

Market Monitor Report

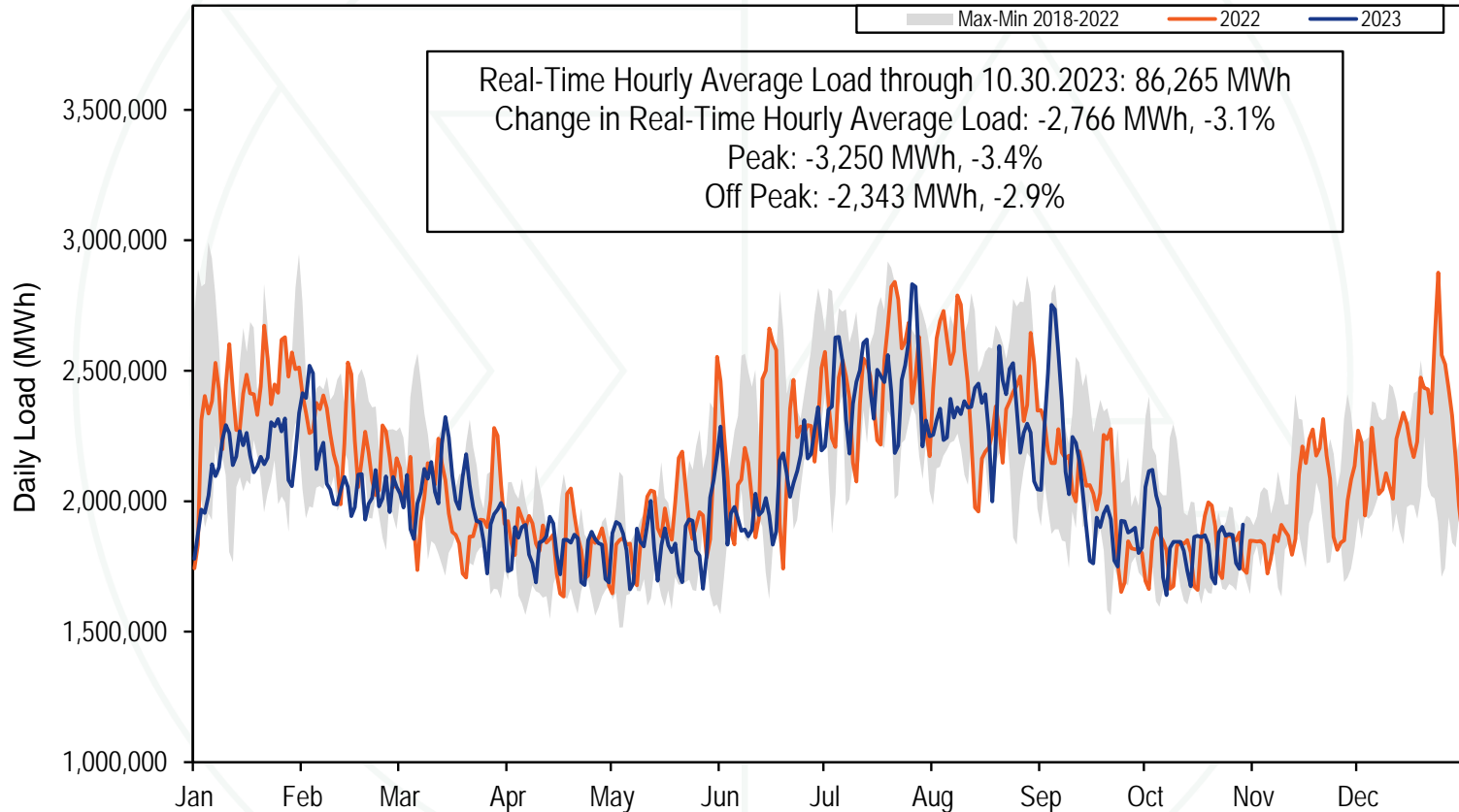
MC Webinar
11/13/2023

IMM

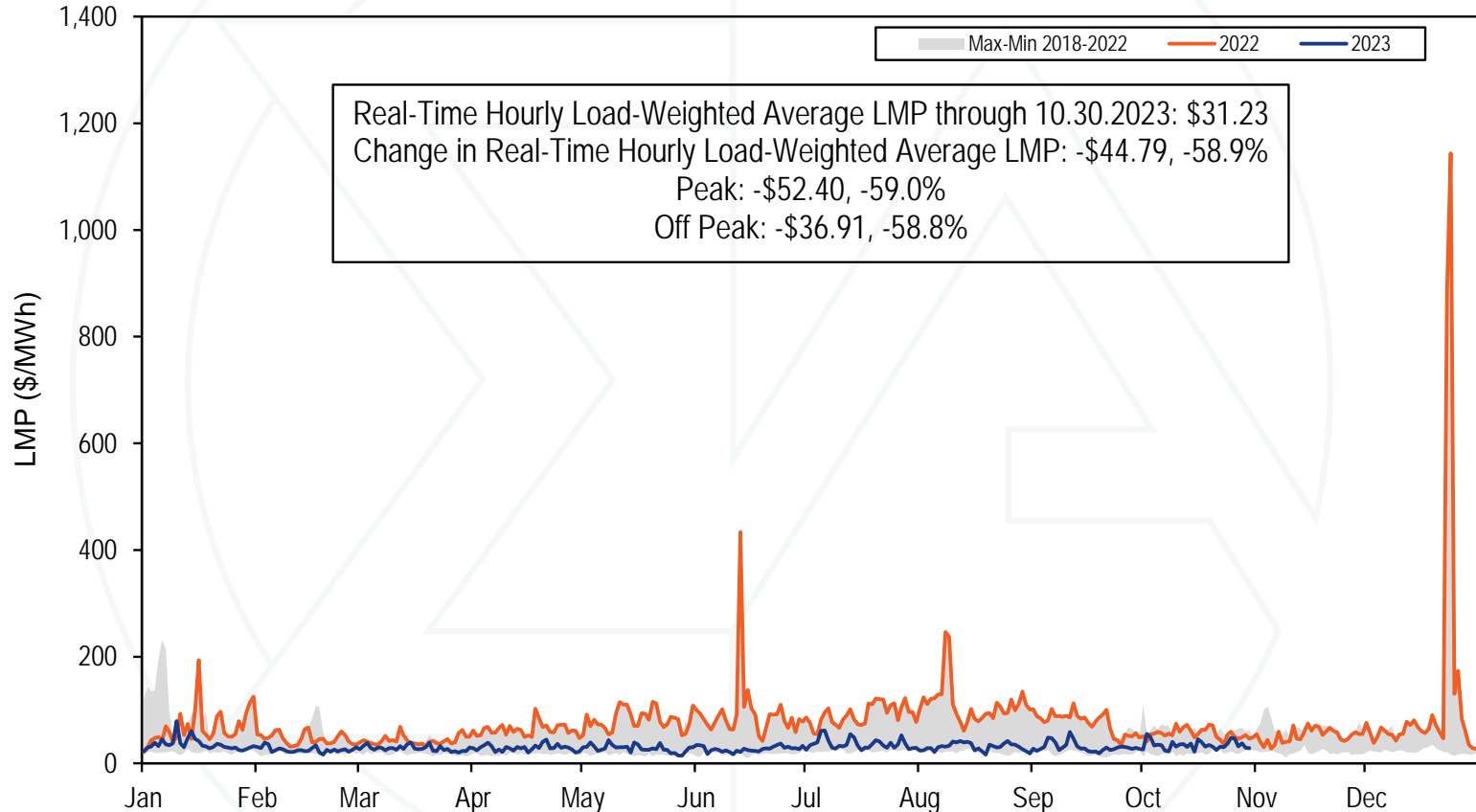


Monitoring Analytics

2023 YTD PJM Real-Time Daily Load



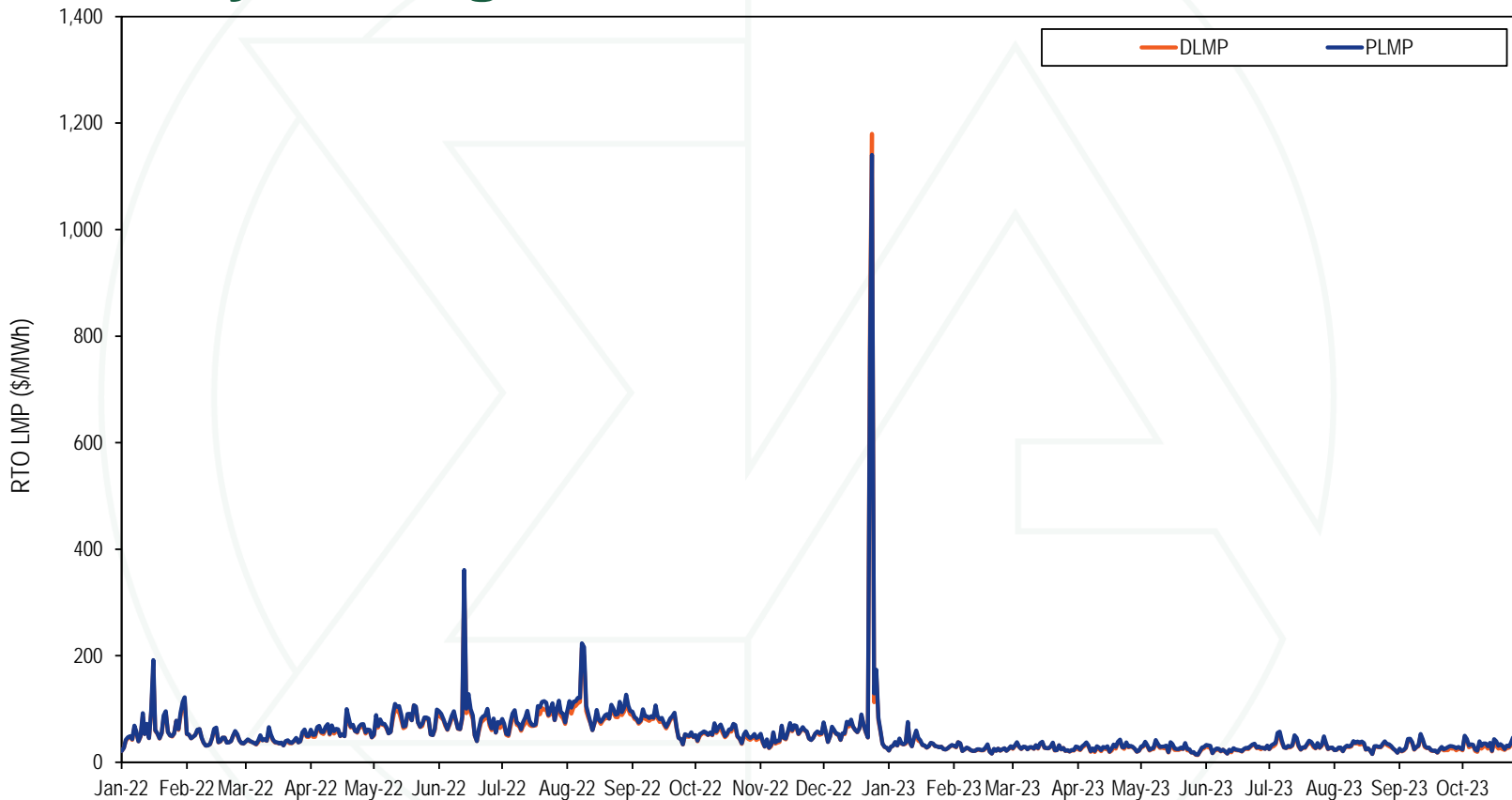
2023 YTD PJM Real-Time Daily LMP



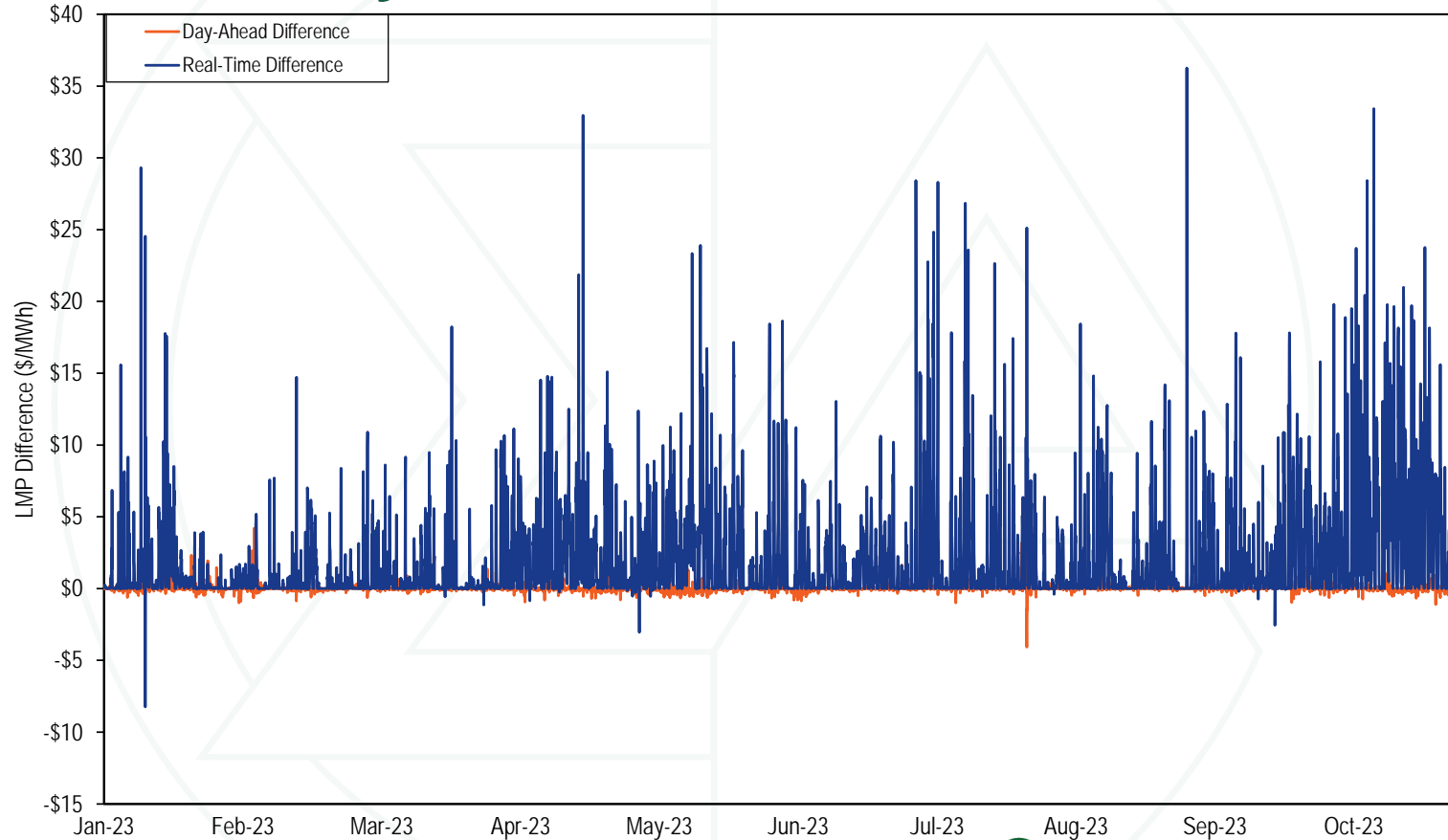
Monthly Average Load-Weighted DLMP and PLMP

Year	Month	Day-Ahead Load-Weighted Average				Real-Time Load-Weighted Average			
		DLMP	PLMP	Difference	Percent Difference	DLMP	PLMP	Difference	Percent Difference
2022	Jan	\$64.57	\$64.80	\$0.22	0.3%	\$66.43	\$69.06	\$2.64	4.0%
2022	Feb	\$49.96	\$50.35	\$0.39	0.8%	\$45.93	\$46.76	\$0.83	1.8%
2022	Mar	\$45.25	\$45.50	\$0.25	0.6%	\$41.83	\$43.56	\$1.73	4.1%
2022	Apr	\$64.10	\$64.18	\$0.08	0.1%	\$60.38	\$63.91	\$3.52	5.8%
2022	May	\$83.17	\$83.24	\$0.06	0.1%	\$79.04	\$83.16	\$4.12	5.2%
2022	Jun	\$90.24	\$90.54	\$0.29	0.3%	\$91.44	\$97.89	\$6.46	7.1%
2022	Jul	\$96.07	\$96.38	\$0.32	0.3%	\$84.03	\$92.48	\$8.45	10.1%
2022	Aug	\$106.18	\$106.07	(\$0.10)	(0.1%)	\$105.68	\$113.74	\$8.06	7.6%
2022	Sep	\$82.86	\$82.80	(\$0.06)	(0.1%)	\$74.08	\$78.29	\$4.22	5.7%
2022	Oct	\$58.30	\$58.37	\$0.07	0.1%	\$52.27	\$55.90	\$3.63	6.9%
2022	Nov	\$56.29	\$55.24	(\$1.05)	(1.9%)	\$50.86	\$52.93	\$2.07	4.1%
2022	Dec	\$93.02	\$93.39	\$0.37	0.4%	\$143.65	\$142.22	(\$1.42)	(1.0%)
2022	Jan - Dec	\$75.35	\$75.44	\$0.08	0.1%	\$76.34	\$80.14	\$3.80	5.0%
2023	Jan	\$36.53	\$36.58	\$0.05	0.1%	\$34.66	\$35.75	\$1.09	3.1%
2023	Feb	\$31.16	\$31.22	\$0.06	0.2%	\$25.47	\$26.04	\$0.57	2.2%
2023	Mar	\$28.39	\$28.41	\$0.02	0.1%	\$27.58	\$28.42	\$0.85	3.1%
2023	Apr	\$29.81	\$29.81	(\$0.00)	(0.0%)	\$27.09	\$29.32	\$2.22	8.2%
2023	May	\$28.86	\$28.80	(\$0.05)	(0.2%)	\$25.91	\$28.44	\$2.53	9.7%
2023	Jun	\$27.82	\$27.82	(\$0.00)	(0.0%)	\$25.69	\$27.29	\$1.60	6.2%
2023	Jul	\$40.46	\$40.56	\$0.10	0.3%	\$34.34	\$37.21	\$2.87	8.4%
2023	Aug	\$30.49	\$30.54	\$0.05	0.2%	\$29.77	\$31.33	\$1.55	5.2%
2023	Sep	\$30.82	\$30.91	\$0.09	0.3%	\$29.33	\$31.55	\$2.22	7.6%
2023	Oct	\$35.03	\$35.05	\$0.02	0.1%	\$30.66	\$34.92	\$4.26	13.9%
2023	Jan - Oct	\$32.14	\$32.17	\$0.04	0.1%	\$29.27	\$31.23	\$1.96	6.7%

Daily Average Real-Time DLMP and PLMP



Hourly Difference: PLMP – DLMP



Fast Start Units as a Percent of Marginal Units

Year	Month	Dispatch Run				Pricing Run			
		CT	Diesel	Wind	All Fast Start Units	CT	Diesel	Wind	All Fast Start Units
2022	Jan	1.3%	0.3%	0.2%	1.8%	4.9%	0.9%	0.2%	6.2%
2022	Feb	0.6%	0.2%	0.3%	1.1%	3.2%	0.5%	0.3%	4.0%
2022	Mar	0.5%	0.2%	0.4%	1.1%	3.4%	0.5%	0.4%	4.4%
2022	Apr	0.8%	0.1%	0.1%	1.2%	4.4%	0.3%	0.1%	5.0%
2022	May	1.4%	0.7%	0.1%	2.4%	6.6%	1.2%	0.1%	8.1%
2022	Jun	2.3%	0.3%	0.1%	2.6%	9.3%	0.8%	0.1%	10.2%
2022	Jul	2.7%	0.6%	0.1%	3.3%	16.3%	1.4%	0.0%	17.7%
2022	Aug	2.0%	0.4%	0.0%	2.4%	12.0%	1.3%	0.0%	13.3%
2022	Sep	0.8%	0.3%	0.1%	1.2%	5.6%	1.0%	0.1%	6.7%
2022	Oct	2.2%	0.2%	0.3%	2.6%	6.6%	0.9%	0.2%	7.7%
2022	Nov	1.3%	0.2%	0.2%	1.7%	5.1%	0.9%	0.2%	6.1%
2022	Dec	1.3%	0.7%	0.2%	2.2%	6.3%	1.5%	0.2%	8.0%
2022	Jan - Dec	1.4%	0.3%	0.2%	2.0%	7.0%	0.9%	0.1%	8.1%
2023	Jan	1.6%	0.5%	0.1%	2.1%	6.2%	2.8%	0.0%	9.0%
2023	Feb	0.9%	0.2%	0.0%	1.1%	3.1%	0.6%	0.0%	3.7%
2023	Mar	0.8%	0.4%	0.1%	1.2%	3.0%	0.7%	0.1%	3.8%
2023	Apr	2.5%	0.4%	0.2%	3.2%	8.1%	0.8%	0.2%	9.1%
2023	May	1.0%	0.3%	0.1%	1.3%	4.8%	0.7%	0.1%	5.6%
2023	Jun	0.5%	0.2%	0.0%	0.7%	2.5%	0.5%	0.0%	3.0%
2023	Jul	1.4%	0.9%	0.0%	2.4%	8.6%	1.6%	0.0%	10.3%
2023	Aug	0.9%	1.5%	0.0%	2.4%	5.1%	2.3%	0.0%	7.4%
2023	Sep	0.4%	0.8%	0.1%	1.3%	5.1%	1.4%	0.1%	6.6%
2023	Oct	1.4%	0.3%	0.0%	1.7%	7.2%	0.7%	0.0%	7.9%
2023	Jan - Oct	1.2%	0.3%	0.1%	1.6%	4.6%	1.0%	0.1%	5.7%



Fast Start Impacts: Zonal Average Differences

Zone	2023 Jan - Oct							
	Day-Ahead				Real-Time			
	Average DLMP	Average PLMP	Difference	Percent Difference	Average DLMP	Average PLMP	Difference	Percent Difference
ACEC	\$45.13	\$45.23	\$0.10	0.2%	\$44.40	\$46.37	\$1.98	4.5%
AEP	\$52.41	\$52.51	\$0.10	0.2%	\$50.43	\$53.07	\$2.64	5.2%
APS	\$53.35	\$53.49	\$0.13	0.2%	\$51.16	\$53.92	\$2.76	5.4%
ATSI	\$51.96	\$52.07	\$0.11	0.2%	\$49.58	\$52.18	\$2.60	5.3%
BGE	\$61.97	\$62.08	\$0.11	0.2%	\$59.49	\$62.80	\$3.31	5.6%
COMED	\$45.23	\$45.31	\$0.08	0.2%	\$42.83	\$45.20	\$2.37	5.5%
DAY	\$54.42	\$54.52	\$0.10	0.2%	\$52.15	\$54.88	\$2.74	5.2%
DUKE	\$53.45	\$53.55	\$0.10	0.2%	\$51.09	\$53.77	\$2.69	5.3%
DOM	\$62.19	\$61.89	(\$0.29)	(0.5%)	\$62.13	\$65.04	\$2.91	4.7%
DPL	\$48.71	\$48.81	\$0.10	0.2%	\$48.17	\$51.03	\$2.86	5.9%
DUQ	\$51.15	\$51.26	\$0.11	0.2%	\$49.00	\$51.58	\$2.59	5.3%
EKPC	\$52.62	\$52.71	\$0.09	0.2%	\$51.08	\$53.73	\$2.65	5.2%
JCPLC	\$46.12	\$46.22	\$0.10	0.2%	\$45.47	\$47.57	\$2.10	4.6%
MEC	\$52.25	\$52.35	\$0.09	0.2%	\$50.45	\$52.94	\$2.49	4.9%
OVEC	\$51.39	\$51.49	\$0.10	0.2%	\$49.36	\$51.94	\$2.58	5.2%
PECO	\$44.05	\$44.15	\$0.09	0.2%	\$43.36	\$45.24	\$1.88	4.3%
PE	\$50.92	\$51.02	\$0.10	0.2%	\$48.74	\$51.19	\$2.46	5.0%
PEPCO	\$59.55	\$59.66	\$0.11	0.2%	\$57.22	\$60.34	\$3.11	5.4%
PPL	\$48.19	\$48.28	\$0.10	0.2%	\$46.80	\$49.05	\$2.24	4.8%
PSEG	\$46.65	\$46.75	\$0.10	0.2%	\$46.07	\$48.19	\$2.12	4.6%
REC	\$48.70	\$48.80	\$0.10	0.2%	\$47.78	\$50.03	\$2.24	4.7%

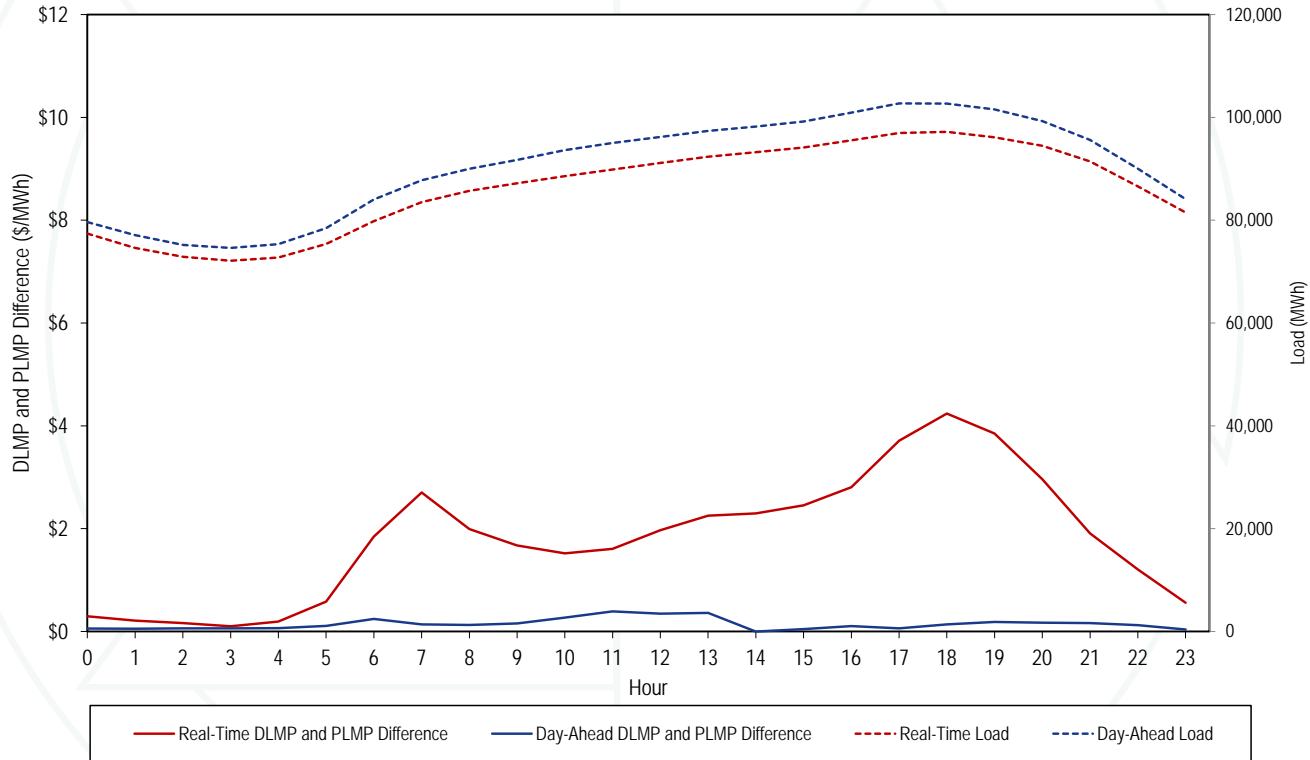
Fast Start Impacts: Hub Average Differences

Hub	2023 Jan - Oct							
	Day-Ahead				Real-Time			
	Average DLMP	Average PLMP	Difference	Percent Difference	Average DLMP	Average PLMP	Difference	Percent Difference
AEP GEN HUB	\$51.68	\$51.78	\$0.10	0.2%	\$49.58	\$52.04	\$2.46	5.0%
AEP-DAYTON HUB	\$52.72	\$52.82	\$0.10	0.2%	\$50.58	\$53.10	\$2.53	5.0%
ATSI GEN HUB	\$51.67	\$51.78	\$0.12	0.2%	\$49.26	\$51.72	\$2.46	5.0%
CHICAGO GEN HUB	\$45.20	\$45.29	\$0.09	0.2%	\$42.83	\$45.11	\$2.28	5.3%
CHICAGO HUB	\$46.12	\$46.21	\$0.09	0.2%	\$43.76	\$46.07	\$2.31	5.3%
DOMINION HUB	\$57.99	\$58.02	\$0.03	0.0%	\$56.55	\$59.29	\$2.74	4.8%
EASTERN HUB	\$50.24	\$50.34	\$0.11	0.2%	\$49.31	\$52.13	\$2.82	5.7%
N ILLINOIS HUB	\$45.79	\$45.88	\$0.09	0.2%	\$43.57	\$45.86	\$2.29	5.3%
NEW JERSEY HUB	\$47.23	\$47.34	\$0.11	0.2%	\$46.72	\$48.79	\$2.07	4.4%
OHIO HUB	\$52.64	\$52.74	\$0.10	0.2%	\$50.47	\$52.99	\$2.52	5.0%
WEST INT HUB	\$54.02	\$54.08	\$0.07	0.1%	\$51.91	\$54.48	\$2.57	4.9%
WESTERN HUB	\$55.38	\$55.50	\$0.11	0.2%	\$52.88	\$55.54	\$2.67	5.0%

Zonal Real-Time PLMP-DLMP Difference Frequency

Zone	2023 Jan - Oct										
	< (\$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%	0.6%	47.4%	48.5%	2.8%	0.6%	0.0%	0.0%	0.0%	
ACEC	0.0%	0.0%	7.5%	48.0%	41.9%	2.0%	0.5%	0.0%	0.0%	0.0%	
AEP	0.0%	0.0%	1.0%	47.9%	47.4%	3.0%	0.6%	0.0%	0.0%	0.0%	
APS	0.0%	0.0%	0.8%	47.7%	47.7%	3.0%	0.7%	0.1%	0.0%	0.0%	
ATSI	0.0%	0.0%	1.0%	47.6%	47.9%	2.9%	0.6%	0.0%	0.0%	0.0%	
BGE	0.0%	0.0%	3.8%	47.3%	43.4%	3.9%	1.3%	0.1%	0.0%	0.0%	
COMED	0.0%	0.1%	2.6%	48.2%	45.8%	2.7%	0.6%	0.0%	0.0%	0.0%	
DAY	0.0%	0.0%	1.0%	47.8%	47.2%	3.3%	0.7%	0.1%	0.0%	0.0%	
DUKE	0.0%	0.0%	1.1%	47.8%	47.2%	3.2%	0.7%	0.1%	0.0%	0.0%	
DOM	0.0%	0.1%	2.3%	47.6%	45.4%	3.4%	1.0%	0.1%	0.0%	0.0%	
DPL	0.0%	0.0%	11.7%	47.9%	37.1%	1.9%	0.5%	0.2%	0.6%	0.0%	
DUQ	0.0%	0.0%	0.8%	47.6%	48.1%	2.9%	0.6%	0.0%	0.0%	0.0%	
EKPC	0.0%	0.0%	1.1%	47.8%	47.3%	3.1%	0.6%	0.0%	0.0%	0.0%	
JCPLC	0.0%	0.0%	3.4%	47.9%	46.1%	2.0%	0.5%	0.0%	0.0%	0.0%	
MEC	0.0%	0.0%	3.9%	47.5%	45.5%	2.5%	0.6%	0.1%	0.0%	0.0%	
OVEC	0.0%	0.0%	1.2%	47.9%	47.3%	3.0%	0.6%	0.0%	0.0%	0.0%	
PECO	0.0%	0.0%	10.3%	48.0%	39.2%	2.0%	0.5%	0.0%	0.0%	0.0%	
PE	0.0%	0.0%	1.4%	47.3%	48.1%	2.6%	0.6%	0.1%	0.0%	0.0%	
PEPCO	0.0%	0.0%	2.8%	47.6%	44.8%	3.6%	1.1%	0.1%	0.0%	0.0%	
PPL	0.0%	0.0%	4.2%	47.5%	45.7%	2.1%	0.5%	0.0%	0.0%	0.0%	
PSEG	0.0%	0.0%	3.3%	47.9%	46.3%	2.0%	0.4%	0.0%	0.0%	0.0%	
REC	0.0%	0.0%	2.8%	47.6%	46.9%	2.1%	0.5%	0.0%	0.0%	0.0%	

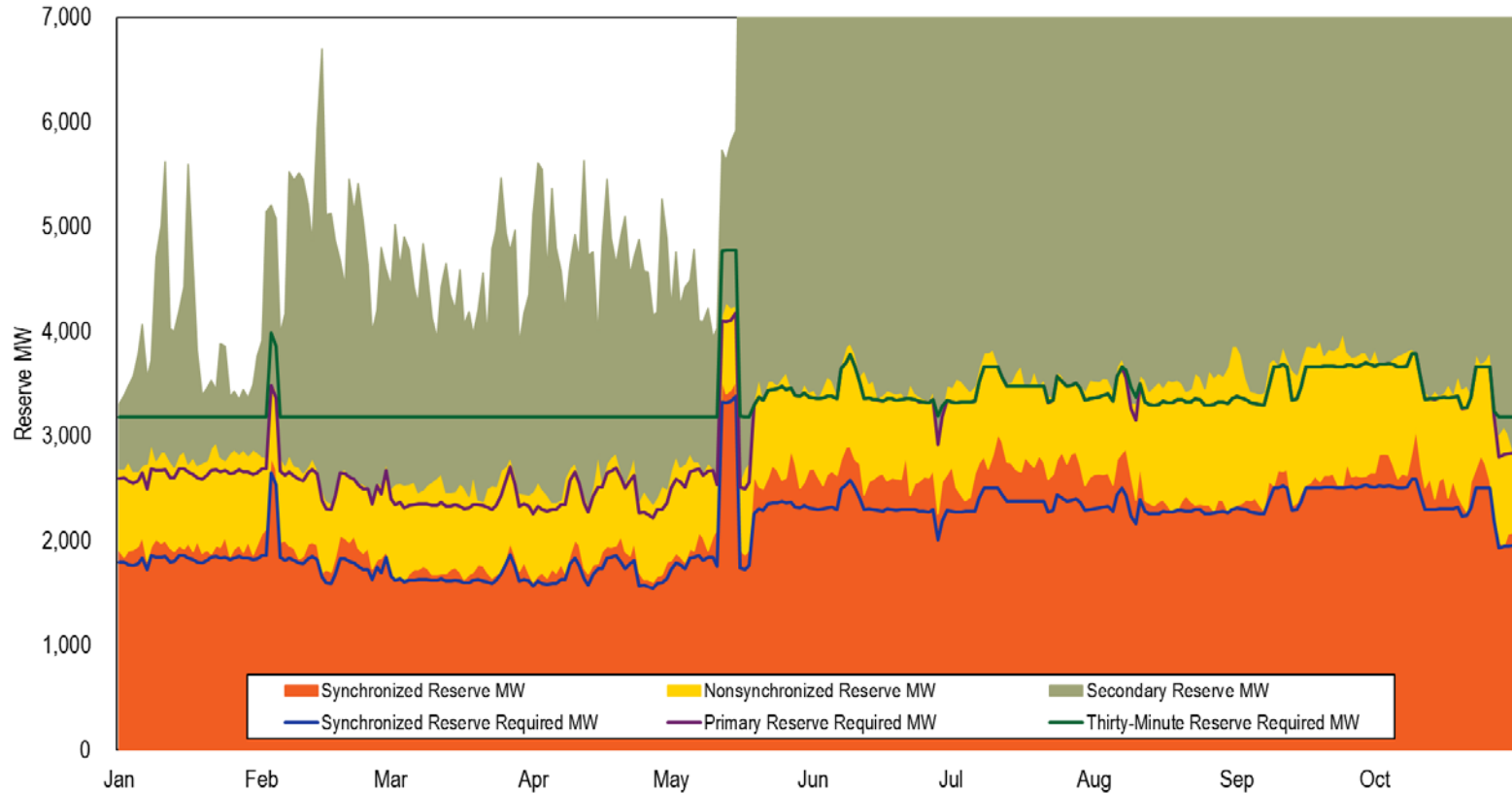
Hourly Average Load and LMP Difference: Jan through Oct 2023



Real-Time Load-Weighted Average LMP

	2022				2023			
	Off Peak	On Peak	Difference	Percent Difference	Off Peak	On Peak	Difference	Percent Difference
Jan	\$74.99	\$62.54	(\$12.46)	(16.6%)	\$33.20	\$38.53	\$5.32	16.0%
Feb	\$45.70	\$47.86	\$2.16	4.7%	\$23.45	\$28.67	\$5.22	22.3%
Mar	\$41.58	\$45.41	\$3.83	9.2%	\$26.96	\$29.78	\$2.82	10.5%
Apr	\$55.93	\$71.89	\$15.96	28.5%	\$24.08	\$35.00	\$10.92	45.4%
May	\$66.12	\$100.85	\$34.73	52.5%	\$22.65	\$33.84	\$11.19	49.4%
Jun	\$61.63	\$126.83	\$65.20	105.8%	\$21.64	\$32.16	\$10.52	48.6%
Jul	\$71.83	\$114.14	\$42.31	58.9%	\$26.86	\$48.04	\$21.18	78.9%
Aug	\$85.89	\$136.31	\$50.42	58.7%	\$26.60	\$35.30	\$8.70	32.7%
Sep	\$66.36	\$89.76	\$23.40	35.3%	\$24.76	\$38.65	\$13.88	56.1%
Oct	\$47.61	\$64.50	\$16.90	35.5%	\$26.40	\$43.09	\$16.69	63.2%
Nov	\$45.48	\$60.50	\$15.01	33.0%				
Dec	\$153.54	\$129.51	(\$24.03)	(15.7%)				

Real-Time Reserves and Requirements



Day-Ahead & Real-Time RTO Reserve MW

Year	Month	Synchronized Reserve MW		Nonsynchronized Reserve MW		Total Primary Reserve MW		Secondary Reserve MW		Total Thirty-Minute Reserve MW	
		DA	RT	DA	RT	DA	RT	DA	RT	DA	RT
2023	Jan	1,904	1,935	1,404	861	3,309	2,796	11,941	1,100	15,249	3,895
2023	Feb	1,889	1,975	1,311	718	3,200	2,693	16,793	2,295	19,993	4,988
2023	Mar	1,682	1,722	1,179	812	2,861	2,535	15,073	1,964	17,934	4,498
2023	Apr	1,766	1,788	968	771	2,734	2,559	10,955	2,266	13,689	4,825
2023	May	2,399	2,425	1,094	804	3,493	3,229	12,489	9,635	15,983	12,864
2023	Jun	2,848	2,628	987	848	3,835	3,476	13,484	17,101	17,319	20,578
2023	Jul	2,829	2,710	971	846	3,801	3,556	13,263	15,579	17,064	19,135
2023	Aug	2,875	2,464	1,019	1,079	3,894	3,543	13,357	17,406	17,251	20,949
2023	Sep	2,905	2,531	936	1,204	3,841	3,735	13,689	17,963	17,530	21,697
2023	Oct	2,939	2,544	763	992	3,702	3,536	9,911	13,485	13,613	17,021

Day-Ahead & Real-Time MAD Reserve MW

Year	Month	Synchronized Reserve MW		Nonsynchronized Reserve MW		Total Primary Reserve MW		Secondary Reserve MW		Total Thirty-Minute Reserve MW	
		DA	RT	DA	RT	DA	RT	DA	RT	DA	RT
2023	Jan	1,891	1,933	1,119	792	3,009	2,725	NA	NA	NA	NA
2023	Feb	1,874	1,955	992	673	2,866	2,628	NA	NA	NA	NA
2023	Mar	1,671	1,696	839	678	2,510	2,374	NA	NA	NA	NA
2023	Apr	1,690	1,664	684	615	2,374	2,279	NA	NA	NA	NA
2023	May	1,937	1,940	847	685	2,784	2,625	NA	NA	NA	NA
2023	Jun	2,023	1,973	817	688	2,839	2,661	NA	NA	NA	NA
2023	Jul	2,028	1,958	804	714	2,832	2,673	NA	NA	NA	NA
2023	Aug	2,099	1,966	844	764	2,943	2,729	NA	NA	NA	NA
2023	Sep	2,035	1,925	760	731	2,795	2,657	NA	NA	NA	NA
2023	Oct	2,078	1,975	609	688	2,686	2,663	NA	NA	NA	NA

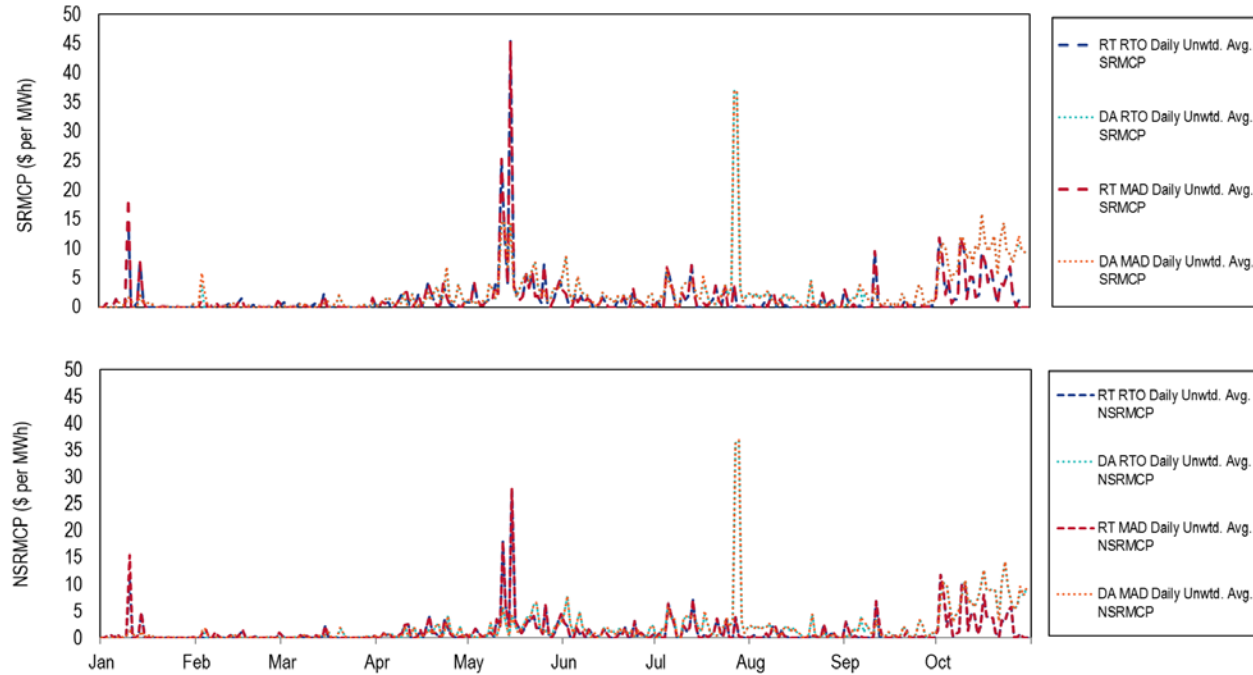
Reserve Settlements by Month

Year	Month	Total Day-Ahead Credits			Total Balancing MCP Credits			Total LOC Credits		
		SR	NSR	SecR	SR	NSR	SecR	SR	NSR	SecR
2023	Jan	\$505,429	\$73,610	\$0	(\$114,061)	(\$155,466)	\$0	\$976,799	\$4,850	\$5,114
2023	Feb	\$735,351	\$72,133	\$0	\$99,577	(\$113,200)	\$0	\$493,619	\$31,094	\$34,129
2023	Mar	\$439,364	\$72,194	\$0	(\$5,106)	(\$37,214)	\$0	\$744,883	\$3,368	\$12,363
2023	Apr	\$2,088,876	\$220,075	\$0	\$55,121	(\$112,776)	\$0	\$701,874	\$59,662	\$15,125
2023	May	\$8,590,787	\$764,690	\$0	(\$1,102,233)	(\$601,863)	\$0	\$1,523,223	\$477,365	\$64,711
2023	Jun	\$4,061,466	\$648,961	\$0	(\$136,555)	(\$134,617)	\$0	\$503,423	\$48,934	\$137,270
2023	Jul	\$10,125,951	\$1,697,877	\$0	(\$209,684)	(\$227,351)	\$0	\$842,992	\$30,765	\$351,998
2023	Aug	\$2,822,099	\$422,257	\$0	(\$101,170)	(\$17,911)	\$0	\$583,173	\$1,642	\$134,975
2023	Sep	\$2,808,344	\$503,832	\$0	(\$352,447)	\$68,227	\$0	\$761,958	\$2,149	\$159,441
2023	Oct	\$21,150,975	\$2,934,103	\$0	(\$806,826)	\$10,171	\$0	\$1,030,298	\$115,662	\$121,264

Year	Month	Total Shortfall Charges			Total Credits		
		SR	NSR	SecR	SR	NSR	SecR
2023	Jan	\$336,246	NA	\$0	\$1,031,922	(\$77,007)	\$5,114
2023	Feb	\$0	NA	\$0	\$1,328,546	(\$9,973)	\$34,129
2023	Mar	\$0	NA	\$0	\$1,179,141	\$38,348	\$12,363
2023	Apr	\$0	NA	\$0	\$2,845,871	\$166,961	\$15,125
2023	May	\$0	NA	\$0	\$9,011,777	\$640,193	\$64,711
2023	Jun	\$0	NA	\$0	\$4,428,335	\$563,277	\$137,270
2023	Jul	\$0	NA	\$0	\$10,759,259	\$1,501,292	\$351,998
2023	Aug	\$0	NA	\$0	\$3,304,101	\$405,988	\$134,975
2023	Sep	\$0	NA	\$0	\$3,217,854	\$574,208	\$159,441
2023	Oct	\$0	NA	\$0	\$21,374,447	\$3,059,935	\$121,264

- For secondary reserve, the shortfall charge is part of the balancing MCP credit. For synchronized reserve, it is separate.
- The only spin events that were 10 minutes or longer happened in January, so only January has SR shortfall charges.

Reserve Prices



- SecRMCP always \$0 per MWh, so far in 2023
- Spikes on Jan. 10th due to shortage pricing
- Spikes on Feb. 3rd & 4th due to conservative operations
- Spikes on May 12th & 15th due to increased requirements

- Spikes of DA & RT MCPs on Jul. 27th & 28th during Hot Weather Alerts on Jul. 26th – Jul. 29th.
- Spikes on Sep. 11th due to shortage pricing.

FTR Market Flow that is Greater than Binding Constraint Limits

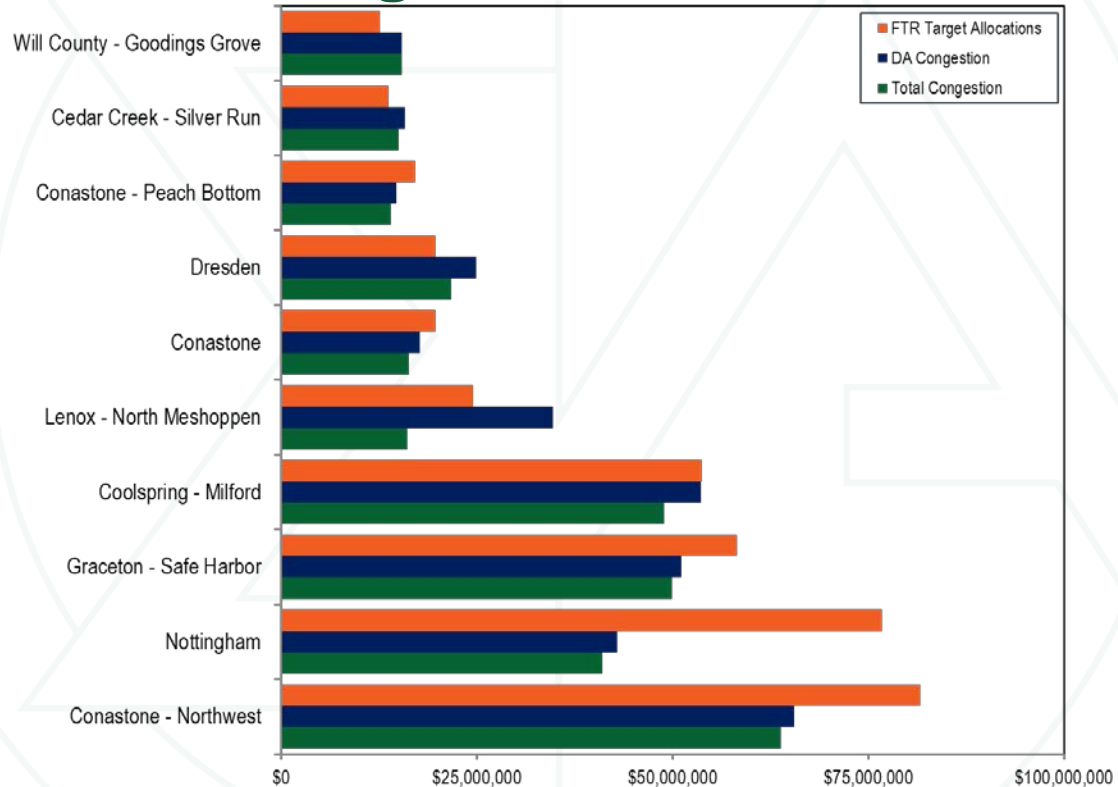
Binding Constraint Hours where FTR Flow > Constraint Limit

Month	Binding Constraint Hours	Constraint Hours where FTR Flow > Constraint Limit	Percent of Constraint Hours where FTR Flow > Constraint Limit	Average Congestion		Balancing Congestion	Average Balancing Congestion Per Constraint Hour	FTR Target Allocations	FTR Target Allocations Per Constraint Hour	Excess FTR Target Allocations	Average Excess FTR Target	
				Total Congestion	Per Constraint Hour						Per Constraint Hour	
Jun-22	4,314	4,284	99.3%	\$196,927,609	\$45,968	(\$4,903,733)	(\$1,144.7)	\$231,463,493	\$54,030	\$34,535,883	\$8,062	
Jul-22	5,930	5,816	98.1%	\$84,858,168	\$14,590	(\$142,448)	(\$24.5)	\$95,432,128	\$16,409	\$10,573,960	\$1,818	
Aug-22	5,043	5,040	99.9%	\$355,601,144	\$70,556	(\$8,388)	(\$1.7)	\$320,732,640	\$63,637	(\$34,868,504)	(\$6,918)	
Sep-22	4,783	4,759	99.5%	\$249,578,104	\$52,443	\$1,250,608	\$263	\$260,889,245	\$54,820	\$11,311,141	\$2,377	
Oct-22	6,697	6,665	99.5%	\$162,352,489	\$24,359	\$1,111,468	\$167	\$208,174,633	\$31,234	\$45,822,145	\$6,875	
Nov-22	7,597	7,481	98.5%	\$211,783,616	\$28,310	(\$2,735,887)	(\$366)	\$242,414,656	\$32,404	\$30,631,039	\$4,095	
Dec-22	8,681	8,441	97.2%	\$363,209,860	\$43,029	\$499,041	\$59	\$321,998,738	\$38,147	(\$41,211,123)	(\$4,882)	
Jan-23	6,272	6,144	98.0%	\$69,160,823	\$11,257	\$64,715	\$11	\$77,593,601	\$12,629	\$8,432,778	\$1,373	
Feb-23	6,223	6,198	99.6%	\$102,060,702	\$16,467	(\$570,846)	(\$92)	\$90,720,141	\$14,637	(\$11,340,560)	(\$1,830)	
Mar-23	6,328	6,296	99.5%	\$56,705,361	\$9,007	(\$272,235)	(\$43)	\$63,293,116	\$10,053	\$6,587,754	\$1,046	
Apr-23	6,816	6,678	98.0%	\$126,974,143	\$19,014	(\$195,969)	(\$29)	\$139,340,007	\$20,866	\$12,365,864	\$1,852	
May-23	6,769	6,761	99.9%	\$96,568,809	\$14,283	(\$355,093)	(\$53)	\$111,967,475	\$16,561	\$15,398,666	\$2,278	
Summary for 2022/2023 Planning Period												
Total	75,453	74,563	98.8%	\$2,075,780,829	\$27,839	(\$6,258,767)	(\$84)	\$2,164,019,872	\$29,023	\$88,239,042	\$1,183	
Jun-23	5,930	5,816	98.1%	\$84,858,168	\$14,590	(\$1,009,644)	(\$174)	\$95,432,128	\$16,409	\$10,573,960	\$1,818	
Jul-23	6,728	6,701	99.6%	\$158,178,031	\$23,605	(\$7,241,328)	(\$1,081)	\$154,850,314	\$23,109	(\$3,327,717)	(\$497)	
Aug-23	5,594	5,587	99.9%	\$130,600,142	\$23,376	(\$3,015,859)	(\$540)	\$136,041,737	\$24,350	\$5,441,595	\$974	
Sep-23	5,842	5,793	99.2%	\$133,267,063	\$23,005	(\$4,822,979)	(\$833)	\$160,805,383	\$27,759	\$27,538,320	\$4,754	
Summary for 2023/2024 Planning Period												
Total	24,094	23,897	99.2%	\$506,903,405	\$21,212	(\$16,089,811)	(\$673)	\$547,129,563	\$22,895	\$40,226,157	\$1,683	

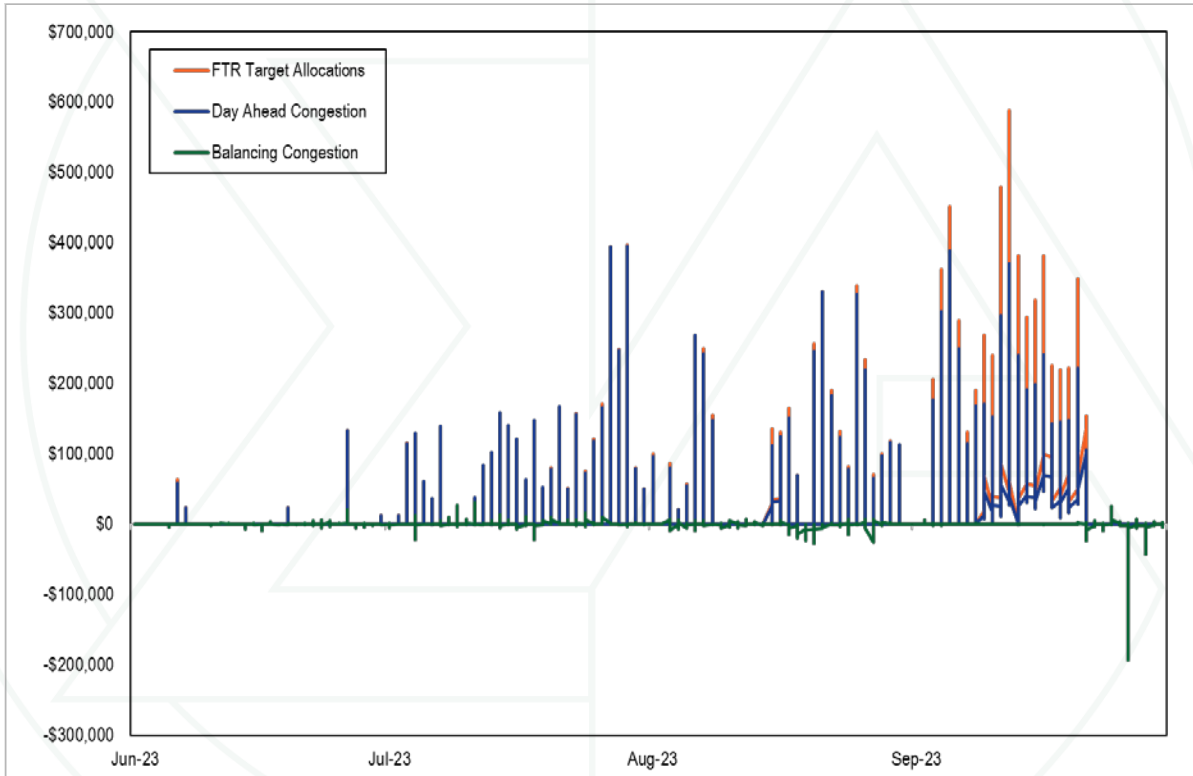
FTR Market Flow that is Less than Binding Constraint Limits

Binding Constraint Hours where FTR Flow < Constraint Limit												
Month	Binding Constraint Hours	Constraint Hours where FTR Flow < Constraint Limit	Percent of Constraint Hours where FTR Flow < Constraint Limit	Total Congestion	Average Congestion Per Hour	Average Balancing Congestion	Average Balancing Congestion Per Hour	FTR Target Allocations	FTR Target Allocations Per Constraint Hour	Excess FTR Target Allocations	Average Excess FTR Target Allocations	
											Per Constraint Hour	Per Constraint Hour
Jun-22	4,314	30	0.7%	\$201,456	\$6,715	\$0	\$0	\$145,889	\$4,863	(\$55,567)	(\$1,852)	
Jul-22	5,930	114	1.9%	\$1,258,252	\$11,037	\$0	\$0	\$621,793	\$5,454	(\$636,458)	(\$5,583)	
Aug-22	5,043	3	0.1%	\$16,816	\$5,605	\$0	\$0	\$3,037	\$1,012	(\$13,780)	(\$4,593)	
Sep-22	4,783	24	0.5%	\$180,019	\$7,501	\$0	\$0	\$92,010	\$3,834	(\$88,010)	(\$3,667)	
Oct-22	6,697	32	0.5%	\$182,033	\$5,689	\$0	\$0	\$88,824	\$2,776	(\$93,209)	(\$2,913)	
Nov-22	7,597	116	1.5%	\$738,963	\$6,370	\$0	\$0	\$69,430	\$599	(\$669,532)	(\$5,772)	
Dec-22	8,681	240	2.8%	\$2,176,543	\$9,069	\$0	\$0	\$306,525	\$1,277	(\$1,870,018)	(\$7,792)	
Jan-23	6,272	128	2.0%	\$177,842	\$1,389	\$0	\$0	\$45,926	\$359	(\$131,916)	(\$1,031)	
Feb-23	6,223	25	0.4%	\$157,691	\$6,308	\$0	\$0	\$87,354	\$3,494	(\$70,337)	(\$2,813)	
Mar-23	6,328	32	0.5%	\$279,514	\$8,735	\$0	\$0	\$95,550	\$2,986	(\$183,964)	(\$5,749)	
Apr-23	6,816	138	2.0%	\$1,726,662	\$12,512	\$0	\$0	\$765,563	\$5,548	(\$961,099)	(\$6,964)	
May-23	6,769	8	0.1%	\$13,764	\$1,720	\$0	\$0	\$1,715	\$214	(\$12,049)	(\$1,506)	
Summary for 2022/2023 Planning Period												
Total	75,453	890	1.2%	\$7,109,554	\$7,988	\$0	\$0	\$2,323,615	\$2,611	(\$4,785,939)	(\$5,377)	
Jun-23	5,930	114	1.9%	\$1,258,252	\$11,037	\$0	\$0	\$621,793	\$5,454	(\$636,458)	(\$5,583)	
Jul-23	6,728	27	0.4%	\$819,708	\$30,360	\$0	\$0	\$341,660	\$12,654	(\$478,048)	(\$17,705)	
Aug-23	5,594	7	0.1%	\$7,900	\$1,129	\$0	\$0	\$2,236	\$319	(\$5,664)	(\$809)	
Sep-23	5,842	49	0.8%	\$176,209	\$3,596	\$0	\$0	\$52,157	\$1,064	(\$124,052)	(\$2,532)	
Summary for 2023/2024 Planning Period												
Total	24,094	197	0.8%	\$2,262,068	\$11,483	\$0	\$0	\$1,017,846	\$5,167	(\$1,244,222)	(\$6,316)	

Top Ten Constraint Sources of Positive FTR Target Allocations



Hourly Target Allocations and Congestion for the Conastone – Northwest Constraint



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