Market Monitor Report

MC 08.20.2025 **IMM**



CURRENT ISSUES



PJM Short Capacity on June 1, 2025

- The actual RPM reserve margin for June 1, 2025, was 17.6 percent (net deficit of 205.1 MW UCAP), after accounting for all RPM auction results, replacements, deficiency MW and the final peak load forecast and parameters for the 2025/2026 Delivery Year.
- The IRM was 17.8 percent. The IRM is a target reserve margin defined in the auction parameters for the delivery year.
- The actual reserve margin is calculated for June 1, the first day of the deliver year, because committed MW, replacements, and deficiency MW can vary daily.

RPM reserve margin: June 1, 2025

	01-Jun-21	01-Jun-22	01-Jun-23	01-Jun-24	01-Jun-25			
Forecast peak load ICAP (MW)	149,482.9	149,263.6	149,382.2	151,631.1	154,534.1	Α		
FRR peak load ICAP (MW)	11,717.7	28,292.8	29,554.6	30,431.0	11,720.3	В		
PRD ICAP (MW)	510.0	230.0	235.0	305.0	224.0	С		
Installed reserve margin (IRM)	14.7%	14.9%	14.9%	17.7%	17.8%	D		
Pool wide average EFORd	5.22%	5.08%	4.87%	5.10%		Е		
Pool wide accredited UCAP factor					79.63%	F		
Forecast pool requirement (FPR)	1.0871	1.0906	1.0930	1.1170	0.9380	G=(1+D)*(1-E) or G=(1+D)*F		
RPM committed less deficiency UCAP (MW) (generation and DR)	156,633.6	137,944.8	136,401.8	138,318.6	133,544.1	H		
RPM committed less deficiency ICAP (MW) (generation and DR)	165,260.2	145,327.4	143,384.6	145,751.9	167,705.8	J=H/(1-E) or J=H/F		
RPM peak load ICAP (MW)	137,255.2	120,740.8	119,592.6	120,895.1	142,589.7	K=A-B-C		
Reserve margin ICAP (MW)	28,005.0	24,586.6	23,792.0	24,856.9	25,116.0	L=J-K		
Reserve margin (%)	20.4%	20.4%	19.9%	20.6%	17.6%	M=L/K		
Reserve margin in excess of IRM ICAP (MW)	7,828.5	6,596.3	5,972.7	3,458.4	(264.9)	N=L-D*K		
Reserve margin in excess of IRM (%)	5.7%	5.5%	5.0%	2.9%	(0.2%)	P=N/K		
RPM peak load UCAP (MW)	130,090.5	114,607.2	113,768.4	114,729.4	113,544.2	Q=K*(1-E) or Q=K*F		
RPM reliability requirement UCAP (MW)	149,210.1	131,679.9	130,714.7	135,039.8	133,749.2	R=K*G		
Reserve margin UCAP (MW)	26,543.1	23,337.6	22,633.4	23,589.2	19,999.9	S=H-Q		
Reserve cleared in excess of IRM UCAP (MW)	7,423.5	6,264.9	5,687.1	3,278.8	(205.1)	T=H-R		
Projected replacement capacity UCAP (MW)	0.0	0.0	0.0	0.0	0.0	U		
Projected reserve margin	20.4%	20.4%	19.9%	20.6%	17.6%	V=(J-U/(1-E))/K-1 or V=(J-U/F)/K-1		
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OBBBA: Bonus Depreciation and CRF

- One Big Beautiful Bill Act (OBBBA): Enacted July 4, 2025, made significant changes to bonus depreciation rules previously instated by the Tax Cuts and Jobs Act (TCJA) of 2017.
- 100 percent Bonus Depreciation: Section 70301 of OBBBA (I.R.C. § 168(k)) allows 100 percent bonus depreciation for eligible property acquired and placed in service on or after January 20, 2025.

OBBBA: Bonus Depreciation and CRF

- Eligible Property: Construction must begin after January 19, 2025, and before January 1, 2029, and the property must be placed in service before January 1, 2031.
- Impact: Bonus depreciation in TCJA had been set to phase down from 60 percent in 2024 to 40 percent in 2025, to 20 percent in 2026, and to 0 percent in 2027. OBBBA eliminates these phase-downs and makes permanent 100 percent expensing.

OBBBA: Bonus Depreciation and CRF

- The result will be to reduce CRFs for projects that fall within the defined period.
- CRF affects black start rates, OATT Schedule 6A.
 - Ongoing issue at FERC, Docket No. EL21-91.
- CRF affects APIR values per OATT Attachment DD § 6.8.
- CRF is a formula based rate.



Peak Load by Season

											_
					Peak Load	by Season					
	Summer F	Peak Load H	Hour				Winter P	eak Load H	our		
	Hour			RT Generation	LMP	.	Hour			RT Generation	LMP
Date	Ending	(MWh)	(MWh)	(MWh)	(\$/MWh)	Date 00 0004	Ending	(MWh)	(MWh)	(MWh)	(\$/MWh)
Tuesday, August 3, 2004	17	77,950	435	78,666	\$90.55	Monday, December 20, 2004	19	96,838	1,796	98,797	\$129.90
Tuesday, July 26, 2005	16	134,017	(2,206)	131,975		Wednesday, December 14, 2005	19	110,632	(376)	110,406	\$163.45
Wednesday, August 2, 2006	17	144,904	(782)	143,957	\$404.80	Friday, December 8, 2006	19	106,866	873	108,002	\$83.17
Wednesday, August 8, 2007	16	136,368	404	140,170	\$471.98	Monday, February 5, 2007	20	119,072	(3,964)	115,252	\$178.18
Monday, June 9, 2008	17	127,216	2,862	125,804	\$155.67	Thursday, January 3, 2008	19	109,239	(641)	112,339	\$130.11
Monday, August 10, 2009	17	123,900	163	127,229	\$85.64	Friday, January 16, 2009	19	114,765	(2,316)	115,093	\$80.73
Tuesday, July 6, 2010	17	133,297	(247)	136,442	\$194.02	Tuesday, December 14, 2010	19	113,121	(1,688)	115,284	\$137.02
Thursday, July 21, 2011	17	154,095	(5,906)	151,790	\$162.28	Monday, January 24, 2011	8	108,156	(1,218)	109,394	\$176.49
Tuesday, July 17, 2012	17	150,879	(4,825)	149,582	\$203.72	Tuesday, January 3, 2012	19	119,450	109	122,802	\$67.07
Thursday, July 18, 2013	17	153,790	(7,607)	149,806	\$244.92	Tuesday, January 22, 2013	19	123,473	(3,412)	123,283	\$119.20
Tuesday, June 17, 2014	18	138,448	(7,382)	134,914	\$113.51	Tuesday, January 7, 2014	19	136,932	(9,127)	131,731	\$386.36
Tuesday, July 28, 2015	17	140,266	(3,942)	139,450	\$101.40	Friday, February 20, 2015	8	139,647	(6,994)	137,504	\$381.93
Thursday, August 11, 2016	16	148,577	1,235	153,820	\$128.83	Thursday, December 15, 2016	19	127,759	(2,946)	128,979	\$107.06
Wednesday, July 19, 2017	18	142,387	3,166	148,409	\$59.49	Monday, January 9, 2017	8	124,210	(1,054)	126,761	\$67.72
Tuesday, August 28, 2018	17	147,042	3,238	154,067	\$131.36	Friday, January 5, 2018	19	133,851	(403)	137,173	\$164.15
Friday, July 19, 2019	18	148,228	3,253	154,542	\$37.47	Thursday, January 31, 2019	8	134,060	1,077	138,744	\$85.21
Monday, July 20, 2020	17	141,449	6,013	150,667	\$74.91	Wednesday, January 22, 2020	8	116,761	4,230	123,609	\$31.76
Tuesday, August 24, 2021	17	145,563	2,984	151,708	\$243.98	Friday, January 29, 2021	9	114,457	3,200	120,648	\$27.87
Wednesday, July 20, 2022	18	144,356	3,190	151,620	\$204.29	Friday, December 23, 2022	19	131,474	3,340	136,132	\$2,011.80
Thursday, July 27, 2023	18	144,215	7,211	151,896	\$110.52	Friday, February 3, 2023	20	117,705	746	121,952	\$56.22
Tuesday, July 16, 2024	18	148,890	508	152,864	\$384.56	Wednesday, January 17, 2024	9	130,293	9,291	143,324	\$103.66
Monday, June 23, 2025	18	156,256	2,533	162,599	\$273.39	Wednesday, January 22, 2025	9	140,043	7,660	151,437	\$355.76

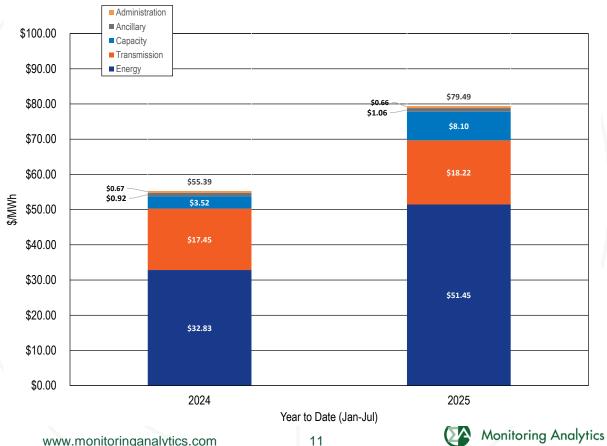
Peak Load Q&A

- Why does this data not match Data Miner?
 - Data miner is instantaneous load with losses. Our data is settlement load without losses.
- Is peak hour integrated load over the full hour?
 - The peak hour load is the load for entire hour, not one interval or instantaneous.

Peak Load Q&A

- Are any reserves included in generation? Regulation?
 Spin if there were a spin event?
 - The generation data does not include reserves and regulation commitment. It does reflect the response from regulating resources, response from all generation resources, with or without reserve commitment, during a reserve deployment such as a spin event.
- LMP is load-weighted average?
 - LMP is the RTO footprint load weighted average PLMP.

Total Cost of Wholesale Power



Total Cost of Wholesale Power

Day Ahead Energy								
Energy		2024 (Jan-Jul)	2024 (Jan-Jul)	2024 (Jan-Jul)	2025 (Jan-Jul)	2025 (Jan-Jul)		
Day Ahead Energy	Category	\$/MWh	(\$ Millions)	Percent of Total	\$/MWh	(\$ Millions)	Percent of Total	Percent Change
Balancing Energy	Energy	\$32.83	\$15,157	59.3%	\$51.45	\$24,587	64.7%	56.7%
ARC Credits Self Scheduled FTR Credits Ftree Ftree Ftree Ftree Ftree Ft	Day Ahead Energy		\$15,454					55.4%
Self Scheduled FTR Credits (80.51) (82.35) (0.9%) (81.43) (88.44) (1.8 lks) 181 Balancing Congestion \$0.44 \$201 0.8% \$0.67 \$318 0.8% 55.5 Emergency Energy \$0.00 \$0.0% \$0.01 \$5.00% (0.0%) Inadvertent Energy \$0.02 \$7.00% (80.01) (\$5.00% (1.80 Load Response - Energy \$0.01 \$5.00% \$0.00 \$0.00% \$18 0.0% Emergency Load Response \$0.00 \$0.00% \$0.00 \$0.00% \$18 0.0% Emergy Load Response \$0.00 \$0.00% \$0.00 \$0.00% \$1.00 Emergy Load Response \$0.00 \$0.00% \$0.00 \$0.00% \$0.00% Emergy Load Response \$0.00 \$0.00% \$0.00 \$0.00% \$0.00% Emergy Load Response \$0.00 \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% Emergy Load Response \$0.00 \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% Emergy Load Response \$0.00 \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00% \$0.00%	Balancing Energy	\$0.63	\$292	1.1%	\$1.17	\$560	1.5%	85.2%
Balancing Congestion \$0.44 \$201 0.8% \$0.67 \$338 0.8% 55	ARR Credits	(\$1.25)	(\$577)	(2.3%)	(\$1.68)	(\$805)	(2.1%)	34.8%
Emergency Energy	Self Scheduled FTR Credits	(\$0.51)	(\$235)	(0.9%)	(\$1.43)	(\$684)	(1.8%)	181.5%
Inadvertent Energy	Balancing Congestion	\$0.44	\$201	0.8%	\$0.67	\$318	0.8%	52.7%
Load Response Energy S0.01 \$5 0.0% \$0.04 \$18 0.0% 277	Emergency Energy	\$0.00	\$0	0.0%	\$0.01	\$6	0.0%	0.0%
Emergency Load Response \$0.00	Inadvertent Energy	\$0.02	\$7	0.0%	(\$0.01)	(\$6)	(0.0%)	(180.4%)
Energy Upift (Operating Reserves)	Load Response - Energy	\$0.01	\$5	0.0%	\$0.04	\$18	0.0%	270.8%
Marginal Loss Surplus Allocation (\$0.45) (\$2.08) (0.8%) (\$0.71) (\$337) (0.9%) 56 Market to Market Payments \$0.06 \$30 0.1% \$0.10 \$48 0.1% 55 Capacity \$3.52 \$1.623 6.3% \$8.10 \$3.869 10.2% 130 Capacity Part V (RMR) \$0.09 \$42 0.2% \$0.05 \$25 0.1% (42 Load Response - Capacity \$0.00 \$0 0.0% \$0.00 \$0 0.0% \$0.00 \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 1.3%	Emergency Load Response	\$0.00	\$0	0.0%	\$0.00	\$0	0.0%	0.0%
Market to Market Payments \$0.06 \$30 0.1% \$0.10 \$48 0.1% 56 Capacity \$3.52 \$1.623 6.3% \$8.10 \$3.669 10.2% 130 Capacity Part V (RMR) \$3.43 \$1.581 6.2% \$8.04 \$3.844 10.1% 133 Capacity Part V (RMR) \$0.09 \$42 0.2% \$0.05 \$25 0.1% (42 Load Response - Capacity \$0.00 \$0 0.0% \$0.00 \$0 0.0% \$0.00 \$0 0.0% \$0.00 \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0%	Energy Uplift (Operating Reserves)	\$0.41	\$188	0.7%	\$1.29	\$615	1.6%	216.1%
Capacity \$3.52 \$1,623 6.3% \$8.10 \$3,869 10.2% 130 Capacity (Capacity Market and FRR) \$3.43 \$1,581 6.2% \$8.04 \$3,844 10.1% 134 Capacity Part V (RMR) \$0.09 \$42 0.2% \$0.05 \$25 0.1% (42 Load Response - Capacity \$0.00 \$0 0.0% \$0.00 \$0 0.0% 0.0% \$0 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	Marginal Loss Surplus Allocation	(\$0.45)	(\$208)	(0.8%)	(\$0.71)	(\$337)	(0.9%)	56.4%
Capacity (Capacity Market and FRR) \$3.43 \$1,581 6.2% \$8.04 \$3,844 10.1% 134 Capacity Part V (RMR) \$0.09 \$42 0.2% \$0.05 \$25 0.1% (42 Load Response - Capacity \$0.00 \$0 0.0% \$0.00 \$0 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0	Market to Market Payments	\$0.06	\$30	0.1%	\$0.10	\$48	0.1%	58.4%
Capacity Part V (RMR) \$0.09 \$42 0.2% \$0.05 \$25 0.1% (42 Load Response - Capacity \$0.00 \$0 0.0% \$0.00 \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 9.0% \$0 9.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0	Capacity	\$3.52	\$1,623	6.3%	\$8.10	\$3,869	10.2%	130.2%
Load Response - Capacity	Capacity (Capacity Market and FRR)	\$3.43	\$1,581	6.2%	\$8.04	\$3,844	10.1%	134.8%
Transmission \$17.45 \$8,056 31.5% \$18.22 \$8,707 \$22.9% 44 Transmission Service Charges \$14.80 \$6,833 26.7% \$15.46 \$7,388 19.4% 4 Transmission Enhancement Cost Recovery \$2.56 \$1,180 4.6% \$2.67 \$1,274 3.4% 4 Transmission Owner (Schedule 1A) \$0.09 \$43 0.2% \$0.09 \$45 0.1% 2 Transmission Facility Charges \$0.00 \$0 0.0% \$0.00 \$0 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	Capacity Part V (RMR)	\$0.09	\$42	0.2%	\$0.05	\$25	0.1%	(42.4%)
Transmission Service Charges \$14.80 \$6,833 \$26.7% \$15.46 \$7,388 \$19.4% 4.84 Transmission Enhancement Cost Recovery \$2.56 \$1,180 4.6% \$2.67 \$1,274 3.4% 4.8 Transmission Owner (Schedule 1A) \$0.09 \$43 0.2% \$0.09 \$45 0.1% 2.2 Transmission Seams Elimination Cost Assignment (SECA) \$0.00 \$0 0.0% \$0.00 \$0 0.0% 0.0 \$0 0.0% 0.0 \$0 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% <	Load Response - Capacity	\$0.00	\$0	0.0%	\$0.00	\$0	0.0%	0.0%
Transmission Enhancement Cost Recovery \$2.56 \$1,180 4.6% \$2.67 \$1,274 3.4% 4.6% Transmission Owner (Schedule 1A) \$0.09 \$43 0.2% \$0.09 \$45 0.1% 2 Transmission Seams Elimination Cost Assignment (SECA) \$0.00 \$0 0.0% \$0.00 \$0 0.0% \$0.00 \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0%	Transmission	\$17.45	\$8,056	31.5%	\$18.22	\$8,707	22.9%	4.4%
Transmission Owner (Schedule 1A) \$0.09 \$43 0.2% \$0.09 \$45 0.1% 22 Transmission Seams Elimination Cost Assignment (SECA) \$0.00 \$0 0.0% \$0.00 \$0 0.0% \$0.00 \$0 0.0% \$0.00 \$0 0.0% \$0.00 \$0 0.0% \$0.00 \$0 0.0% \$0.00 \$0 0.0% \$0.00 \$0 0.0% \$0.00 \$0 0.0% \$0.00 \$0 0.0% \$0.00 \$0 0.0% \$0.00 \$0 0.0% \$0.00 \$0 0.0% \$0.00 \$0 0.0% \$0.0% \$0.00 \$0 0.0% \$0.0% \$0.0% \$0.0% \$0.0% \$0.0% \$0.0% \$0.0% \$0.0% \$0.0% \$0.0% \$0.0% \$0.0% \$0.0% \$0.0% \$0.0% \$0.0% \$0.0% \$0.0% \$0.0% \$0.0% \$0.0% \$0.0% \$0.0% \$0.0% \$0.0% \$0.0% \$0.0% \$0.0% \$0.0% \$0.0% \$0.0% \$0.0% <	Transmission Service Charges	\$14.80	\$6,833	26.7%	\$15.46	\$7,388	19.4%	4.4%
Transmission Seams Elimination Cost Assignment (SECA) \$0.00 \$0 0.0% \$0.00 \$0 0.0% COMBAN COMBAN <t< td=""><td>Transmission Enhancement Cost Recovery</td><td>\$2.56</td><td>\$1,180</td><td>4.6%</td><td>\$2.67</td><td>\$1,274</td><td>3.4%</td><td>4.3%</td></t<>	Transmission Enhancement Cost Recovery	\$2.56	\$1,180	4.6%	\$2.67	\$1,274	3.4%	4.3%
Transmission Facility Charges \$0.00 \$0 0.0% \$0.00 \$0 0.0% Companies Ancillary \$0.92 \$425 1.7% \$1.06 \$508 1.3% 15 Reactive \$0.48 \$223 0.9% \$0.45 \$215 0.6% (6 Regulation \$0.23 \$106 0.4% \$0.31 \$149 0.4% 33 Black Start \$0.09 \$42 0.2% \$0.07 \$32 0.1% (25 Synchronized Reserves \$0.10 \$47 0.2% \$0.21 \$98 0.3% 103 Secondary Reserves \$0.00 \$1 0.0% \$0.01 \$4 0.0% \$0.01 \$4 0.0% \$23 Non-Synchronized Reserves \$0.00 \$1 0.0% \$0.01 \$4 0.0% \$20 \$29 0.0% \$50 Day Ahead Scheduling Reserve (DASR) \$0.00 \$0 0.0% \$0.00 \$0 0.0% \$0 0.0% \$0	Transmission Owner (Schedule 1A)	\$0.09	\$43	0.2%	\$0.09	\$45	0.1%	2.2%
Ancillary	Transmission Seams Elimination Cost Assignment (SECA)	\$0.00	\$0	0.0%	\$0.00	\$0	0.0%	0.0%
Reactive \$0.48 \$223 0.9% \$0.45 \$215 0.6% (6 Regulation \$0.23 \$106 0.4% \$0.31 \$149 0.4% 33 Black Start \$0.09 \$42 0.2% \$0.07 \$32 0.1% (25 Synchronized Reserves \$0.10 \$47 0.2% \$0.21 \$98 0.3% 100 Secondary Reserves \$0.00 \$1 0.0% \$0.01 \$4 0.0% 235 Non-Synchronized Reserves \$0.01 \$6 0.0% \$0.02 \$9 0.0% 50 Day Ahead Scheduling Reserve (DASR) \$0.00 \$0 0.0% \$0.00 \$0 0.0% 50 Administration \$0.67 \$308 1.2% \$0.66 \$315 0.8% (1 PJM Administrative Fees \$0.62 \$285 1.1% \$0.61 \$292 0.8% (1 NEC/FIFC \$0.04 \$19 0.1% \$0.04 \$20 0.1%	Transmission Facility Charges	\$0.00	\$0	0.0%	\$0.00	\$0	0.0%	0.0%
Regulation \$0.23 \$106 0.4% \$0.31 \$149 0.4% 32 Black Start \$0.09 \$42 0.2% \$0.07 \$32 0.1% (25 Synchronized Reserves \$0.10 \$47 0.2% \$0.21 \$98 0.3% 103 Secondary Reserves \$0.00 \$1 0.0% \$0.01 \$4 0.0% 23 Non-Synchronized Reserves \$0.01 \$6 0.0% \$0.02 \$9 0.0% 50 Day Ahead Scheduling Reserve (DASR) \$0.00 \$0 0.0% \$0.00 \$0 0.0% 50 Day Ahead Scheduling Reserve (DASR) \$0.00 \$0 0.0% \$0.00 \$0 0.0% 50 Administration \$0.67 \$308 1.2% \$0.66 \$315 0.8% (1 PJM Administrative Fees \$0.62 \$285 1.1% \$0.61 \$292 0.8% (1 REC/RFC \$0.04 \$19 0.1% \$0.01 \$0	Ancillary	\$0.92	\$425	1.7%	\$1.06	\$508	1.3%	15.4%
Black Start \$0.09 \$42 0.2% \$0.07 \$32 0.1% (25 Synchronized Reserves \$0.10 \$47 0.2% \$0.21 \$98 0.3% 103 Secondary Reserves \$0.00 \$1 0.0% \$0.01 \$4 0.0% 235 Non-Synchronized Reserves \$0.01 \$6 0.0% \$0.02 \$9 0.0% 50 Day Ahead Scheduling Reserve (DASR) \$0.00 \$0 0.0% \$0.00 \$0 0.0% \$0.00 \$0 0.0% \$0.00 \$0 0.0% \$0.00 \$0 0.0% \$0.00 \$0 0.0% \$0.00 \$0 0.0% \$0.00 \$0 0.0% \$0.00 \$0 0.0% \$0.00 \$0 0.0% \$0.00 \$0 0.0% \$0.00 \$0 0.0% \$0.00 \$0 0.0% \$0.00 \$0 0.0% \$0 0.0% \$0.00 \$0 0.0% \$0.00 \$0 0.0% \$0.00 \$0 0.0%	Reactive	\$0.48	\$223	0.9%	\$0.45	\$215	0.6%	(6.8%)
Synchronized Reserves \$0.10 \$47 0.2% \$0.21 \$98 0.3% 103 Secondary Reserves \$0.00 \$1 0.0% \$0.01 \$4 0.0% 23 Non-Synchronized Reserves \$0.01 \$6 0.0% \$0.02 \$9 0.0% 50 Day Ahead Scheduling Reserve (DASR) \$0.00 \$0 0.0% \$0.00 \$0 0.0% \$0 Administration \$0.67 \$308 1.2% \$0.66 \$315 0.8% (1 PJM Administrative Fees \$0.62 \$285 1.1% \$0.61 \$292 0.8% (1 NECVIFIC \$0.04 \$19 0.1% \$0.04 \$20 0.1% 1 RTO Startup and Expansion \$0.00 \$0 0.0% \$0.00 \$0 0.0% 0 Other \$0.01 \$4 0.0% \$0.00 \$2 0.0% (45 Total Day Ahead Load 456,113 470,359 37,985 100.0% 32	Regulation	\$0.23	\$106	0.4%	\$0.31	\$149	0.4%	35.2%
Secondary Reserves \$0.00 \$1 0.0% \$0.01 \$4 0.0% 235 Non-Synchronized Reserves \$0.01 \$6 0.0% \$0.02 \$9 0.0% 50 Day Ahead Scheduling Reserve (DASR) \$0.00 \$0 0.0% \$0.00 \$0 0.0% 50 Administration \$0.67 \$308 1.2% \$0.66 \$315 0.8% (1 PJM Administrative Fees \$0.62 \$285 1.1% \$0.61 \$292 0.8% (1 NERC/RFC \$0.04 \$19 0.1% \$0.04 \$20 0.1% 1 RTO Startup and Expansion \$0.00 \$0 0.0% \$0.00 \$0 0.0% 0 Other \$0.01 \$4 0.0% \$0.00 \$2 0.0% (45 Total Price \$55.39 \$25.570 100.0% \$79.49 \$37.985 100.0% 43 Total Day Ahead Load 456.113 470.359 37.985 100.0% 35 </td <td>Black Start</td> <td>\$0.09</td> <td>\$42</td> <td>0.2%</td> <td>\$0.07</td> <td>\$32</td> <td>0.1%</td> <td>(25.8%)</td>	Black Start	\$0.09	\$42	0.2%	\$0.07	\$32	0.1%	(25.8%)
Non-Synchronized Reserves \$0.01 \$6 0.0% \$0.02 \$9 0.0% 50 Day Ahead Scheduling Reserve (DASR) \$0.00 \$0 0.0% \$0.00 \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 0.0% \$0 1.1% \$0.61 \$292 0.0% \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 <td< td=""><td>Synchronized Reserves</td><td>\$0.10</td><td>\$47</td><td>0.2%</td><td>\$0.21</td><td>\$98</td><td>0.3%</td><td>103.4%</td></td<>	Synchronized Reserves	\$0.10	\$47	0.2%	\$0.21	\$98	0.3%	103.4%
Day Áhead Scheduling Reserve (DASR) \$0.00 \$0 0.0% \$0.00 \$0 0.0% CO Administration \$0.67 \$308 1.2% \$0.66 \$315 0.8% (1 PJM Administrative Fees \$0.62 \$285 1.1% \$0.61 \$292 0.8% (1 NERC/RFC \$0.04 \$19 0.1% \$0.04 \$20 0.1% 1 RTO Startup and Expansion \$0.00 \$0 0.0% \$0.00 \$0 0.0% 0.0 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.	Secondary Reserves	\$0.00	\$1	0.0%	\$0.01	\$4	0.0%	235.9%
Administration \$0.67 \$308 1.2% \$0.66 \$315 0.8% (1 PJM Administrative Fees \$0.62 \$285 1.1% \$0.61 \$292 0.8% (1 NERC/RFC \$0.04 \$19 0.1% \$0.04 \$20 0.1% 1 RTO Startup and Expansion \$0.00 \$0 0.0% \$0 \$0 \$0 \$0 0.0% \$0 Other \$0.01 \$4 0.0% \$0.00 \$2 0.0% (45 Total Price \$55.39 \$25.570 100.0% \$79.49 \$37.985 100.0% 47 Total Day Ahead Load 456.113 470.359 37 35 35 35 35 35 35 35 35 35 35 35 35 35 35 35 35 35 35 35 35 35 35 35 35 35 35 35 35 35 35 35 35 35 </td <td>Non-Synchronized Reserves</td> <td>\$0.01</td> <td>\$6</td> <td>0.0%</td> <td>\$0.02</td> <td>\$9</td> <td>0.0%</td> <td>50.3%</td>	Non-Synchronized Reserves	\$0.01	\$6	0.0%	\$0.02	\$9	0.0%	50.3%
PJM Administrative Fees \$0.62 \$285 1.1% \$0.61 \$292 0.8% 1 NERC/RFC \$0.04 \$19 0.1% \$0.04 \$20 0.1% 1 RTO Startup and Expansion \$0.00 \$0 0.0% \$0.00 \$0 0.0% 0.0 \$0 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 45 0.0% 45 0.0% 45 0.0% 45 0.0% 45 0.0% 45 0.0% 45 0.0% 45 0.0% 45 0.0% 45 0.0% 45 0.0% 45 0.0% 45 0.0% 45 0.0% 45 0.0% 45 0.0% 45 0.0% 45 0.0% 45 0.0% 45 0.0% 45 0.0% 40 0.0% 40 0.0% 40 0.0% 0.0 2 0.0% 40 0.0% 0.0 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 0.0%	Day Ahead Scheduling Reserve (DASR)	\$0.00	\$0	0.0%	\$0.00	\$0	0.0%	0.0%
NERC/RFC \$0.04 \$19 0.1% \$0.04 \$20 0.1% 1 RTO Startup and Expansion \$0.00 \$0 0.0% \$0.00 \$0 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	Administration	\$0.67	\$308	1.2%	\$0.66	\$315	0.8%	(1.4%)
NERC/RFC \$0.04 \$19 0.1% \$0.04 \$20 0.1% 1 RTO Startup and Expansion \$0.00 \$0 0.0% \$0.00 \$0 0.0% 0.0 \$0 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% <td>PJM Administrative Fees</td> <td>\$0.62</td> <td>\$285</td> <td>1.1%</td> <td>\$0.61</td> <td>\$292</td> <td>0.8%</td> <td>(1.0%)</td>	PJM Administrative Fees	\$0.62	\$285	1.1%	\$0.61	\$292	0.8%	(1.0%)
Other \$0.01 \$4 0.0% \$0.00 \$2 0.0% (45 Total Price \$55.39 \$25.570 100.0% \$79.49 \$37.985 100.0% 42 Total Day Ahead Load 456,113 470,359 32 32 32 Total Balancing Load (5,516) (7,497) 32 32 33 33 33 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 3	NERC/RFC	\$0.04	\$19	0.1%	\$0.04	\$20	0.1%	1.0%
Other \$0.01 \$4 0.0% \$0.00 \$2 0.0% (45 Total Price \$55.39 \$25.570 100.0% \$79.49 \$37.985 100.0% 42 Total Day Ahead Load 456,113 470,359 32 32 33 Total Balancing Load (5,516) (7,497) 33 32 33 33 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 3	RTO Startup and Expansion	\$0.00	\$0	0.0%	\$0.00	\$0	0.0%	0.0%
Total Price \$55.39 \$25.570 100.0% \$79.49 \$37,985 100.0% 43 Total Day Ahead Load 456,113 470,359 3 Total Balancing Load (5,516) (7,497) 35 Total Real Time Load 461,629 477,856 3		\$0.01	\$4	0.0%	\$0.00	\$2	0.0%	(45.7%)
Total Balancing Load (5,516) (7,497) 35 Total Real Time Load 461,629 477,856 3	Total Price	\$55.39	\$25,570	100.0%	\$79.49	\$37,985	100.0%	43.5%
Total Balancing Load (5,516) (7,497) 35 Total Real Time Load 461,629 477,856 3	Total Day Ahead Load	456,113			470,359			3.1%
Total Real Time Load 461,629 477,856 3		(5,516)			(7,497)			35.9%
	Total Real Time Load	461,629			477,856			3.5%
Total Cost (\$ Billions) \$25.57 \$37.99	Total Cost (\$ Billions)	\$25.57			\$37.99			48.6%

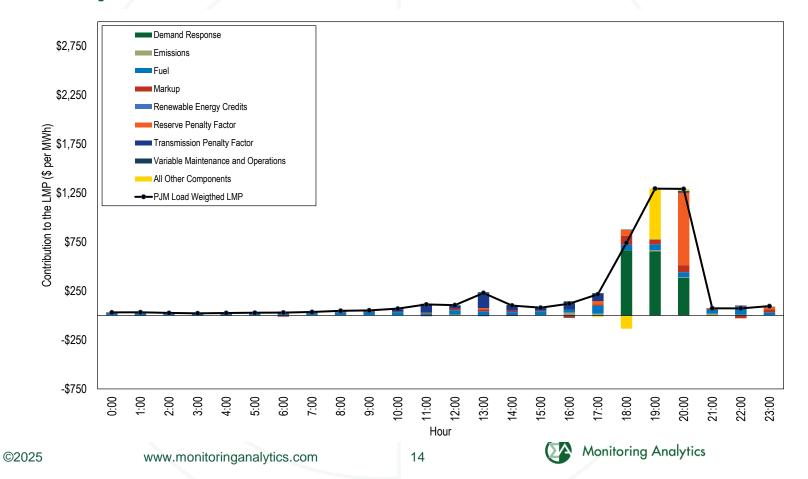
LMP Formation during June Peak Load

- The IMM decomposes LMP into the components of the offers of marginal units and the administrative components of LMP on a five minute basis.
- Five minute LMP components are averaged to load weighted average hourly LMP components.
- The analysis shows the extent to which fuel costs, markup, demand response, ORDCs, transmission constraint penalty factors determined LMP.
- The ORDCs during primary reserve shortages and demand response strike prices were the primary determinants of LMPs over \$1,000 per MWh.
- Administrative price caps to SMP applied in the pricing run on June 24, 2025.

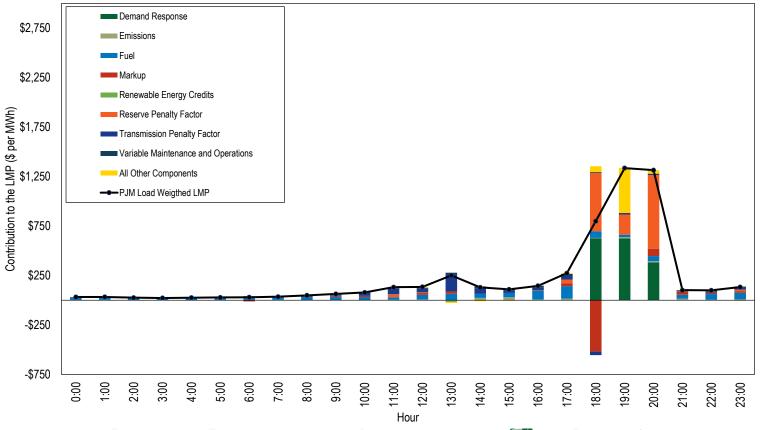
13

Monitoring Analytics

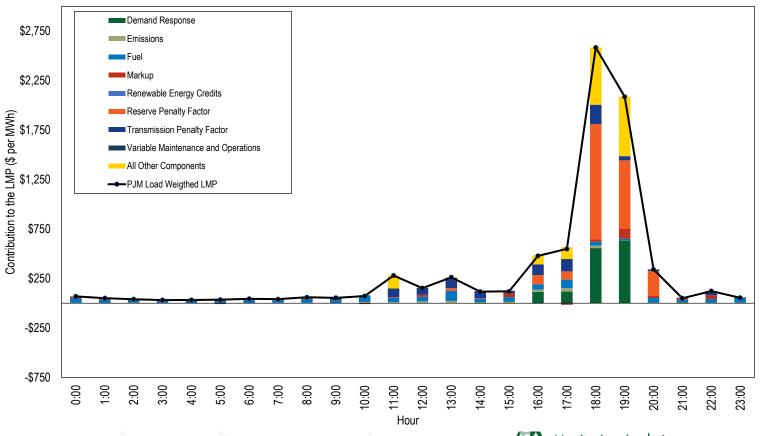
Dispatch Run LMP Formation June 23, 2025



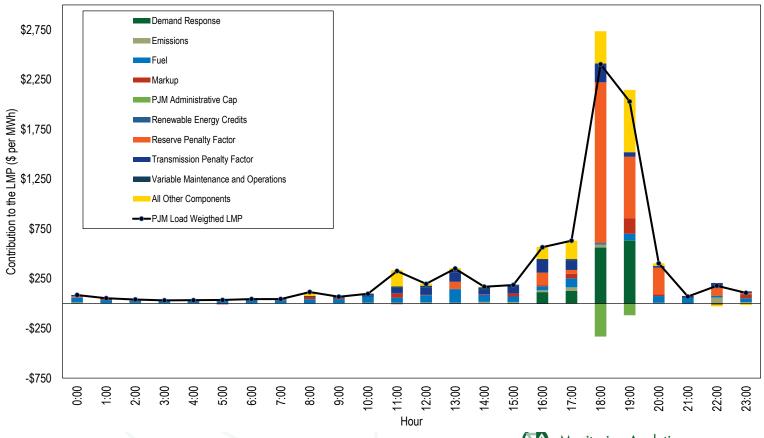
Pricing Run LMP Formation June 23, 2025



Dispatch Run LMP Formation June 24, 2025

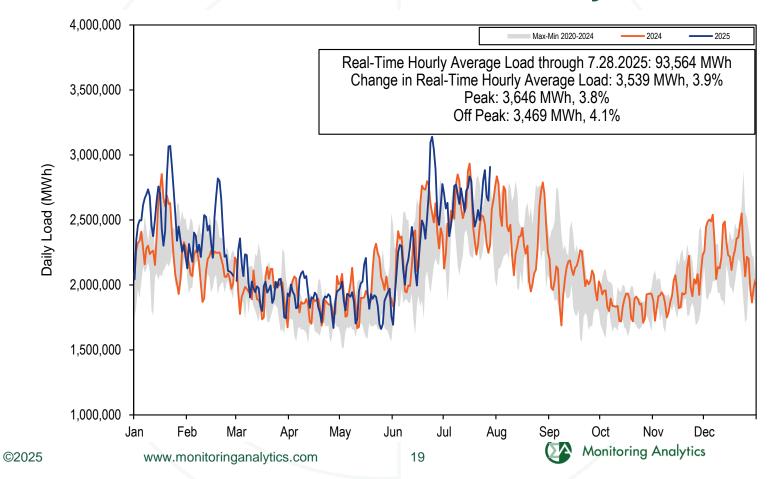


Pricing Run LMP Formation June 24, 2025

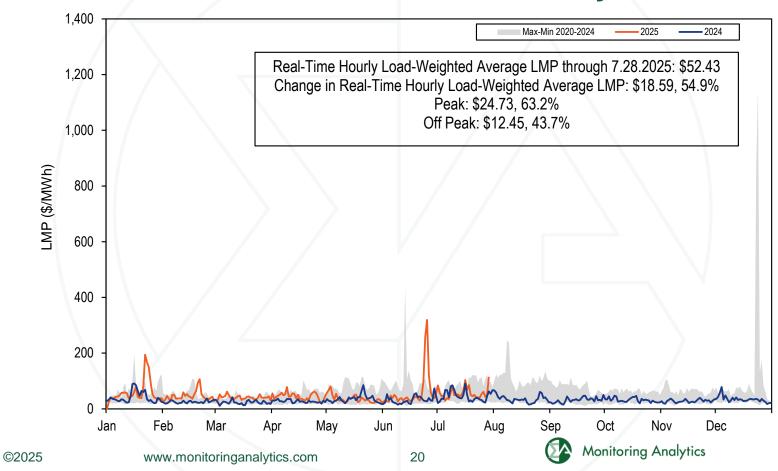


YEAR TO DATE UPDATE

2024 YTD PJM Real-Time Daily Load



2024 YTD PJM Real-Time Daily LMP



Monthly Maximum Solar and Wind Hourly Output



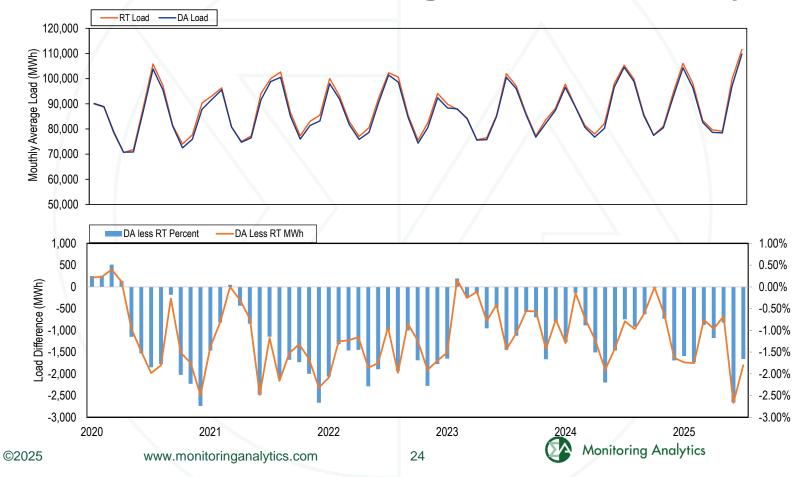
Annual Maximum Hourly Solar and Wind Output

	Solar Maxi	mum Hourly C	utput	Solar Percent of	Solar Percent of Wind Maximum Hourly Output						
Year	Maximum Hourly MWh	Change	Percent Change	All Generation For The Year	Maximum Hourly MWh	Change	Percent Change	All Generation For The Year			
2020	1,879	Change	Change	0.4%	9,095	Change	Gnange	3.3%			
2021	3,617	1,739	92.5%	0.9%	8,911	(184)	(2.0%)	3.3%			
2022	4,429	812	22.4%	1.1%	9,402	491	5.5%	3.8%			
2023	5,630	1,201	27.1%	1.4%	9,993	592	6.3%	3.5%			
2024	8,532	2,901	51.5%	2.1%	9,768	(226)	(2.3%)	3.7%			
2025	12,325	3,794	44.5%	2.9%	9,929	161	1.7%	4.5%			

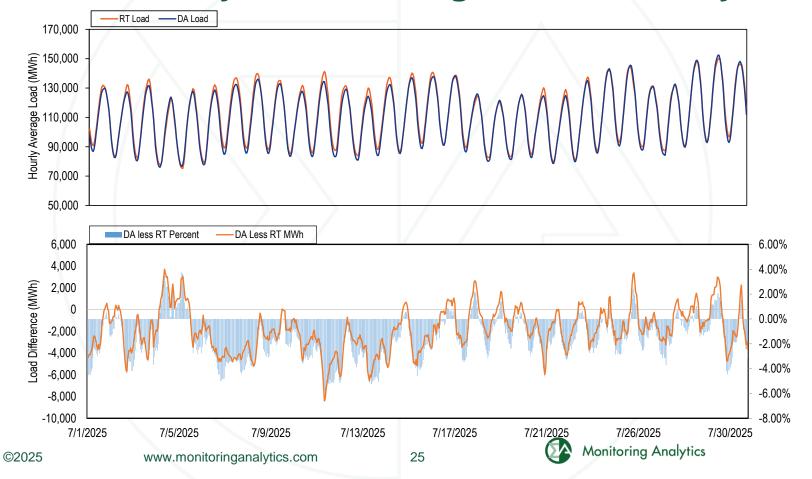
Real-Time Load-Weighted Average LMP

		202	4			202	5	
				Percent				Percent
	Off Peak	On Peak	Difference	Difference	Off Peak	On Peak	Difference	Difference
Jan	\$38.50	\$47.10	\$8.60	22.3%	\$55.29	\$70.54	\$15.25	27.6%
Feb	\$24.49	\$25.23	\$0.74	3.0%	\$43.75	\$54.12	\$10.37	23.7%
Mar	\$21.64	\$24.79	\$3.15	14.6%	\$38.89	\$45.68	\$6.79	17.5%
Apr	\$23.99	\$30.03	\$6.04	25.2%	\$38.15	\$52.08	\$13.93	36.5%
May	\$28.99	\$42.74	\$13.75	47.4%	\$27.32	\$45.53	\$18.21	66.7%
Jun	\$26.66	\$40.04	\$13.38	50.2%	\$39.62	\$94.51	\$54.89	138.5%
Jul	\$32.20	\$60.78	\$28.58	88.7%	\$39.08	\$77.77	\$38.68	99.0%
Aug	\$26.71	\$44.99	\$18.28	68.5%				
Sep	\$24.53	\$39.42	\$14.89	60.7%				
Oct	\$26.60	\$36.49	\$9.89	37.2%				
Nov	\$23.80	\$33.18	\$9.38	39.4%				
Dec	\$31.60	\$38.70	\$7.10	22.5%				

DA vs RT Load Bidding Difference History



DA vs RT Hourly Load Bidding Difference, July 2025



FAST START



- PJM implemented fast start pricing in both the dayahead and real-time markets on September 1, 2021.
- The goal of fast start pricing is to allow inflexible resources to set prices based on the sum of their commitment costs per MWh and their marginal costs.
- The pricing run LMP (PLMP) is now the official settlement LMP in PJM, replacing the dispatch run LMP (DLMP).

- Fast start pricing employs a new LMP calculation called the pricing run.
- The pricing run calculates LMP using the same optimal power flow algorithm as the dispatch run while simultaneously reducing ("relaxing" or ignoring) the economic minimum and maximum output MW constraints for all eligible fast start units.

- The price signal no longer equals the short run marginal cost and therefore no longer provides the correct signal for efficient behavior for market participants making decisions on the margin.
- The differences between the actual LMP (DLMP) and the fast start LMP (PLMP) distort the incentive for market participants to behave competitively and to follow PJM's dispatch instructions.

- PJM also uses the pricing run for capping the system marginal price at \$3,700 per MWh.
 - This was last used during Winter Storm Elliott.
 - The cap applies to the marginal energy component of LMP, but the congestion and loss components of LMP can exceed the cap.
- PJM uses a lower default transmission constraint penalty factor in the pricing run in the day-ahead market.
 - \$30,000 per MWh in the dispatch run
 - \$2,000 per MWh in the pricing run

Monthly Average Load-Weighted DLMP and PLMP

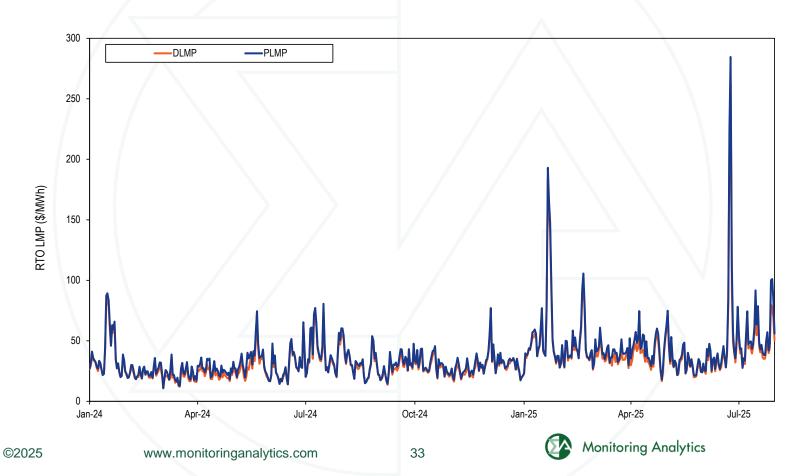
Percent Year Month DLMP PLMP Difference Difference DLMP PLMP Differer	95 4.8%
Year Month DLMP PLMP Difference Difference DLMP PLMP Differen	95 4.8%
2024 Jan \$48.45 \$48.65 \$0.20 0.4% \$40.82 \$42.78 \$1.	7.00/
2024 Feb \$23.67 \$23.70 \$0.03 0.1% \$23.20 \$24.86 \$1.	66 7.2%
2024 Mar \$21.89 \$21.93 \$0.04 0.2% \$20.30 \$23.15 \$2.	35 14.0%
2024 Apr \$26.73 \$26.75 \$0.02 0.1% \$23.29 \$27.17 \$3.	16.6%
2024 May \$32.92 \$32.90 (\$0.02) (0.1%) \$31.70 \$36.16 \$4.	14.1%
2024 Jun \$32.59 \$32.62 \$0.03 0.1% \$31.95 \$33.35 \$1.	4.4%
2024 Jul \$44.51 \$44.69 \$0.18 0.4% \$44.12 \$47.17 \$3.	04 6.9%
2024 Aug \$36.34 \$36.31 (\$0.03) (0.1%) \$34.37 \$36.29 \$1.	5.6%
2024 Sep \$30.63 \$30.77 \$0.14 0.4% \$29.32 \$31.81 \$2.	8.5%
2024 Oct \$33.18 \$33.26 \$0.08 0.2% \$29.85 \$31.87 \$2.	02 6.8%
2024 Nov \$29.78 \$29.82 \$0.04 0.1% \$25.70 \$28.26 \$2.	9.9%
2024 Dec \$36.98 \$37.05 \$0.06 0.2% \$33.62 \$34.98 \$1.	36 4.0%
2024 Jan-Jul \$36.95 \$37.08 \$0.12 0.3% \$32.71 \$34.53 \$1.	32 5.6%
<u>2</u> 024 \$33.72 \$33.79 \$0.07 0.2% \$31.31 \$33.74 \$2.	3 7.7%
2025 Jan \$67.53 \$67.74 \$0.21 0.3% \$59.93 \$62.87 \$2.	4.9%
2025 Feb \$48.85 \$49.02 \$0.16 0.3% \$46.27 \$48.90 \$2.	5.7%
2025 Mar \$40.76 \$40.74 (\$0.03) (0.1%) \$37.82 \$42.11 \$4.	30 11.4%
2025 Apr \$44.36 \$44.35 (\$0.01) (0.0%) \$40.07 \$45.42 \$5.	35 13.4%
2025 May \$37.56 \$37.40 (\$0.16) (0.4%) \$33.98 \$36.34 \$2.	6.9%
2025 Jun \$53.01 \$53.14 \$0.13 0.2% \$62.53 \$68.13 \$5.	9.0%
2025 Jul \$66.56 \$66.76 \$0.20 0.3% \$52.41 \$59.38 \$6.	7 13.3%
2025 Jan-Jul \$59.01 \$59.20 \$0.19 0.3% \$53.71 \$56.51 \$2.	5.2%

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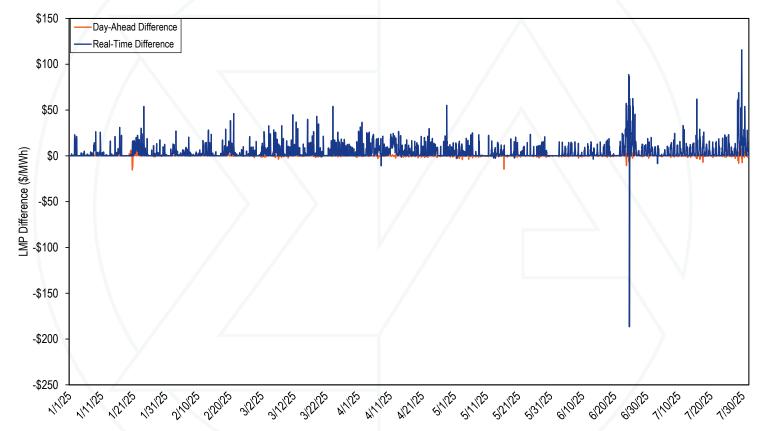
Real Time Fast Start Impact

	2022	2023	2024	2025
Month	(In Millions)	(In Millions)	(In Millions)	(In Millions)
Jan	196.33	72.89	142.06	232.11
Feb	52.11	33.74	103.17	173.03
Mar	106.74	53.11	172.59	266.16
Apr	195.22	121.28	217.50	306.90
May	247.03	143.80	272.73	138.96
Jun	429.42	98.31	98.74	402.22
Jul	643.44	217.56	238.39	578.75
Aug	602.88	112.21	142.81	
Sep	259.08	137.94	153.65	
Oct	204.26	239.25	116.28	
Nov	122.77	152.91	149.38	
Dec	(99.68)	104.53	95.35	
Total	2,959.60	1,487.52	1,902.66	

Daily Average Real-Time DLMP and PLMP



Hourly Difference: PLMP – DLMP



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Fast Start Units as a Percent of Marginal Units

			Dis	oatch Run		Pricing Run							
						All Fast					All Fast		
Year	Month	CT	Diesel	Wind	Solar S	tart Units	CT	Diesel	Wind	Solar St	art Units		
2024	Jan	0.7%	0.6%	0.0%	0.0%	1.3%	3.5%	1.1%	0.0%	0.0%	4.7%		
2024	Feb	0.4%	0.1%	0.1%	0.0%	0.5%	2.2%	0.1%	0.1%	0.0%	2.4%		
2024	Mar	0.7%	0.2%	1.2%	0.0%	2.1%	4.1%	0.8%	1.3%	0.0%	6.2%		
2024	Apr	1.5%	0.2%	0.2%	0.0%	1.9%	6.5%	0.7%	0.1%	0.0%	7.3%		
2024	May	0.6%	0.2%	0.1%	0.0%	1.0%	5.1%	0.6%	0.1%	0.0%	5.8%		
2024	Jun	0.5%	0.3%	0.1%	0.0%	0.8%	3.5%	0.4%	0.1%	0.0%	4.0%		
2024	Jul	0.8%	0.5%	0.0%	0.1%	1.4%	7.4%	1.0%	0.0%	0.1%	8.5%		
2024	Aug	0.6%	0.5%	0.0%	0.0%	1.1%	5.0%	1.0%	0.0%	0.0%	6.0%		
2024	Sep	1.0%	0.1%	0.0%	0.0%	1.1%	7.1%	0.4%	0.0%	0.0%	7.6%		
2024	Oct	1.2%	0.1%	0.0%	0.0%	1.3%	6.4%	1.3%	0.0%	0.0%	7.7%		
2024	Nov	1.0%	0.2%	0.0%	0.1%	1.4%	6.2%	0.6%	0.0%	0.1%	7.0%		
2024	Dec	0.5%	0.2%	0.0%	0.0%	0.7%	2.2%	0.6%	0.0%	0.0%	2.9%		
2024	Jan-Jul	0.7%	0.3%	0.3%	0.0%	1.3%	4.6%	0.7%	0.2%	0.0%	5.6%		
2024		0.8%	0.3%	0.2%	0.0%	1.2%	4.9%	0.7%	0.2%	0.0%	5.8%		
2025	Jan	0.8%	0.6%	0.1%	0.0%	1.5%	4.5%	2.1%	0.1%	0.0%	6.8%		
2025	Feb	1.5%	0.1%	0.4%	0.0%	2.0%	3.7%	0.6%	0.3%	0.0%	4.6%		
2025	Mar	0.5%	4.5%	0.1%	0.2%	5.2%	3.4%	5.0%	0.1%	0.2%	8.6%		
2025	Apr	1.9%	1.8%	0.3%	0.1%	4.1%	7.1%	2.2%	0.3%	0.1%	9.7%		
2025	May	0.6%	0.3%	0.0%	0.0%	1.0%	3.9%	1.5%	0.0%	0.0%	5.4%		
2025	Jun	1.4%	0.2%	0.0%	0.0%	1.6%	6.2%	0.8%	0.0%	0.0%	7.0%		
2025	Jul	2.5%	0.5%	0.0%	0.0%	3.1%	10.6%	1.3%	0.0%	0.0%	12.0%		
2025	Jan-Jul	1.3%	1.2%	0.1%	0.0%	2.7%	5.6%	1.9%	0.1%	0.0%	7.7%		
5	www.monitoringanalytics.com					35		Monitoring Analytics					

Fast Start Impacts: Zone Average Differences

	2025 Jan-Jul										
		Day-A	head			Real-	Time				
	Average	Average		Percent	Average	Average		Percent			
Zone	DLMP	PLMP	Difference	Difference	DLMP	PLMP	Difference	Difference			
ACEC	\$33.50	\$33.56	\$0.07	0.2%	\$31.17	\$33.36	\$2.20	7.0%			
AEP	\$36.75	\$36.81	\$0.06	0.2%	\$34.05	\$36.93	\$2.88	8.5%			
APS	\$37.95	\$38.01	\$0.07	0.2%	\$35.03	\$38.02	\$2.99	8.5%			
ATSI	\$37.03	\$37.04	\$0.01	0.0%	\$33.80	\$36.63	\$2.82	8.3%			
BGE	\$46.41	\$46.49	\$0.08	0.2%	\$42.18	\$45.74	\$3.56	8.4%			
COMED	\$29.39	\$29.47	\$0.08	0.3%	\$26.59	\$28.98	\$2.39	9.0%			
DAY	\$37.87	\$37.94	\$0.06	0.2%	\$34.61	\$37.58	\$2.97	8.6%			
DUKE	\$36.44	\$36.50	\$0.06	0.2%	\$33.18	\$36.02	\$2.84	8.6%			
DOM	\$45.67	\$45.72	\$0.04	0.1%	\$42.49	\$45.72	\$3.23	7.6%			
DPL	\$37.35	\$37.45	\$0.10	0.3%	\$33.65	\$36.81	\$3.16	9.4%			
DUQ	\$36.06	\$36.11	\$0.05	0.1%	\$33.39	\$36.16	\$2.77	8.3%			
EKPC	\$35.89	\$35.96	\$0.06	0.2%	\$33.24	\$36.07	\$2.83	8.5%			
JCPLC	\$33.60	\$33.67	\$0.07	0.2%	\$31.32	\$33.57	\$2.25	7.2%			
MEC	\$35.31	\$35.38	\$0.07	0.2%	\$32.11	\$34.59	\$2.48	7.7%			
OVEC	\$35.02	\$35.08	\$0.06	0.2%	\$31.85	\$34.59	\$2.73	8.6%			
PECO	\$32.82	\$32.88	\$0.07	0.2%	\$30.50	\$32.61	\$2.11	6.9%			
PE	\$38.46	\$38.50	\$0.04	0.1%	\$35.16	\$37.92	\$2.76	7.9%			
PEPCO	\$45.10	\$45.17	\$0.07	0.2%	\$41.31	\$44.69	\$3.37	8.2%			
PPL	\$32.49	\$32.56	\$0.07	0.2%	\$29.93	\$32.22	\$2.29	7.7%			
PSEG	\$33.82	\$33.89	\$0.07	0.2%	\$31.81	\$34.10	\$2.29	7.2%			
REC	\$36.59	\$36.66	\$0.07	0.2%	\$34.14	\$36.57	\$2.43	7.1%			
							Monitorin	A			

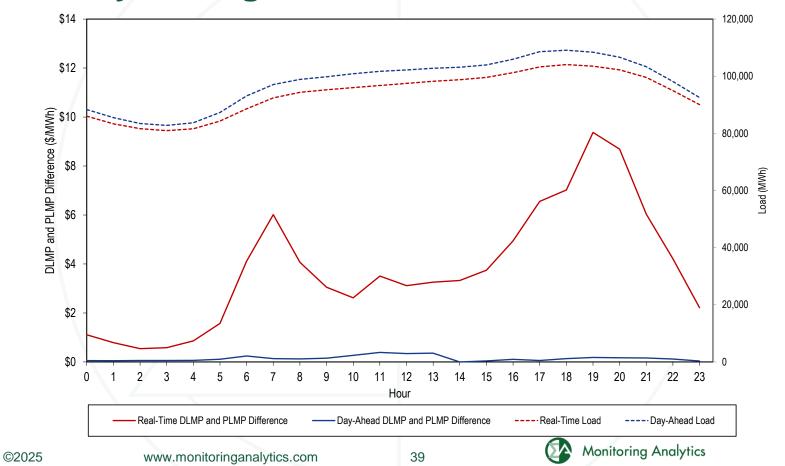
Fast Start Impacts: Hub Average Differences

				2025 Ja	n-Jul			
		Day-A	head			Real-	Time	
	Average	Average		Percent	Average	Average		Percent
Hub	DLMP	PLMP	Difference	Difference	DLMP	PLMP	Difference	Difference
AEP GEN HUB	\$34.94	\$34.98	\$0.04	0.1%	\$31.87	\$34.62	\$2.75	8.6%
AEP-DAYTON HUB	\$36.19	\$36.23	\$0.04	0.1%	\$33.05	\$35.87	\$2.82	8.5%
ATSI GEN HUB	\$36.45	\$36.45	\$0.01	0.0%	\$32.98	\$35.73	\$2.75	8.3%
CHICAGO GEN HUB	\$28.66	\$28.74	\$0.08	0.3%	\$25.62	\$28.01	\$2.39	9.3%
CHICAGO HUB	\$29.59	\$29.63	\$0.04	0.1%	\$26.72	\$29.10	\$2.38	8.9%
DOMINION HUB	\$40.39	\$40.42	\$0.04	0.1%	\$37.34	\$40.45	\$3.11	8.3%
EASTERN HUB	\$37.21	\$37.28	\$0.07	0.2%	\$33.44	\$36.54	\$3.11	9.3%
N ILLINOIS HUB	\$29.32	\$29.41	\$0.09	0.3%	\$26.61	\$29.00	\$2.39	9.0%
NEW JERSEY HUB	\$33.69	\$33.73	\$0.04	0.1%	\$31.50	\$33.76	\$2.26	7.2%
OHIO HUB	\$36.20	\$36.24	\$0.04	0.1%	\$33.08	\$35.90	\$2.82	8.5%
WEST INT HUB	\$37.97	\$37.98	\$0.01	0.0%	\$34.95	\$37.86	\$2.91	8.3%
WESTERN HUB	\$39.82	\$39.86	\$0.03	0.1%	\$36.37	\$39.37	\$3.00	8.2%

Zonal Real-Time PLMP-DLMP Difference Frequency

					2025 Jan-Jul					
Zone	< (\$50)	(\$50) to (\$10)	(\$10) to \$0	\$0	\$0 to \$10	\$10 to \$20	\$20 to \$50	\$50 to \$100	\$100 to \$200	>= \$200
PJM-RTO	0.0%	0.0%	0.9%	43.7%	43.0%	7.7%	3.8%	0.7%	0.1%	0.0%
ACEC	0.0%	0.1%	5.1%	43.9%	41.1%	5.9%	3.1%	0.6%	0.2%	0.0%
AEP	0.0%	0.0%	1.5%	43.8%	42.1%	7.8%	4.0%	0.7%	0.1%	0.0%
APS	0.0%	0.0%	1.1%	43.8%	42.1%	7.7%	4.4%	0.8%	0.1%	0.0%
ATSI	0.0%	0.0%	1.4%	43.7%	42.5%	7.6%	4.0%	0.7%	0.1%	0.0%
BGE	0.0%	0.2%	2.5%	43.6%	39.1%	8.0%	5.2%	1.1%	0.2%	0.0%
COMED	0.1%	0.1%	6.4%	44.9%	38.3%	6.5%	3.1%	0.6%	0.1%	0.0%
DAY	0.0%	0.1%	1.7%	43.8%	41.8%	7.7%	4.1%	0.7%	0.1%	0.0%
DUKE	0.0%	0.1%	1.8%	43.9%	41.9%	7.6%	3.8%	0.7%	0.1%	0.0%
DOM	0.1%	0.3%	2.4%	43.7%	39.7%	7.6%	4.9%	1.0%	0.2%	0.0%
DPL	0.0%	0.2%	7.2%	43.9%	37.9%	5.6%	3.2%	1.2%	0.8%	0.0%
DUQ	0.0%	0.0%	1.6%	43.7%	42.5%	7.5%	3.8%	0.7%	0.1%	0.0%
EKPC	0.0%	0.0%	1.7%	43.8%	42.1%	7.8%	3.8%	0.7%	0.1%	0.0%
JCPLC	0.0%	0.0%	3.0%	43.9%	43.1%	6.0%	3.1%	0.6%	0.1%	0.0%
MEC	0.0%	0.1%	2.7%	43.7%	42.4%	6.6%	3.6%	0.7%	0.1%	0.0%
OVEC	0.0%	0.2%	2.0%	43.9%	42.0%	7.4%	3.7%	0.7%	0.1%	0.0%
PECO	0.0%	0.1%	6.7%	43.8%	39.8%	5.8%	3.0%	0.6%	0.1%	0.0%
PE	0.0%	0.1%	1.8%	43.5%	42.1%	7.6%	4.1%	0.7%	0.1%	0.0%
PEPCO	0.0%	0.1%	2.5%	43.8%	39.5%	7.9%	5.0%	1.0%	0.2%	0.0%
PPL	0.0%	0.0%	2.8%	43.7%	43.4%	6.1%	3.2%	0.6%	0.1%	0.0%
PSEG	0.0%	0.0%	2.8%	43.8%	43.3%	6.1%	3.2%	0.7%	0.1%	0.0%
REC	0.0%	0.1%	2.7%	43.6%	42.7%	6.6%	3.5%	0.7%	0.1%	0.0%

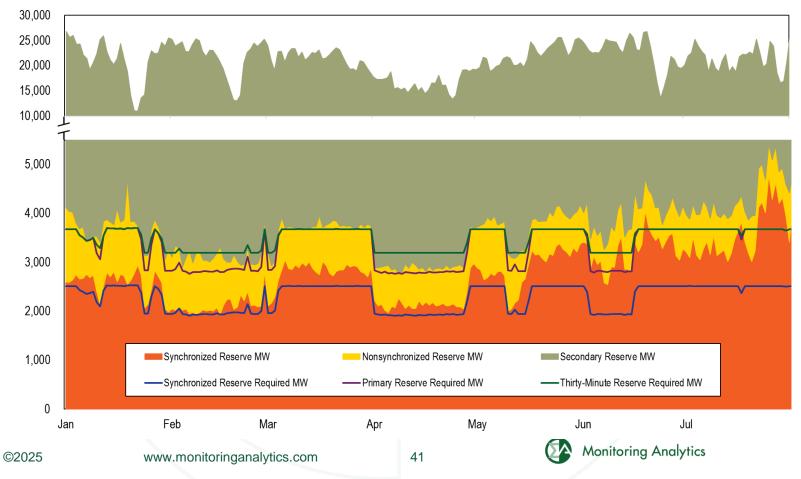
Hourly Average Load and PLMP – DLMP Delta



RESERVES



Real-Time Average Cleared Reserves and Requirements



Day-Ahead & Real-Time RTO Average Reserve MW

		Synchroi	Average Average Synchronized Nonsynchronized Reserve MW Reserve MW		onized	Average Total Primary Reserve MW		Average Secondary Reserve MW		Average Total Thirty-Minute Reserve MW	
Year	Month		RT	DA	RT	DA	RT	DA	RT	DA	RT
2025	Jan	2,637	2,582	1,313	1,130	3,950	3,712	13,079	17,602	17,028	21,313
2025	Feb	2,180	2,111	1,220	1,013	3,400	3,124	13,024	18,628	16,424	21,752
2025	Mar	2,824	2,802	932	881	3,756	3,683	11,763	17,934	15,519	21,617
2025	Apr	2,171	2,183	809	776	2,981	2,959	8,536	13,507	11,517	16,466
2025	May	2,636	2,894	1,021	864	3,657	3,758	11,589	18,348	15,246	22,107
2025	Jun	2,686	3,223	953	734	3,639	3,957	12,801	18,589	16,440	22,546
2025	Jul	3,020	3,581	823	747	3,843	4,327	11,687	16,947	15,529	21,275

Day-Ahead & Real-Time MAD Average Reserve MW

		Average		Average		Average Total		Average		Average Total	
		Synchronized		Nonsynchronized		Primary		Secondary		Thirty-Minute	
		Reserve MW		Reserve MW		Reserve MW		Reserve MW		Reserve MW	
Year	Month	DA	RT	DA	RT	DA	RT	DA	RT	DA	RT
2025	Jan	2,004	1,985	985	925	2,989	2,909	NA	NA	NA	NA
2025	Feb	1,968	1,971	890	839	2,858	2,810	NA	NA	NA	NA
2025	Mar	2,034	1,966	657	667	2,690	2,633	NA	NA	NA	NA
2025	Apr	1,838	1,783	524	599	2,362	2,382	NA	NA	NA	NA
2025	May	1,819	1,833	592	619	2,411	2,451	NA	NA	NA	NA
2025	Jun	2,036	2,040	575	613	2,611	2,653	NA	NA	NA	NA
2025	Jul	2,068	2,038	525	621	2,593	2,659	NA	NA	NA	NA

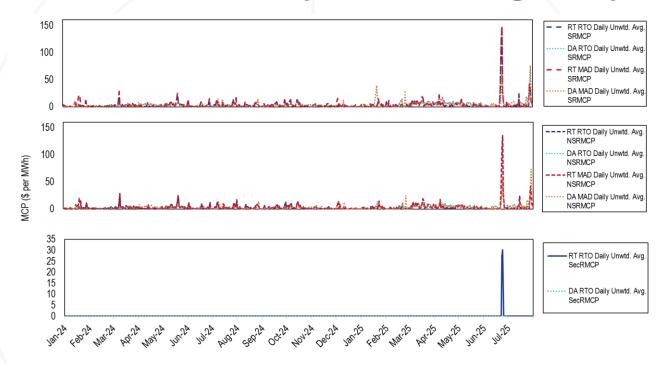
Total Reserve Settlements by Month

	Total	Day-Ahead Credits		Total Ba	lancing MCP Cr	edits	Total LOC Credits		
Month	SR	NSR	SecR	SR	NSR	SecR	SR	NSR	SecR
Jan	\$9,766,427	\$1,310,758	\$0	(\$93,903)	(\$807,014)	\$0	\$1,086,575	\$185,652	\$244,917
Feb	\$5,437,781	\$698,931	\$0	(\$126,526)	(\$300,892)	\$0	\$779,549	\$96,940	\$142,489
Mar	\$15,181,061	\$2,079,574	\$0	(\$1,464,818)	(\$470,698)	\$0	\$2,047,513	\$289,300	\$132,092
Apr	\$13,256,012	\$1,984,502	\$0	(\$345,197)	(\$236,456)	\$0	\$1,269,081	\$91,514	\$137,951
May	\$10,685,430	\$1,340,915	\$0	(\$13,056)	(\$142,473)	\$0	\$786,719	\$64,502	\$468,635
Jun	\$15,012,782	\$2,457,199	\$0	(\$4,322,960)	(\$2,281,783)	(\$955,512)	\$4,654,496	\$102,701	\$2,262,656
Jul	\$22,294,834	\$3,388,187	\$0	(\$332,533)	(\$901,438)	\$0	\$2,515,465	\$81,165	\$1,743,783
	Total	Shortfall Charges			Total Credits				

	Total Sho	ortfall Charges		Total Credits				
Month	SR	NSR	SecR	SR	NSR	SecR		
Jan	\$0	NA	\$0	\$10,759,099	\$689,396	\$244,917		
Feb	\$118,146	NA	\$0	\$5,972,658	\$494,978	\$142,489		
Mar	\$0	NA	\$0	\$15,763,757	\$1,898,176	\$132,092		
Apr	\$0	NA	\$0	\$14,179,896	\$1,839,560	\$137,951		
May	\$0	NA	\$0	\$11,459,093	\$1,262,944	\$468,635		
Jun	\$0	NA	\$0	\$15,344,319	\$278,116	\$1,307,144		
Jul	\$76,684	NA	\$0	\$24,401,081	\$2,567,915	\$1,743,783		

- Only February and July had spin events that lasted at least 10 minutes, so only February and July had synchronized reserve shortfall charges.
- Total credits were higher in June due to dozens of intervals of shortage pricing.
- Greater sum of day-ahead credits in July correspond with higher prices during hot weather alerts and maximum emergency generation alerts.

Reserve Prices: January 2024 through July 2025



- Many intervals of shortage pricing seen in June 2025 heatwave
- Higher day-ahead prices on July 24, July 25, July 28, and July 29 correspond with maximum emergency generation alerts and hot
 weather alerts.

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