Market Monitor Report

MC Webinar 11/13/2023

IMM



2023 YTD PJM Real-Time Daily Load



2023 YTD PJM Real-Time Daily LMP



Monthly Average Load-Weighted DLMP and PLMP

		Day-Ahead L	oad-Weighte	d Average		l Average			
					Percent				Percent
Year	Month	DLMP	PLMP	Difference	Difference	DLMP	PLMP	Difference	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%
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Daily Average Real-Time DLMP and PLMP



Jan-22 Feb-22 Mar-22 Apr-22 May-22 Jun-22 Jul-22 Aug-22 Sep-22 Oct-22 Nov-22 Dec-22 Jan-23 Feb-23 Mar-23 Apr-23 May-23 Jun-23 Jul-23 Aug-23 Sep-23 Oct-23



Hourly Difference: PLMP – DLMP



Fast Start Units as a Percent of Marginal Units

			Dispatch I	Run	All Fast		Pricing	Run	All Fast
Year	Month	ст	Diesel	Wind	Start Units	ст	Diesel	Wind	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%
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Fast Start Impacts: Zonal Average Differences

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1				2023 Jar	1 - Oct			
		Day-A	head			Real-	Time	
	Average	Average		Percent	Average	Average		Percent
Zone	DLMP	PLMP	Difference	Difference	DLMP	PLMP	Difference	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%
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Fast Start Impacts: Hub Average Differences

				2023 Jan	n - Oct			
		Day-A	head			Real-1	Time	
	Average	Average		Percent	Average	Average		Percent
Hub	DLMP	PLMP	Difference	Difference	DLMP	PLMP	Difference	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

					2023 Jan - Oct					
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%	0.6%	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

		202	2		2023						
				Percent				Percent			
	Off Peak	On Peak	Difference	Difference	Off Peak	On Peak	Difference	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

	Synchronized Reserve MW			Nonsynchronized Reserve MW		Total Pri Reserve		Secono Reserve	•	Total Thirty-Minute Reserve MW	
Year	Month	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

		-	Synchronized Reserve MW		onized MW	Total Prin Reserve		Seconda Reserve M	-	Total Thirty-Minute Reserve MW	
Year	Month	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

_		Total	Day-Ahead Credits		Total Ba	ancing MCP Cre	dits	Tot	al LOC Credits	
Year	Month	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
		Total	Shortfall Charges		-	Total Credits				
Year	Month	SR	NSR	SecR	SR	NSR	SecR			
2023	Jan	\$336,246	NA	\$0	\$1,031,922	(\$77,007)	\$5,114			
2023	Feb	+ •					+=,			
	LED	\$0	NA	\$0	\$1,328,546	(\$9,973)	\$34,129			
2023	Mar	\$0	NA NA	\$0		(\$9,973) \$38,348				
					\$1,328,546		\$34,129			
2023	Mar	\$0	NA	\$0	\$1,328,546 \$1,179,141	\$38,348	\$34,129 \$12,363			
2023 2023	Mar Apr	\$0 \$0	NA NA	\$0 \$0	\$1,328,546 \$1,179,141 \$2,845,871	\$38,348 \$166,961	\$34,129 \$12,363 \$15,125			
2023 2023 2023	Mar Apr May	\$0 \$0 \$0	NA NA NA	\$0 \$0 \$0	\$1,328,546 \$1,179,141 \$2,845,871 \$9,011,777	\$38,348 \$166,961 \$640,193	\$34,129 \$12,363 \$15,125 \$64,711			
2023 2023 2023 2023	Mar Apr May Jun	\$0 \$0 \$0 \$0	NA NA NA NA	\$0 \$0 \$0 \$0	\$1,328,546 \$1,179,141 \$2,845,871 \$9,011,777 \$4,428,335	\$38,348 \$166,961 \$640,193 \$563,277	\$34,129 \$12,363 \$15,125 \$64,711 \$137,270			
2023 2023 2023 2023 2023	Mar Apr May Jun Jul	\$0 \$0 \$0 \$0 \$0	NA NA NA NA	00 00 00 00 00 00 00	\$1,328,546 \$1,179,141 \$2,845,871 \$9,011,777 \$4,428,335 \$10,759,259	\$38,348 \$166,961 \$640,193 \$563,277 \$1,501,292	\$34,129 \$12,363 \$15,125 \$64,711 \$137,270 \$351,998			

- 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.



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FTR Market Flow that is Greater than Binding Constraint Limits

Constraint Hours where ETR Flow > Constraint Limit

					Binding Const	raint Hours wi	here FIR Flow > (Sonstraint Limit			
											Average Excess FTR
	Binding	Constraint Hours where	Percent of Constraint Hours		Average Congestion		Average Balancing		FTR Target	Excess FTR	Target Allocations
	Constrain	FTR Flow >	where FTR Flow	Total	Per Constraint	Balancing	Congestion Per	FTR Target	Allocations Per		Per Constraint
Month	t Hours	Constraint Limit	> Constraint Limit	Congestion	Ноиг	_	Constraint Hour		Constraint Hour	Allocations	Hour
Jun-22	4,314	4,284	99.3%	\$196,927,609	\$45,968	(\$4,903,733)		\$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 20	22/2023 Planni	ing 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 20	23/2024 Planni	ing 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
										1.4	

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FTR Market Flow that is Less than Binding Constraint Limits

						Binding Cor	nstraint Hours when	FTR Flow <	Constraint Limit		
											Average
											Excess FTR
		Constraint	Percent of								Target
	Binding	Hours where	Constraint Hours		Average		Average Balancing		FTR Target	Excess FTR	Allocations
	Constrain		where FTR Flow		Congestion Per		Congestion Per	FTR Target	Allocations Per	Target	Per Constraint
Month	t Hours	Constraint Limit	< Constraint Limit	Congestion	Constraint Hour	Congestion	Constraint Hour	Allocations	Constraint Hour	Allocations	Ноиг
Jun-22	4,314	30	0.7%	\$201, 456	\$6,715	\$O	\$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)
					Sum mary for 20)22/2023 Plan	ning 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)
					Sum mary for 20)23/2024 Plan	ning Period				
Total	24,094	197	0.8%	\$2,262,068	\$11,483	\$0		\$1,017,846	\$5,167	(\$1,244,222)	(\$6,316)
										1.0	

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Top Ten Constraint Sources of Positive FTR Target Allocations



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Hourly Target Allocations and Congestion for the Conastone – Northwest Constraint



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