

## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2023	Open Outcry APR 2022	% CHG	ELEC APR 2023	ELEC APR 2022	% CHG	Open Outcry Y.T.D 2023	Open Outcry Y.T.D 2022	% CHG	ELEC Y.T.D 2023	ELEC Y.T.D 2022	% CHG
<b>Interest Rate Futures</b>												
10-YR Eris LIBOR	0	0	0.0%	0	4,687	-100.00%	0	0	0.0%	4,042	18,466	-78.1%
10-YR Eris SOFR	0	0	0.0%	1,110	0	0.00%	0	0	0.0%	2,518	100	2,418.0%
10-YR MAC LIBOR	0	0	0.0%	2,634	7,330	-64.07%	0	0	0.0%	22,224	88,118	-74.8%
10-YR MAC SOFR	0	-	-	0	-		0	-	-	18	-	-
10-YR NOTE	0	0	0.0%	25,316,246	32,885,477	-23.02%	0	0	0.0%	153,068,964	160,826,883	-4.8%
10Y YIELD	0	0	0.0%	82,326	155,724	-47.13%	0	0	0.0%	334,400	471,849	-29.1%
15-YR Eris LIBOR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
1-MONTH EURODOLLAR	0	0	0.0%	0	33	-100.00%	0	0	0.0%	6	57	-89.5%
1-YR Eris BSBY	0	0	0.0%	0	300	-100.00%	0	0	0.0%	0	300	-100.0%
1-YR Eris SOFR	0	0	0.0%	2,980	21,833	-86.35%	0	0	0.0%	17,308	136,368	-87.3%
20-YR BOND	0	0	0.0%	306	3,933	-92.22%	0	0	0.0%	2,670	13,687	-80.5%
20-YR Eris LIBOR	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
2-YR Eris LIBOR	0	0	0.0%	0	10,314	-100.00%	0	0	0.0%	4,517	43,831	-89.7%
2-YR Eris SOFR	0	0	0.0%	3,430	15,486	-77.85%	0	0	0.0%	13,035	57,553	-77.4%
2-YR NOTE	0	0	0.0%	9,338,371	11,377,703	-17.92%	0	0	0.0%	55,999,902	51,751,546	8.2%
2Y YIELD	0	0	0.0%	4,468	9,252	-51.71%	0	0	0.0%	33,266	31,849	4.4%
30-Year UMBS TBA Futures - 2.5	0	-	-	17	-		0	-	-	302	-	-
30-Year UMBS TBA Futures - 3.0	0	-	-	116	-		0	-	-	777	-	-
30-Year UMBS TBA Futures - 3.5	0	-	-	365	-		0	-	-	925	-	-
30-Year UMBS TBA Futures - 4.0	0	-	-	29	-		0	-	-	545	-	-
30-Year UMBS TBA Futures - 4.5	0	-	-	404	-		0	-	-	1,001	-	-
30-Year UMBS TBA Futures - 5.0	0	-	-	159	-		0	-	-	1,017	-	-
30-Year UMBS TBA Futures - 5.5	0	-	-	85	-		0	-	-	738	-	-
30-Year UMBS TBA Futures - 6.0	0	-	-	0	-		0	-	-	672	-	-
30-YR BOND	0	0	0.0%	4,660,210	6,611,850	-29.52%	0	0	0.0%	30,325,562	32,970,993	-8.0%
30-YR Eris LIBOR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	185	-100.0%
30-YR MAC LIBOR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	304	-100.0%
30Y YIELD	0	0	0.0%	671	12,551	-94.65%	0	0	0.0%	4,639	43,237	-89.3%
3-YR Eris BSBY	0	0	0.0%	0	4	-100.00%	0	0	0.0%	0	4	-100.0%
3-YR Eris LIBOR	0	0	0.0%	0	5,685	-100.00%	0	0	0.0%	3,703	37,189	-90.0%
3-YR Eris SOFR	0	0	0.0%	968	2,391	-59.51%	0	0	0.0%	7,317	14,786	-50.5%
3-YR NOTE	0	0	0.0%	94,016	296,501	-68.29%	0	0	0.0%	469,732	1,378,555	-65.9%
4-YR Eris LIBOR	0	0	0.0%	0	2,894	-100.00%	0	0	0.0%	1,140	20,520	-94.4%

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<b>Interest Rate Futures</b>												
4-YR Eris SOFR	0	0	0.0%	400	390	2.56%	0	0	0.0%	1,927	2,500	-22.9%
5-YR Eris LIBOR	0	0	0.0%	0	12,733	-100.00%	0	0	0.0%	21,264	111,364	-80.9%
5-YR Eris SOFR	0	0	0.0%	7,447	1,516	391.23%	0	0	0.0%	28,029	7,767	260.9%
5-YR MAC LIBOR	0	0	0.0%	0	23,894	-100.00%	0	0	0.0%	39,532	129,659	-69.5%
5-YR MAC SOFR	0	-	-	0	-	-	0	-	-	88	-	-
5-YR NOTE	0	0	0.0%	18,404,122	21,904,649	-15.98%	0	0	0.0%	111,037,236	108,784,710	2.1%
5Y YIELD	0	0	0.0%	0	2,497	-100.00%	0	0	0.0%	865	10,561	-91.8%
7-YR Eris LIBOR	0	0	0.0%	0	2,076	-100.00%	0	0	0.0%	2,242	12,316	-81.8%
7-YR Eris SOFR	0	0	0.0%	210	0	0.00%	0	0	0.0%	1,035	0	0.0%
BSBY 3-MONTH FUTURES	0	0	0.0%	4,206	66,049	-93.63%	0	0	0.0%	24,177	362,704	-93.3%
ESTR Basis Spread Futures	0	-	-	102	-	-	0	-	-	4,668	-	-
ESTR Futures	0	-	-	30,893	-	-	0	-	-	133,237	-	-
EURODOLLARS	10,046	542,998	-98.1%	1,314,487	34,013,679	-96.14%	256,740	3,156,001	-91.9%	27,166,162	198,098,017	-86.3%
FED FUND	0	0	0.0%	7,676,667	5,269,040	45.69%	0	0	0.0%	44,680,480	30,732,182	45.4%
FTIIE	0	0	0.0%	356	60	493.33%	0	0	0.0%	1,103	443	149.0%
SOFR	402,855	23,744	1,596.7%	47,632,804	27,888,536	70.80%	3,625,993	50,700	7,051.9%	281,969,808	101,824,483	176.9%
SONIA	0	0	0.0%	0	12	-100.00%	0	0	0.0%	168	1,046	-83.9%
Ultra 10-Year Note	0	0	0.0%	4,971,323	6,386,046	-22.15%	0	0	0.0%	33,839,975	33,206,696	1.9%
ULTRA T-BOND	0	0	0.0%	2,813,403	3,103,110	-9.34%	0	0	0.0%	19,191,612	17,906,785	7.2%

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<b>Interest Rate Options</b>												
10-YR NOTE	0	0	0.0%	10,405,196	10,624,825	-2.07%	0	0	0.0%	59,064,418	55,361,181	6.7%
2-YR NOTE	0	0	0.0%	356,114	13,045	2,629.89%	0	0	0.0%	1,504,463	91,832	1,538.3%
30-YR BOND	0	0	0.0%	1,713,228	2,612,072	-34.41%	0	0	0.0%	9,735,524	10,016,447	-2.8%
5-YR NOTE	0	0	0.0%	5,849,502	5,305,649	10.25%	0	0	0.0%	25,860,917	21,830,348	18.5%
EURODOLLARS	182,403	6,675,501	-97.3%	459,480	2,062,114	-77.72%	1,770,390	42,837,882	-95.9%	6,589,097	17,306,275	-61.9%
EURO MIDCURVE	31,150	4,119,939	-99.2%	1,782	1,921,876	-99.91%	396,228	27,722,503	-98.6%	201,525	13,977,557	-98.6%
FED FUND	0	0	0.0%	0	0	0.00%	0	0	0.0%	2	42	-95.2%
SOFR	16,724,646	822,626	1,933.1%	6,459,354	94,773	6,715.61%	94,755,473	1,543,466	6,039.1%	37,225,992	230,989	16,015.9%
SOFR MIDCURVE	2,530,250	366,258	590.8%	999,396	65,524	1,425.24%	19,706,905	1,119,541	1,660.3%	7,601,444	272,074	2,693.9%
SOFR MISCURVE	0	-	-	0	-	-	0	-	-	700	-	-
Ultra 10-Year Note	0	0	0.0%	3	110	-97.27%	0	0	0.0%	807	548	47.3%
ULTRA T-BOND	0	0	0.0%	1,547	1,682	-8.03%	0	0	0.0%	4,883	13,674	-64.3%
<b>Equity Index Futures</b>												
BITCOIN	0	0	0.0%	169,558	142,178	19.26%	0	0	0.0%	806,557	659,053	22.4%
DJ US REAL ESTATE SECTOR	0	0	0.0%	21,809	26,544	-17.84%	0	0	0.0%	116,015	136,634	-15.1%
E-mini (\$5) Dow	0	0	0.0%	2,789,883	3,694,386	-24.48%	0	0	0.0%	14,836,743	18,614,518	-20.3%
E-mini FTSE China 50	0	0	0.0%	0	2,286	-100.00%	0	0	0.0%	44	5,670	-99.2%
E-MINI MIDCAP	0	0	0.0%	190,628	275,672	-30.85%	0	0	0.0%	1,108,017	1,402,541	-21.0%
E-MINI NASDAQ 100	0	0	0.0%	11,643,596	12,833,213	-9.27%	0	0	0.0%	54,037,242	58,050,177	-6.9%
E-MINI RUSSELL 1000	0	0	0.0%	964	2,572	-62.52%	0	0	0.0%	7,436	12,959	-42.6%
E-MINI RUSSELL 1000 GROWT	0	0	0.0%	766	2,236	-65.74%	0	0	0.0%	6,961	23,536	-70.4%
E-MINI RUSSELL 1000 VALUE	0	0	0.0%	2,453	2,947	-16.76%	0	0	0.0%	15,322	29,302	-47.7%
E-MINI RUSSELL 2000	0	0	0.0%	3,121,154	4,093,448	-23.75%	0	0	0.0%	17,597,493	20,313,787	-13.4%
E-MINI S&P500	0	0	0.0%	29,015,168	31,985,854	-9.29%	0	0	0.0%	154,247,169	152,272,869	1.3%
E-MINI S&P500 ESG	0	0	0.0%	13,775	8,328	65.41%	0	0	0.0%	76,664	127,591	-39.9%
ETHER	0	-	-	0	-	-	0	-	-	0	-	-
ETHER FUTURES	0	0	0.0%	105,487	83,556	26.25%	0	0	0.0%	470,167	404,271	16.3%
FT-SE 100	0	0	0.0%	30	0	0.00%	0	0	0.0%	175	892	-80.4%
FTSE Emerging	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
IBOVESPA INDEX	0	0	0.0%	18	152	-88.16%	0	0	0.0%	132	286	-53.8%

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<b>Equity Index Futures</b>												
MICRO BITCOIN	0	0	0.0%	242,303	301,663	-19.68%	0	0	0.0%	859,120	1,529,151	-43.8%
MICRO E-MINI NASDAQ 100	0	0	0.0%	17,515,475	26,355,938	-33.54%	0	0	0.0%	89,178,143	125,785,378	-29.1%
MICRO E-MINI RUSSELL 2000	0	0	0.0%	1,317,047	2,143,263	-38.55%	0	0	0.0%	6,787,113	13,103,467	-48.2%
MICRO E-MINI S&P500	0	0	0.0%	17,354,035	23,566,020	-26.36%	0	0	0.0%	97,340,793	108,288,349	-10.1%
MICRO ETHER	0	0	0.0%	270,097	393,063	-31.28%	0	0	0.0%	889,638	1,575,884	-43.5%
MICRO MINI \$5 DOW	0	0	0.0%	1,777,560	3,204,629	-44.53%	0	0	0.0%	11,100,806	17,722,234	-37.4%
NASDAQ-100 VOLATILITY	0	0	0.0%	10	1,999	-99.50%	0	0	0.0%	3,202	14,145	-77.4%
NASDAQ BIOTECH SECTOR	0	0	0.0%	236	165	43.03%	0	0	0.0%	745	578	28.9%
Nearby BTIC+	0	0	0.0%	0	1,600	-100.00%	0	0	0.0%	0	2,350	-100.0%
NIKKEI 225 (\$) STOCK	0	0	0.0%	63,354	93,197	-32.02%	0	0	0.0%	373,080	518,742	-28.1%
NIKKEI 225 (YEN) STOCK	0	0	0.0%	390,842	605,313	-35.43%	0	0	0.0%	2,185,242	3,416,975	-36.0%
PHLX SEMICONDUCTOR SECT	0	-	-	584	-		0	-	-	1,291	-	-
S&P 500	0	0	0.0%	1,114	201	454.23%	0	0	0.0%	12,415	410	2,928.0%
S&P 500 ANNUAL DIVIDEND IN	0	0	0.0%	28,819	20,463	40.83%	0	0	0.0%	117,327	118,908	-1.3%
S&P 500 QUARLY DIVIDEND IN	0	0	0.0%	10,813	501	2,058.28%	0	0	0.0%	42,695	927	4,505.7%
S&P BIOTECHNOLOGY SECTO	0	-	-	1,128	-		0	-	-	2,938	-	-
S&P COMMUNICATION SERVIC	0	0	0.0%	2,268	2,463	-7.92%	0	0	0.0%	11,878	12,114	-1.9%
S&P CONSUMER DISCRETION	0	0	0.0%	3,089	4,734	-34.75%	0	0	0.0%	19,729	30,427	-35.2%
S&P CONSUMER STAPLES SE	0	0	0.0%	10,140	11,117	-8.79%	0	0	0.0%	59,300	55,248	7.3%
S&P ENERGY SECTOR	0	0	0.0%	14,768	22,987	-35.75%	0	0	0.0%	100,446	164,600	-39.0%
S&P FINANCIAL SECTOR	0	0	0.0%	11,533	13,622	-15.34%	0	0	0.0%	77,639	95,299	-18.5%
S&P HEALTH CARE SECTOR	0	0	0.0%	6,850	11,638	-41.14%	0	0	0.0%	49,539	72,014	-31.2%
S&P INDUSTRIAL SECTOR	0	0	0.0%	6,255	8,168	-23.42%	0	0	0.0%	40,718	52,465	-22.4%
S&P MATERIALS SECTOR	0	0	0.0%	3,113	4,190	-25.70%	0	0	0.0%	31,993	27,912	14.6%
S&P OIL & GAS EXPLORATION	0	-	-	133	-		0	-	-	938	-	-
S&P REAL ESTATE SECTOR	0	0	0.0%	1,809	1,564	15.66%	0	0	0.0%	20,371	15,556	31.0%
S&P REGIONAL BANKS SECTO	0	-	-	1,293	-		0	-	-	3,592	-	-
S&P RETAIL SECTOR	0	-	-	86	-		0	-	-	1,411	-	-
S&P TECHNOLOGY SECTOR	0	0	0.0%	4,916	10,429	-52.86%	0	0	0.0%	46,381	81,983	-43.4%
S&P UTILITIES SECTOR	0	0	0.0%	8,651	12,194	-29.06%	0	0	0.0%	67,063	68,116	-1.5%
S&P VALUE INDEX FUTURES	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
TOPIX (USD)	0	-	-	0	-		0	-	-	139	-	-
TOPIX (YEN)	0	0	0.0%	74	2,756	-97.31%	0	0	0.0%	983	15,168	-93.5%
WATER INDEX FUTURES	0	0	0.0%	14	89	-84.27%	0	0	0.0%	84	480	-82.5%

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<b>Equity Index Options</b>												
BITCOIN OPTIONS	0	0	0.0%	1,868	898	108.02%	0	0	0.0%	11,055	4,044	173.4%
DJIA	0	-	-	17,409	-		0	-	-	34,330	-	-
E-mini (\$5) Dow	0	0	0.0%	417	2,083	-79.98%	0	0	0.0%	4,134	9,704	-57.4%
E-MINI NASDAQ 100	0	0	0.0%	901,925	944,959	-4.55%	0	0	0.0%	4,189,313	3,404,253	23.1%
E-MINI RUSSELL 2000	0	0	0.0%	167,901	142,127	18.13%	0	0	0.0%	546,265	642,931	-15.0%
E-MINI S&P500	0	0	0.0%	18,042,265	19,333,007	-6.68%	0	0	0.0%	91,630,598	85,400,419	7.3%
EOM S&P 500	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ETHER OPTIONS	0	-	-	805	-		0	-	-	2,656	-	-
EVENT CONTRACT S&P 500	0	-	-	12,763	-		0	-	-	14,502	-	-
MICRO BITCOIN	0	0	0.0%	11,078	3,576	209.79%	0	0	0.0%	30,530	3,673	731.2%
MICRO E-MINI NASDAQ 100	0	0	0.0%	41,434	56,790	-27.04%	0	0	0.0%	212,123	267,219	-20.6%
Micro E-mini S&P 500	0	0	0.0%	172,052	165,994	3.65%	0	0	0.0%	1,022,991	1,022,396	0.1%
MICRO ETHER	0	0	0.0%	8,782	2,570	241.71%	0	0	0.0%	39,372	2,670	1,374.6%
S&P 500	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%

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	Open Outcry APR 2023	Open Outcry APR 2022	% CHG	ELEC APR 2023	ELEC APR 2022	% CHG	Open Outcry Y.T.D 2023	Open Outcry Y.T.D 2022	% CHG	ELEC Y.T.D 2023	ELEC Y.T.D 2022	% CHG
<b>Metals Futures</b>												
ALUMINUM	0	0	0.0%	81,756	18,562	340.45%	0	0	0.0%	280,018	53,237	426.0%
COBALT METAL FUTURES	0	0	0.0%	20	0	0.00%	0	0	0.0%	308	11	2,700.0%
COMEX COPPER	0	0	0.0%	2,157,321	1,708,311	26.28%	0	0	0.0%	8,838,903	6,963,669	26.9%
COMEX E-Mini GOLD	0	0	0.0%	35,467	24,719	43.48%	0	0	0.0%	174,144	126,702	37.4%
COMEX E-Mini SILVER	0	0	0.0%	6,831	4,048	68.75%	0	0	0.0%	27,687	17,143	61.5%
COMEX GOLD	0	0	0.0%	3,755,655	3,313,118	13.36%	0	0	0.0%	19,453,345	19,244,060	1.1%
COMEX MINY COPPER	0	0	0.0%	6,225	4,219	47.55%	0	0	0.0%	24,696	15,139	63.1%
COMEX SILVER	0	0	0.0%	1,599,969	1,461,704	9.46%	0	0	0.0%	6,045,985	5,711,660	5.9%
COPPER	0	0	0.0%	102,703	0	0.00%	0	0	0.0%	448,189	0	0.0%
FERROUS PRODUCTS	0	0	0.0%	293	617	-52.51%	0	0	0.0%	1,261	2,370	-46.8%
GOLD	0	0	0.0%	1,534	9,565	-83.96%	0	0	0.0%	2,840	49,244	-94.2%
HOT ROLLED COIL STEEL FUT	0	0	0.0%	665	614	8.31%	0	0	0.0%	6,620	2,574	157.2%
IRON ORE CHINA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
METALS	0	0	0.0%	1	0	0.00%	0	0	0.0%	103	27	281.5%
MICRO GOLD	0	0	0.0%	1,587,705	1,009,552	57.27%	0	0	0.0%	5,847,097	4,975,930	17.5%
NYMEX HOT ROLLED STEEL	0	0	0.0%	7,923	3,409	132.41%	0	0	0.0%	34,477	20,221	70.5%
NYMEX PLATINUM	0	0	0.0%	351,886	314,661	11.83%	0	0	0.0%	1,765,516	1,640,034	7.7%
PALLADIUM	0	0	0.0%	42,948	27,025	58.92%	0	0	0.0%	228,891	198,355	15.4%
SILVER	0	0	0.0%	232,289	155,403	49.48%	0	0	0.0%	909,475	718,776	26.5%
URANIUM	0	0	0.0%	0	6	-100.00%	0	0	0.0%	0	24	-100.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2023	Open Outcry APR 2022	% CHG	ELEC APR 2023	ELEC APR 2022	% CHG	Open Outcry Y.T.D 2023	Open Outcry Y.T.D 2022	% CHG	ELEC Y.T.D 2023	ELEC Y.T.D 2022	% CHG
<b>Metals Options</b>												
ALUMINUM	0	0	0.0%	436	0	0.00%	0	0	0.0%	1,640	0	0.0%
COMEX COPPER	0	0	0.0%	82,457	56,633	45.60%	0	0	0.0%	431,884	218,635	97.5%
COMEX GOLD	0	0	0.0%	805,629	681,713	18.18%	0	0	0.0%	3,777,641	3,251,207	16.2%
COMEX SILVER	0	0	0.0%	166,398	90,336	84.20%	0	0	0.0%	628,073	410,348	53.1%
COPPER	0	0	0.0%	8,221	450	1,726.89%	0	0	0.0%	41,862	1,706	2,353.8%
GOLD	0	0	0.0%	254,494	189,412	34.36%	0	0	0.0%	1,130,491	849,787	33.0%
IRON ORE CHINA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYMEX HOT ROLLED STEEL	0	0	0.0%	0	0	0.00%	0	0	0.0%	10	0	0.0%
NYMEX PLATINUM	0	0	0.0%	5,612	515	989.71%	0	0	0.0%	11,831	2,213	434.6%
PALLADIUM	0	0	0.0%	729	42	1,635.71%	0	0	0.0%	2,080	90	2,211.1%
SILVER	0	0	0.0%	36,285	11,301	221.08%	0	0	0.0%	147,230	76,135	93.4%
<b>Energy Futures</b>												
AEP-DAYTON HUB DAILY	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ARGUS LLS VS. WTI (ARG) T	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ARGUS PROPAN FAR EST IND	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ARGUS PROPAN(SAUDI ARAM	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
BRENT BALMO SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
BRENT CALENDAR SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
BRENT FINANCIAL FUTURES	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
BRENT OIL LAST DAY	0	0	0.0%	999,061	990,416	0.87%	0	0	0.0%	4,495,577	6,788,138	-33.8%
CAR VINTAGE	0	0	0.0%	13,455	2,880	367.19%	0	0	0.0%	42,631	13,459	216.7%
CHICAGO ETHANOL SWAP	0	0	0.0%	39	10	290.00%	0	0	0.0%	607	892	-32.0%
CHICAGO ULSD PL VS HO SPR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CHICAGO UNL GAS PL VS RBO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CONWAY NATURAL GASOLINE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CONWAY NORMAL BUTANE (O	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CONWAY PROPANE 5 DECIMA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CRUDE OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CRUDE OIL LAST DAY	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CRUDE OIL OUTRIGHTS	0	0	0.0%	157	0	0.00%	0	0	0.0%	748	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2023	Open Outcry APR 2022	% CHG	ELEC APR 2023	ELEC APR 2022	% CHG	Open Outcry Y.T.D 2023	Open Outcry Y.T.D 2022	% CHG	ELEC Y.T.D 2023	ELEC Y.T.D 2022	% CHG
<b>Energy Futures</b>												
CRUDE OIL PHY	0	0	0.0%	16,343,579	16,215,844	0.79%	0	0	0.0%	71,556,674	90,674,472	-21.1%
CRUDE OIL SPRDS	0	0	0.0%	84	0	0.00%	0	0	0.0%	442	0	0.0%
CRUDE OIL TRADE AT MARKE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
DAILY PJM	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
DATED TO FRONTLINE BRENT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
DIESEL 10P BRG FOB RDM VS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
DOMINION TRANSMISSION INC	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
DUBAI CRUDE OIL CALENDAR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
DUTCH TTF NATURAL GAS CA	0	0	0.0%	3,401	236	1,341.10%	0	0	0.0%	5,227	10,153	-48.5%
EAST/WEST FUEL OIL SPREAD	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
EIA FLAT TAX ONHWAY DIESE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ELEC FINSETTLED	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ELECTRICITY OFF PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
EMMISSIONS	0	0	0.0%	1,592	1,051	51.47%	0	0	0.0%	7,666	1,211	533.0%
ETHANOL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ETHANOL SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ETHANOL T2 FOB ROTT INCL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EURO 3.5% FUEL OIL RDAM B	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
EURO GASOIL 10 CAL SWAP	0	-	-	0	-		0	-	-	0	-	-
EURO GASOIL 10PPM VS ICE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EUROPE 1% FUEL OIL NWE CA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EUROPE 3.5% FUEL OIL MED	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
EUROPE 3.5% FUEL OIL RDAM	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EUROPEAN GASOIL (ICE)	0	0	0.0%	60	472	-87.29%	0	0	0.0%	223	832	-73.2%
EUROPEAN NAPHTHA BALMO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EUROPEAN NAPHTHA CRACK S	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EUROPE DATED BRENT SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EUROPE JET KERO NWE CALS	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
EUROPE NAPHTHA CALSWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EURO PROPANE CIF ARA SW	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
FREIGHT MARKETS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
FUEL OIL CRACK VS ICE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
FUEL OIL NWE CRACK VS ICE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
FUELOIL SWAP:CARGOES VS.	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2023	Open Outcry APR 2022	% CHG	ELEC APR 2023	ELEC APR 2022	% CHG	Open Outcry Y.T.D 2023	Open Outcry Y.T.D 2022	% CHG	ELEC Y.T.D 2023	ELEC Y.T.D 2022	% CHG
<b>Energy Futures</b>												
GAS EURO-BOB OXY NWE BA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GAS EURO-BOB OXY NWE BA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GASOIL 0.1CIF MED VS ICE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GASOIL 0.1 RDAM BRGS VS I	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GASOIL 0.1 ROTTERDAM BAR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GASOIL 10PPM VS ICE SWAP	0	-	-	0	-		0	-	-	0	-	-
GASOIL CALENDAR SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GASOIL CRACK SPREAD CALE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GASOIL MINI CALENDAR SWA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GERMAN POWER BASELOAD	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GRP THREE ULSD(PLT)VS HEA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GRP THREE UNL GS (PLT) VS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GULF COAST 3% FUEL OIL BA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GULF COAST JET FUEL CLNDR	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
GULF COAST JET VS NYM 2 H	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GULF COAST NO.6 FUEL OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GULF COAST ULSD CALENDAR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GULF COAST ULSD CRACK SP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HEATING OIL BALMO CLNDR S	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HEATING OIL CRCK SPRD BAL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HEATING OIL PHY	0	0	0.0%	2,637,798	2,397,109	10.04%	0	0	0.0%	12,193,172	14,144,440	-13.8%
HENRY HUB SWAP	0	0	0.0%	1	272	-99.63%	0	0	0.0%	146	1,236	-88.2%
HOUSTON SHIP CHANNEL BAS	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
HTG OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ICE BRENT DUBAI SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ICE GASOIL BALMO SWAP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
INDIANA MISO	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
INDONESIAN COAL ICI4	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
JAPAN C&F NAPHTHA CRACK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
JAPAN C&F NAPHTHA SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
JAPAN NAPHTHA BALMO SWA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
JET CIF NWE VS ICE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
JET FUEL UP-DOWN BALMO C	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
JKM LNG Futures	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%

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<b>Energy Futures</b>												
LA CARB DIESEL (OPIS) SWA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LA CARBOB GASOLINE(OPIS)S	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LA JET (OPIS) SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LLS (ARGUS) CALENDAR SWA	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
LLS (ARGUS) VS WTI SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LTD NAT GAS	0	0	0.0%	227,168	300,709	-24.46%	0	0	0.0%	1,015,969	1,033,768	-1.7%
MARS (ARGUS) VS WTI SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MARS (ARGUS) VS WTI TRD M	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MCCLOSKEY ARA ARGS COAL	0	0	0.0%	362	753	-51.93%	0	0	0.0%	1,116	3,424	-67.4%
MCCLOSKEY RCH BAY COAL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MGN1 SWAP FUT	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
MINI GAS EUROBOB OXY NWE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MINI RBOB V. EBOBARG NWE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MINI RBOB V. EBOB(ARGUS) N	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MINY HTG OIL	0	0	0.0%	8	12	-33.33%	0	0	0.0%	44	33	33.3%
MINY NATURAL GAS	0	0	0.0%	191,853	483,192	-60.29%	0	0	0.0%	1,196,006	1,104,496	8.3%
MINY RBOB GAS	0	0	0.0%	14	12	16.67%	0	0	0.0%	48	38	26.3%
MINY WTI CRUDE OIL	0	0	0.0%	290,978	537,340	-45.85%	0	0	0.0%	1,302,347	2,721,526	-52.1%
MJC FUT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MNC FUT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MONT BELVIEU ETHANE 5 DEC	0	0	0.0%	0	30	-100.00%	0	0	0.0%	0	145	-100.0%
MONT BELVIEU ETHANE OPIS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MONT BELVIEU LDH PROPANE	0	0	0.0%	28	23	21.74%	0	0	0.0%	111	58	91.4%
MONT BELVIEU LDH PROPANE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MONT BELVIEU NATURAL GAS	0	0	0.0%	0	0	0.00%	0	0	0.0%	19	0	0.0%
MONT BELVIEU NATURAL GAS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MONT BELVIEU NORMAL BUTA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MONT BELVIEU NORMAL BUTA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NATURAL GAS	0	0	0.0%	72,700	60,702	19.77%	0	0	0.0%	256,255	202,575	26.5%
NATURAL GAS PEN SWP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NATURAL GAS PHY	0	0	0.0%	7,983,257	8,783,737	-9.11%	0	0	0.0%	33,294,028	32,019,538	4.0%
NEPOOL INTR HUB 5MW D AH	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NEW ENGLAND HUB PEAK DAI	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NEW YORK ETHANOL SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2023	Open Outcry APR 2022	% CHG	ELEC APR 2023	ELEC APR 2022	% CHG	Open Outcry Y.T.D 2023	Open Outcry Y.T.D 2022	% CHG	ELEC Y.T.D 2023	ELEC Y.T.D 2022	% CHG
<b>Energy Futures</b>												
NEW YORK HUB ZONE G PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NEW YORK HUB ZONE J PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
N ILLINOIS HUB DAILY	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NY1% VS GC SPREAD SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NY HARBOR 1% FUEL OIL BAL	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NY HARBOR HEAT OIL SWP	0	0	0.0%	70	4	1,650.00%	0	0	0.0%	131	15	773.3%
NY HARBOR LOW SULPUR GA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NY HARBOR RESIDUAL FUEL 1	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYH NO 2 CRACK SPREAD CA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYISO CAPACITY	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NYISO ZONE G 5MW D AH O P	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NYISO ZONE G 5MW D AH PK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NY ULSD (ARGUS) VS HEATIN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PANHANDLE BASIS SWAP FUT	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
PETROCHEMICALS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PETRO CRCKS & SPRDS ASIA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PETRO CRCKS & SPRDS NA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PETRO CRK&SPRD EURO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PETROLEUM PRODUCTS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PETROLEUM PRODUCTS ASIA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PETRO OUTRIGHT EURO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PETRO OUTRIGHT NA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM AD HUB 5MW REAL TIME	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM DAILY	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM NI HUB 5MW REAL TIME	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM WESTH RT OFF-PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM WESTH RT PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PLASTICS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PREMIUM UNLD 10P FOB MED	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PROPANE NON-LDH MB (OPIS)	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PROPANE NON-LDH MT. BEL (	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
RBOB CALENDAR SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
RBOB CRACK SPREAD	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
RBOB CRACK SPREAD BALMO	0	-	-	0	-		0	-	-	0	-	-

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2023	Open Outcry APR 2022	% CHG	ELEC APR 2023	ELEC APR 2022	% CHG	Open Outcry Y.T.D 2023	Open Outcry Y.T.D 2022	% CHG	ELEC Y.T.D 2023	ELEC Y.T.D 2022	% CHG
<b>Energy Futures</b>												
RBOB GAS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
RBOB GASOLINE BALMO CLNC	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
RBOB PHY	0	0	0.0%	3,195,554	3,014,705	6.00%	0	0	0.0%	12,720,470	14,826,497	-14.2%
RBOB VS HEATING OIL SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE 180CST BALMO	0	-	-	0	-		0	-	-	0	-	-
SINGAPORE 380CST BALMO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE 380CST FUEL OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE FUEL 180CST CAL	0	-	-	0	-		0	-	-	0	-	-
SINGAPORE FUEL OIL 180 CS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE FUEL OIL SPREA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE GASOIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE GASOIL CALEND A	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE GASOIL SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE GASOIL VS ICE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE JET KERO GASOI	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE JET KEROSENE S	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE MOGAS 92 UNLEA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE MOGAS 92 UNLEA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TC2 ROTTERDAM TO USAC 37	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TC5 RAS TANURA TO YOKOHA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TD3 MEG TO JAPAN 250K MT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TEXAS EASTERN ZONE M-3 BA	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
UK NBP NAT GAS CAL MTH FU	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ULSD UP-DOWN BALMO SWP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
UP DOWN GC ULSD VS NMX H	0	0	0.0%	0	0	0.00%	0	0	0.0%	16	0	0.0%
WTI-BRENT CALENDAR SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
WTI CALENDAR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
WTI MIDLAND CRUDE OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
WTS (ARGUS) VS WTI SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
WTS (ARGUS) VS WTI TRD MT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%

### Energy Options

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2023	Open Outcry APR 2022	% CHG	ELEC APR 2023	ELEC APR 2022	% CHG	Open Outcry Y.T.D 2023	Open Outcry Y.T.D 2022	% CHG	ELEC Y.T.D 2023	ELEC Y.T.D 2022	% CHG
<b>Energy Options</b>												
BRENT CALENDAR SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
BRENT CRUDE OIL 1 M CSO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
BRENT OIL LAST DAY	0	0	0.0%	3,121	2,671	16.85%	0	0	0.0%	22,056	5,412	307.5%
COAL API2 INDEX	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CRUDE OIL	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
CRUDE OIL 1MO	0	0	0.0%	100	7,082	-98.59%	0	0	0.0%	1,475	22,251	-93.4%
CRUDE OIL APO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CRUDE OIL CALNDR STRIP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
CRUDE OIL OUTRIGHTS	0	-	-	11,766	-		0	-	-	33,852	-	-
CRUDE OIL PHY	0	0	0.0%	1,819,781	1,658,106	9.75%	0	0	0.0%	7,601,166	9,649,029	-21.2%
ELEC FINSETTLED	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ETHANOL SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
FREIGHT MARKETS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HEATING OIL CRK SPD AVG P	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HEATING OIL PHY	0	0	0.0%	635	1,468	-56.74%	0	0	0.0%	4,790	12,438	-61.5%
HENRY HUB FINANCIAL LAST	0	0	0.0%	3,909	6	65,050.00%	0	0	0.0%	14,828	66	22,366.7%
HO 1 MONTH CLNDR OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LLS CRUDE OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MCCLOSKEY ARA ARGS COAL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NATURAL GAS	0	0	0.0%	0	9	-100.00%	0	0	0.0%	0	3,317	-100.0%
NATURAL GAS 1 M CSO FIN	0	0	0.0%	400	0	0.00%	0	0	0.0%	3,254	4,900	-33.6%
NATURAL GAS 2 M CSO FIN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NATURAL GAS 3 M CSO FIN	0	0	0.0%	22,000	0	0.00%	0	0	0.0%	22,800	0	0.0%
NATURAL GAS 5 M CSO FIN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NATURAL GAS 6 M CSO FIN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NATURAL GAS OPT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NATURAL GAS OPTION ON CA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NATURAL GAS PHY	0	0	0.0%	1,529,263	1,214,642	25.90%	0	0	0.0%	5,006,755	4,444,078	12.7%
NATURAL GAS SUMMER STRIF	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NY HARBOR HEAT OIL SWP	0	0	0.0%	26	94	-72.34%	0	0	0.0%	481	240	100.4%
PETROCHEMICALS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	5	-100.0%
PETRO OUTRIGHT EURO	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
PETRO OUTRIGHT NA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM WES HUB PEAK CAL MTH	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2023	Open Outcry APR 2022	% CHG	ELEC APR 2023	ELEC APR 2022	% CHG	Open Outcry Y.T.D 2023	Open Outcry Y.T.D 2022	% CHG	ELEC Y.T.D 2023	ELEC Y.T.D 2022	% CHG
<b>Energy Options</b>												
PJM WES HUB PEAK LMP 50M	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
RBOB 1MO CAL SPD OPTIONS	0	-	-	0	-		0	-	-	0	-	-
RBOB CALENDAR SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
RBOB PHY	0	0	0.0%	971	218	345.41%	0	0	0.0%	2,678	4,848	-44.8%
SHORT TERM	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SHORT TERM NATURAL GAS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
WTI-BRENT BULLET SWAP	0	0	0.0%	1,850	1,400	32.14%	0	0	0.0%	2,475	2,950	-16.1%
WTI CRUDE OIL 1 M CSO FI	0	0	0.0%	0	0	0.00%	0	0	0.0%	200	271	-26.2%
<b>FX Futures</b>												
AD/CD CROSS RATES	0	0	0.0%	2	18	-88.89%	0	0	0.0%	153	136	12.5%
AD/JY CROSS RATES	0	0	0.0%	1,297	6,354	-79.59%	0	0	0.0%	6,798	23,015	-70.5%
AD/NE CROSS RATES	0	0	0.0%	2,352	2,758	-14.72%	0	0	0.0%	9,687	6,830	41.8%
AUSTRALIAN DOLLAR	0	0	0.0%	1,401,214	1,703,463	-17.74%	0	0	0.0%	7,592,923	7,614,371	-0.3%
BP/JY CROSS RATES	0	0	0.0%	1,104	3,578	-69.14%	0	0	0.0%	11,090	14,086	-21.3%
BP/SF CROSS RATES	0	0	0.0%	2,097	1,766	18.74%	0	0	0.0%	10,839	8,625	25.7%
BRAZIL REAL	0	0	0.0%	208,926	279,548	-25.26%	0	0	0.0%	1,039,336	1,159,596	-10.4%
BRITISH POUND	0	0	0.0%	1,618,082	1,964,282	-17.62%	0	0	0.0%	8,179,400	8,837,275	-7.4%
CANADIAN DOLLAR	0	0	0.0%	1,347,497	1,457,861	-7.57%	0	0	0.0%	6,848,675	6,605,931	3.7%
CD/JY CROSS RATES	0	0	0.0%	0	2	-100.00%	0	0	0.0%	6	245	-97.6%
CHILEAN PESO	0	0	0.0%	0	0	0.00%	0	0	0.0%	3	23	-87.0%
CHINESE RENMINBI (CNH)	0	0	0.0%	11,119	31,385	-64.57%	0	0	0.0%	98,724	89,414	10.4%
CZECK KORUNA (EC)	0	0	0.0%	0	2	-100.00%	0	0	0.0%	4	13	-69.2%
CZECK KORUNA (US)	0	0	0.0%	3	1	200.00%	0	0	0.0%	14	11	27.3%
EC/AD CROSS RATES	0	0	0.0%	2,559	3,353	-23.68%	0	0	0.0%	17,372	20,220	-14.1%
EC/CD CROSS RATES	0	0	0.0%	3,588	5,133	-30.10%	0	0	0.0%	23,007	31,181	-26.2%
EC/NOK CROSS RATES	0	0	0.0%	384	1,058	-63.71%	0	0	0.0%	4,505	4,571	-1.4%
EC/SEK CROSS RATES	0	0	0.0%	453	779	-41.85%	0	0	0.0%	10,190	8,148	25.1%
EFX/BP CROSS RATES	0	0	0.0%	27,236	55,552	-50.97%	0	0	0.0%	209,913	366,383	-42.7%
EFX/JY CROSS RATES	0	0	0.0%	23,783	31,099	-23.52%	0	0	0.0%	165,083	247,108	-33.2%
EFX/SF CROSS RATES	0	0	0.0%	8,739	20,739	-57.86%	0	0	0.0%	81,116	162,402	-50.1%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2023	Open Outcry APR 2022	% CHG	ELEC APR 2023	ELEC APR 2022	% CHG	Open Outcry Y.T.D 2023	Open Outcry Y.T.D 2022	% CHG	ELEC Y.T.D 2023	ELEC Y.T.D 2022	% CHG
<b>FX Futures</b>												
E-MICRO USD/CAD	0	0	0.0%	106	111	-4.50%	0	0	0.0%	700	1,290	-45.7%
E-MICRO USD/CHF	0	0	0.0%	430	24	1,691.67%	0	0	0.0%	935	264	254.2%
E-MICRO USD/JPY	0	0	0.0%	4,815	14,206	-66.11%	0	0	0.0%	8,739	26,331	-66.8%
E-MINI EURO FX	0	0	0.0%	103,483	101,541	1.91%	0	0	0.0%	562,019	518,987	8.3%
E-MINI JAPANESE YEN	0	0	0.0%	7,232	11,266	-35.81%	0	0	0.0%	44,122	31,599	39.6%
EURO FX	0	0	0.0%	3,385,742	3,565,524	-5.04%	0	0	0.0%	18,415,137	17,671,971	4.2%
HUNGARIAN FORINT (EC)	0	0	0.0%	0	1	-100.00%	0	0	0.0%	13	1	1,200.0%
HUNGARIAN FORINT (US)	0	0	0.0%	23	2	1,050.00%	0	0	0.0%	69	29	137.9%
INDIAN RUPEE	0	0	0.0%	19,592	22,258	-11.98%	0	0	0.0%	126,039	79,768	58.0%
JAPANESE YEN	0	0	0.0%	2,793,324	2,851,796	-2.05%	0	0	0.0%	12,989,293	10,478,256	24.0%
KOREAN WON	0	0	0.0%	199	285	-30.18%	0	0	0.0%	825	1,746	-52.7%
MEXICAN PESO	0	0	0.0%	903,607	812,434	11.22%	0	0	0.0%	5,051,296	3,997,047	26.4%
MICRO AUD/USD	0	0	0.0%	238,337	259,561	-8.18%	0	0	0.0%	1,145,761	1,042,965	9.9%
MICRO CAD/USD	0	0	0.0%	39,550	47,269	-16.33%	0	0	0.0%	240,519	212,370	13.3%
MICRO CHF/USD	0	0	0.0%	9,905	10,437	-5.10%	0	0	0.0%	60,392	43,174	39.9%
MICRO EUR/USD	0	0	0.0%	540,156	664,143	-18.67%	0	0	0.0%	2,749,615	2,751,023	-0.1%
MICRO GBP/USD	0	0	0.0%	53,844	75,259	-28.46%	0	0	0.0%	284,145	324,304	-12.4%
MICRO INR/USD	0	0	0.0%	430	744	-42.20%	0	0	0.0%	2,322	3,318	-30.0%
MICRO JPY/USD	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	101,719	-100.0%
MICRO USD/CNH	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	2	-100.0%
NEW ZEALND DOLLAR	0	0	0.0%	533,400	519,176	2.74%	0	0	0.0%	2,410,568	2,229,431	8.1%
NKR/USD CROSS RATE	0	0	0.0%	2,158	2,257	-4.39%	0	0	0.0%	11,738	13,013	-9.8%
POLISH ZLOTY (EC)	0	0	0.0%	3	66	-95.45%	0	0	0.0%	57	608	-90.6%
POLISH ZLOTY (US)	0	0	0.0%	1,046	608	72.04%	0	0	0.0%	3,123	5,754	-45.7%
RMB USD	0	0	0.0%	0	1	-100.00%	0	0	0.0%	5	5	0.0%
RUSSIAN RUBLE	0	0	0.0%	0	1,023	-100.00%	0	0	0.0%	0	574,649	-100.0%
S.AFRICAN RAND	0	0	0.0%	35,950	72,531	-50.43%	0	0	0.0%	242,443	335,842	-27.8%
SF/JY CROSS RATES	0	0	0.0%	544	829	-34.38%	0	0	0.0%	2,301	1,489	54.5%
SHEKEL	0	0	0.0%	51	5	920.00%	0	0	0.0%	305	44	593.2%
SKR/USD CROSS RATES	0	0	0.0%	2,977	4,055	-26.58%	0	0	0.0%	17,772	23,715	-25.1%
SWISS FRANC	0	0	0.0%	393,709	381,453	3.21%	0	0	0.0%	1,734,859	1,862,739	-6.9%
TURKISH LIRA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
USDZAR	0	0	0.0%	0	0	0.00%	0	0	0.0%	97	27	259.3%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2023	Open Outcry APR 2022	% CHG	ELEC APR 2023	ELEC APR 2022	% CHG	Open Outcry Y.T.D 2023	Open Outcry Y.T.D 2022	% CHG	ELEC Y.T.D 2023	ELEC Y.T.D 2022	% CHG
<b>FX Options</b>												
AUD/USD MONDAY OPTION W	0	0	0.0%	54	85	-36.47%	0	0	0.0%	445	1,449	-69.3%
AUD/USD MONDAY OPTION W	0	0	0.0%	132	83	59.04%	0	0	0.0%	2,054	2,329	-11.8%
AUD/USD MONDAY OPTION W	0	0	0.0%	137	607	-77.43%	0	0	0.0%	1,007	1,497	-32.7%
AUD/USD MONDAY OPTION W	0	0	0.0%	140	820	-82.93%	0	0	0.0%	1,082	1,613	-32.9%
AUD/USD MONDAY OPTION W	0	0	0.0%	0	0	0.00%	0	0	0.0%	315	779	-59.6%
AUD/USD MONTHLY OPTIONS	0	0	0.0%	49,607	94,994	-47.78%	0	0	0.0%	203,849	265,848	-23.3%
AUD/USD THURSDAY WKLY O	0	-	-	12	-		0	-	-	72	-	-
AUD/USD THURSDAY WKLY O	0	-	-	7	-		0	-	-	52	-	-
AUD/USD THURSDAY WKLY O	0	-	-	50	-		0	-	-	1,104	-	-
AUD/USD THURSDAY WKLY O	0	-	-	71	-		0	-	-	380	-	-
AUD/USD THURSDAY WKLY O	0	-	-	0	-		0	-	-	11	-	-
AUD/USD TUESDAY WKLY OPT	0	-	-	50	-		0	-	-	182	-	-
AUD/USD TUESDAY WKLY OPT	0	-	-	76	-		0	-	-	1,071	-	-
AUD/USD TUESDAY WKLY OPT	0	-	-	71	-		0	-	-	338	-	-
AUD/USD TUESDAY WKLY OPT	0	-	-	132	-		0	-	-	290	-	-
AUD/USD TUESDAY WKLY OPT	0	-	-	0	-		0	-	-	105	-	-
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	20	-100.00%	0	0	0.0%	0	1,420	-100.0%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	845	782	8.06%	0	0	0.0%	7,003	7,828	-10.5%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,077	1,311	-17.85%	0	0	0.0%	5,882	9,714	-39.4%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,844	961	195.94%	0	0	0.0%	7,314	6,236	17.3%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	1,463	-100.00%	0	0	0.0%	949	1,720	-44.8%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	298	268	11.19%	0	0	0.0%	797	3,108	-74.4%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	452	571	-20.84%	0	0	0.0%	997	2,657	-62.5%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	252	149	69.13%	0	0	0.0%	1,105	2,948	-62.5%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	399	615	-35.12%	0	0	0.0%	1,220	1,876	-35.0%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	310	211	46.9%
BRL/USD MONTHLY OPTIONS	0	0	0.0%	200	184	8.70%	0	0	0.0%	205	1,781	-88.5%
CAD/USD MONDAY OPTIONS	0	0	0.0%	1,073	261	311.11%	0	0	0.0%	3,627	861	321.3%
CAD/USD MONDAY OPTIONS	0	0	0.0%	783	1,339	-41.52%	0	0	0.0%	6,056	5,844	3.6%
CAD/USD MONDAY OPTIONS	0	0	0.0%	109	2,885	-96.22%	0	0	0.0%	3,610	3,460	4.3%
CAD/USD MONDAY OPTIONS	0	0	0.0%	1,105	1,477	-25.19%	0	0	0.0%	3,846	4,446	-13.5%
CAD/USD MONDAY OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	247	1,256	-80.3%
CAD/USD MONTHLY OPTIONS	0	0	0.0%	27,057	57,831	-53.21%	0	0	0.0%	256,197	242,216	5.8%
CAD/USD THURSDAY WKLY O	0	-	-	0	-		0	-	-	595	-	-

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2023	Open Outcry APR 2022	% CHG	ELEC APR 2023	ELEC APR 2022	% CHG	Open Outcry Y.T.D 2023	Open Outcry Y.T.D 2022	% CHG	ELEC Y.T.D 2023	ELEC Y.T.D 2022	% CHG
<b>FX Options</b>												
CAD/USD THURSDAY WKLY O	0	-	-	4	-		0	-	-	623	-	-
CAD/USD THURSDAY WKLY O	0	-	-	935	-		0	-	-	1,364	-	-
CAD/USD THURSDAY WKLY O	0	-	-	21	-		0	-	-	1,365	-	-
CAD/USD THURSDAY WKLY O	0	-	-	0	-		0	-	-	1,586	-	-
CAD/USD TUESDAY WKLY OPT	0	-	-	624	-		0	-	-	1,202	-	-
CAD/USD TUESDAY WKLY OPT	0	-	-	110	-		0	-	-	3,070	-	-
CAD/USD TUESDAY WKLY OPT	0	-	-	456	-		0	-	-	1,415	-	-
CAD/USD TUESDAY WKLY OPT	0	-	-	18	-		0	-	-	224	-	-
CAD/USD TUESDAY WKLY OPT	0	-	-	0	-		0	-	-	76	-	-
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	165	-100.00%	0	0	0.0%	0	5,805	-100.0%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,350	431	213.23%	0	0	0.0%	11,011	15,166	-27.4%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,945	5,753	-66.19%	0	0	0.0%	9,382	22,220	-57.8%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	3,301	6,989	-52.77%	0	0	0.0%	13,495	21,961	-38.6%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	3,629	-100.00%	0	0	0.0%	5,073	4,281	18.5%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	1,372	1,448	-5.25%	0	0	0.0%	3,956	4,638	-14.7%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	853	1,258	-32.19%	0	0	0.0%	3,028	5,286	-42.7%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	237	2,887	-91.79%	0	0	0.0%	4,552	6,819	-33.2%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	991	1,045	-5.17%	0	0	0.0%	6,339	7,587	-16.4%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	889	2,938	-69.7%
CHF/USD MONTHLY OPTIONS	0	0	0.0%	5,168	5,068	1.97%	0	0	0.0%	14,105	24,193	-41.7%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	520	-100.0%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	720	89	708.99%	0	0	0.0%	1,534	720	113.1%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	614	35	1,654.29%	0	0	0.0%	1,079	398	171.1%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	509	29	1,655.17%	0	0	0.0%	4,804	742	547.4%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	14	-100.00%	0	0	0.0%	342	14	2,342.9%
EUR/GBP MONTHLY OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	204	-100.0%
EUR/GBP WKLY FRIDAY OPTIC	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
EURODOLLARS	0	-	-	5,728	-		0	-	-	16,517	-	-
EURO FX	0	-	-	34	-		0	-	-	34	-	-
EUR/USD MONDAY OPTION W	0	0	0.0%	1,722	2,155	-20.09%	0	0	0.0%	8,666	9,118	-5.0%
EUR/USD MONDAY OPTION W	0	0	0.0%	866	970	-10.72%	0	0	0.0%	6,973	13,408	-48.0%
EUR/USD MONDAY OPTION W	0	0	0.0%	730	1,628	-55.16%	0	0	0.0%	5,480	4,306	27.3%
EUR/USD MONDAY OPTION W	0	0	0.0%	706	9,666	-92.70%	0	0	0.0%	7,325	15,917	-54.0%
EUR/USD MONDAY OPTION W	0	0	0.0%	0	0	0.00%	0	0	0.0%	955	2,856	-66.6%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2023	Open Outcry APR 2022	% CHG	ELEC APR 2023	ELEC APR 2022	% CHG	Open Outcry Y.T.D 2023	Open Outcry Y.T.D 2022	% CHG	ELEC Y.T.D 2023	ELEC Y.T.D 2022	% CHG
<b>FX Options</b>												
EUR/USD MONTHLY OPTIONS	0	0	0.0%	174,854	241,842	-27.70%	0	0	0.0%	918,208	944,182	-2.8%
EUR/USD THURSDAY WKLY O	0	-	-	661	-		0	-	-	1,031	-	-
EUR/USD THURSDAY WKLY O	0	-	-	1,806	-		0	-	-	3,749	-	-
EUR/USD THURSDAY WKLY O	0	-	-	95	-		0	-	-	390	-	-
EUR/USD THURSDAY WKLY O	0	-	-	683	-		0	-	-	5,318	-	-
EUR/USD THURSDAY WKLY O	0	-	-	0	-		0	-	-	12	-	-
EUR/USD TUESDAY WKLY OPT	0	-	-	29	-		0	-	-	611	-	-
EUR/USD TUESDAY WKLY OPT	0	-	-	16	-		0	-	-	541	-	-
EUR/USD TUESDAY WKLY OPT	0	-	-	86	-		0	-	-	2,095	-	-
EUR/USD TUESDAY WKLY OPT	0	-	-	30	-		0	-	-	3,042	-	-
EUR/USD TUESDAY WKLY OPT	0	-	-	0	-		0	-	-	128	-	-
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	1,815	-100.00%	0	0	0.0%	0	24,510	-100.0%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	17,051	4,440	284.03%	0	0	0.0%	79,131	66,400	19.2%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	7,699	16,796	-54.16%	0	0	0.0%	86,714	67,245	29.0%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	10,145	21,050	-51.81%	0	0	0.0%	147,789	89,868	64.5%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	18,300	-100.00%	0	0	0.0%	8,265	20,204	-59.1%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	7,211	5,904	22.14%	0	0	0.0%	18,180	26,808	-32.2%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	5,103	4,158	22.73%	0	0	0.0%	25,975	21,805	19.1%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	4,256	4,808	-11.48%	0	0	0.0%	20,678	22,551	-8.3%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	5,816	9,198	-36.77%	0	0	0.0%	18,816	24,509	-23.2%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	6,668	6,113	9.1%
GBP/USD MONDAY OPTION W	0	0	0.0%	346	612	-43.46%	0	0	0.0%	3,189	2,506	27.3%
GBP/USD MONDAY OPTION W	0	0	0.0%	821	797	3.01%	0	0	0.0%	4,530	3,535	28.1%
GBP/USD MONDAY OPTION W	0	0	0.0%	477	1,056	-54.83%	0	0	0.0%	2,022	1,545	30.9%
GBP/USD MONDAY OPTION W	0	0	0.0%	604	152	297.37%	0	0	0.0%	1,262	2,596	-51.4%
GBP/USD MONDAY OPTION W	0	0	0.0%	0	0	0.00%	0	0	0.0%	400	361	10.8%
GBP/USD MONTHLY OPTIONS	0	0	0.0%	45,880	85,498	-46.34%	0	0	0.0%	225,257	267,841	-15.9%
GBP/USD THURSDAY WKLY O	0	-	-	400	-		0	-	-	996	-	-
GBP/USD THURSDAY WKLY O	0	-	-	61	-		0	-	-	512	-	-
GBP/USD THURSDAY WKLY O	0	-	-	912	-		0	-	-	1,403	-	-
GBP/USD THURSDAY WKLY O	0	-	-	116	-		0	-	-	468	-	-
GBP/USD THURSDAY WKLY O	0	-	-	0	-		0	-	-	61	-	-
GBP/USD TUESDAY WKLY OPT	0	-	-	193	-		0	-	-	785	-	-
GBP/USD TUESDAY WKLY OPT	0	-	-	954	-		0	-	-	1,518	-	-

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2023	Open Outcry APR 2022	% CHG	ELEC APR 2023	ELEC APR 2022	% CHG	Open Outcry Y.T.D 2023	Open Outcry Y.T.D 2022	% CHG	ELEC Y.T.D 2023	ELEC Y.T.D 2022	% CHG
<b>FX Options</b>												
GBP/USD TUESDAY WKLY OPT	0	-	-	2	-		0	-	-	560	-	-
GBP/USD TUESDAY WKLY OPT	0	-	-	119	-		0	-	-	827	-	-
GBP/USD TUESDAY WKLY OPT	0	-	-	0	-		0	-	-	225	-	-
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	24	-100.00%	0	0	0.0%	0	2,814	-100.0%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	5,395	1,784	202.41%	0	0	0.0%	14,520	8,261	75.8%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	8,804	2,621	235.90%	0	0	0.0%	16,401	12,456	31.7%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,806	2,147	-15.88%	0	0	0.0%	6,162	11,838	-47.9%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	2,892	-100.00%	0	0	0.0%	2,641	3,774	-30.0%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	1,864	1,760	5.91%	0	0	0.0%	3,484	6,996	-50.2%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	323	314	2.87%	0	0	0.0%	5,456	2,300	137.2%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	327	808	-59.53%	0	0	0.0%	4,106	5,068	-19.0%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	175	993	-82.38%	0	0	0.0%	2,068	3,589	-42.4%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	93	330	-71.8%
JPY/USD MONDAY OPTION WE	0	0	0.0%	184	732	-74.86%	0	0	0.0%	2,332	2,016	15.7%
JPY/USD MONDAY OPTION WE	0	0	0.0%	741	1,095	-32.33%	0	0	0.0%	8,303	4,230	96.3%
JPY/USD MONDAY OPTION WE	0	0	0.0%	54	419	-87.11%	0	0	0.0%	1,733	552	213.9%
JPY/USD MONDAY OPTION WE	0	0	0.0%	884	1,360	-35.00%	0	0	0.0%	2,384	3,578	-33.4%
JPY/USD MONDAY OPTION WE	0	0	0.0%	0	0	0.00%	0	0	0.0%	1,047	51	1,952.9%
JPY/USD MONTHLY OPTIONS	0	0	0.0%	58,419	201,937	-71.07%	0	0	0.0%	331,996	562,414	-41.0%
JPY/USD THURSDAY WKLY OP	0	-	-	3	-		0	-	-	72	-	-
JPY/USD THURSDAY WKLY OP	0	-	-	6	-		0	-	-	68	-	-
JPY/USD THURSDAY WKLY OP	0	-	-	17	-		0	-	-	136	-	-
JPY/USD THURSDAY WKLY OP	0	-	-	27	-		0	-	-	27	-	-
JPY/USD THURSDAY WKLY OP	0	-	-	0	-		0	-	-	157	-	-
JPY/USD TUESDAY WKLY OPT	0	-	-	20	-		0	-	-	49	-	-
JPY/USD TUESDAY WKLY OPT	0	-	-	19	-		0	-	-	1,405	-	-
JPY/USD TUESDAY WKLY OPT	0	-	-	2	-		0	-	-	77	-	-
JPY/USD TUESDAY WKLY OPT	0	-	-	103	-		0	-	-	892	-	-
JPY/USD TUESDAY WKLY OPT	0	-	-	0	-		0	-	-	5	-	-
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	159	-100.00%	0	0	0.0%	0	10,796	-100.0%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	4,809	1,958	145.61%	0	0	0.0%	27,336	34,511	-20.8%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	7,179	10,103	-28.94%	0	0	0.0%	31,997	41,132	-22.2%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	8,042	7,481	7.50%	0	0	0.0%	23,253	39,888	-41.7%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	15,414	-100.00%	0	0	0.0%	4,385	15,568	-71.8%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2023	Open Outcry APR 2022	% CHG	ELEC APR 2023	ELEC APR 2022	% CHG	Open Outcry Y.T.D 2023	Open Outcry Y.T.D 2022	% CHG	ELEC Y.T.D 2023	ELEC Y.T.D 2022	% CHG
<b>FX Options</b>												
JPY/USD WKLY WED OPTIONS	0	0	0.0%	3,239	4,109	-21.17%	0	0	0.0%	10,158	13,276	-23.5%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	2,238	2,406	-6.98%	0	0	0.0%	10,406	11,597	-10.3%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	2,507	1,696	47.82%	0	0	0.0%	14,946	8,892	68.1%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	1,955	3,556	-45.02%	0	0	0.0%	9,985	10,783	-7.4%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	1,298	2,857	-54.6%
MXN/USD MONTHLY OPTIONS	0	0	0.0%	344	496	-30.65%	0	0	0.0%	1,138	3,306	-65.6%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	17	-100.00%	0	0	0.0%	0	17	-100.0%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MXN/USD WKLY FRIDAY OPTI	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NZD/USD MONTHLY OPTIONS	0	0	0.0%	3	421	-99.29%	0	0	0.0%	65	481	-86.5%
NZD/USD WKLY FRIDAY OPTIO	0	-	-	1	-		0	-	-	2	-	-
NZD/USD WKLY FRIDAY OPTIO	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
PY/USD THURSDAY WKLY OPT	0	-	-	0	-		0	-	-	47	-	-
PY/USD TUESDAY WKLY OPT	0	-	-	197	-		0	-	-	855	-	-
RUB/USD MONTHLY OPTIONS	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ZAR/USD MONTHLY OPTIONS	0	-	-	0	-		0	-	-	0	-	-
<b>Ags Futures</b>												
FERTILIZER PRODUCS	0	0	0.0%	2	0	0.00%	0	0	0.0%	4	2	100.0%
<b>Ag Products Futures</b>												
BLOCK CHEESE	0	0	0.0%	205	195	5.13%	0	0	0.0%	1,183	1,042	13.5%
BUTTER CS	0	0	0.0%	2,753	3,543	-22.30%	0	0	0.0%	12,768	18,534	-31.1%
CASH-SETTLED CHEESE	0	0	0.0%	12,708	7,523	68.92%	0	0	0.0%	47,797	35,969	32.9%
CAT ASIA WEATHER	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
CATTLE	0	0	0.0%	1,043,966	1,013,251	3.03%	0	0	0.0%	5,139,293	5,078,463	1.2%
CAT WEATHER EUROPEAN	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
CDD SEASONAL STRIP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2023	Open Outcry APR 2022	% CHG	ELEC APR 2023	ELEC APR 2022	% CHG	Open Outcry Y.T.D 2023	Open Outcry Y.T.D 2022	% CHG	ELEC Y.T.D 2023	ELEC Y.T.D 2022	% CHG
<b>Ag Products Futures</b>												
CDD WEATHER	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CHI WHEAT	0	0	0.0%	2,781,320	1,766,914	57.41%	0	0	0.0%	9,452,810	9,725,990	-2.8%
CLASS IV MILK	0	0	0.0%	356	1,464	-75.68%	0	0	0.0%	1,909	9,429	-79.8%
COFFEE	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
CORN	0	0	0.0%	6,931,909	6,869,120	0.91%	0	0	0.0%	26,425,596	28,776,451	-8.2%
DJ_UBS ROLL SELECT INDEX	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
DOW-UBS COMMOD INDEX	0	0	0.0%	13,271	17,852	-25.66%	0	0	0.0%	119,661	191,875	-37.6%
DOW-UBS COMMOD INDEX SW	0	-	-	0	-		0	-	-	0	-	-
DRY WHEY	0	0	0.0%	1,540	1,028	49.81%	0	0	0.0%	4,717	3,934	19.9%
FEEDER CATTLE	0	0	0.0%	366,612	282,185	29.92%	0	0	0.0%	1,380,557	1,091,656	26.5%
FERTILIZER PRODUCS	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
GOLDMAN SACHS	0	0	0.0%	1,821	2,501	-27.19%	0	0	0.0%	7,253	12,903	-43.8%
GSCI EXCESS RETURN FUT	0	0	0.0%	0	0	0.00%	0	0	0.0%	23	0	0.0%
HDD EURO SEASONAL STRIP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HDD SEASONAL STRIP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HDD WEATHER	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HDD WEATHER EUROPEAN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HOGS	0	0	0.0%	779,277	733,783	6.20%	0	0	0.0%	3,978,515	3,827,747	3.9%
HOUSING INDEX	0	0	0.0%	11	3	266.67%	0	0	0.0%	64	45	42.2%
KC WHEAT	0	0	0.0%	1,038,906	753,855	37.81%	0	0	0.0%	3,742,559	4,053,917	-7.7%
LUMBER	0	0	0.0%	13,607	6,825	99.37%	0	0	0.0%	51,889	32,816	58.1%
MALAYSIAN PALM SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MILK	0	0	0.0%	25,393	27,453	-7.50%	0	0	0.0%	104,351	121,472	-14.1%
MINI CORN	0	0	0.0%	23,096	53,492	-56.82%	0	0	0.0%	93,456	279,503	-66.6%
MINI SOYBEAN	0	0	0.0%	30,707	40,890	-24.90%	0	0	0.0%	145,064	276,295	-47.5%
MINI WHEAT	0	0	0.0%	21,987	16,391	34.14%	0	0	0.0%	89,659	119,770	-25.1%
MLK MID OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NFD MILK	0	0	0.0%	3,813	6,177	-38.27%	0	0	0.0%	21,404	28,126	-23.9%
OATS	0	0	0.0%	15,367	8,388	83.20%	0	0	0.0%	48,409	39,293	23.2%
OTC SP GSCI ER SWAP	0	-	-	0	-		0	-	-	0	-	-
PACIFIC RIM DAT SS WTHR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PORK CUTOUT	0	0	0.0%	1,811	1,716	5.54%	0	0	0.0%	5,354	10,029	-46.6%
ROUGH RICE	0	0	0.0%	19,246	24,859	-22.58%	0	0	0.0%	69,893	76,692	-8.9%
SOYBEAN	0	0	0.0%	4,956,573	3,908,572	26.81%	0	0	0.0%	19,018,868	17,671,457	7.6%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2023	Open Outcry APR 2022	% CHG	ELEC APR 2023	ELEC APR 2022	% CHG	Open Outcry Y.T.D 2023	Open Outcry Y.T.D 2022	% CHG	ELEC Y.T.D 2023	ELEC Y.T.D 2022	% CHG
<b>Ag Products Futures</b>												
SOYBEAN MEAL	0	0	0.0%	2,697,120	2,005,618	34.48%	0	0	0.0%	10,335,299	8,686,318	19.0%
SOYBEAN OIL	0	0	0.0%	2,685,997	2,204,107	21.86%	0	0	0.0%	11,000,800	8,993,123	22.3%
S&P GSCI ENHANCED ER SWA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
USD CRUDE PALM OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
WHEAT	0	0	0.0%	0	56	-100.00%	0	0	0.0%	20	5,956	-99.7%
<b>Ag Products Options</b>												
AUG-NOV SOYBEAN CAL SPR	0	-	-	0	-		0	-	-	0	-	-
BLOCK CHEESE	0	0	0.0%	199	253	-21.34%	0	0	0.0%	707	863	-18.1%
BUTTER CS	0	0	0.0%	1,959	780	151.15%	0	0	0.0%	7,246	4,706	54.0%
CASH-SETTLED CHEESE	0	0	0.0%	5,230	2,621	99.54%	0	0	0.0%	19,810	28,078	-29.4%
CATTLE	0	0	0.0%	263,854	255,626	3.22%	0	0	0.0%	1,062,327	866,136	22.7%
CDD SEASONAL STRIP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CDD WEATHER	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CHI WHEAT	0	0	0.0%	471,520	346,725	35.99%	0	0	0.0%	2,284,135	2,553,526	-10.5%
CLASS IV MILK	0	0	0.0%	3,124	5,843	-46.53%	0	0	0.0%	23,034	26,352	-12.6%
CORN	0	0	0.0%	2,040,501	2,786,220	-26.76%	0	0	0.0%	7,473,259	10,690,792	-30.1%
CORN NEARBY+2 CAL SPRD	0	0	0.0%	54,528	21,928	148.67%	0	0	0.0%	117,375	114,799	2.2%
DEC-DEC CORN CAL SPRD	0	0	0.0%	400	0	0.00%	0	0	0.0%	400	0	0.0%
DEC-JULY CORN CAL SPRD	0	0	0.0%	3,945	1,040	279.33%	0	0	0.0%	4,055	3,340	21.4%
DEC-JULY WHEAT CAL SPRD	0	-	-	50	-		0	-	-	270	-	-
DRY WHEY	0	0	0.0%	10	22	-54.55%	0	0	0.0%	73	2,089	-96.5%
FEEDER CATTLE	0	0	0.0%	49,329	40,294	22.42%	0	0	0.0%	230,050	142,680	61.2%
HDD EURO SEASONAL STRIP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HDD SEASONAL STRIP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HDD WEATHER	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HDD WEATHER EUROPEAN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HOGS	0	0	0.0%	202,067	171,292	17.97%	0	0	0.0%	1,050,361	948,413	10.7%
Intercommodity Spread	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
JAN-MAY SOYBEAN CAL SPRD	0	-	-	0	-		0	-	-	0	-	-
JULY-DEC CORN CAL SPRD	0	0	0.0%	17,386	8,707	99.68%	0	0	0.0%	44,558	38,844	14.7%
JULY-DEC SOYMEAL CAL SPR	0	-	-	970	-		0	-	-	1,760	-	-

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2023	Open Outcry APR 2022	% CHG	ELEC APR 2023	ELEC APR 2022	% CHG	Open Outcry Y.T.D 2023	Open Outcry Y.T.D 2022	% CHG	ELEC Y.T.D 2023	ELEC Y.T.D 2022	% CHG
<b>Ag Products Options</b>												
JULY-DEC SOY OIL CAL SPRD	0	0	0.0%	350	0	0.00%	0	0	0.0%	2,060	0	0.0%
JULY-DEC WHEAT CAL SPRD	0	0	0.0%	0	200	-100.00%	0	0	0.0%	0	3,200	-100.0%
JULY-JULY WHEAT CAL SPRD	0	0	0.0%	0	0	0.00%	0	0	0.0%	10	1	900.0%
JULY-NOV SOYBEAN CAL SPR	0	0	0.0%	12,812	10,241	25.10%	0	0	0.0%	48,523	24,210	100.4%
KC WHEAT	0	0	0.0%	75,293	55,047	36.78%	0	0	0.0%	252,034	323,891	-22.2%
LUMBER	0	0	0.0%	127	491	-74.13%	0	0	0.0%	881	2,220	-60.3%
LV CATL CSO	0	-	-	0	-		0	-	-	30	-	-
MAR-DEC CORN CAL SPRD	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
MAR-JULY CORN CAL SPRD	0	0	0.0%	0	0	0.00%	0	0	0.0%	9,631	9,575	0.6%
MAR-JULY SOYBEAN CAL SPR	0	0	0.0%	0	0	0.00%	0	0	0.0%	30	0	0.0%
MAR-JULY WHEAT CAL SPRD	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	150	-100.0%
MILK	0	0	0.0%	17,116	18,269	-6.31%	0	0	0.0%	85,935	75,866	13.3%
MLK MID OPTIONS	0	0	0.0%	1	6	-83.33%	0	0	0.0%	12	43	-72.1%
NFD MILK	0	0	0.0%	3,108	3,881	-19.92%	0	0	0.0%	14,952	16,532	-9.6%
NOV-JULY SOYBEAN CAL SPR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	600	-100.0%
NOV-MAR SOYBEAN CSO	0	0	0.0%	0	0	0.00%	0	0	0.0%	15	0	0.0%
OATS	0	0	0.0%	31	170	-81.76%	0	0	0.0%	466	1,022	-54.4%
PORK CUTOUT	0	0	0.0%	5	5	0.00%	0	0	0.0%	7	35	-80.0%
ROUGH RICE	0	0	0.0%	1,084	2,282	-52.50%	0	0	0.0%	7,060	5,576	26.6%
SEP-DEC SOYBEAN MEAL CSC	0	-	-	0	-		0	-	-	0	-	-
SOYBEAN	0	0	0.0%	1,362,506	1,284,289	6.09%	0	0	0.0%	5,086,553	7,114,092	-28.5%
SOYBEAN CRUSH	0	0	0.0%	0	55	-100.00%	0	0	0.0%	5	96	-94.8%
SOYBEAN MEAL	0	0	0.0%	299,449	172,684	73.41%	0	0	0.0%	1,372,213	1,048,294	30.9%
SOYBEAN OIL	0	0	0.0%	206,465	261,426	-21.02%	0	0	0.0%	963,427	1,006,008	-4.2%
SOYBN NEARBY+2 CAL SPRD	0	0	0.0%	479	9,013	-94.69%	0	0	0.0%	8,460	18,203	-53.5%
SOYMEAL NEARBY+2 CAL SPR	0	0	0.0%	0	400	-100.00%	0	0	0.0%	2,230	1,100	102.7%
SOY OIL NEARBY+2 CAL SPRD	0	-	-	0	-		0	-	-	175	-	-
WHEAT	0	0	0.0%	2,745	0	0.00%	0	0	0.0%	8,817	805	995.3%
WHEAT-CORN ICSO	0	0	0.0%	0	0	0.00%	0	0	0.0%	205	1,020	-79.9%
WHEAT NEARBY+2 CAL SPRD	0	0	0.0%	120	1,915	-93.73%	0	0	0.0%	3,585	24,648	-85.5%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2023	Open Outcry APR 2022	% CHG	ELEC APR 2023	ELEC APR 2022	% CHG	Open Outcry Y.T.D 2023	Open Outcry Y.T.D 2022	% CHG	ELEC Y.T.D 2023	ELEC Y.T.D 2022	% CHG
<b>TOTAL FUTURES GROUP</b>												
Interest Rate Futures	412,901	566,742	-27.1%	122,365,331	150,098,235	-18.5%	3,882,733	3,206,701	21.1%	758,464,548	739,097,613	2.6%
Equity Index Futures	0	0	0.0%	86,123,698	109,947,338	-21.7%	0	0	0.0%	452,752,889	524,822,966	-13.7%
Metals Futures	0	0	0.0%	9,971,191	8,055,533	23.8%	0	0	0.0%	44,089,555	39,739,176	10.9%
Energy Futures	0	0	0.0%	31,961,219	32,789,509	-2.5%	0	0	0.0%	138,089,673	163,546,946	-15.6%
FX Futures	0	0	0.0%	13,731,048	14,987,596	-8.4%	0	0	0.0%	70,414,047	67,533,064	4.3%
Ags Futures	0	0	0.0%	2	0	0.0%	0	0	0.0%	4	2	100.0%
Ag Products Futures	0	0	0.0%	23,469,372	19,757,761	18.8%	0	0	0.0%	91,299,171	89,168,805	2.4%
<b>TOTAL FUTURES</b>	<b>412,901</b>	<b>566,742</b>	<b>-27.1%</b>	<b>287,621,861</b>	<b>335,635,972</b>	<b>-14.3%</b>	<b>3,882,733</b>	<b>3,206,701</b>	<b>21.1%</b>	<b>1,555,109,887</b>	<b>1,623,908,572</b>	<b>-4.2%</b>
<b>TOTAL OPTIONS GROUP</b>												
Equity Index Options	0	0	0.0%	19,378,699	20,652,004	-6.2%	0	0	0.0%	97,737,869	90,757,309	7.7%
Interest Rate Options	19,468,449	11,984,324	62.4%	26,245,602	22,701,670	15.6%	116,628,996	73,223,392	59.3%	147,789,772	119,100,967	24.1%
Metals Options	0	0	0.0%	1,360,261	1,030,402	32.0%	0	0	0.0%	6,172,742	4,810,121	28.3%
Energy Options	0	0	0.0%	3,393,822	2,885,696	17.6%	0	0	0.0%	12,716,810	14,149,805	-10.1%
FX Options	0	0	0.0%	512,160	893,093	-42.7%	0	0	0.0%	2,781,622	3,156,144	-11.9%
Ag Products Options	0	0	0.0%	5,096,763	5,461,725	-6.7%	0	0	0.0%	20,186,736	25,097,805	-19.6%
<b>TOTAL OPTIONS</b>	<b>19,468,449</b>	<b>11,984,324</b>	<b>62.4%</b>	<b>55,987,307</b>	<b>53,624,590</b>	<b>4.4%</b>	<b>116,628,996</b>	<b>73,223,392</b>	<b>59.3%</b>	<b>287,385,551</b>	<b>257,072,151</b>	<b>11.8%</b>
<b>TOTAL COMBINED</b>												
Interest Rate	19,881,350	12,551,066	58.4%	148,610,933	172,799,905	-14.0%	120,511,729	76,430,093	57.7%	906,254,320	858,198,580	5.6%
Equity Index	0	0	0.0%	105,502,397	130,599,342	-19.2%	0	0	0.0%	550,490,758	615,580,275	-10.6%
Metals	0	0	0.0%	11,331,452	9,085,935	24.7%	0	0	0.0%	50,262,297	44,549,297	12.8%
Energy	0	0	0.0%	35,355,041	35,675,205	-0.9%	0	0	0.0%	150,806,483	177,696,751	-15.1%
FX	0	0	0.0%	14,243,208	15,880,689	-10.3%	0	0	0.0%	73,195,669	70,689,208	3.5%
Ags	0	0	0.0%	2	0	0.0%	0	0	0.0%	4	2	100.0%
Ag Products	0	0	0.0%	28,566,135	25,219,486	13.3%	0	0	0.0%	111,485,907	114,266,610	-2.4%
<b>GRAND TOTAL</b>	<b>19,881,350</b>	<b>12,551,066</b>	<b>58.4%</b>	<b>343,609,168</b>	<b>389,260,562</b>	<b>-11.7%</b>	<b>120,511,729</b>	<b>76,430,093</b>	<b>57.7%</b>	<b>1,842,495,438</b>	<b>1,880,980,723</b>	<b>-2.0%</b>

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