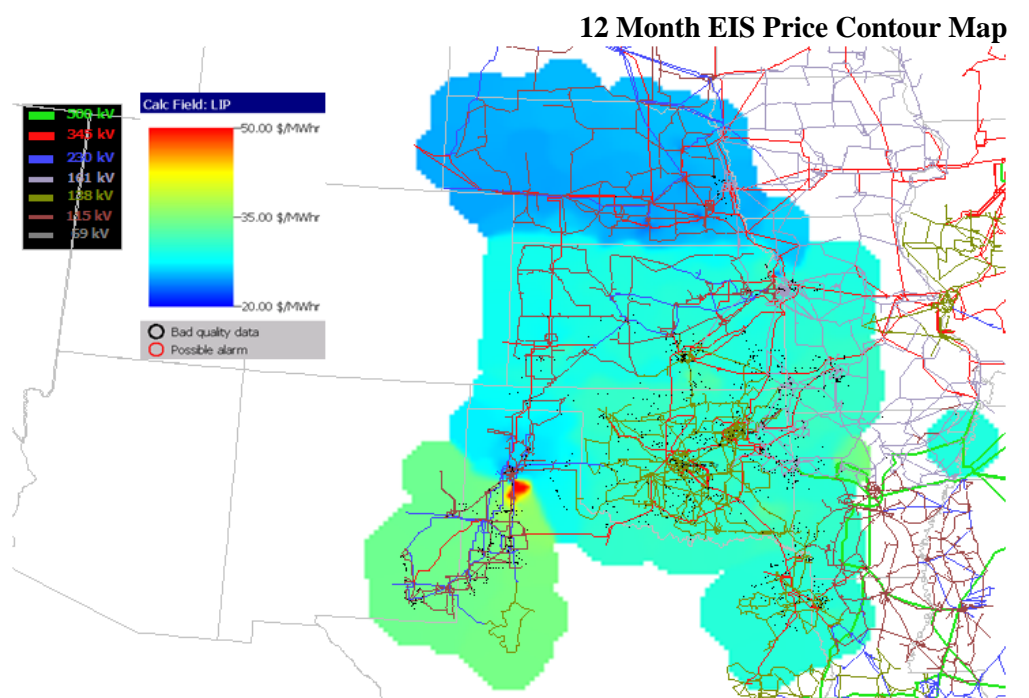
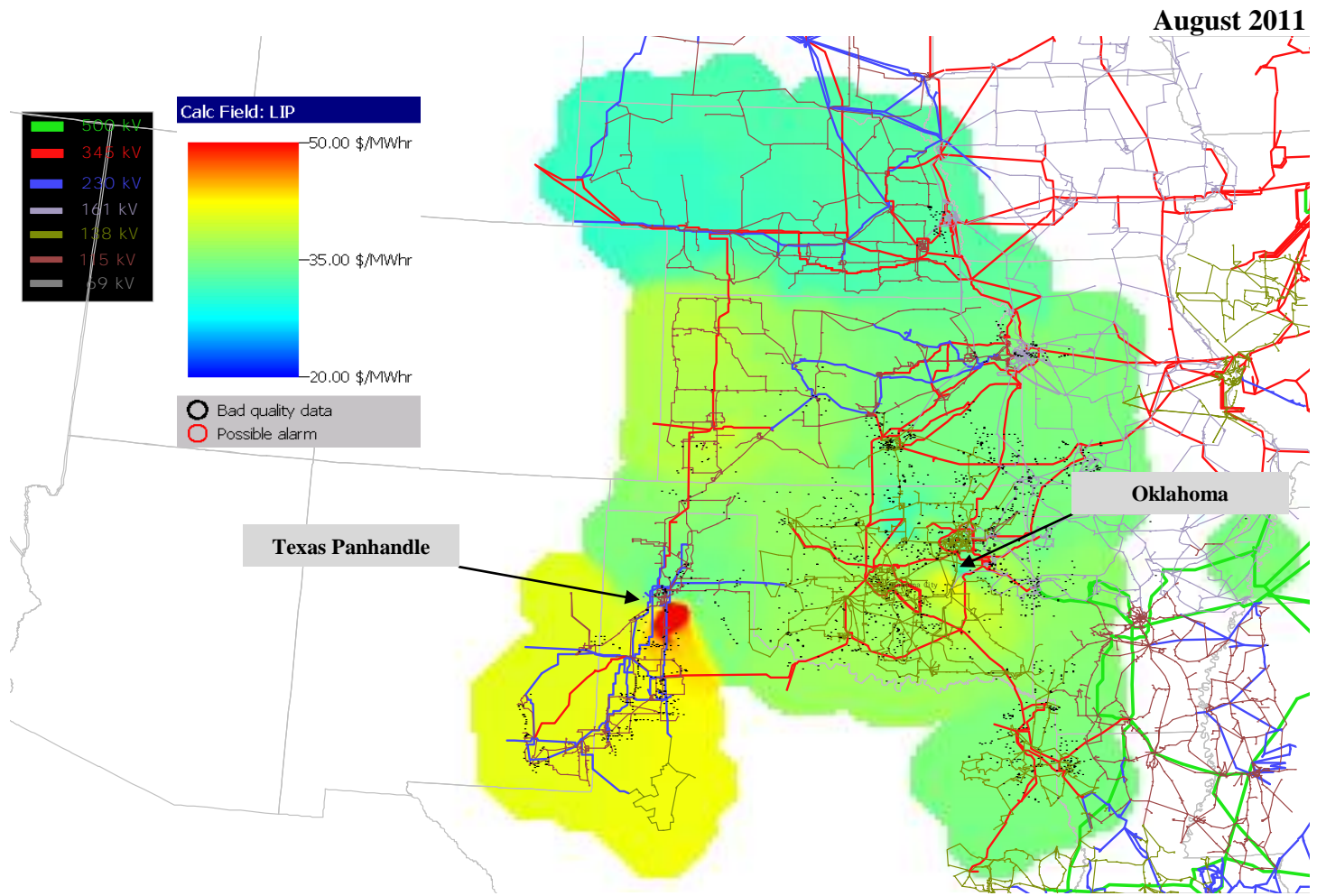
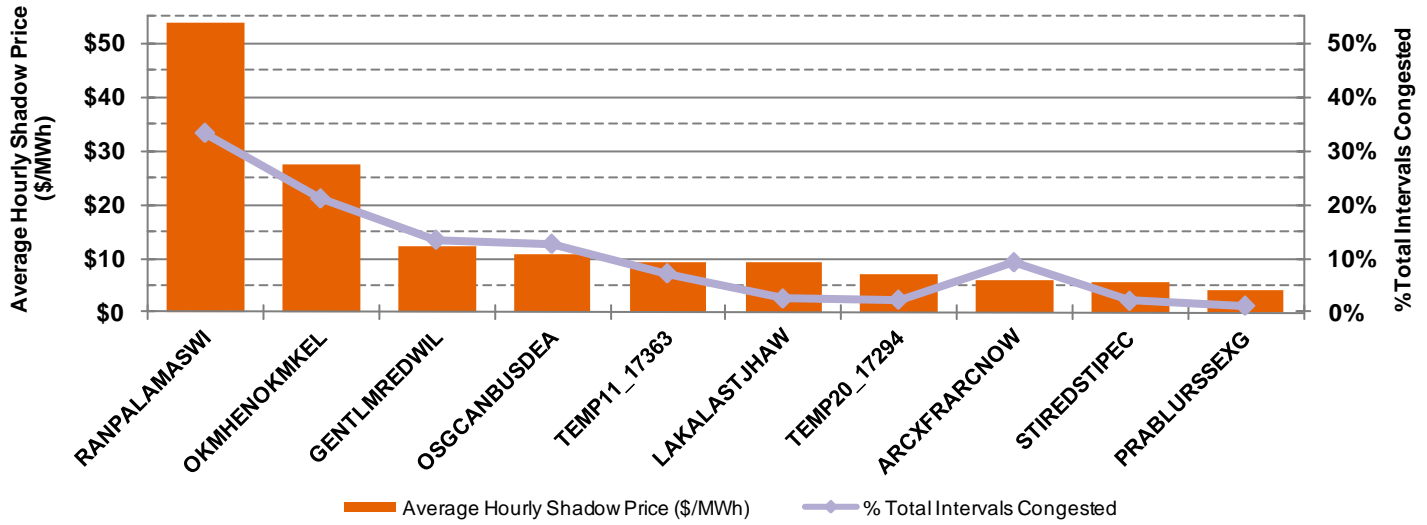


Figure 2 Congestion by Shadow Price Impact August 2011

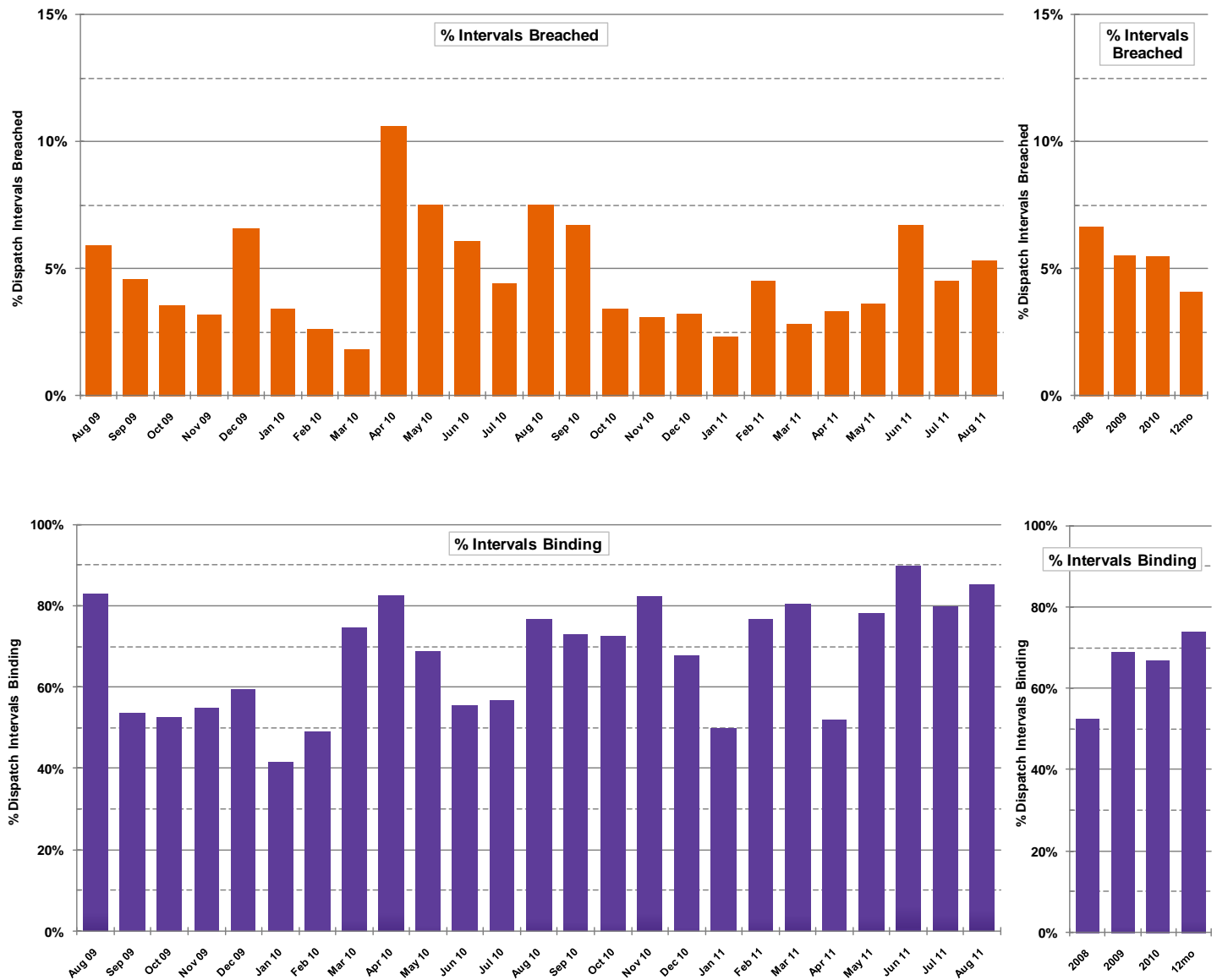


Region	Flowgate Name	Flowgate Location (kV) [Control Area]	Average Hourly Shadow Price (\$/MWh)	Total % Intervals (Breached or Binding)	Detailed Description
Texas Panhandle	RANPALAMASWI	Randall County óPalo Duro (115) ftlo Amarillo óWisher (230) [SPS]	\$ 52.23	32.2%	Congestion due to high N-S flow. Breaches generally occur in this area with high fluctuating wind along with limited transmission capability available.
	OSGCANBUSBEA	Osage Switch - Canyon East (115) ftlo Bushland - Deaf Smith (230) [SPS]	\$ 10.45	12.3%	
Tulsa area	OKMHENOKMKEL	Okmulgee óHenryetta (138) ftlo Okmulgee óKelco (138) [CSWS]	\$ 26.62	20.4%	High generation and imports into the area to meet high loads caused congestion. Unplanned unit outages in the area also contributed to the congestion.
	TEMP20_17294	Five Tribes óHancock (161) ftlo Agency óEuclid (161) [OKGE]	\$ 6.86	2.3%	
	PRABLURSSEXG	Prattville óBluebell (138) ftlo Riverside óExplorer Genpool (138) [CSWS]	\$ 4.10	1.2%	
Western Nebraska	GENTLMREDWIL	Gentleman óRed Willow (345) [NPPD]	\$ 11.95	13.0%	High north ósouth flow from inexpensive coal generation causes congestion on this transmission line on the western edge of the SPP footprint.
Oklahoma City area	TEMP11_17363	McElroy óKenzie (138) ftlo ONEOK óNorthwest (345)	\$ 9.12	7.0%	Transmission outages due to storm damage, along with high temperatures and high loads, caused congestion in the area.
	ARCXFRARCNOW	Arcadia Xfmr (345/138) ftlo Arcadia óNorthwestern (345) [OKGE]	\$ 5.69	9.0%	
Kansas City Area	LAKALASTJHAW	Lake Road óAlabama (161) [GMOC] ftlo Iatan óStranger Creek (345) [KCPL]	\$ 8.86	2.5%	Heavy North óSouth flow from Nebraska into Kansas City area with high external impacts in northeast Missouri.
	STIREDSTIPEC	Stilwel óRedel (161) ftlo Stilwell óPeculiar (345) [KCPL]	\$ 5.39	2.0%	

Figure 3 Congestion by Shadow Price Impact Previous 12 months

Region	Flowgate Name	Flowgate Location (kV)	Average Hourly Shadow Price (\$/MWh)	Total % Intervals (Breached or Binding)	Projects Expected to Provide Some Positive Mitigation (Estimated In Service Date & Upgrade Type)
Texas Panhandle	RANPALAMASWI	Randall County - Palo Duro (115) ftlo Amarillo & Swisher (230) [SPS]	\$ 43.38	29.7%	<ol style="list-style-type: none"> 1. Rebuild Randall Co & Palo Duro 115 kV line (Dec 2011 - no NTC but is Sponsored) 2. Tuco Int. & Woodward 345 kV line (May 2014 - Balanced Portfolio) 3. Swisher Co. Int. & Newhart 230 kV line (April 2015 - Regional Reliability)
	OSGCANBUSDEA	Osage Switch - Canyon East [SPS] [(115) ftlo Bushland - Deaf Smith [SPS] (230)	\$ 14.51	13.2%	<ol style="list-style-type: none"> 1. Tuco Int. & Woodward 345 kV line (May 2014 - Balanced Portfolio) 2. Castro County Int. & Newhart 115 kV line (April 2015 - Regional Reliability)
Kansas City Area	IASCLKNASJHA	Iatan & Stranger Creek (345)[KCPL] ftlo Lake Road & Nashua (161), St. Joe & Hawthorne (345) [GMOC-KCPL]	\$ 5.49	8.8%	<ol style="list-style-type: none"> 1. Iatan & Nashua 345 kV line (June 2015 - Balanced Portfolio) 2. Nebraska City & Maryville & Sibley 345 kV line (June 2017 - Priority Projects)
	PLAKCISTRCRA	Platte City & KCI (161)[GMOC] ftlo Stranger Creek & Craig (115) [KCPL]	\$ 4.12	0.6%	<ol style="list-style-type: none"> 1. Iatan & Nashua 345 kV line (June 2015 - Balanced Portfolio) 2. Nebraska City & Maryville & Sibley 345 kV line (June 2017 - Priority Projects)
	LAKALASTJHAW	Lake Road & Alabama [GMOC] (161) ftlo St. Joe & Hawthorn [GMOC] (345)	\$ 3.69	0.7%	<ol style="list-style-type: none"> 1. Axtell & Post Rock & Spearville 345 kV line, two Spearville & Comanche & Flat Ridge & Woodward 345 kV lines, and two Flat Ridge & Wichita 345 kV lines (Dec 2014 - Balanced Portfolio/Priority Projects) 2. Iatan & Nashua 345 kV line (June 2015 - Balanced Portfolio) 3. Nebraska City & Maryville & Sibley 345 kV line (June 2017 - Priority Projects)
Wichita Area	ELPFARWICWDR	El Paso & Farber [WR] (138) ftlo Wichita & Woodring [WR-OGE] (345)	\$ 4.99	3.9%	<ol style="list-style-type: none"> 1. Rose Hill & Sooner 345 kV line (June 2012 - Regional Reliability) 2. Two Woodward & Thistle & Wichita 345 kV lines (Dec 2014 - Priority Projects)
SW Kansas	HOLPLYHOLSPE	Holcomb & Plymell Switch [SECI] (115) ftlo Holcomb - Spearville [SECI] (345)	\$ 4.07	2.0%	<ol style="list-style-type: none"> 1. Rebuild Holcomb & Plymell Switch 115 kV line (June 2012 - Regional Reliability)
Western Nebraska	GENTLMREDWIL	Gentleman to Red Willow (345) [NPPD]	\$ 3.71	5.3%	<ol style="list-style-type: none"> 1. Axtell & Post Rock & Spearville 345 kV lines (June 2013 - Balanced Portfolio)
SE Oklahoma	LONSARPITVAL	Lone Oak to Sardis (138) ftlo Pittsburg & Valliant (345) [CSWS]	\$ 3.54	1.1%	<ol style="list-style-type: none"> 1. Sunnyside & Hugo & Valliant 345 kV line (April 2012 - Transmission Service)
Tulsa Area	OKMHENOKMKEL	Okmulgee & Henryetta (138) ftlo Okmulgee & Kelco (138) [CSWS]	\$ 2.73	2.2%	<ol style="list-style-type: none"> 1. Tap Pittsburg & Muskogee 345 kV line and add new Canadian River substation and 345/138 kV transformer (June 2013 & Regional Reliability) 2. Seminole & Muskogee 345 kV line (December 2013 & Balanced Portfolio)

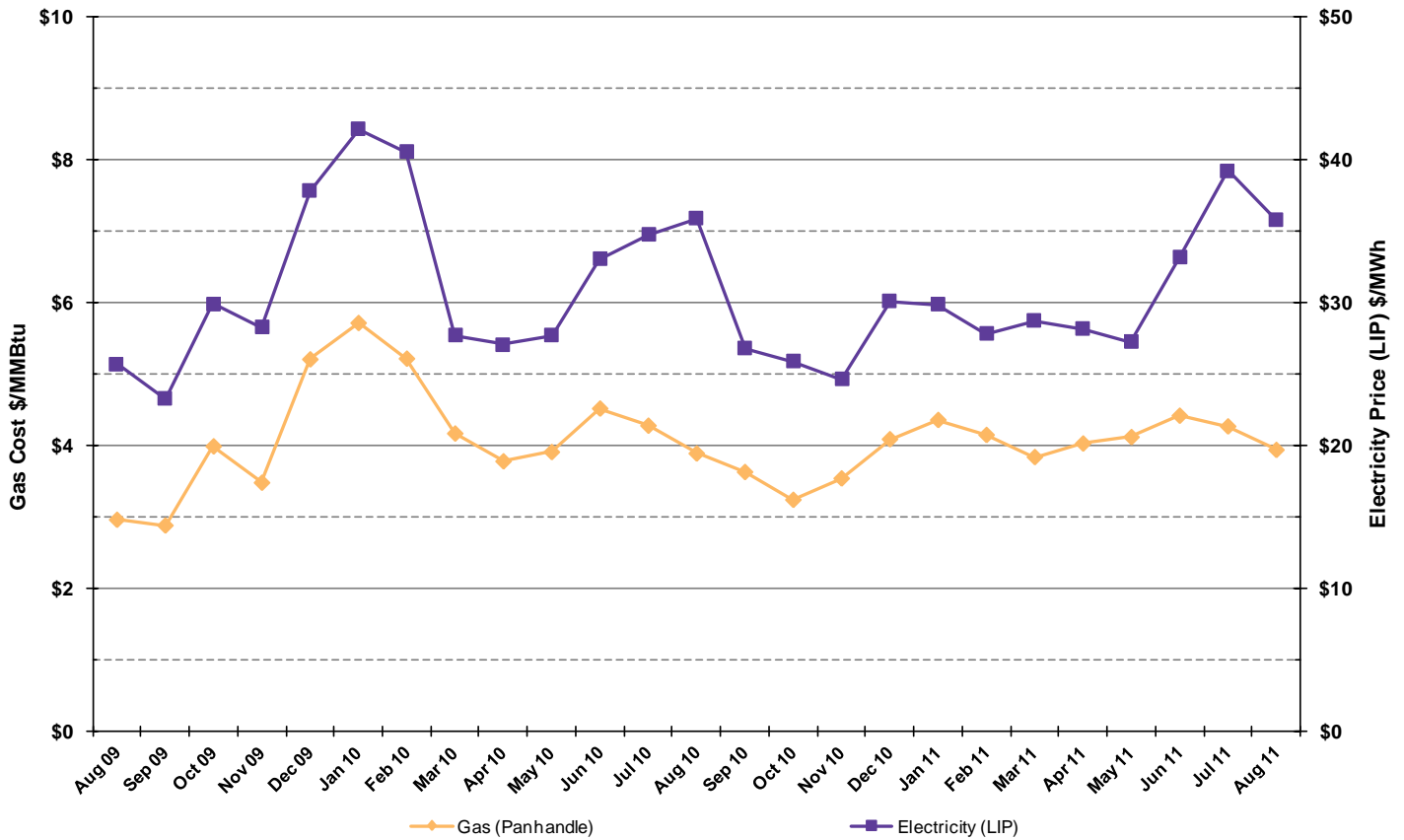
Figure 4 Breached and Binding Flowgates by Interval



<i>intervals</i>	Aug 10	Sep 10	Oct 10	Nov 10	Dec 10	Jan 11	Feb 11	Mar 11	Apr 11	May 11	Jun 11	Jul 11	Aug 11	last 12 months
% Breached	7.5%	6.7%	3.4%	3.1%	3.2%	2.3%	4.5%	2.8%	3.3%	3.6%	6.7%	4.5%	5.3%	4.1%
% Binding	76.7%	72.9%	72.3%	82.1%	67.7%	49.8%	76.7%	80.3%	52.0%	78.0%	89.6%	79.9%	85.3%	73.9%

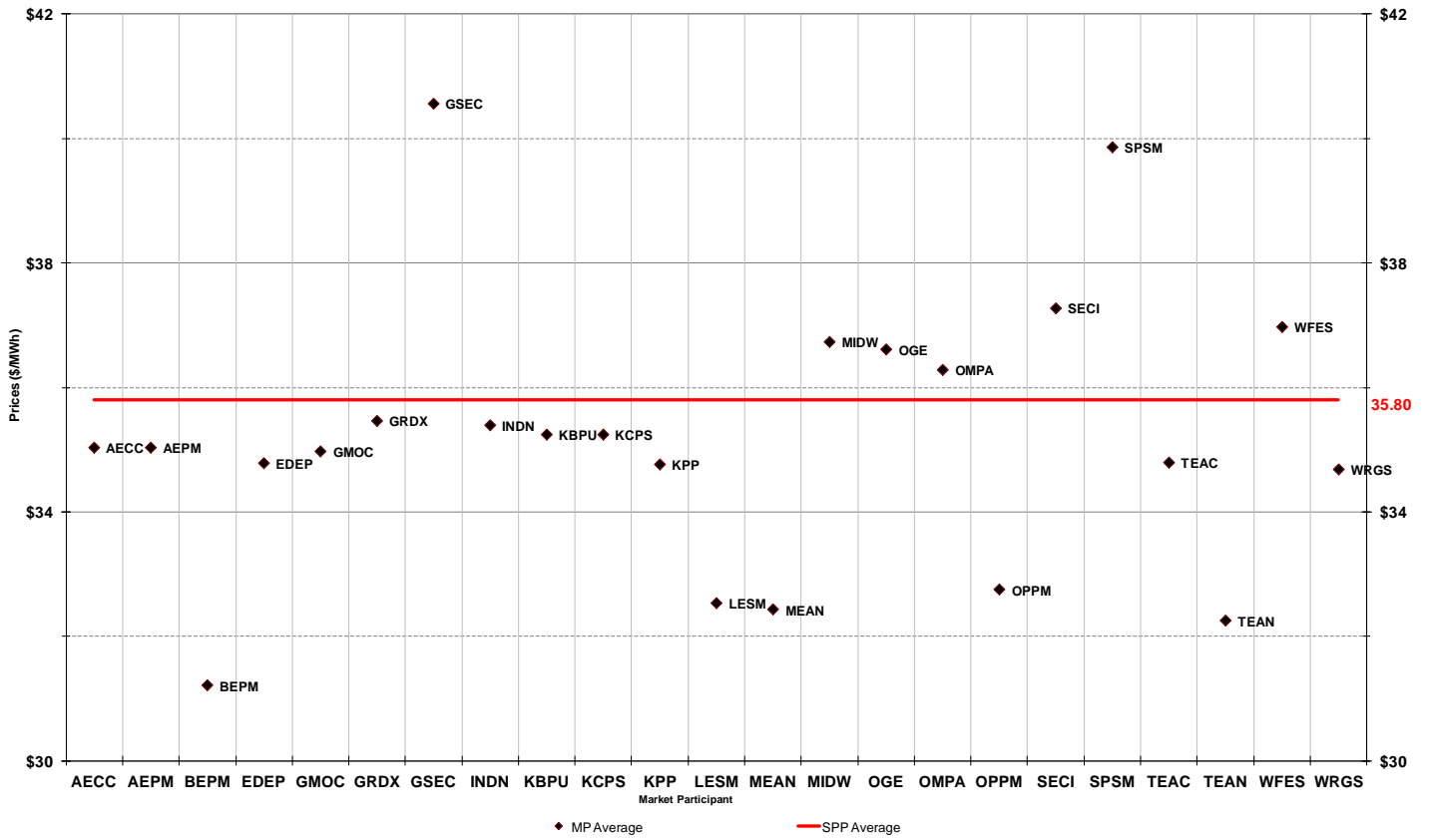
Source: OBIEE/MOS

Figure 5 LIP / Gas Cost Comparison



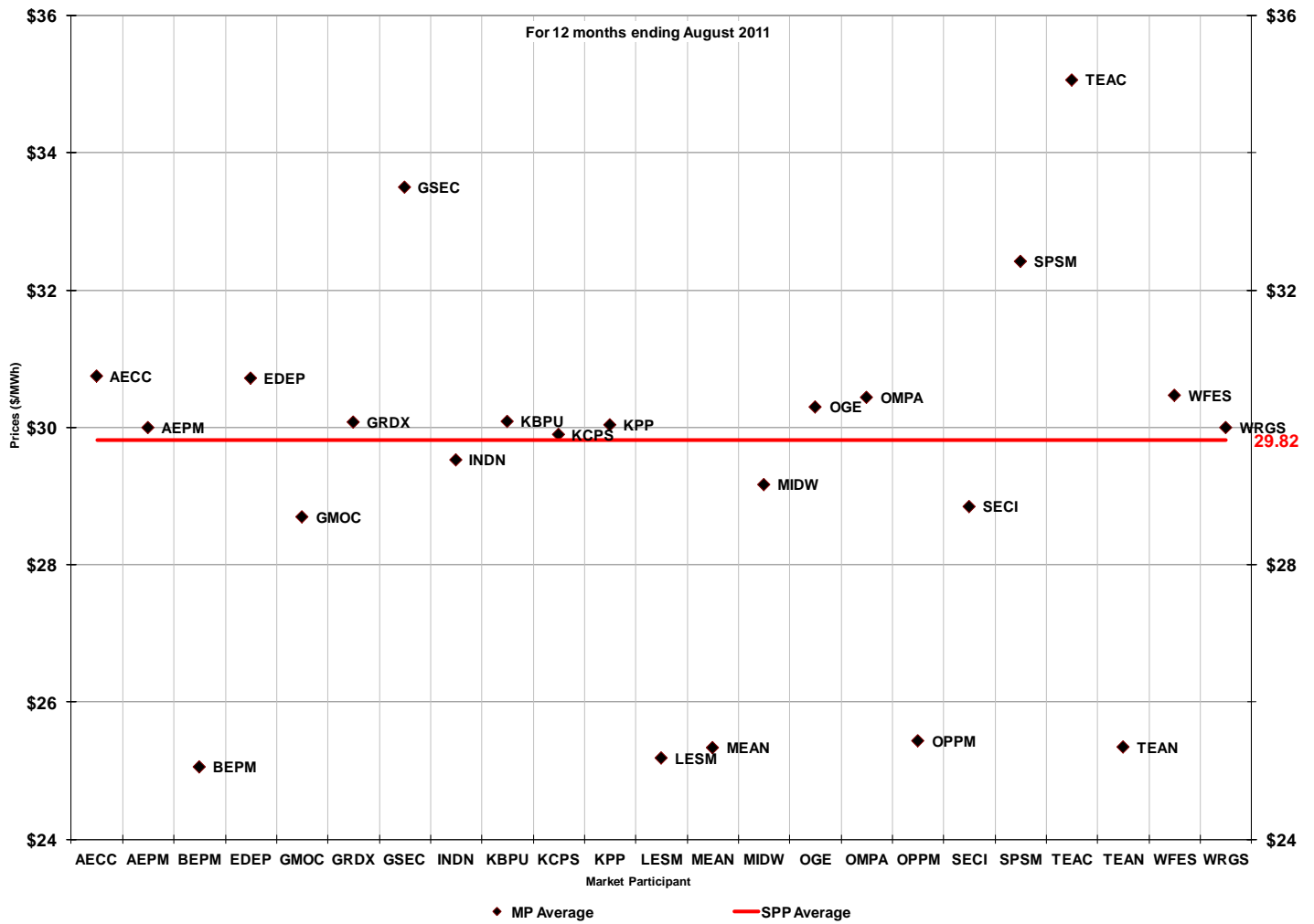
	Aug 10	Sep 10	Oct 10	Nov 10	Dec 10	Jan 11	Feb 11	Mar 11	Apr 11	May 11	Jun 11	Jul 11	Aug 11	12 month average
Electricity (LIP) [\$ /MWh]	35.92	26.82	25.89	24.63	30.08	29.90	27.80	28.75	28.16	27.24	33.17	39.24	35.80	29.82
Gas Panhandle [\$ /MMBtu]	3.89	3.63	3.24	3.54	4.09	4.36	4.15	3.84	4.03	4.12	4.42	4.27	3.94	3.97

Figure 6 Average Hourly Price by Market Participant August 2011



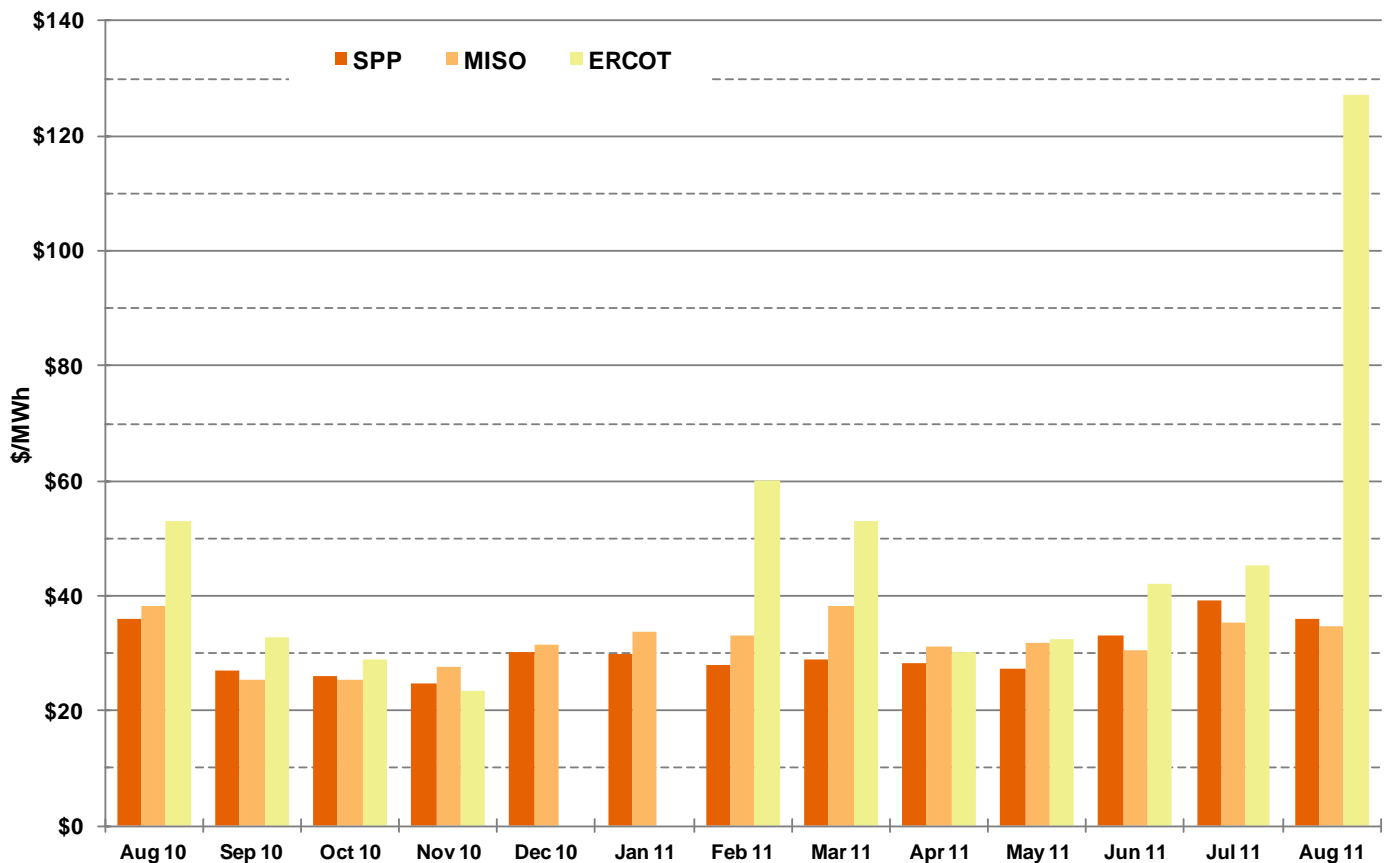
<i>in \$</i>	AECC	AEPM	BEPM	EDEP	GMOG	GRDX	GSEC	INDN	KBPU	KCPS	KPP	LESM	MEAN	MIDW	OGE	OMPA	OPPM	SECI	SPSM	TEAC	TEAN	WFES	WRGS
Max	335	354	364	332	355	338	411	355	356	355	361	359	361	374	427	447	358	378	411	336	361	441	363
Avg	35	35	31	35	35	35	41	35	35	35	35	33	32	37	37	36	33	37	40	35	32	37	35
Min	3	4	-102	3	-7	4	15	-8	-9	-9	-26	-113	-107	-18	5	-6	-107	-14	15	2	-104	6	-23

Figure 7 Average Hourly Price by Market Participant Previous 12 months



<i>in \$</i>	AECC	AEPM	BEPM	EDEP	GMOC	GRDX	GSEC	INDN	KBPU	KCPS	KPP	LESM	MEAN	MIDW	OGE	OMPA	OPPM	SECI	SPSM	TEAC	TEAN	WFES	WRGS
Max	579	400	398	401	405	401	411	406	412	408	395	400	398	393	427	447	399	394	411	336	399	441	392
Avg	31	30	25	31	29	30	33	30	30	30	30	25	25	29	30	30	25	29	32	35	25	30	30
Min	-45	-53	-365	-31	-246	-31	-73	-99	-43	-75	-86	-465	-416	-103	-37	-37	-466	-153	-76	2	-414	-41	-48

Figure 8 Regional Monthly Prices



Region	Average Price	Maximum Price	Minimum Price	Volatility	Average On-Peak Price	Average Off-Peak Price
SPP	\$ 35.80	\$ 377.73	\$ 5.95	49%	\$ 41.04	\$ 30.68
MISO	\$ 34.54	\$ 447.69	\$ - 81.77	73%	\$ 43.55	\$ 25.72
ERCOT	\$ 127.17	\$ 3,001.00	\$ 11.35	333%	\$ 210.96	\$ 45.15

Note: The differences in how prices for SPP, MISO, and ERCOT are calculated. For SPP, load weighted averages are used, while the data from MISO and ERCOT are not load weighted. Volatility is measured by the Coefficient of Variation, which is the standard deviation across all hours divided by the average of all hours.

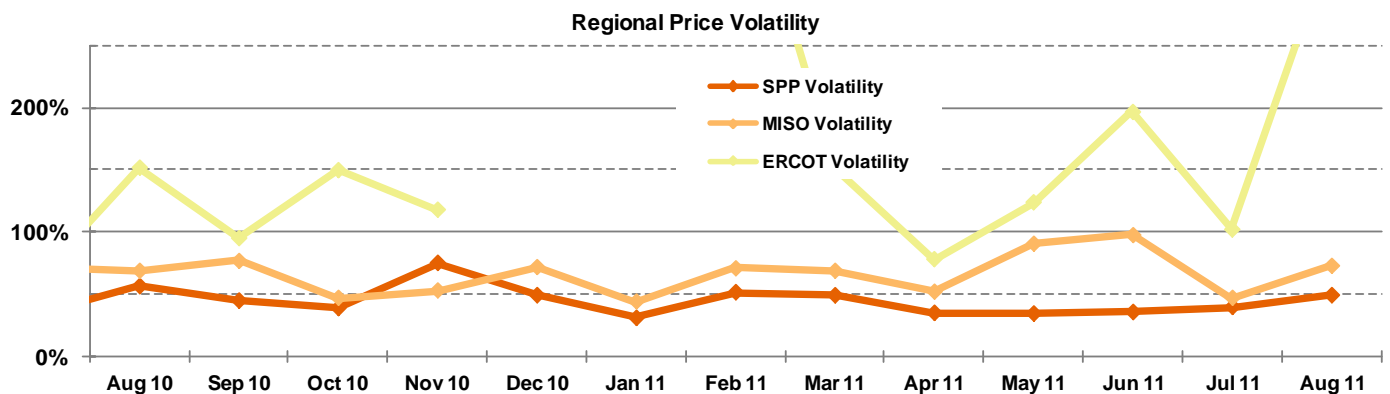
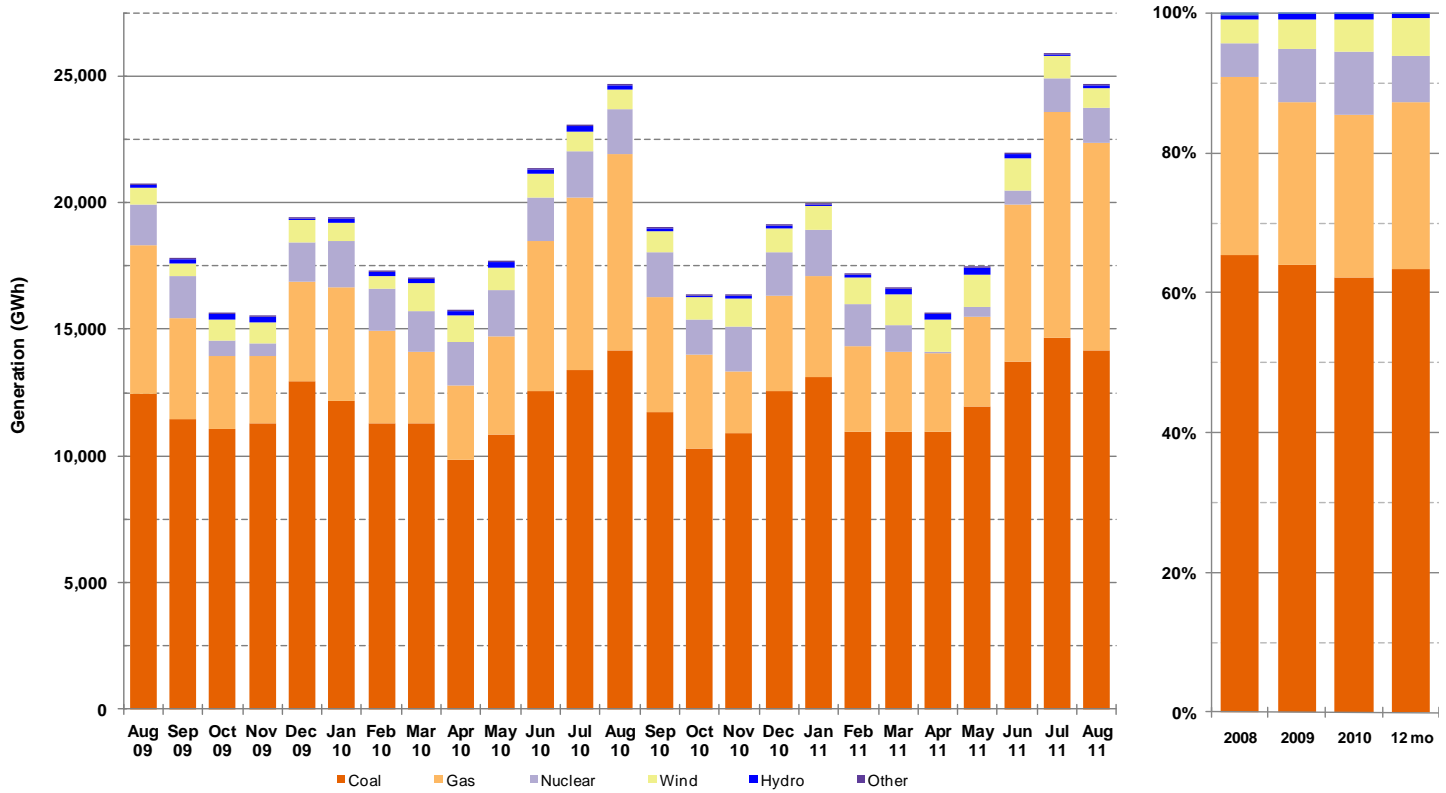


Figure 9 Energy Generation by Fuel Type

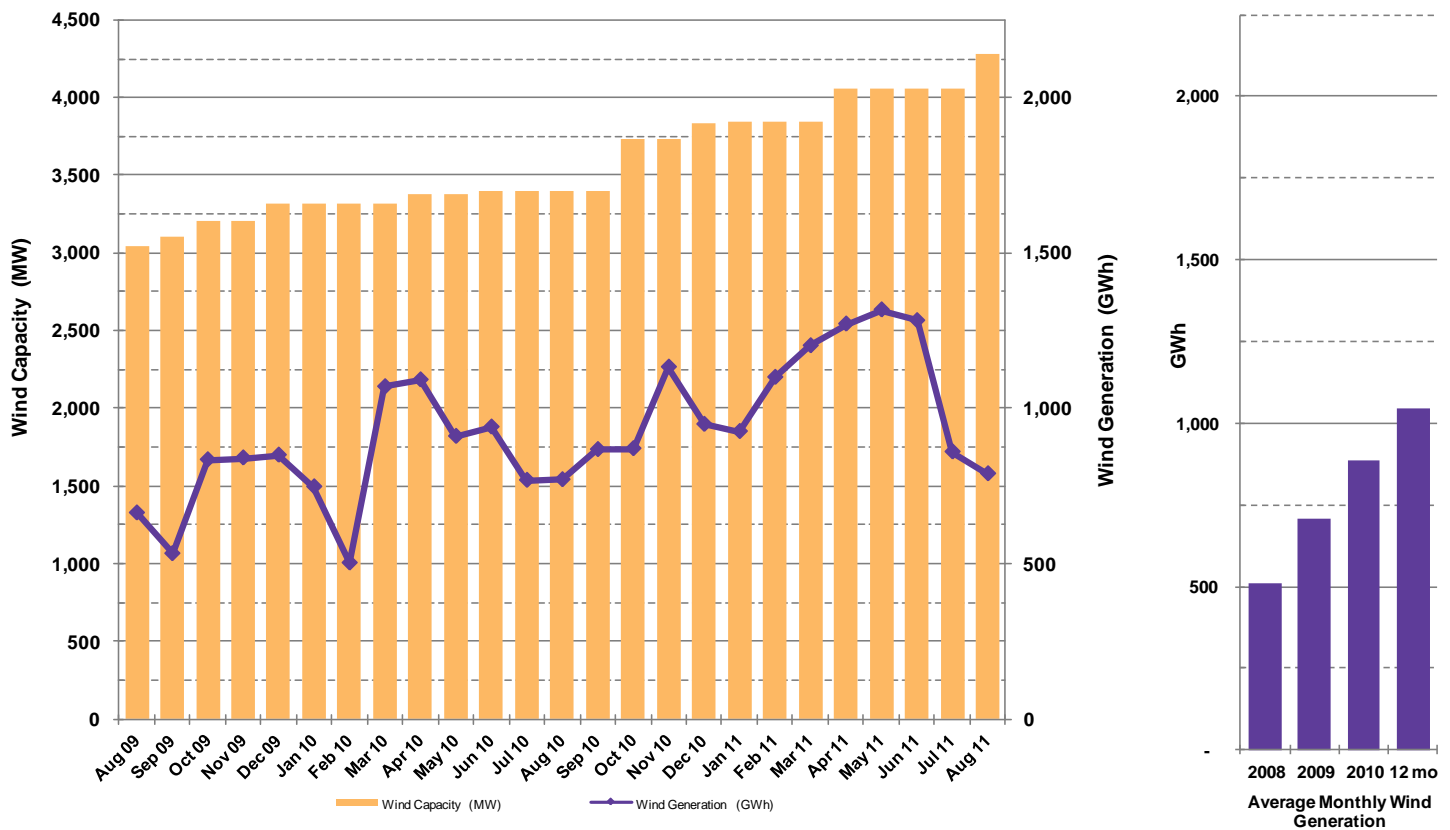


<i>in GWh</i>	Aug 10	Sep 10	Oct 10	Nov 10	Dec 10	Jan 11	Feb 11	Mar 11	Apr 11	May 11	Jun 11	Jul 11	Aug 11
Coal	14,167	11,716	10,309	10,889	12,549	13,144	10,979	10,945	10,964	11,931	13,721	14,672	14,149
Gas	7,748	4,535	3,691	2,427	3,792	3,936	3,350	3,151	3,084	3,568	6,182	8,925	8,187
Nuclear	1,800	1,770	1,392	1,789	1,710	1,849	1,647	1,087	93	368	557	1,327	1,424
Wind	770	867	870	1,132	948	925	1,099	1,201	1,271	1,316	1,281	859	789
Hydro	124	121	75	95	75	64	97	220	171	229	153	88	105
Other	21	20	21	20	18	20	17	15	12	11	19	15	19
Total	24,630	19,029	16,358	16,352	19,092	19,937	17,188	16,620	15,594	17,423	21,913	25,887	24,673

<i>by %</i>	Aug 10	Sep 10	Oct 10	Nov 10	Dec 10	Jan 11	Feb 11	Mar 11	Apr 11	May 11	Jun 11	Jul 11	Aug 11	12 month average
Coal	58%	62%	63%	67%	66%	66%	64%	66%	70%	68%	63%	57%	57%	63%
Gas	31%	24%	23%	15%	20%	20%	19%	19%	20%	20%	28%	34%	33%	24%
Nuclear	7%	9%	9%	11%	9%	9%	10%	7%	1%	2%	3%	5%	6%	7%
Wind	3%	5%	5%	7%	5%	5%	6%	7%	8%	8%	6%	3%	3%	5%
Hydro	1%	1%	0%	1%	0%	0%	1%	1%	1%	1%	1%	0%	0%	1%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Source: OBIEE/MOS

Figure 10 Wind Generation & Capacity

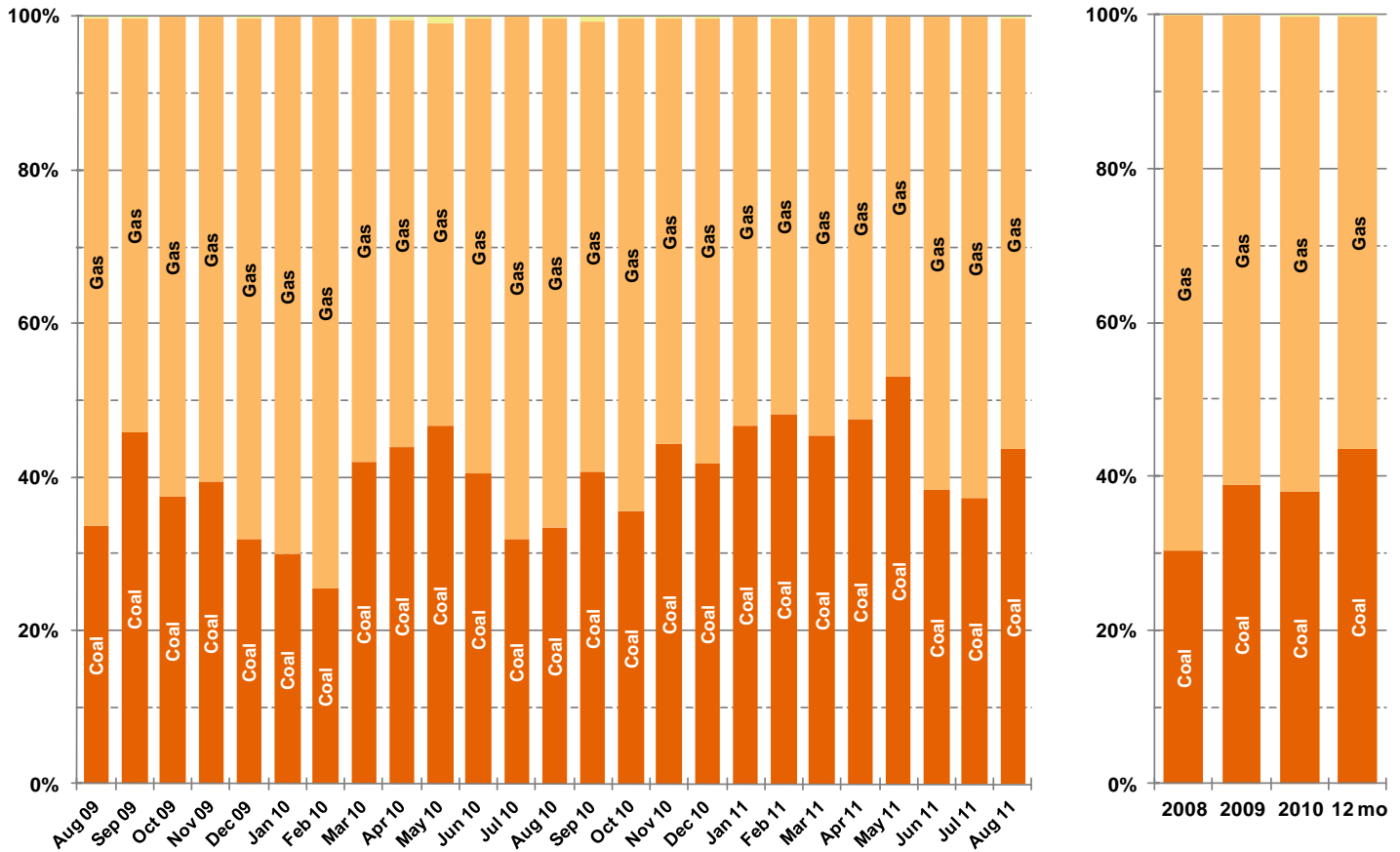


	Aug 10	Sep 10	Oct 10	Nov 10	Dec 10	Jan 11	Feb 11	Mar 11	Apr 11	May 11	Jun 11	Jul 11	Aug 11
Capacity (MW)	3,402	3,402	3,735	3,735	3,836	3,846	3,846	3,846	4,055	4,055	4,055	4,055	4,285
Generation (GWh)	770	867	870	1,132	948	925	1,099	1,201	1,271	1,316	1,281	859	789
Capacity Factor	30%	35%	31%	42%	33%	32%	43%	42%	44%	44%	44%	28%	25%
# of Resources	54	54	57	57	58	59	59	59	61	61	61	61	63

	2008	2009	2010	last 12 months
Average Monthly Capacity (MW)	1,950	2,985	3,468	3,896
Capacity Factor	35.5%	32.5%	34.9%	36.8%

Source: OBIEE/MOS

Figure 11 Fuel on the Margin



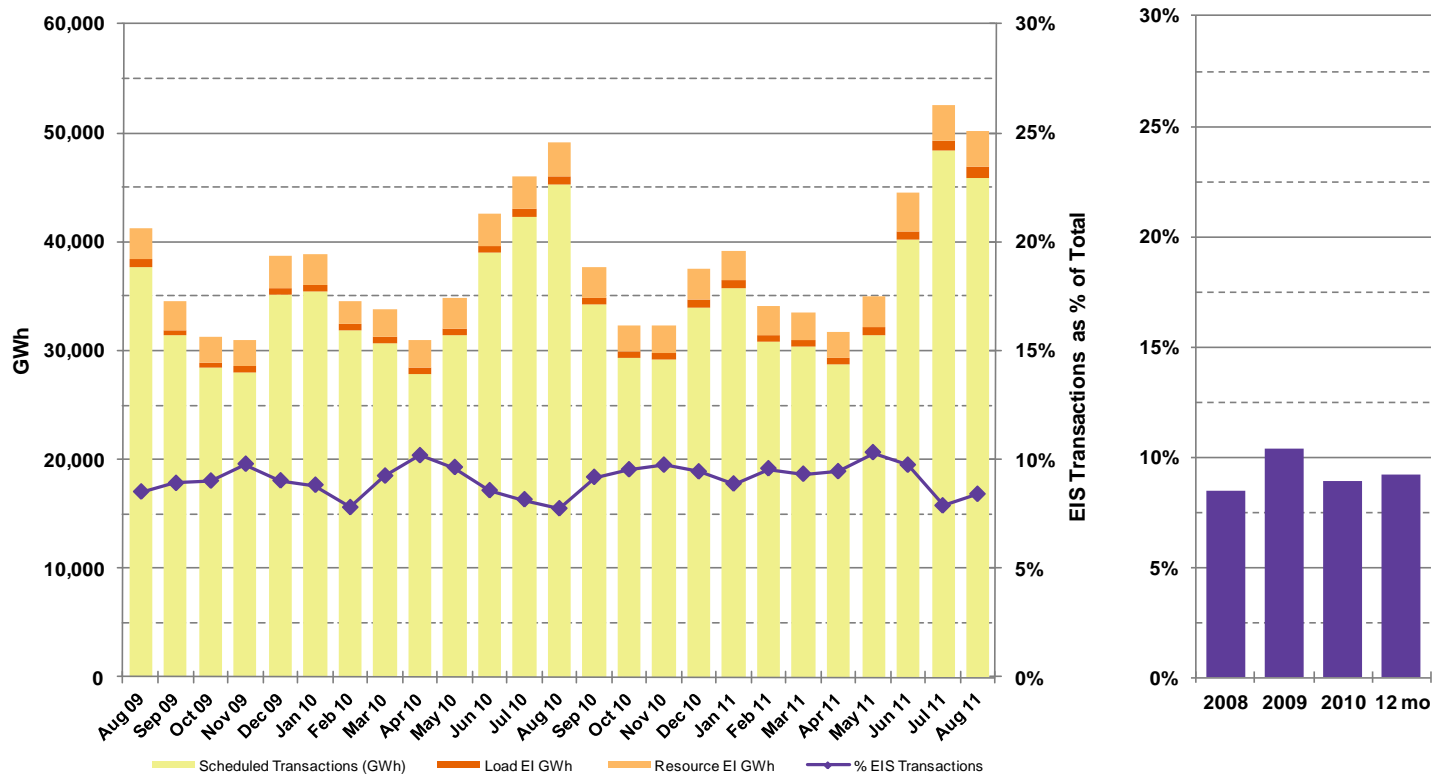
	Aug 10	Sep 10	Oct 10	Nov 10	Dec 10	Jan 11	Feb 11	Mar 11	Apr 11	May 11	Jun 11	Jul 11	Aug 11	last 12 months
Gas	66.3%	58.7%	64.4%	55.4%	58.1%	53.2%	51.6%	54.6%	52.4%	46.9%	61.6%	62.7%	56.2%	56.3%
Coal	33.5%	40.7%	35.5%	44.4%	41.8%	46.7%	48.2%	45.3%	47.6%	53.1%	38.3%	37.3%	43.6%	43.5%
Other	0.2%	0.6%	0.2%	0.3%	0.1%	0.0%	0.2%	0.1%	0.0%	0.0%	0.0%	0.0%	0.2%	0.2%

Source: OBIEE/MOS

Note:

During non-congested periods, one resource sets the price for the entire market. During congested periods, the market is effectively segmented into several sub-areas, each with its own marginal resource. Each congested interval counts the same as a non-congested period, but the marginal fuel type for each sub-area is represented proportionally in the congested period.

Figure 12 EIS Settlements-GWh

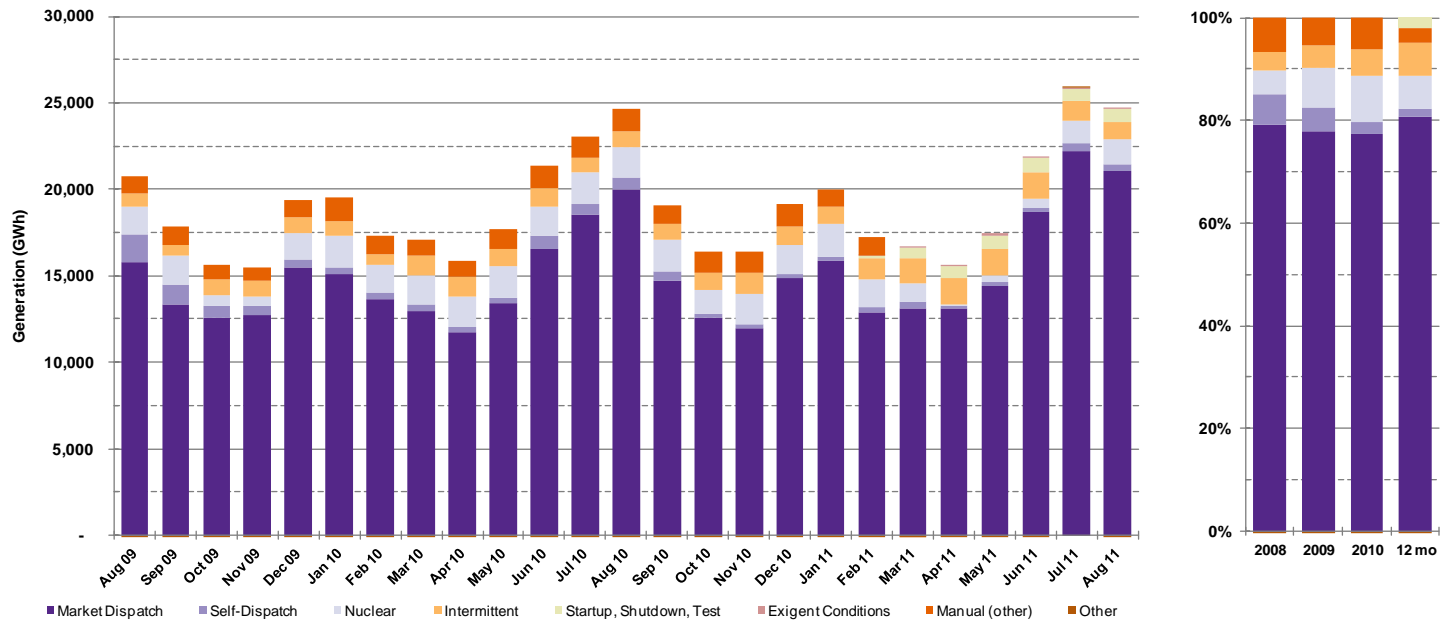


<i>in GWh</i>	Aug 10	Sep 10	Oct 10	Nov 10	Dec 10	Jan 11	Feb 11	Mar 11	Apr 11	May 11	Jun 11	Jul 11	Aug 11
Resource EI	3,098	2,817	2,486	2,527	2,862	2,811	2,617	2,526	2,435	2,958	3,519	3,283	3,257
Load EI	699	638	594	617	677	667	645	599	558	653	807	847	952
Scheduled Transaction	45,290	34,216	29,275	29,175	34,011	35,736	30,839	30,419	28,736	31,438	40,135	48,369	45,924
Total Energy	49,087	37,671	32,355	32,319	37,549	39,213	34,101	33,544	31,729	35,050	44,460	52,499	50,133

<i>by %</i>	Aug 10	Sep 10	Oct 10	Nov 10	Dec 10	Jan 11	Feb 11	Mar 11	Apr 11	May 11	Jun 11	Jul 11	Aug 11	Last 12 Months
Resource EI	6.3%	7.5%	7.7%	7.8%	7.6%	7.2%	7.7%	7.5%	7.7%	8.4%	7.9%	6.3%	6.5%	7.4%
Load EI	1.4%	1.7%	1.8%	1.9%	1.8%	1.7%	1.9%	1.8%	1.8%	1.9%	1.8%	1.6%	1.9%	1.8%
Scheduled Transactions	92.3%	90.8%	90.5%	90.3%	90.6%	91.1%	90.4%	90.7%	90.6%	89.7%	90.3%	92.1%	91.6%	90.8%

Totals may not equal 100% due to rounding.

Figure 13 Depth of Energy Market for Resources Only Status



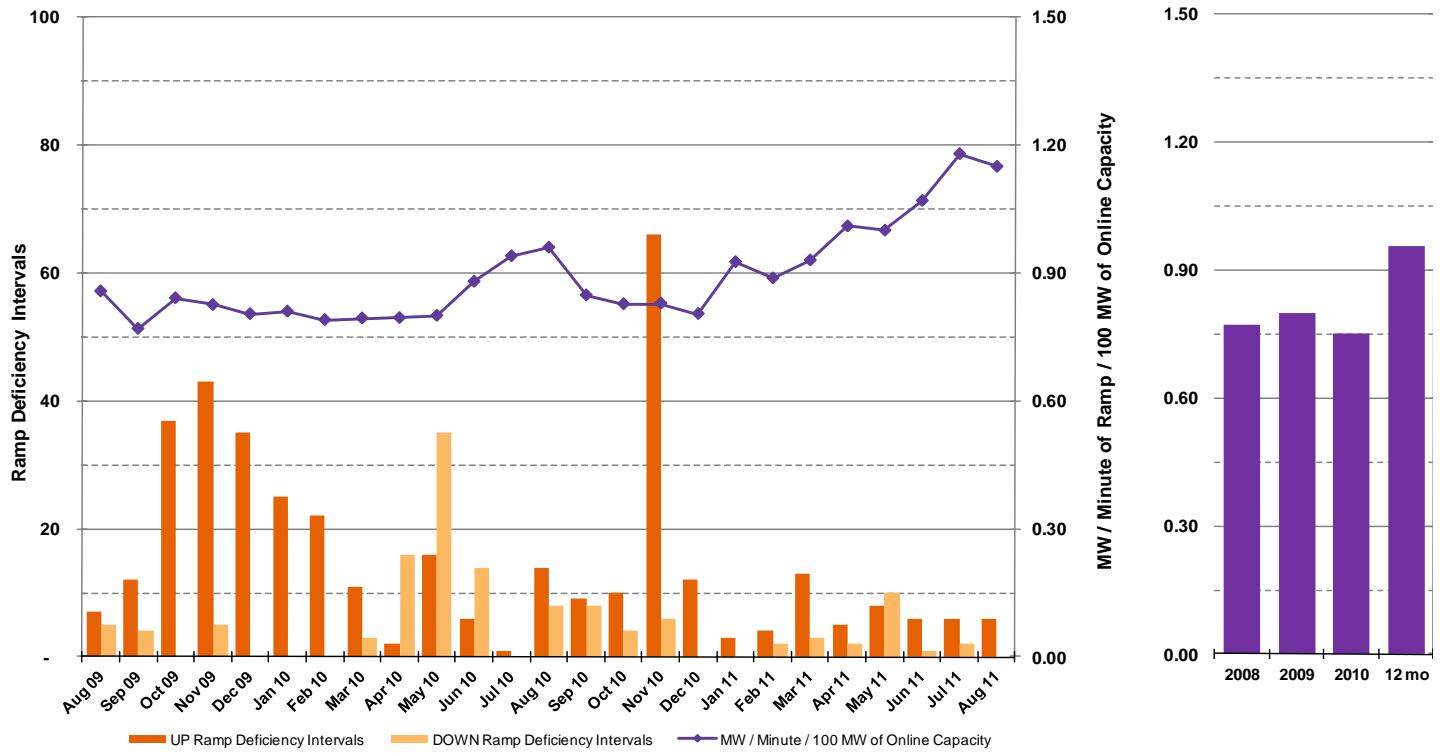
<i>in GWh</i>	Aug 10	Sep 10	Oct 10	Nov 10	Dec 10	Jan 11	Feb 11	Mar 11	Apr 11	May 11	Jun 11	Jul 11	Aug 11
Market Dispatch	20,009	14,735	12,544	11,955	14,839	15,898	12,873	13,106	13,105	14,393	18,710	22,216	21,030
Self-Dispatch	645	553	267	210	268	231	304	351	171	255	217	444	410
Nuclear	1,800	1,770	1,392	1,789	1,710	1,849	1,647	1,087	93	368	557	1,327	1,424
Intermittent	885	964	954	1,216	1,022	992	1,191	1,450	1,463	1,569	1,535	1,100	1,029
Startup, Shutdown, Test							130	606	722	757	832	731	725
Exigent Conditions							18	51	64	90	64	67	64
Manual (other)	1,301	1,029	1,233	1,213	1,273	990	1,051						
Other	(9)	(21)	(32)	(31)	(21)	(23)	(26)	(32)	(24)	(10)	(2)	1	(8)
TOTAL	24,631	19,029	16,358	16,352	19,091	19,937	17,188	16,619	15,594	17,422	21,913	25,886	24,674

<i>by % of total</i>	Aug 10	Sep 10	Oct 10	Nov 10	Dec 10	Jan 11	Feb 11	Mar 11	Apr 11	May 11	Jun 11	Jul 11	Aug 11	Last 12 Months
Market Dispatch	81%	77%	77%	73%	78%	80%	75%	79%	84%	83%	85%	86%	85%	81%
Self-Dispatch	3%	3%	2%	1%	1%	1%	2%	2%	1%	1%	1%	2%	2%	2%
Nuclear	7%	9%	9%	11%	9%	9%	10%	7%	1%	2%	3%	5%	6%	7%
Intermittent	4%	5%	6%	7%	5%	5%	7%	9%	9%	9%	7%	4%	4%	6%
Startup, Shutdown, Test							1%	4%	5%	4%	4%	3%	3%	2%
Exigent Conditions							0%	0%	0%	1%	0%	0%	0%	0%
Manual (other)	5%	5%	8%	7%	7%	5%	6%							3%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Note: May not total to 100% due to rounding.

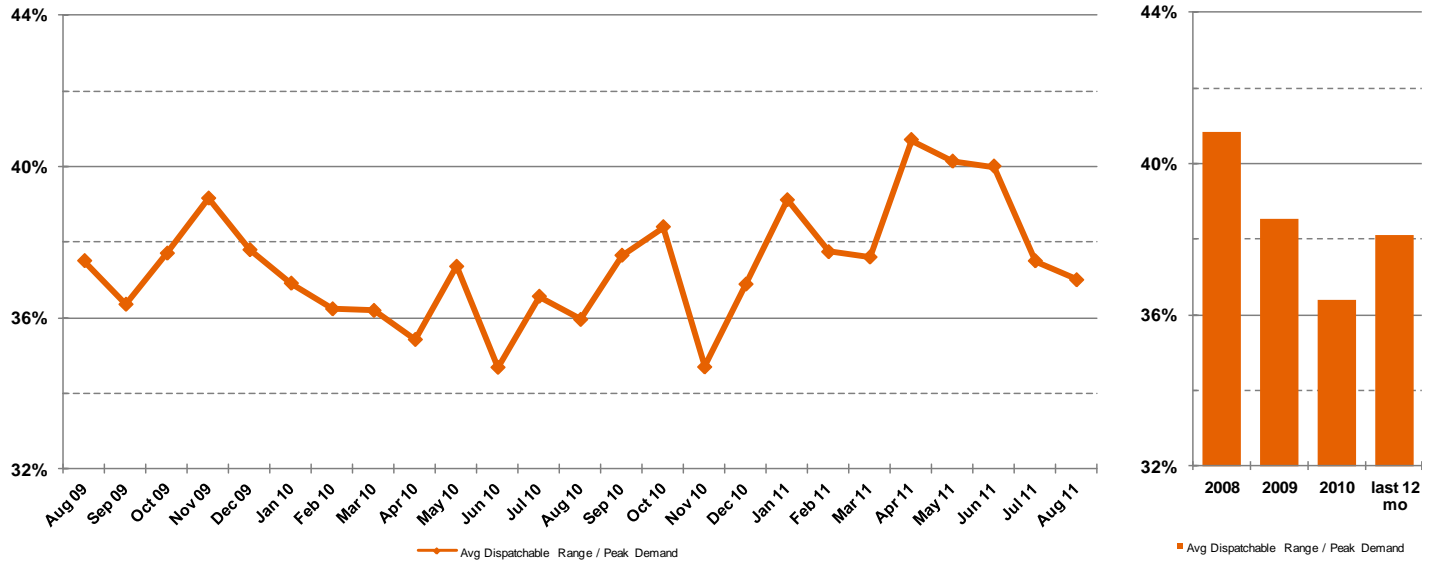
Source: OBIEE/MOS

Figure 14 Market Ramp Rate Deficiency and Availability



	Aug 10	Sep 10	Oct 10	Nov 10	Dec 10	Jan 11	Feb 11	Mar 11	Apr 11	May 11	Jun 11	Jul 11	Aug 11	12 month average
UP Ramp Deficiency Intervals	14	9	10	66	12	3	4	13	5	8	6	6	6	12
DOWN Ramp Deficiency Intervals	8	8	4	6	0	0	2	3	2	10	1	2	0	3
Total Ramp Deficiency Intervals	22	17	14	72	12	3	6	16	7	18	7	8	6	16
% of Total Market Dispatch Intervals	0.25%	0.20%	0.16%	0.83%	0.13%	0.03%	0.07%	0.18%	0.08%	0.20%	0.08%	0.09%	0.07%	0.18%
MW / Minute / 100 MW of Online Capacity	0.96	0.85	0.83	0.83	0.80	0.93	0.89	0.93	1.01	1.00	1.07	1.18	1.15	0.96

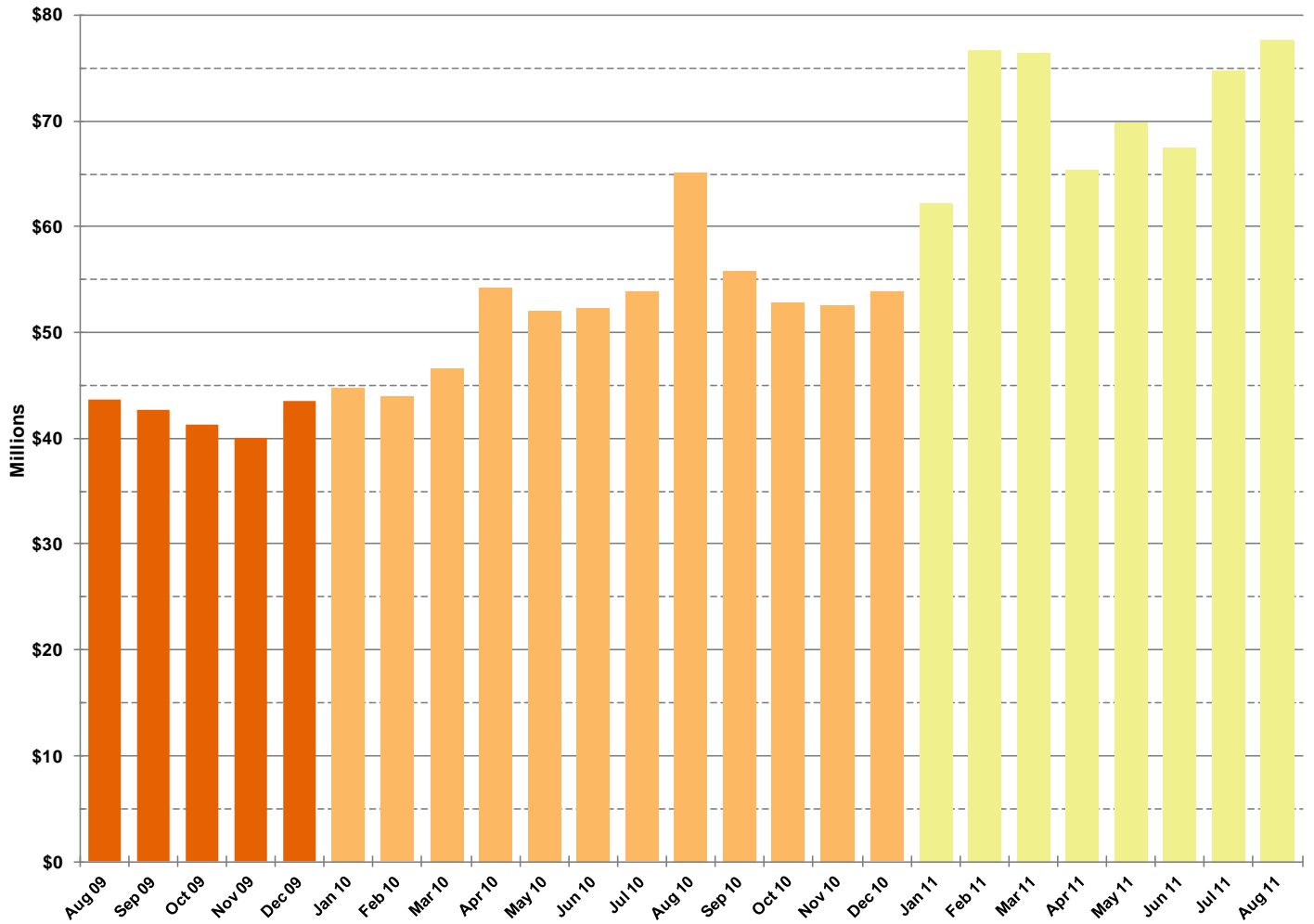
Figure 15 Dispatchable Range



	Aug 10	Sep 10	Oct 10	Nov 10	Dec 10	Jan 11	Feb 11	Mar 11	Apr 11	May 11	Jun 11	Jul 11	Aug 11	last 12 mo
Average	36.0%	37.6%	38.4%	34.7%	36.9%	39.1%	37.7%	37.6%	40.7%	40.1%	40.0%	37.5%	37.0%	38.1%

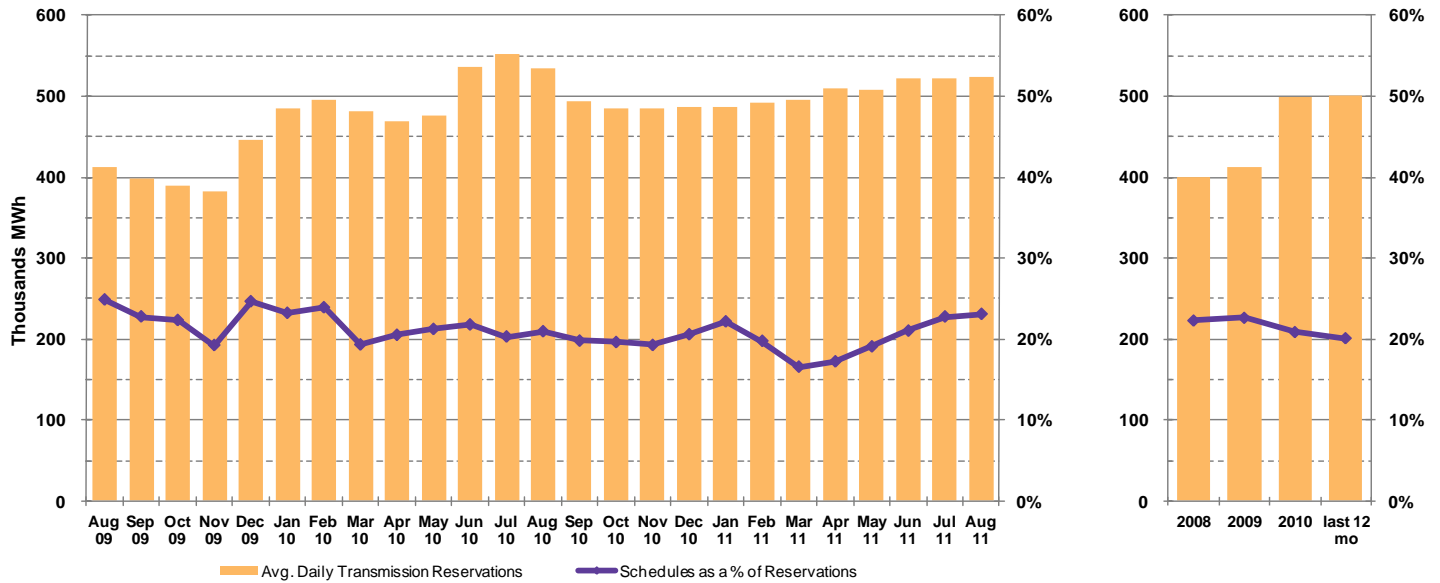
Dispatchable Range is calculated as the average dispatchable range available (in MW) divided by the average of the daily peak demand (MW) for the month.

Figure 16 Transmission Owner Revenue



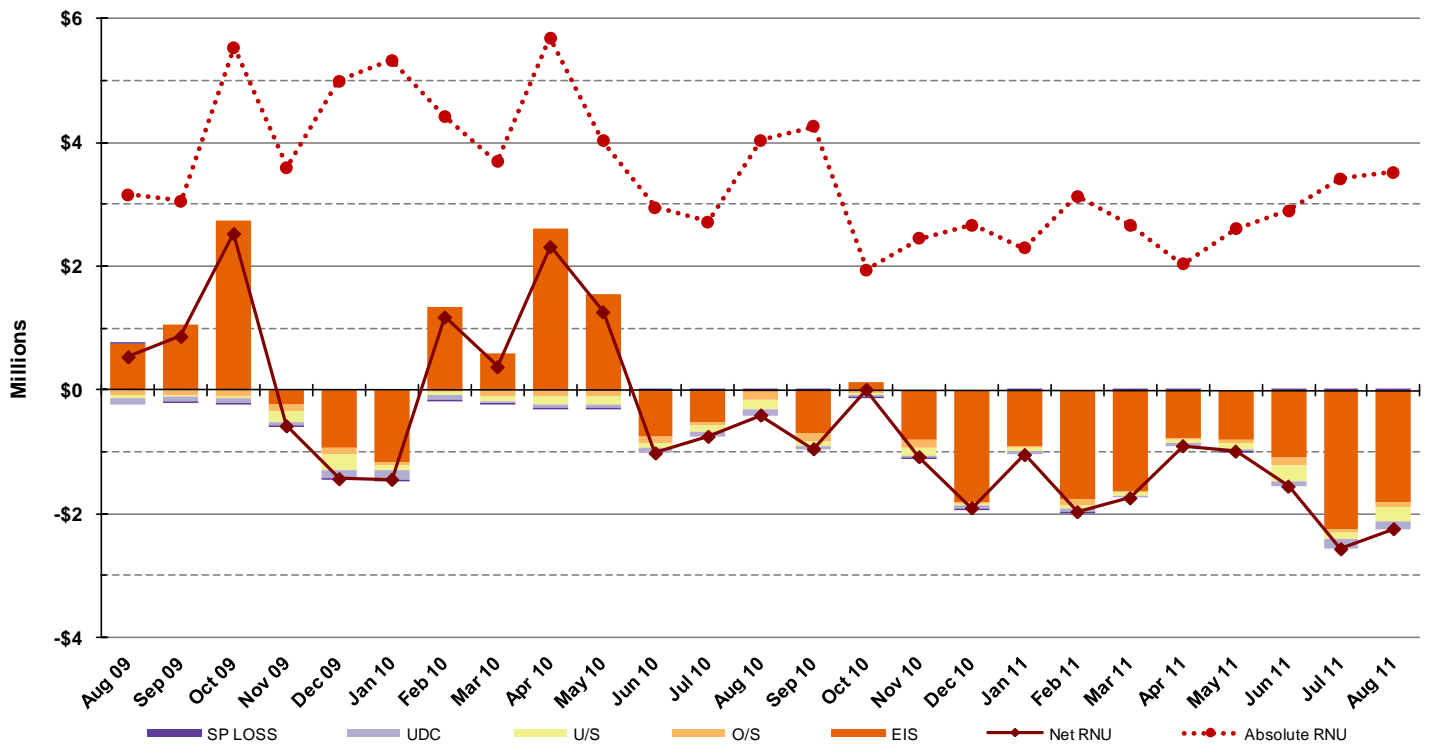
<i>in millions \$</i>	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
2008	32.1	34.6	33.1	33.0	32.9	32.1	32.6	33.8	37.7	34.7	35.0	36.3
2009	35.7	34.2	33.4	43.8	41.0	43.1	43.4	43.7	42.7	41.3	40.0	43.5
2010	44.7	43.9	46.6	54.3	52.0	52.3	53.8	65.1	55.8	52.9	52.5	53.8
2011	62.3	76.8	76.4	65.4	69.8	67.5	74.7	77.7				

Figure 17 Average Transmission Reservations and Schedules



<i>in thousands MWh</i>	Aug 10	Sep 10	Oct 10	Nov 10	Dec 10	Jan 11	Feb 11	Mar 11	Apr 11	May 11	Jun 11	Jul 11	Aug 11	12 month average
Average Daily Reservations	534	494	484	485	488	487	493	495	510	508	523	523	524	501
Average Daily Schedules	112	98	95	93	100	108	97	82	88	97	110	119	121	101
%	21%	20%	20%	19%	21%	22%	20%	17%	17%	19%	21%	23%	23%	20%

Figure 18 RNU Components



\$ (thousands)	Aug 10	Sep 10	Oct 10	Nov 10	Dec 10	Jan 11	Feb 11	Mar 11	Apr 11	May 11	Jun 11	Jul 11	Aug 11
EIS	-14	-686	132	-803	-1,803	-894	-1,768	-1,623	-783	-804	-1,090	-2,248	-1,801
O/S	-151	-130	-44	-127	-25	-48	-93	-34	-29	-61	-126	-43	-91
U/S	-140	-88	-38	-122	-39	-52	-53	-61	-51	-81	-251	-123	-226
UDC	-109	-48	-29	-22	-37	-51	-51	-26	-38	-41	-89	-159	-126
SP Loss	9	2	-12	-2	-2	1	0	1	0	-2	1	5	2
Net RNU	-404	-950	9	-1,078	-1,905	-1,043	-1,968	-1,743	-902	-988	-1,556	-2,568	-2,243
Absolute RNU	4,041	4,267	1,947	2,449	2,665	2,289	3,136	2,667	2,037	2,611	2,903	3,425	3,520

EIS (Energy Imbalance Charge/Credit) - All energy deviations between actual generation or load and schedules are settled as (EIS).

O/S (Over-Scheduling Charge) - F w t k p i " c p { " j q w t . " k h " N q e c v k q p c n " K o d c n c p e g " R t k e g u " f k x g t i g " 2 MW) at an applicable Settlement Location in that hour, that MP may be subject to an Over-Scheduling Charge.

U/S (Under-Scheduling Charge) - F w t k p i " c p { " j q w t . " k h " N q e c v k q p c n " K o d c n c p e g " R t k e g u " f k x g t i g " least 2 MW) at an applicable Settlement Location in that hour, that MP may be subject to an Under-Scheduling Charge.

UDC (Uninstructed Resource Deviation) - the difference between the dispatch instructions and the actual performance of a Resource.

SP Loss - Self-Provided Losses