## **Market Monitor Report**

MC April 23, 2025 **IMM** 



# **CURRENT ISSUES**



#### **Selected Current Issues**

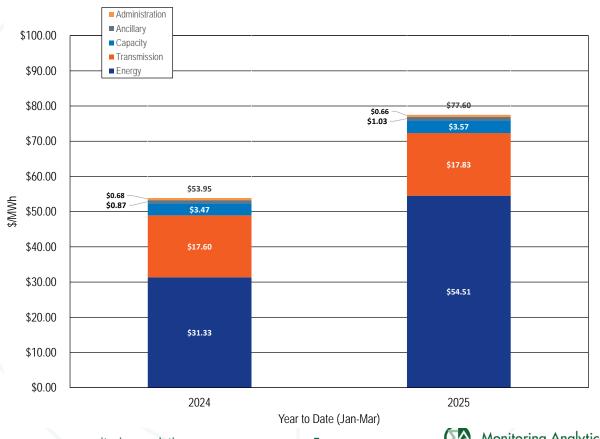
- Necessary Study Agreements
- ELCC sensitivities
- Feedback/suggestions?



# YEAR TO DATE UPDATE



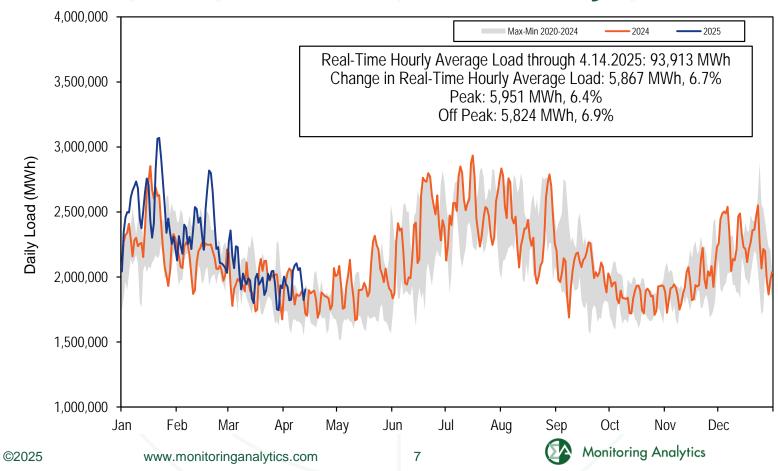
#### **Total Cost of Wholesale Power**



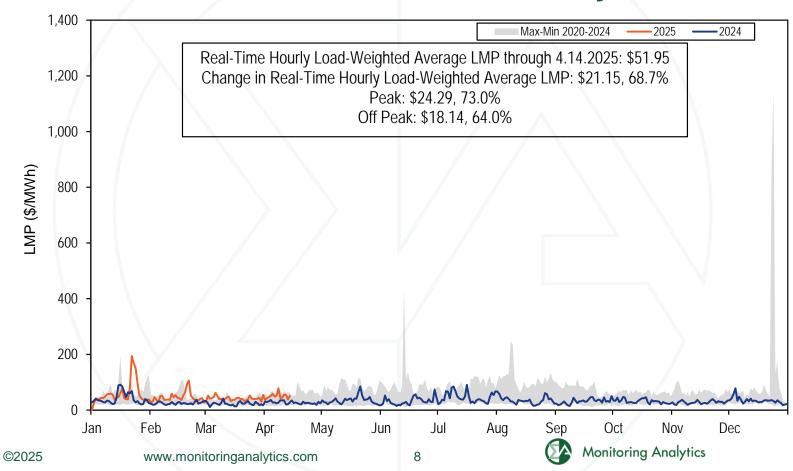
#### **Total Cost of Wholesale Power**

	2024 (Jan-Mar)	2024 (Jan-Mar)	2024 (Jan-Mar)	2025 (Jan-Mar)	2025 (Jan-Mar)	2025 (Jan-Mar)	
Category	\$/MWh	(\$ Millions)	Percent of Total	\$/MWh	(\$ Millions)	Percent of Total	
Energy	\$31.33	\$2,280	58.1%	\$54.51	\$4,301	70.2%	74.09
Day Ahead Energy	\$32.11	\$2,337	59.5%	\$53.00	\$4,182	68.3%	65.09
Balancing Energy	\$0.44	\$32	0.8%	\$1.09	\$86	1.4%	147.09
ARR Credits	(\$1.29)	(\$94)	(2.4%)	(\$1.31)	(\$103)	(1.7%)	1.69
Self Scheduled FTR Credits	(\$0.37)	(\$27)	(0.7%)	(\$0.91)	(\$72)	(1.2%)	147.39
Balancing Congestion	\$0.40	\$29	0.7%	\$0.97	\$76	1.2%	143.39
Emergency Energy	\$0.00	\$0	0.0%	\$0.00	\$0	0.0%	0.09
Inadvertent Energy	\$0.00	\$0	0.0%	(\$0.01)	(\$1)	(0.0%)	(476.2%
Load Response - Energy	\$0.01	\$1	0.0%	\$0.03	\$3	0.0%	118.29
Emergency Load Response	\$0.00	\$0	0.0%	\$0.00	\$0	0.0%	0.09
Energy Uplift (Operating Reserves)	\$0.39	\$28	0.7%	\$2.23	\$176	2.9%	480.29
Marginal Loss Surplus Allocation	(\$0.41)	(\$30)	(0.8%)	(\$0.76)	(\$60)	(1.0%)	82.29
Market to Market Payments	\$0.04	\$3	0.1%	\$0.17	\$13	0.2%	312.29
Capacity	\$3.47	\$253	6.4%	\$3.57	\$282	4.6%	2.89
Capacity (Capacity Market and FRR)	\$3.37	\$245	6.2%	\$3.44	\$271	4.4%	2.29
Capacity Part V (RMR)	\$0.10	\$8	0.2%	\$0.13	\$10	0.2%	23.09
Load Response - Capacity	\$0.00	\$0	0.0%	\$0.00	\$0	0.0%	0.09
Transmission	\$17.60	\$1,281	32.6%	\$17.83	\$1,407	23.0%	1.39
Transmission Service Charges	\$14.91	\$1,085	27.6%	\$15.10	\$1,192	19.5%	1.39
Transmission Enhancement Cost Recovery	\$2.60	\$189	4.8%	\$2.64	\$208	3.4%	1.59
Transmission Owner (Schedule 1A)	\$0.09	\$7	0.2%	\$0.09	\$7	0.1%	0.29
Transmission Seams Elimination Cost Assignment (SECA)	\$0.00	\$0	0.0%	\$0.00	\$0	0.0%	0.09
Transmission Facility Charges	\$0.00	\$0	0.0%	\$0.00	\$0	0.0%	0.09
Ancillary	\$0.87	\$63	1.6%	\$1.03	\$81	1.3%	18.29
Reactive	\$0.49	\$36	0.9%	\$0.45	\$36	0.6%	(8.2%
Regulation	\$0.21	\$15	0.4%	\$0.32	\$26	0.4%	56.09
Black Start	\$0.09	\$6	0.2%	\$0.08	\$6	0.1%	(9.7%
Synchronized Reserves	\$0.08	\$6	0.1%	\$0.16	\$12	0.2%	102.99
Secondary Reserves	\$0.00	\$0	0.0%	\$0.00	\$0	0.0%	30.19
Non-Synchronized Reserves	\$0.01	\$0	0.0%	\$0.02	\$1	0.0%	196.79
Day Ahead Scheduling Reserve (DASR)	\$0.00	\$0	0.0%	\$0.00	\$0	0.0%	0.09
Administration	\$0.68	\$49	1.3%	\$0.66	\$52	0.9%	(2.0%
PJM Administrative Fees	\$0.62	\$45	1.2%	\$0.61	\$48	0.8%	(1.5%
NERC/RFC	\$0.04	\$3	0.1%	\$0.04	\$3	0.1%	1.29
RTO Startup and Expansion	\$0.00	\$0	0.0%	\$0.00	\$0	0.0%	0.09
Other	\$0.01	\$1	0.0%	\$0.00	\$0	0.0%	(49.1%
Total Price	\$53.95	\$3,926	100.0%	\$77.60	\$6,123	100.0%	43.89
Total Day Ahead Load	71,816			77,617			8.19
Total Balancing Load	(965)			(1,292)			33.99
Total Real Time Load	72,780			78,909			8.49
Total Cost (\$ Billions)	\$3.93			\$6.12			56.09

#### 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 (	Output	Solar Percent of	Wind Maxin	Wind Percent of		
	Maximum		Percent	All Generation	Maximum		Percent	All Generation
Year	Hourly MWh	Change	Change	For The Year	Hourly MWh	Change	Change	For The Year
2020	1,879			0.4%	9,095			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	11,154	2,622	30.7%	2.1%	9,929	161	1.7%	5.1%

## Real-Time Load-Weighted Average LMP

		202	4		2025					
				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%						
May	\$28.99	\$42.74	\$13.75	47.4%						
Jun	\$26.66	\$40.04	\$13.38	50.2%						
Jul	\$32.20	\$60.78	\$28.58	88.7%						
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%						

# **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

		Day-Ah	ead Load-\	<b>Neighted</b>	Real-Time Load-Weighted Average						
					Percent				Percent		
Year	Month	DLMP	PLMP	Difference	Difference	DLMP	PLMP	Difference	Difference		
2024	Jan	\$48.45	\$48.65	\$0.20	0.4%	\$40.82	\$42.78	\$1.95	4.8%		
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	\$2.85	14.0%		
2024	Apr	\$26.73	\$26.75	\$0.02	0.1%	\$23.29	\$27.17	\$3.87	16.6%		
2024	May	\$32.92	\$32.90	(\$0.02)	(0.1%)	\$31.70	\$36.16	\$4.46	14.1%		
2024	Jun	\$32.59	\$32.62	\$0.03	0.1%	\$31.95	\$33.35	\$1.40	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	\$1.92	5.6%		
2024	Sep	\$30.63	\$30.77	\$0.14	0.4%	\$29.32	\$31.81	\$2.48	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	\$2.55	9.9%		
2024	Dec	\$36.98	\$37.05	\$0.06	0.2%	\$33.62	\$34.98	\$1.36	4.0%		
2024	Jan-Mar	\$36.95	\$37.08	\$0.12	0.3%	\$32.71	\$34.53	\$1.82	5.6%		
2024		\$33.72	\$33.79	\$0.07	0.2%	\$31.31	\$33.74	\$2.43	7.7%		
2025	Jan	\$67.53	\$67.74	\$0.21	0.3%	\$59.93	\$62.87	\$2.94	4.9%		
2025	Feb	\$48.85	\$49.02	\$0.16	0.3%	\$46.27	\$48.90	\$2.62	5.7%		
2025	Mar	\$40.76	\$40.74	(\$0.03)	(0.1%)	\$37.82	\$42.11	\$4.30	11.4%		
2025	Jan-Mar	\$59.01	\$59.20	\$0.19	0.3%	\$53.71	\$56.51	\$2.80	5.2%		
2025	ww	w.monitoring	analytics.c	om	17	Monitoring Analytics					

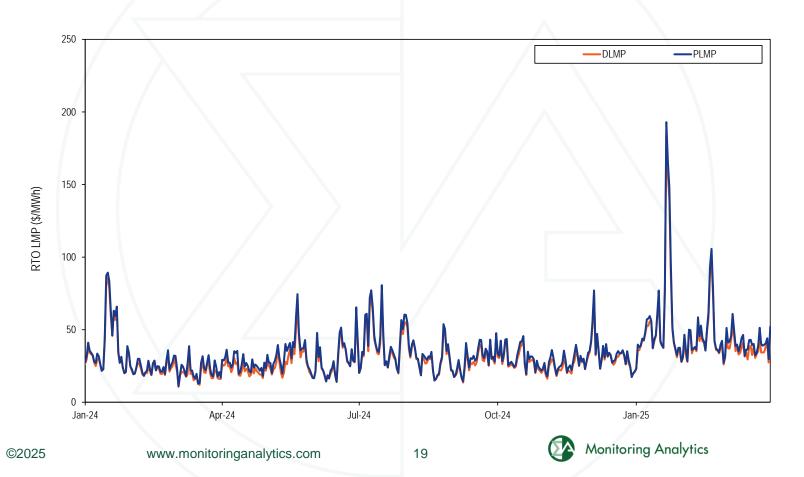
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#### **Real Time Fast Start Impact**

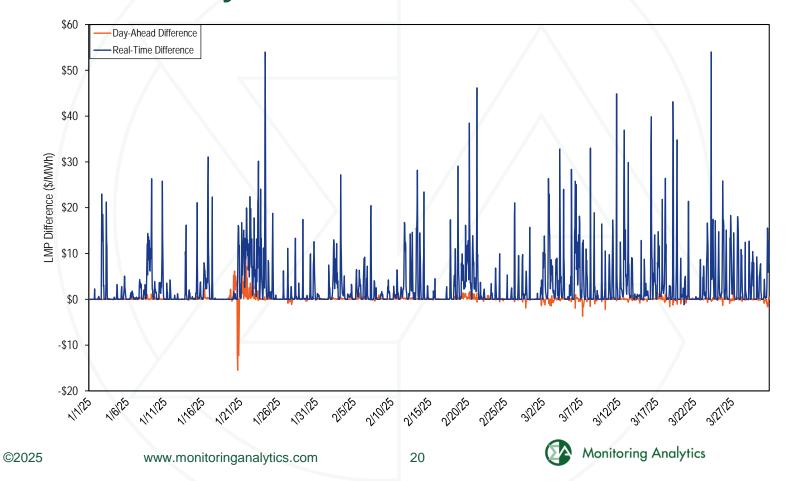
	2022	2023	2024	2025
Month	(In Millions)	(In Millions)	(In Millions)	(In Millions)
Jan	196.33	72.89	142.06	232.11
Feb	52.11	33.74	103.17	173.03
Mar	106.74	53.11	172.59	266.16
Apr	195.22	121.28	217.50	
May	247.03	143.80	272.73	
Jun	429.42	98.31	98.74	
Jul	643.44	217.56	238.39	
Aug	602.88	112.21	142.81	
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	

The impact is calculated by the difference between DLMP and PLMP, multiplied by the real-time load for the hour.

#### Daily Average Real-Time DLMP and PLMP



#### **Hourly Difference: PLMP – DLMP**



## Fast Start Units as a Percent of Marginal Units

			Disp	atch Run		Pricing Run						
Year	Month	СТ	Diesel	Wind	Solar S	All Fast Start Units	СТ	Diesel	Wind	Solar S	All Fast tart 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-Mar	0.6%	0.3%	0.4%	0.0%	1.3%	3.3%	0.7%	0.5%	0.0%	4.4%	
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	Jan-Mar	0.9%	1.8%	0.2%	0.1%	2.9%	3.9%	2.6%	0.2%	0.1%	6.7%	
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### **Fast Start Impacts: Zone Average Differences**

		2025 Jan-Mar										
		Day-A	head			Real-	Time					
	Average	Average		Percent	Average	Average		Percent				
Zone	DLMP	PLMP	Difference	Difference	DLMP	PLMP	Difference	Difference				
ACEC	\$31.86	\$31.94	\$0.07	0.2%	\$29.40	\$31.22	\$1.81	6.2%				
AEP	\$34.68	\$34.74	\$0.06	0.2%	\$32.24	\$34.70	\$2.46	7.6%				
APS	\$36.14	\$36.21	\$0.07	0.2%	\$33.45	\$36.01	\$2.56	7.7%				
ATSI	\$35.11	\$35.10	(\$0.01)	(0.0%)	\$32.02	\$34.41	\$2.39	7.5%				
BGE	\$43.81	\$43.90	\$0.09	0.2%	\$40.21	\$43.28	\$3.07	7.6%				
COMED	\$27.37	\$27.46	\$0.09	0.3%	\$24.48	\$26.48	\$1.99	8.1%				
DAY	\$35.89	\$35.96	\$0.07	0.2%	\$32.86	\$35.41	\$2.55	7.8%				
DUKE	\$34.38	\$34.45	\$0.07	0.2%	\$31.38	\$33.80	\$2.42	7.7%				
DOM	\$41.05	\$41.11	\$0.07	0.2%	\$38.23	\$41.03	\$2.80	7.3%				
DPL	\$35.40	\$35.51	\$0.11	0.3%	\$31.91	\$34.53	\$2.62	8.2%				
DUQ	\$34.22	\$34.26	\$0.04	0.1%	\$31.81	\$34.16	\$2.35	7.4%				
EKPC	\$33.93	\$34.00	\$0.07	0.2%	\$31.57	\$33.99	\$2.42	7.7%				
JCPLC	\$32.08	\$32.16	\$0.08	0.2%	\$29.74	\$31.61	\$1.87	6.3%				
MEC	\$33.27	\$33.34	\$0.08	0.2%	\$30.07	\$32.15	\$2.08	6.9%				
OVEC	\$32.98	\$33.04	\$0.06	0.2%	\$30.01	\$32.32	\$2.31	7.7%				
PECO	\$31.38	\$31.46	\$0.07	0.2%	\$28.99	\$30.74	\$1.75	6.1%				
PE	\$36.71	\$36.75	\$0.04	0.1%	\$33.62	\$35.99	\$2.38	7.1%				
PEPCO	\$42.25	\$42.32	\$0.08	0.2%	\$38.78	\$41.70	\$2.92	7.5%				
PPL	\$30.91	\$30.99	\$0.08	0.3%	\$28.28	\$30.19	\$1.91	6.8%				
PSEG	\$32.32	\$32.40	\$0.08	0.3%	\$30.24	\$32.17	\$1.92	6.4%				
REC	\$34.96	\$35.04	\$0.08	0.2%	\$32.54	\$34.60	\$2.06	6.3%				

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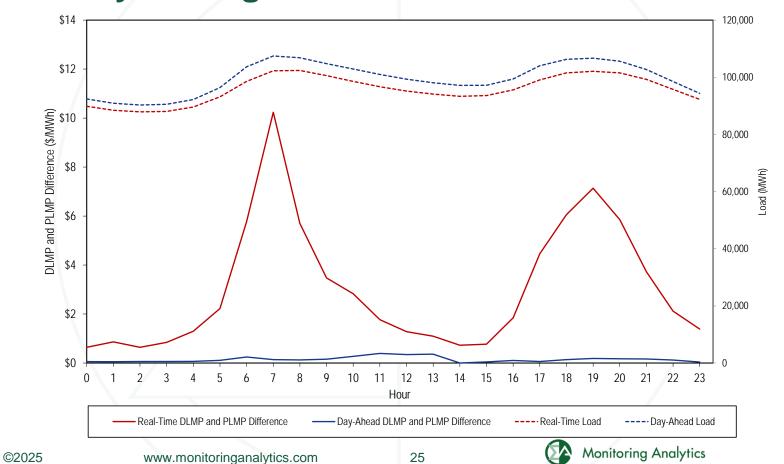
### **Fast Start Impacts: Hub Average Differences**

2025 Jan-Mar									
	Day-A	head			Real-	Time			
Average	Average		Percent	Average	Average		Percent		
DLMP	PLMP	Difference	Difference	DLMP	PLMP	Difference	Difference		
\$32.95	\$32.98	\$0.04	0.1%	\$30.09	\$32.43	\$2.34	7.8%		
\$34.09	\$34.12	\$0.04	0.1%	\$31.17	\$33.56	\$2.39	7.7%		
\$34.60	\$34.60	(\$0.00)	(0.0%)	\$31.27	\$33.61	\$2.33	7.5%		
\$26.72	\$26.82	\$0.10	0.4%	\$23.60	\$25.63	\$2.03	8.6%		
\$27.63	\$27.67	\$0.04	0.1%	\$24.68	\$26.69	\$2.00	8.1%		
\$38.32	\$38.36	\$0.04	0.1%	\$35.89	\$38.59	\$2.70	7.5%		
\$35.33	\$35.40	\$0.07	0.2%	\$31.72	\$34.32	\$2.60	8.2%		
\$27.27	\$27.38	\$0.11	0.4%	\$24.50	\$26.49	\$1.99	8.1%		
\$32.16	\$32.21	\$0.05	0.2%	\$29.90	\$31.80	\$1.89	6.3%		
\$34.06	\$34.10	\$0.04	0.1%	\$31.14	\$33.53	\$2.39	7.7%		
\$35.88	\$35.89	\$0.01	0.0%	\$33.17	\$35.67	\$2.50	7.5%		
\$37.75	\$37.79	\$0.04	0.1%	\$34.50	\$37.08	\$2.58	7.5%		
	\$32.95 \$34.09 \$34.60 \$26.72 \$27.63 \$38.32 \$35.33 \$27.27 \$32.16 \$34.06 \$35.88	Average DLMP PLMP  \$32.95 \$32.98  \$34.09 \$34.12  \$34.60 \$34.60  \$26.72 \$26.82  \$27.63 \$27.67  \$38.32 \$38.36  \$35.33 \$35.40  \$27.27 \$27.38  \$32.16 \$32.21  \$34.06 \$34.10  \$35.88 \$35.89	DLMP         PLMP         Difference           \$32.95         \$32.98         \$0.04           \$34.09         \$34.12         \$0.04           \$34.60         \$34.60         (\$0.00)           \$26.72         \$26.82         \$0.10           \$27.63         \$27.67         \$0.04           \$38.32         \$38.36         \$0.04           \$35.33         \$35.40         \$0.07           \$27.27         \$27.38         \$0.11           \$32.16         \$32.21         \$0.05           \$34.06         \$34.10         \$0.04           \$35.88         \$35.89         \$0.01	Average DLMP         Average PLMP         Difference Difference         Difference           \$32.95         \$32.98         \$0.04         0.1%           \$34.09         \$34.12         \$0.04         0.1%           \$34.60         \$34.60         (\$0.00)         (0.0%)           \$26.72         \$26.82         \$0.10         0.4%           \$27.63         \$27.67         \$0.04         0.1%           \$38.32         \$38.36         \$0.04         0.1%           \$35.33         \$35.40         \$0.07         0.2%           \$27.27         \$27.38         \$0.11         0.4%           \$32.16         \$32.21         \$0.05         0.2%           \$34.06         \$34.10         \$0.04         0.1%           \$35.88         \$35.89         \$0.01         0.0%	Average DLMP         Average PLMP         Difference Difference DLMP           \$32.95         \$32.98         \$0.04         0.1%         \$30.09           \$34.09         \$34.12         \$0.04         0.1%         \$31.17           \$34.60         \$34.60         (\$0.00)         (0.0%)         \$31.27           \$26.72         \$26.82         \$0.10         0.4%         \$23.60           \$27.63         \$27.67         \$0.04         0.1%         \$24.68           \$38.32         \$38.36         \$0.04         0.1%         \$35.89           \$35.33         \$35.40         \$0.07         0.2%         \$31.72           \$27.27         \$27.38         \$0.11         0.4%         \$24.50           \$32.16         \$32.21         \$0.05         0.2%         \$29.90           \$34.06         \$34.10         \$0.04         0.1%         \$31.14           \$35.88         \$35.89         \$0.01         0.0%         \$33.17	Average         Average         Percent         Average         Average           DLMP         PLMP         Difference         DIfference         DLMP         PLMP           \$32.95         \$32.98         \$0.04         0.1%         \$30.09         \$32.43           \$34.09         \$34.12         \$0.04         0.1%         \$31.17         \$33.56           \$34.60         \$34.60         (\$0.00)         (0.0%)         \$31.27         \$33.61           \$26.72         \$26.82         \$0.10         0.4%         \$23.60         \$25.63           \$27.63         \$27.67         \$0.04         0.1%         \$24.68         \$26.69           \$38.32         \$38.36         \$0.04         0.1%         \$35.89         \$38.59           \$35.33         \$35.40         \$0.07         0.2%         \$31.72         \$34.32           \$27.27         \$27.38         \$0.11         0.4%         \$24.50         \$26.49           \$32.16         \$32.21         \$0.05         0.2%         \$29.90         \$31.80           \$34.06         \$34.10         \$0.04         0.1%         \$31.14         \$33.53           \$35.88         \$35.89         \$0.01         0.0%         \$33.17	Average DLMP         PLMP PLMP Difference         Difference DLMP         DLMP PLMP Difference         DIfference DLMP DIfference         DLMP PLMP Difference         DLMP DIFFERENCE		

## **Zonal Real-Time PLMP-DLMP Difference Frequency**

					2025 Jan-Mar					
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%	44.2%	45.6%	5.7%	3.1%	0.5%	0.0%	0.0%
ACEC	0.0%	0.1%	4.6%	44.4%	43.2%	4.7%	2.5%	0.5%	0.0%	0.0%
AEP	0.0%	0.0%	2.0%	44.3%	44.4%	5.5%	3.2%	0.6%	0.0%	0.0%
APS	0.0%	0.0%	1.4%	44.2%	44.7%	5.5%	3.6%	0.6%	0.0%	0.0%
ATSI	0.0%	0.0%	2.0%	44.2%	44.9%	5.3%	3.0%	0.6%	0.0%	0.0%
BGE	0.0%	0.2%	2.7%	44.2%	42.5%	5.6%	3.8%	0.9%	0.2%	0.0%
COMED	0.0%	0.0%	10.0%	46.1%	37.1%	4.1%	2.3%	0.4%	0.0%	0.0%
DAY	0.0%	0.2%	2.6%	44.4%	44.0%	5.2%	3.1%	0.6%	0.0%	0.0%
DUKE	0.0%	0.2%	2.8%	44.5%	44.0%	5.1%	2.9%	0.5%	0.0%	0.0%
DOM	0.0%	0.1%	2.8%	44.2%	42.7%	5.4%	3.9%	0.9%	0.1%	0.0%
DPL	0.0%	0.2%	6.5%	44.4%	40.0%	4.9%	3.1%	0.7%	0.1%	0.1%
DUQ	0.0%	0.0%	2.6%	44.2%	44.3%	5.4%	2.9%	0.5%	0.0%	0.0%
EKPC	0.0%	0.0%	2.5%	44.3%	44.1%	5.5%	3.0%	0.6%	0.0%	0.0%
JCPLC	0.0%	0.0%	3.1%	44.3%	44.6%	4.8%	2.6%	0.5%	0.0%	0.0%
MEC	0.0%	0.1%	2.2%	44.2%	44.9%	5.1%	2.9%	0.5%	0.0%	0.0%
OVEC	0.0%	0.4%	3.2%	44.4%	43.6%	5.0%	2.8%	0.5%	0.0%	0.0%
PECO	0.0%	0.1%	5.8%	44.3%	42.1%	4.7%	2.4%	0.5%	0.0%	0.0%
PE	0.1%	0.2%	2.3%	44.0%	43.0%	6.0%	3.8%	0.6%	0.0%	0.0%
PEPCO	0.0%	0.1%	2.7%	44.3%	42.5%	5.6%	3.9%	0.8%	0.1%	0.0%
PPL	0.0%	0.0%	2.5%	44.3%	45.2%	5.0%	2.5%	0.5%	0.0%	0.0%
PSEG	0.0%	0.0%	2.7%	44.3%	44.6%	4.9%	2.8%	0.5%	0.1%	0.0%
REC	0.0%	0.1%	3.0%	44.1%	43.6%	5.4%	3.1%	0.6%	0.1%	0.0%

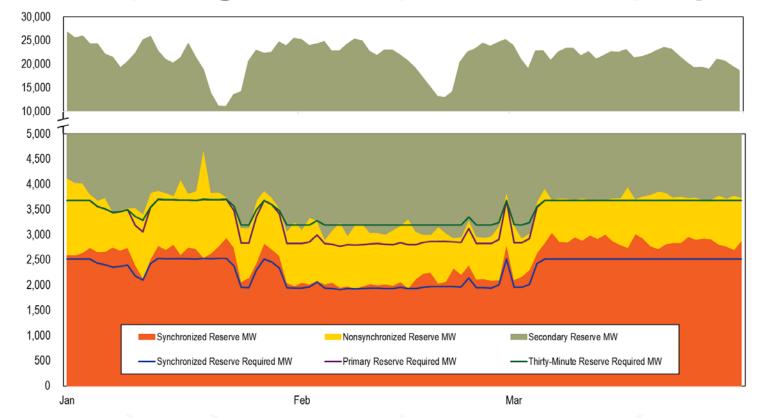
#### Hourly Average Load and DLMP – PLMP Delta



# **RESERVES**



### Real-Time Average Cleared Reserves and Requirements



## Day-Ahead & Real-Time RTO Reserve MW

		Synchronized		Nonsynchronized		Total Primary		Secon	dary	Total Thirty-Minut		
		Reserve MW		Reserve MW		Reserve MW		Reserve	e MW	Reserve MW		
Year	Month	DA	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	

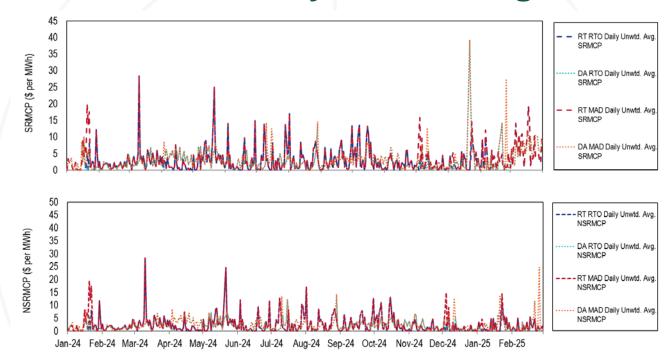
## Day-Ahead & Real-Time MAD Reserve MW

		Synchronized		Nonsynchro	onized	Total Primary		Secondary		Total Thirty-N	Minute
		Reserve	MW	Reserve MW		Reserve MW		Reserve M	1W	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

## **Reserve Settlements by Month**

Product	Year	Month	Total Day-Ahead Credits	Total Balancing MCP Credits	Total LOC Credits	Total Shortfall Charges	Total Credits
	2025	Jan	\$9,766,362	(\$93,903)	\$1,087,573	\$0	\$10,760,032
Synchronized Reserve	2025	Feb	\$5,437,781	(\$126,526)	\$779,763	\$118,146	\$5,972,872
	2025	Mar	\$15,181,061	(\$1,464,818)	\$2,046,856	\$0	\$15,763,099
	2025	Jan	\$1,310,758	(\$792,148)	\$185,918	NA	\$704,528
Nonsynchronized Reserve	2025	Feb	\$698,931	(\$296,390)	\$97,106	NA	\$499,648
	2025	Mar	\$2,079,574	(\$446,804)	\$289,671	NA	\$1,922,440
	2025	Jan	\$0	\$0	\$255,127	\$0	\$255,127
Secondary Reserve	2025	Feb	\$0	\$0	\$142,547	\$0	\$142,547
	2025	Mar	\$0	\$0	\$132,092	\$0	\$132,092

#### Reserve Prices: January 2024 through March 2025



- Higher prices in January 2025 during winter storms, cold weather alerts, and conservative operations.
- Higher prices in February 2025 due to shortage in DA MAD market.
- Higher prices in March 2025 due to PR shortage pricing and decrease in available NSR, clearing more expensive SR.

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