



## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2023	Open Outcry OCT 2022	% CHG	ELEC OCT 2023	ELEC OCT 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	2,093	-100.00%	0	0	0.0%	4,082	44,156	-90.8%
10-YR Eris SOFR	0	0	0.0%	2,701	14	19,192.86%	0	0	0.0%	20,133	763	2,538.7%
10-YR MAC LIBOR	0	0	0.0%	0	5,087	-100.00%	0	0	0.0%	27,311	150,656	-81.9%
10-YR MAC SOFR	0	0	0.0%	0	2	-100.00%	0	0	0.0%	18	2	800.0%
10-YR NOTE	0	0	0.0%	41,679,622	33,390,372	24.83%	0	0	0.0%	390,514,998	379,469,102	2.9%
10Y YIELD	0	0	0.0%	199,562	113,109	76.43%	0	0	0.0%	1,034,577	1,029,433	0.5%
13-Week U.S. T-Bill Futures	0	-	-	18,660	-	-	0	-	-	18,660	-	-
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	48	-100.00%	0	0	0.0%	6	337	-98.2%
1-YR Eris BSBY	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	1,600	-100.0%
1-YR Eris SOFR	0	0	0.0%	0	731	-100.00%	0	0	0.0%	27,097	201,416	-86.5%
20-YR BOND	0	0	0.0%	166	1,846	-91.01%	0	0	0.0%	3,837	32,128	-88.1%
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	689	-100.00%	0	0	0.0%	4,517	80,874	-94.4%
2-YR Eris SOFR	0	0	0.0%	2,497	2,938	-15.01%	0	0	0.0%	31,194	94,977	-67.2%
2-YR NOTE	0	0	0.0%	13,863,808	9,629,879	43.97%	0	0	0.0%	147,089,923	131,346,523	12.0%
2Y YIELD	0	0	0.0%	3,870	9,623	-59.78%	0	0	0.0%	62,777	79,680	-21.2%
30-Year UMBS TBA Futures - 2.5	0	-	-	0	-	-	0	-	-	1,005	-	-
30-Year UMBS TBA Futures - 3.0	0	-	-	201	-	-	0	-	-	3,778	-	-
30-Year UMBS TBA Futures - 3.5	0	-	-	609	-	-	0	-	-	4,721	-	-
30-Year UMBS TBA Futures - 4.0	0	-	-	974	-	-	0	-	-	6,072	-	-
30-Year UMBS TBA Futures - 4.5	0	-	-	2,015	-	-	0	-	-	12,171	-	-
30-Year UMBS TBA Futures - 5.0	0	-	-	1,448	-	-	0	-	-	13,994	-	-
30-Year UMBS TBA Futures - 5.5	0	-	-	2,058	-	-	0	-	-	11,281	-	-
30-Year UMBS TBA Futures - 6.0	0	-	-	1,848	-	-	0	-	-	8,991	-	-
30-YR BOND	0	0	0.0%	11,644,160	6,680,687	74.30%	0	0	0.0%	85,376,893	79,632,358	7.2%
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%
30-YR SWAP RATE	0	-	-	0	-	-	0	-	-	0	-	-
30Y YIELD	0	0	0.0%	2,277	11,210	-79.69%	0	0	0.0%	11,260	101,711	-88.9%
3-YR Eris BSBY	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	4	-100.0%
3-YR Eris LIBOR	0	0	0.0%	0	370	-100.00%	0	0	0.0%	3,771	51,821	-92.7%
3-YR Eris SOFR	0	0	0.0%	1,158	4,926	-76.49%	0	0	0.0%	20,057	33,765	-40.6%

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<b>Interest Rate Futures</b>												
3-YR NOTE	0	0	0.0%	132,417	235,977	-43.89%	0	0	0.0%	1,190,786	3,349,032	-64.4%
4-YR Eris LIBOR	0	0	0.0%	0	170	-100.00%	0	0	0.0%	1,140	30,338	-96.2%
4-YR Eris SOFR	0	0	0.0%	982	1,007	-2.48%	0	0	0.0%	7,850	6,491	20.9%
5-YR Eris LIBOR	0	0	0.0%	0	10,517	-100.00%	0	0	0.0%	21,264	223,107	-90.5%
5-YR Eris SOFR	0	0	0.0%	11,017	1,111	891.63%	0	0	0.0%	90,047	21,363	321.5%
5-YR MAC LIBOR	0	0	0.0%	0	53,810	-100.00%	0	0	0.0%	39,600	347,166	-88.6%
5-YR MAC SOFR	0	-	-	0	-	-	0	-	-	92	-	-
5-YR NOTE	0	0	0.0%	27,782,419	21,426,272	29.67%	0	0	0.0%	292,940,905	263,441,998	11.2%
5Y YIELD	0	0	0.0%	10	578	-98.27%	0	0	0.0%	969	21,839	-95.6%
7-YR Eris LIBOR	0	0	0.0%	0	1,643	-100.00%	0	0	0.0%	2,242	25,156	-91.1%
7-YR Eris SOFR	0	0	0.0%	820	69	1,088.41%	0	0	0.0%	7,916	380	1,983.2%
BSBY 3-MONTH FUTURES	0	0	0.0%	233	25,525	-99.09%	0	0	0.0%	32,037	539,248	-94.1%
ESTR Basis Spread Futures	0	0	0.0%	1,159	41	2,726.83%	0	0	0.0%	13,767	41	33,478.0%
ESTR Futures	0	0	0.0%	259,960	11	2,363,172.73%	0	0	0.0%	1,056,833	11	9,607,472.7%
EURODOLLARS	0	632,652	-100.0%	0	17,085,381	-100.00%	258,492	7,464,581	-96.5%	27,895,109	356,446,490	-92.2%
FED FUND	0	0	0.0%	8,912,961	6,427,977	38.66%	0	0	0.0%	95,967,388	71,747,874	33.8%
FTIE	0	0	0.0%	0	35	-100.00%	0	0	0.0%	1,774	916	93.7%
SOFR	411,048	231,401	77.6%	68,829,366	40,807,557	68.67%	6,279,205	1,025,635	512.2%	678,861,662	346,697,454	95.8%
SONIA	0	0	0.0%	108	0	0.00%	0	0	0.0%	365	1,293	-71.8%
UBSBM	0	-	-	910	-	-	0	-	-	1,350	-	-
Ultra 10-Year Note	0	0	0.0%	10,905,417	6,802,784	60.31%	0	0	0.0%	94,167,415	77,009,648	22.3%
ULTRA T-BOND	0	0	0.0%	6,613,583	3,597,455	83.84%	0	0	0.0%	56,570,090	45,585,102	24.1%

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<b>Interest Rate Options</b>												
10-YR NOTE	0	0	0.0%	18,886,463	13,354,341	41.43%	0	0	0.0%	142,669,774	134,980,487	5.7%
2-YR NOTE	0	0	0.0%	779,944	215,044	262.69%	0	0	0.0%	4,813,377	808,051	495.7%
30-YR BOND	0	0	0.0%	4,583,799	2,390,931	91.72%	0	0	0.0%	28,716,087	24,835,273	15.6%
5-YR NOTE	0	0	0.0%	5,703,587	4,591,026	24.23%	0	0	0.0%	59,857,405	50,277,439	19.1%
EURODOLLARS	0	4,159,347	-100.0%	0	6,796,048	-100.00%	1,894,920	75,391,175	-97.5%	7,456,246	39,586,899	-81.2%
EURO MIDCURVE	0	723,808	-100.0%	0	377,028	-100.00%	396,228	40,973,885	-99.0%	201,525	21,262,186	-99.1%
FED FUND	0	0	0.0%	0	4,000	-100.00%	0	0	0.0%	4	4,045	-99.9%
SOFR	13,913,896	9,044,344	53.8%	8,693,730	3,415,804	154.51%	181,653,060	35,524,629	411.3%	81,374,157	13,173,744	517.7%
SOFR MIDCURVE	4,656,055	2,226,563	109.1%	2,605,943	1,023,941	154.50%	43,733,397	10,516,524	315.9%	18,198,258	4,045,826	349.8%
SOFR MISCURVE	0	-	-	0	-	-	0	-	-	700	-	-
Ultra 10-Year Note	0	0	0.0%	31,838	75	42,350.67%	0	0	0.0%	39,797	826	4,718.0%
ULTRA T-BOND	0	0	0.0%	25,637	1,693	1,414.29%	0	0	0.0%	61,338	23,448	161.6%
<b>Equity Index Futures</b>												
BITCOIN	0	0	0.0%	274,084	266,286	2.93%	0	0	0.0%	2,132,204	2,129,293	0.1%
DJ US REAL ESTATE SECTOR	0	0	0.0%	22,498	35,903	-37.34%	0	0	0.0%	310,331	355,347	-12.7%
E-mini (\$5) Dow	0	0	0.0%	4,609,718	4,197,769	9.81%	0	0	0.0%	36,855,961	42,851,287	-14.0%
E-mini FTSE China 50	0	0	0.0%	0	116	-100.00%	0	0	0.0%	44	7,122	-99.4%
E-MINI MIDCAP	0	0	0.0%	279,006	291,192	-4.18%	0	0	0.0%	2,749,319	3,325,621	-17.3%
E-MINI NASDAQ 100	0	0	0.0%	16,834,566	15,974,485	5.38%	0	0	0.0%	141,036,450	148,974,499	-5.3%
E-MINI RUSSELL 1000	0	0	0.0%	2,179	1,613	35.09%	0	0	0.0%	25,775	30,269	-14.8%
E-MINI RUSSELL 1000 GROWT	0	0	0.0%	1,427	2,729	-47.71%	0	0	0.0%	24,623	46,624	-47.2%
E-MINI RUSSELL 1000 VALUE	0	0	0.0%	2,179	2,337	-6.76%	0	0	0.0%	46,306	78,757	-41.2%
E-MINI RUSSELL 2000	0	0	0.0%	5,106,169	5,141,662	-0.69%	0	0	0.0%	45,568,794	50,599,453	-9.9%
E-MINI S&P500	0	0	0.0%	43,705,074	47,784,324	-8.54%	0	0	0.0%	379,123,429	421,493,030	-10.1%
E-MINI S&P500 ESG	0	0	0.0%	16,281	26,163	-37.77%	0	0	0.0%	187,942	260,397	-27.8%
ETHER	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	7	-100.0%
ETHER FUTURES	0	0	0.0%	119,750	131,553	-8.97%	0	0	0.0%	1,011,150	1,321,417	-23.5%
FT-SE 100	0	0	0.0%	90	145	-37.93%	0	0	0.0%	841	1,524	-44.8%
FTSE Emerging	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
IBOVESPA INDEX	0	0	0.0%	29	52	-44.23%	0	0	0.0%	327	581	-43.7%

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<b>Equity Index Futures</b>												
MICRO BITCOIN	0	0	0.0%	253,607	218,951	15.83%	0	0	0.0%	2,029,147	3,220,940	-37.0%
MICRO E-MINI NASDAQ 100	0	0	0.0%	31,254,193	31,704,461	-1.42%	0	0	0.0%	232,872,867	315,858,218	-26.3%
MICRO E-MINI RUSSELL 2000	0	0	0.0%	1,724,173	2,931,274	-41.18%	0	0	0.0%	16,032,820	28,854,544	-44.4%
MICRO E-MINI S&P500	0	0	0.0%	25,500,127	33,300,874	-23.43%	0	0	0.0%	217,747,972	290,713,102	-25.1%
MICRO ETHER	0	0	0.0%	228,921	329,615	-30.55%	0	0	0.0%	1,783,990	4,251,026	-58.0%
MICRO MINI \$5 DOW	0	0	0.0%	2,532,108	3,671,649	-31.04%	0	0	0.0%	22,677,379	38,801,024	-41.6%
NASDAQ-100 VOLATILITY	0	0	0.0%	0	70	-100.00%	0	0	0.0%	3,203	18,519	-82.7%
NASDAQ BIOTECH SECTOR	0	0	0.0%	5	202	-97.52%	0	0	0.0%	1,194	2,160	-44.7%
Nearby BTIC+	0	0	0.0%	0	750	-100.00%	0	0	0.0%	0	5,200	-100.0%
NIKKEI 225 (\$) STOCK	0	0	0.0%	185,314	100,356	84.66%	0	0	0.0%	1,426,287	1,173,271	21.6%
NIKKEI 225 (YEN) STOCK	0	0	0.0%	848,669	759,153	11.79%	0	0	0.0%	6,490,532	7,913,855	-18.0%
PHLX SEMICONDUCTOR SECT	0	0	0.0%	25	829	-96.98%	0	0	0.0%	2,168	1,463	48.2%
S&P 500	0	0	0.0%	2,284	4,003	-42.94%	0	0	0.0%	26,067	5,846	345.9%
S&P 500 ANNUAL DIVIDEND IN	0	0	0.0%	47,168	30,538	54.46%	0	0	0.0%	358,018	287,156	24.7%
S&P 500 QUARLY DIVIDEND IN	0	0	0.0%	5,296	2,889	83.32%	0	0	0.0%	93,433	18,228	412.6%
S&P 600 SMALLCAP EMINI	0	-	-	129	-	-	0	-	-	505	-	-
S&P BIOTECHNOLOGY SECTO	0	0	0.0%	718	934	-23.13%	0	0	0.0%	5,606	8,141	-31.1%
S&P COMMUNICATION SERVIC	0	0	0.0%	2,560	3,037	-15.71%	0	0	0.0%	37,733	34,593	9.1%
S&P CONSUMER DISCRETION	0	0	0.0%	5,558	6,711	-17.18%	0	0	0.0%	55,167	71,958	-23.3%
S&P CONSUMER STAPLES SE	0	0	0.0%	10,643	13,696	-22.29%	0	0	0.0%	172,786	173,599	-0.5%
S&P ENERGY SECTOR	0	0	0.0%	20,696	30,772	-32.74%	0	0	0.0%	242,244	456,266	-46.9%
S&P FINANCIAL SECTOR	0	0	0.0%	10,377	15,009	-30.86%	0	0	0.0%	211,572	242,746	-12.8%
S&P HEALTH CARE SECTOR	0	0	0.0%	7,634	9,387	-18.67%	0	0	0.0%	127,114	182,317	-30.3%
S&P INDUSTRIAL SECTOR	0	0	0.0%	7,493	10,630	-29.51%	0	0	0.0%	112,299	133,432	-15.8%
S&P MATERIALS SECTOR	0	0	0.0%	4,514	7,209	-37.38%	0	0	0.0%	79,239	85,266	-7.1%
S&P OIL & GAS EXPLORATION	0	0	0.0%	183	494	-62.96%	0	0	0.0%	1,776	4,319	-58.9%
S&P REAL ESTATE SECTOR	0	0	0.0%	2,834	3,272	-13.39%	0	0	0.0%	60,635	42,553	42.5%
S&P REGIONAL BANKS SECTO	0	0	0.0%	456	472	-3.39%	0	0	0.0%	7,649	2,039	275.1%
S&P RETAIL SECTOR	0	0	0.0%	174	180	-3.33%	0	0	0.0%	2,203	2,839	-22.4%
S&P TECHNOLOGY SECTOR	0	0	0.0%	6,162	25,028	-75.38%	0	0	0.0%	107,967	213,864	-49.5%
S&P UTILITIES SECTOR	0	0	0.0%	17,612	14,092	24.98%	0	0	0.0%	178,794	177,997	0.4%
S&P VALUE INDEX FUTURES	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
TOPIX (USD)	0	-	-	60	-	-	0	-	-	826	-	-
TOPIX (YEN)	0	0	0.0%	661	39	1,594.87%	0	0	0.0%	2,899	19,805	-85.4%

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<b>Equity Index Futures</b>												
WATER INDEX FUTURES	0	0	0.0%	21	0	0.00%	0	0	0.0%	149	592	-74.8%
<b>Equity Index Options</b>												
BITCOIN OPTIONS	0	0	0.0%	3,645	1,760	107.10%	0	0	0.0%	27,590	14,669	88.1%
DJIA	0	0	0.0%	1,795	3,079	-41.70%	0	0	0.0%	62,279	4,971	1,152.8%
E-mini (\$5) Dow	0	0	0.0%	514	2,616	-80.35%	0	0	0.0%	6,151	21,868	-71.9%
E-MINI NASDAQ 100	0	0	0.0%	1,695,394	1,059,100	60.08%	0	0	0.0%	13,858,653	10,071,589	37.6%
E-MINI RUSSELL 2000	0	0	0.0%	159,519	125,909	26.69%	0	0	0.0%	1,384,479	1,357,267	2.0%
E-MINI S&P500	0	0	0.0%	37,407,989	27,409,553	36.48%	0	0	0.0%	255,575,268	223,136,795	14.5%
EOM S&P 500	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ETHER OPTIONS	0	0	0.0%	3,942	296	1,231.76%	0	0	0.0%	15,178	394	3,752.3%
EVENT CONTRACT S&P 500	0	-	-	11,674	-		0	-	-	65,815	-	-
MICRO BITCOIN	0	0	0.0%	17,078	7,057	142.00%	0	0	0.0%	112,246	71,017	58.1%
MICRO E-MINI NASDAQ 100	0	0	0.0%	70,643	47,091	50.01%	0	0	0.0%	573,935	545,862	5.1%
Micro E-mini S&P 500	0	0	0.0%	399,532	221,386	80.47%	0	0	0.0%	2,523,379	2,335,297	8.1%
MICRO ETHER	0	0	0.0%	43,416	39,574	9.71%	0	0	0.0%	200,187	242,189	-17.3%
S&P 500	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2023	Open Outcry OCT 2022	% CHG	ELEC OCT 2023	ELEC OCT 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%	129,434	52,849	144.91%	0	0	0.0%	869,070	324,097	168.2%
COBALT METAL FUTURES	0	0	0.0%	12	1	1,100.00%	0	0	0.0%	409	15	2,626.7%
COMEX COPPER	0	0	0.0%	1,973,408	1,808,044	9.15%	0	0	0.0%	21,001,201	17,581,755	19.4%
COMEX E-Mini GOLD	0	0	0.0%	24,868	45,577	-45.44%	0	0	0.0%	317,221	320,033	-0.9%
COMEX E-Mini SILVER	0	0	0.0%	7,088	4,378	61.90%	0	0	0.0%	58,836	38,364	53.4%
COMEX GOLD	0	0	0.0%	4,875,278	3,927,652	24.13%	0	0	0.0%	46,495,137	44,523,427	4.4%
COMEX MINY COPPER	0	0	0.0%	5,798	2,817	105.82%	0	0	0.0%	55,753	34,953	59.5%
COMEX SILVER	0	0	0.0%	1,415,093	1,322,197	7.03%	0	0	0.0%	14,816,892	13,865,778	6.9%
COPPER	0	0	0.0%	92,028	71,359	28.96%	0	0	0.0%	1,049,686	417,140	151.6%
FERROUS PRODUCTS	0	0	0.0%	485	281	72.60%	0	0	0.0%	4,067	3,949	3.0%
GOLD	0	0	0.0%	1,352	798	69.42%	0	0	0.0%	5,514	59,990	-90.8%
HOT ROLLED COIL STEEL FUT	0	0	0.0%	1,752	1,624	7.88%	0	0	0.0%	15,944	7,922	101.3%
IRON ORE CHINA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LITHIUM CARBONATE FUTURE	0	-	-	0	-		0	-	-	0	-	-
METALS	0	0	0.0%	10	35	-71.43%	0	0	0.0%	155	106	46.2%
MICRO GOLD	0	0	0.0%	1,455,202	941,893	54.50%	0	0	0.0%	13,802,313	10,680,912	29.2%
MOLYBDENUM OXIDE FUTURE	0	-	-	0	-		0	-	-	0	-	-
NYMEX HOT ROLLED STEEL	0	0	0.0%	11,580	6,331	82.91%	0	0	0.0%	94,559	51,249	84.5%
NYMEX PLATINUM	0	0	0.0%	490,570	404,976	21.14%	0	0	0.0%	4,770,193	4,100,292	16.3%
PALLADIUM	0	0	0.0%	78,920	38,634	104.28%	0	0	0.0%	660,881	434,468	52.1%
SILVER	0	0	0.0%	276,251	173,016	59.67%	0	0	0.0%	2,239,067	1,620,641	38.2%
URANIUM	0	0	0.0%	1	0	0.00%	0	0	0.0%	5	24	-79.2%

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<b>Metals Options</b>												
ALUMINUM	0	0	0.0%	1,192	237	402.95%	0	0	0.0%	9,360	455	1,957.1%
COMEX COPPER	0	0	0.0%	85,927	58,949	45.76%	0	0	0.0%	944,925	596,643	58.4%
COMEX GOLD	0	0	0.0%	1,353,002	652,453	107.37%	0	0	0.0%	9,125,324	7,261,476	25.7%
COMEX SILVER	0	0	0.0%	155,302	133,547	16.29%	0	0	0.0%	1,453,557	1,030,967	41.0%
COPPER	0	0	0.0%	13,043	4,062	221.10%	0	0	0.0%	89,803	18,481	385.9%
GOLD	0	0	0.0%	354,552	192,449	84.23%	0	0	0.0%	2,716,354	2,078,511	30.7%
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%	171	0	0.00%	0	0	0.0%	386	0	0.0%
NYMEX PLATINUM	0	0	0.0%	4,443	312	1,324.04%	0	0	0.0%	46,361	4,842	857.5%
PALLADIUM	0	0	0.0%	650	8	8,025.00%	0	0	0.0%	4,714	135	3,391.9%
SILVER	0	0	0.0%	52,257	29,381	77.86%	0	0	0.0%	397,421	192,478	106.5%
<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%	1,637,178	1,417,149	15.53%	0	0	0.0%	12,355,132	14,487,397	-14.7%
CAR VINTAGE	0	0	0.0%	11,857	5,264	125.25%	0	0	0.0%	97,273	60,413	61.0%
CEU ENERGY	0	-	-	177	-		0	-	-	337	-	-
CHICAGO ETHANOL SWAP	0	0	0.0%	156	175	-10.86%	0	0	0.0%	1,431	1,503	-4.8%
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	1	-100.00%	0	0	0.0%	0	75	-100.0%
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%

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## CME Group Exchange Volume Comparison Report - Monthly

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<b>Energy Futures</b>												
CRUDE OIL OUTRIGHTS	0	0	0.0%	508	190	167.37%	0	0	0.0%	3,190	190	1,578.9%
CRUDE OIL PHY	0	0	0.0%	20,931,614	16,151,786	29.59%	0	0	0.0%	190,501,899	197,119,752	-3.4%
CRUDE OIL SPRDS	0	0	0.0%	466	35	1,231.43%	0	0	0.0%	2,413	35	6,794.3%
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%	49,290	0	0.00%	0	0	0.0%	231,379	10,828	2,036.9%
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	12	-100.0%
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%	3,148	1,437	119.07%	0	0	0.0%	23,347	19,037	22.6%
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	0	0.00%	0	0	0.0%	0	0	0.0%
EURO GASOIL 10 CAL SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	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%	48	99	-51.52%	0	0	0.0%	341	2,505	-86.4%
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%

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<b>Energy Futures</b>												
FUELOIL SWAP:CARGOES VS.	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%
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%	0	0	0.00%	0	0	0.0%	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%	3,516,282	3,447,055	2.01%	0	0	0.0%	32,037,337	32,977,695	-2.9%
HENRY HUB SWAP	0	0	0.0%	0	162	-100.00%	0	0	0.0%	176	1,470	-88.0%
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%

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<b>Energy Futures</b>												
JKM LNG Futures	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
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%	292,171	243,614	19.93%	0	0	0.0%	2,525,841	2,402,861	5.1%
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%	484	265	82.64%	0	0	0.0%	3,124	6,259	-50.1%
MCCLOSKEY RCH BAY COAL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	140	-100.0%
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%	12	10	20.00%	0	0	0.0%	106	86	23.3%
MINY NATURAL GAS	0	0	0.0%	167,269	198,820	-15.87%	0	0	0.0%	2,230,084	3,085,527	-27.7%
MINY RBOB GAS	0	0	0.0%	10	7	42.86%	0	0	0.0%	92	90	2.2%
MINY WTI CRUDE OIL	0	0	0.0%	333,368	463,840	-28.13%	0	0	0.0%	3,132,760	6,121,343	-48.8%
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	0	0.00%	0	0	0.0%	0	310	-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%	99	198	-50.00%	0	0	0.0%	299	527	-43.3%
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	46	-100.00%	0	0	0.0%	19	221	-91.4%
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%	30	0	0.00%	0	0	0.0%	30	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%	77,139	32,982	133.88%	0	0	0.0%	637,308	429,033	48.5%
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%	9,060,985	6,296,137	43.91%	0	0	0.0%	81,642,987	70,186,789	16.3%
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%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2023	Open Outcry OCT 2022	% CHG	ELEC OCT 2023	ELEC OCT 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 ETHANOL SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
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%	31	0	0.00%	0	0	0.0%	210	72	191.7%
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%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2023	Open Outcry OCT 2022	% CHG	ELEC OCT 2023	ELEC OCT 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 CRACK SPREAD BALMO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
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%	3,147,727	2,883,787	9.15%	0	0	0.0%	35,108,626	33,842,348	3.7%
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%	0	0	0.00%	0	0	0.0%	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%	0	0	0.00%	0	0	0.0%	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	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 BULLET SWAP	0	-	-	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%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2023	Open Outcry OCT 2022	% CHG	ELEC OCT 2023	ELEC OCT 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%	1,619	3,598	-55.00%	0	0	0.0%	37,924	30,577	24.0%
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%	475	400	18.75%	0	0	0.0%	5,725	32,658	-82.5%
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	0	0.0%	5,693	4,173	36.42%	0	0	0.0%	64,816	5,601	1,057.2%
CRUDE OIL PHY	0	0	0.0%	3,417,883	1,554,271	119.90%	0	0	0.0%	22,632,017	20,132,583	12.4%
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%	874	2,129	-58.95%	0	0	0.0%	10,585	22,539	-53.0%
HENRY HUB FINANCIAL LAST	0	0	0.0%	226	3,243	-93.03%	0	0	0.0%	19,872	6,156	222.8%
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%	2,117	0	0.00%	0	0	0.0%	8,065	4,743	70.0%
NATURAL GAS 1 M CSO FIN	0	0	0.0%	10,200	550	1,754.55%	0	0	0.0%	47,957	6,250	667.3%
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%	0	0	0.00%	0	0	0.0%	79,265	800	9,808.1%
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%	2,449,083	857,883	185.48%	0	0	0.0%	16,114,057	9,925,221	62.4%
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%	22	226	-90.27%	0	0	0.0%	843	1,881	-55.2%
PETROCHEMICALS	0	0	0.0%	0	0	0.00%	0	0	0.0%	30	12	150.0%
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 OCT 2023	Open Outcry OCT 2022	% CHG	ELEC OCT 2023	ELEC OCT 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%	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 PHY	0	0	0.0%	136	187	-27.27%	0	0	0.0%	4,755	9,134	-47.9%
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%	100	1,875	-94.67%	0	0	0.0%	4,687	10,020	-53.2%
WTI CRUDE OIL 1 M CSO FI	0	0	0.0%	300	300	0.00%	0	0	0.0%	4,750	571	731.9%
<b>FX Futures</b>												
AD/CD CROSS RATES	0	0	0.0%	0	53	-100.00%	0	0	0.0%	170	519	-67.2%
AD/JY CROSS RATES	0	0	0.0%	1,747	3,643	-52.05%	0	0	0.0%	15,000	45,501	-67.0%
AD/NE CROSS RATES	0	0	0.0%	5,194	9,238	-43.78%	0	0	0.0%	33,911	38,932	-12.9%
AUSTRALIAN DOLLAR	0	0	0.0%	2,372,149	2,169,565	9.34%	0	0	0.0%	20,738,150	21,182,356	-2.1%
BP/JY CROSS RATES	0	0	0.0%	2,418	5,154	-53.08%	0	0	0.0%	21,551	45,838	-53.0%
BP/SF CROSS RATES	0	0	0.0%	3,330	3,161	5.35%	0	0	0.0%	21,472	21,883	-1.9%
BRAZIL REAL	0	0	0.0%	389,014	314,064	23.86%	0	0	0.0%	2,811,178	2,807,923	0.1%
BRITISH POUND	0	0	0.0%	2,166,033	3,078,112	-29.63%	0	0	0.0%	21,952,186	25,982,214	-15.5%
CANADIAN DOLLAR	0	0	0.0%	1,936,575	2,038,426	-5.00%	0	0	0.0%	17,574,059	19,026,305	-7.6%
CD/JY CROSS RATES	0	0	0.0%	45	71	-36.62%	0	0	0.0%	578	358	61.5%
CHILEAN PESO	0	0	0.0%	0	0	0.00%	0	0	0.0%	45	24	87.5%
CHINESE RENMINBI (CNH)	0	0	0.0%	51,417	45,898	12.02%	0	0	0.0%	313,835	299,033	4.9%
CZECK KORUNA (EC)	0	0	0.0%	0	0	0.00%	0	0	0.0%	6	19	-68.4%
CZECK KORUNA (US)	0	0	0.0%	7	2	250.00%	0	0	0.0%	42	28	50.0%
EC/AD CROSS RATES	0	0	0.0%	2,939	3,180	-7.58%	0	0	0.0%	53,018	57,201	-7.3%
EC/CD CROSS RATES	0	0	0.0%	1,805	4,679	-61.42%	0	0	0.0%	59,181	80,593	-26.6%
EC/NOK CROSS RATES	0	0	0.0%	1,115	421	164.85%	0	0	0.0%	11,107	18,709	-40.6%
EC/SEK CROSS RATES	0	0	0.0%	6,340	871	627.90%	0	0	0.0%	25,015	23,232	7.7%
EFX/BP CROSS RATES	0	0	0.0%	87,298	80,325	8.68%	0	0	0.0%	700,880	965,420	-27.4%
EFX/JY CROSS RATES	0	0	0.0%	47,115	30,495	54.50%	0	0	0.0%	497,852	551,698	-9.8%
EFX/SF CROSS RATES	0	0	0.0%	20,801	25,872	-19.60%	0	0	0.0%	229,177	400,583	-42.8%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2023	Open Outcry OCT 2022	% CHG	ELEC OCT 2023	ELEC OCT 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%	16	20	-20.00%	0	0	0.0%	1,085	1,838	-41.0%
E-MICRO USD/CHF	0	0	0.0%	70	32	118.75%	0	0	0.0%	1,389	739	88.0%
E-MICRO USD/JPY	0	0	0.0%	756	837	-9.68%	0	0	0.0%	34,585	151,161	-77.1%
E-MINI EURO FX	0	0	0.0%	100,319	161,440	-37.86%	0	0	0.0%	1,193,278	1,521,352	-21.6%
E-MINI JAPANESE YEN	0	0	0.0%	11,427	16,060	-28.85%	0	0	0.0%	121,181	121,696	-0.4%
EURO FX	0	0	0.0%	4,645,216	4,623,869	0.46%	0	0	0.0%	47,361,115	50,147,491	-5.6%
HUNGARIAN FORINT (EC)	0	0	0.0%	4	1	300.00%	0	0	0.0%	41	3	1,266.7%
HUNGARIAN FORINT (US)	0	0	0.0%	0	0	0.00%	0	0	0.0%	86	42	104.8%
INDIAN RUPEE	0	0	0.0%	13,294	39,230	-66.11%	0	0	0.0%	251,643	266,681	-5.6%
JAPANESE YEN	0	0	0.0%	3,662,698	3,648,629	0.39%	0	0	0.0%	35,885,847	32,759,084	9.5%
KOREAN WON	0	0	0.0%	324	492	-34.15%	0	0	0.0%	4,081	3,375	20.9%
MEXICAN PESO	0	0	0.0%	1,775,711	1,373,837	29.25%	0	0	0.0%	13,361,049	12,228,759	9.3%
MICRO AUD/USD	0	0	0.0%	319,612	289,867	10.26%	0	0	0.0%	2,758,686	2,644,276	4.3%
MICRO CAD/USD	0	0	0.0%	51,643	85,931	-39.90%	0	0	0.0%	517,834	613,635	-15.6%
MICRO CHF/USD	0	0	0.0%	14,895	16,673	-10.66%	0	0	0.0%	155,909	174,102	-10.4%
MICRO EUR/USD	0	0	0.0%	569,347	923,965	-38.38%	0	0	0.0%	6,122,820	7,922,863	-22.7%
MICRO GBP/USD	0	0	0.0%	69,986	234,107	-70.11%	0	0	0.0%	687,342	1,252,857	-45.1%
MICRO INR/USD	0	0	0.0%	270	621	-56.52%	0	0	0.0%	4,092	7,043	-41.9%
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%	710,127	737,969	-3.77%	0	0	0.0%	6,583,371	6,505,484	1.2%
NKR/USD CROSS RATE	0	0	0.0%	1,733	1,546	12.10%	0	0	0.0%	31,276	28,523	9.7%
POLISH ZLOTY (EC)	0	0	0.0%	12	2	500.00%	0	0	0.0%	549	1,213	-54.7%
POLISH ZLOTY (US)	0	0	0.0%	1,190	1,300	-8.46%	0	0	0.0%	11,579	13,523	-14.4%
RMB USD	0	0	0.0%	0	0	0.00%	0	0	0.0%	5	29	-82.8%
RUSSIAN RUBLE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	576,766	-100.0%
S.AFRICAN RAND	0	0	0.0%	85,043	78,941	7.73%	0	0	0.0%	802,618	906,652	-11.5%
SF/JY CROSS RATES	0	0	0.0%	643	447	43.85%	0	0	0.0%	5,569	5,596	-0.5%
SHEKEL	0	0	0.0%	140	1	13,900.00%	0	0	0.0%	1,343	147	813.6%
SKR/USD CROSS RATES	0	0	0.0%	3,621	4,185	-13.48%	0	0	0.0%	45,872	62,996	-27.2%
SWISS FRANC	0	0	0.0%	496,983	456,997	8.75%	0	0	0.0%	4,562,888	5,461,918	-16.5%
TURKISH LIRA	0	0	0.0%	0	24	-100.00%	0	0	0.0%	20	26	-23.1%
USDZAR	0	0	0.0%	85	0	0.00%	0	0	0.0%	200	31	545.2%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2023	Open Outcry OCT 2022	% CHG	ELEC OCT 2023	ELEC OCT 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%	96	5	1,820.00%	0	0	0.0%	1,875	1,759	6.6%
AUD/USD MONDAY OPTION W	0	0	0.0%	216	18	1,100.00%	0	0	0.0%	3,886	3,261	19.2%
AUD/USD MONDAY OPTION W	0	0	0.0%	51	134	-61.94%	0	0	0.0%	2,039	2,420	-15.7%
AUD/USD MONDAY OPTION W	0	0	0.0%	502	91	451.65%	0	0	0.0%	3,176	3,234	-1.8%
AUD/USD MONDAY OPTION W	0	0	0.0%	240	145	65.52%	0	0	0.0%	730	1,363	-46.4%
AUD/USD MONTHLY OPTIONS	0	0	0.0%	50,813	52,855	-3.86%	0	0	0.0%	577,185	682,282	-15.4%
AUD/USD THURSDAY WKLY O	0	-	-	33	-	-	0	-	-	1,098	-	-
AUD/USD THURSDAY WKLY O	0	-	-	78	-	-	0	-	-	870	-	-
AUD/USD THURSDAY WKLY O	0	-	-	46	-	-	0	-	-	1,268	-	-
AUD/USD THURSDAY WKLY O	0	-	-	50	-	-	0	-	-	1,617	-	-
AUD/USD THURSDAY WKLY O	0	-	-	0	-	-	0	-	-	498	-	-
AUD/USD TUESDAY WKLY OPT	0	-	-	81	-	-	0	-	-	1,872	-	-
AUD/USD TUESDAY WKLY OPT	0	-	-	48	-	-	0	-	-	1,850	-	-
AUD/USD TUESDAY WKLY OPT	0	-	-	85	-	-	0	-	-	1,289	-	-
AUD/USD TUESDAY WKLY OPT	0	-	-	61	-	-	0	-	-	1,291	-	-
AUD/USD TUESDAY WKLY OPT	0	-	-	201	-	-	0	-	-	483	-	-
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	27	0	0.00%	0	0	0.0%	4,332	4,572	-5.2%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	822	2,122	-61.26%	0	0	0.0%	12,599	14,998	-16.0%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	951	1,072	-11.29%	0	0	0.0%	13,771	19,410	-29.1%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	928	2,541	-63.48%	0	0	0.0%	15,127	16,112	-6.1%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	0	0.00%	0	0	0.0%	3,278	5,196	-36.9%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	66	432	-84.72%	0	0	0.0%	4,402	6,061	-27.4%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	336	477	-29.56%	0	0	0.0%	2,878	4,671	-38.4%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	214	186	15.05%	0	0	0.0%	3,078	5,504	-44.1%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	126	127	-0.79%	0	0	0.0%	2,365	4,735	-50.1%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	1,279	578	121.3%
BRL/USD MONTHLY OPTIONS	0	0	0.0%	0	22	-100.00%	0	0	0.0%	345	3,043	-88.7%
CAD/USD MONDAY OPTIONS	0	0	0.0%	58	685	-91.53%	0	0	0.0%	7,064	2,518	180.5%
CAD/USD MONDAY OPTIONS	0	0	0.0%	344	216	59.26%	0	0	0.0%	9,538	10,712	-11.0%
CAD/USD MONDAY OPTIONS	0	0	0.0%	688	424	62.26%	0	0	0.0%	7,163	10,046	-28.7%
CAD/USD MONDAY OPTIONS	0	0	0.0%	1,902	11	17,190.91%	0	0	0.0%	10,029	7,017	42.9%
CAD/USD MONDAY OPTIONS	0	0	0.0%	96	1,240	-92.26%	0	0	0.0%	434	2,775	-84.4%
CAD/USD MONTHLY OPTIONS	0	0	0.0%	33,814	61,022	-44.59%	0	0	0.0%	476,407	600,246	-20.6%
CAD/USD THURSDAY WKLY O	0	-	-	1,513	-	-	0	-	-	4,001	-	-

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2023	Open Outcry OCT 2022	% CHG	ELEC OCT 2023	ELEC OCT 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	-	-	190	-	-	0	-	-	3,054	-	-
CAD/USD THURSDAY WKLY O	0	-	-	1,398	-	-	0	-	-	4,250	-	-
CAD/USD THURSDAY WKLY O	0	-	-	103	-	-	0	-	-	4,954	-	-
CAD/USD THURSDAY WKLY O	0	-	-	0	-	-	0	-	-	2,323	-	-
CAD/USD TUESDAY WKLY OPT	0	-	-	1,592	-	-	0	-	-	4,680	-	-
CAD/USD TUESDAY WKLY OPT	0	-	-	2,211	-	-	0	-	-	7,776	-	-
CAD/USD TUESDAY WKLY OPT	0	-	-	2,294	-	-	0	-	-	5,558	-	-
CAD/USD TUESDAY WKLY OPT	0	-	-	1,055	-	-	0	-	-	4,041	-	-
CAD/USD TUESDAY WKLY OPT	0	-	-	323	-	-	0	-	-	1,240	-	-
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	174	0	0.00%	0	0	0.0%	11,260	12,919	-12.8%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	3,068	4,220	-27.30%	0	0	0.0%	20,379	33,482	-39.1%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	3,510	2,991	17.35%	0	0	0.0%	23,970	52,797	-54.6%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,104	3,664	-42.58%	0	0	0.0%	29,082	45,783	-36.5%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	0	0.00%	0	0	0.0%	10,973	12,620	-13.1%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	2,454	992	147.38%	0	0	0.0%	13,896	10,164	36.7%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	811	804	0.87%	0	0	0.0%	10,568	12,025	-12.1%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	980	1,062	-7.72%	0	0	0.0%	10,377	14,567	-28.8%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	2,347	1,681	39.62%	0	0	0.0%	12,941	15,814	-18.2%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	3,566	4,474	-20.3%
CHF/USD MONTHLY OPTIONS	0	0	0.0%	5,421	3,267	65.93%	0	0	0.0%	37,192	42,809	-13.1%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	0	0.00%	0	0	0.0%	2,103	989	112.6%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	116	30	286.67%	0	0	0.0%	5,658	901	528.0%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	794	46	1,626.09%	0	0	0.0%	7,713	1,047	636.7%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	262	30	773.33%	0	0	0.0%	16,023	1,237	1,195.3%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	0	0.00%	0	0	0.0%	3,534	117	2,920.5%
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%
EUR/USD MONDAY OPTION W	0	0	0.0%	478	2,851	-83.23%	0	0	0.0%	15,492	19,254	-19.5%
EUR/USD MONDAY OPTION W	0	0	0.0%	3,153	2,552	23.55%	0	0	0.0%	18,550	24,957	-25.7%
EUR/USD MONDAY OPTION W	0	0	0.0%	3,034	763	297.64%	0	0	0.0%	15,789	10,423	51.5%
EUR/USD MONDAY OPTION W	0	0	0.0%	2,564	1,471	74.30%	0	0	0.0%	17,683	26,308	-32.8%
EUR/USD MONDAY OPTION W	0	0	0.0%	1,177	766	53.66%	0	0	0.0%	3,238	5,022	-35.5%
EUR/USD MONTHLY OPTIONS	0	0	0.0%	267,397	297,060	-9.99%	0	0	0.0%	2,429,931	2,481,538	-2.1%
EUR/USD THURSDAY WKLY O	0	-	-	806	-	-	0	-	-	7,730	-	-

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2023	Open Outcry OCT 2022	% CHG	ELEC OCT 2023	ELEC OCT 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 THURSDAY WKLY O	0	-	-	867	-		0	-	-	7,267	-	-
EUR/USD THURSDAY WKLY O	0	-	-	197	-		0	-	-	5,559	-	-
EUR/USD THURSDAY WKLY O	0	-	-	1,354	-		0	-	-	9,514	-	-
EUR/USD THURSDAY WKLY O	0	-	-	0	-		0	-	-	380	-	-
EUR/USD TUESDAY WKLY OPT	0	-	-	100	-		0	-	-	3,983	-	-
EUR/USD TUESDAY WKLY OPT	0	-	-	673	-		0	-	-	6,310	-	-
EUR/USD TUESDAY WKLY OPT	0	-	-	387	-		0	-	-	6,467	-	-
EUR/USD TUESDAY WKLY OPT	0	-	-	1,463	-		0	-	-	5,765	-	-
EUR/USD TUESDAY WKLY OPT	0	-	-	1,420	-		0	-	-	3,008	-	-
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	119	3	3,866.67%	0	0	0.0%	29,309	50,404	-41.9%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	26,872	15,239	76.34%	0	0	0.0%	180,873	135,167	33.8%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	29,291	13,917	110.47%	0	0	0.0%	253,899	158,497	60.2%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	28,001	13,705	104.31%	0	0	0.0%	271,620	173,609	56.5%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	0	0.00%	0	0	0.0%	34,918	58,029	-39.8%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	10,323	9,153	12.78%	0	0	0.0%	52,999	66,409	-20.2%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	8,112	7,267	11.63%	0	0	0.0%	63,416	55,341	14.6%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	7,515	5,698	31.89%	0	0	0.0%	50,205	53,358	-5.9%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	6,584	8,678	-24.13%	0	0	0.0%	48,275	64,648	-25.3%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	14,869	20,237	-26.5%
EVENT CONTRACT EUR/USD	0	0	0.0%	4,702	1,820	158.35%	0	0	0.0%	56,328	3,510	1,504.8%
GBP/USD MONDAY OPTION W	0	0	0.0%	205	381	-46.19%	0	0	0.0%	6,399	5,289	21.0%
GBP/USD MONDAY OPTION W	0	0	0.0%	165	509	-67.58%	0	0	0.0%	9,124	10,712	-14.8%
GBP/USD MONDAY OPTION W	0	0	0.0%	1,593	273	483.52%	0	0	0.0%	5,266	3,183	65.4%
GBP/USD MONDAY OPTION W	0	0	0.0%	157	829	-81.06%	0	0	0.0%	7,064	5,709	23.7%
GBP/USD MONDAY OPTION W	0	0	0.0%	402	1,841	-78.16%	0	0	0.0%	993	3,321	-70.1%
GBP/USD MONTHLY OPTIONS	0	0	0.0%	56,755	87,716	-35.30%	0	0	0.0%	610,772	770,392	-20.7%
GBP/USD THURSDAY WKLY O	0	-	-	284	-		0	-	-	2,537	-	-
GBP/USD THURSDAY WKLY O	0	-	-	206	-		0	-	-	1,926	-	-
GBP/USD THURSDAY WKLY O	0	-	-	83	-		0	-	-	2,393	-	-
GBP/USD THURSDAY WKLY O	0	-	-	36	-		0	-	-	1,362	-	-
GBP/USD THURSDAY WKLY O	0	-	-	0	-		0	-	-	363	-	-
GBP/USD TUESDAY WKLY OPT	0	-	-	156	-		0	-	-	1,660	-	-
GBP/USD TUESDAY WKLY OPT	0	-	-	96	-		0	-	-	3,013	-	-
GBP/USD TUESDAY WKLY OPT	0	-	-	577	-		0	-	-	2,470	-	-

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2023	Open Outcry OCT 2022	% CHG	ELEC OCT 2023	ELEC OCT 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	-	-	483	-		0	-	-	2,163	-	-
GBP/USD TUESDAY WKLY OPT	0	-	-	121	-		0	-	-	569	-	-
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	68	0	0.00%	0	0	0.0%	6,696	7,507	-10.8%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	3,775	4,004	-5.72%	0	0	0.0%	29,027	22,403	29.6%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,782	3,166	-12.13%	0	0	0.0%	36,864	27,075	36.2%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	3,823	2,078	83.97%	0	0	0.0%	25,765	25,751	0.1%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	0	0.00%	0	0	0.0%	6,641	8,769	-24.3%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	934	1,398	-33.19%	0	0	0.0%	8,227	12,628	-34.9%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	504	539	-6.49%	0	0	0.0%	9,490	4,832	96.4%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	448	1,069	-58.09%	0	0	0.0%	11,583	9,879	17.2%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	408	1,586	-74.27%	0	0	0.0%	6,782	10,068	-32.6%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	1,449	670	116.3%
JPY/USD MONDAY OPTION WE	0	0	0.0%	1,874	153	1,124.84%	0	0	0.0%	7,385	6,694	10.3%
JPY/USD MONDAY OPTION WE	0	0	0.0%	622	438	42.01%	0	0	0.0%	12,566	7,865	59.8%
JPY/USD MONDAY OPTION WE	0	0	0.0%	898	156	475.64%	0	0	0.0%	5,336	2,976	79.3%
JPY/USD MONDAY OPTION WE	0	0	0.0%	120	2,772	-95.67%	0	0	0.0%	7,381	12,155	-39.3%
JPY/USD MONDAY OPTION WE	0	0	0.0%	2,575	720	257.64%	0	0	0.0%	4,752	967	391.4%
JPY/USD MONTHLY OPTIONS	0	0	0.0%	119,959	131,230	-8.59%	0	0	0.0%	956,595	1,292,668	-26.0%
JPY/USD THURSDAY WKLY OP	0	-	-	421	-		0	-	-	2,626	-	-
JPY/USD THURSDAY WKLY OP	0	-	-	238	-		0	-	-	984	-	-
JPY/USD THURSDAY WKLY OP	0	-	-	145	-		0	-	-	425	-	-
JPY/USD THURSDAY WKLY OP	0	-	-	305	-		0	-	-	1,047	-	-
JPY/USD THURSDAY WKLY OP	0	-	-	0	-		0	-	-	277	-	-
JPY/USD TUESDAY WKLY OPT	0	-	-	9	-		0	-	-	1,468	-	-
JPY/USD TUESDAY WKLY OPT	0	-	-	135	-		0	-	-	4,072	-	-
JPY/USD TUESDAY WKLY OPT	0	-	-	12	-		0	-	-	2,431	-	-
JPY/USD TUESDAY WKLY OPT	0	-	-	68	-		0	-	-	3,521	-	-
JPY/USD TUESDAY WKLY OPT	0	-	-	2,622	-		0	-	-	2,762	-	-
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	14	0	0.00%	0	0	0.0%	10,282	31,828	-67.7%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	14,768	10,268	43.83%	0	0	0.0%	69,202	79,588	-13.0%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	11,941	14,754	-19.07%	0	0	0.0%	74,353	113,892	-34.7%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	19,109	12,355	54.67%	0	0	0.0%	84,753	108,834	-22.1%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	0	0.00%	0	0	0.0%	18,790	37,049	-49.3%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	7,618	9,752	-21.88%	0	0	0.0%	34,923	40,595	-14.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2023	Open Outcry OCT 2022	% CHG	ELEC OCT 2023	ELEC OCT 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%	3,224	5,857	-44.95%	0	0	0.0%	26,807	36,304	-26.2%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	2,360	3,569	-33.88%	0	0	0.0%	30,023	32,018	-6.2%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	1,980	4,853	-59.20%	0	0	0.0%	21,565	44,147	-51.2%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	6,503	11,330	-42.6%
MXN/USD MONTHLY OPTIONS	0	0	0.0%	1,815	353	414.16%	0	0	0.0%	6,023	6,865	-12.3%
MXN/USD WKLY FRIDAY OPTI	0	-	-	0	-		0	-	-	5	-	-
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	0	0.00%	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%	7	10	-30.00%	0	0	0.0%	695	680	2.2%
NZD/USD WKLY FRIDAY OPTIO	0	-	-	0	-		0	-	-	2	-	-
NZD/USD WKLY FRIDAY OPTIO	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
RUB/USD MONTHLY OPTIONS	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
USD/CNH MONTHLY OPTIONS	0	-	-	20	-		0	-	-	71	-	-
USD/CNH WEEKLY FRIDAY OP	0	-	-	0	-		0	-	-	34	-	-
ZAR/USD MONTHLY OPTIONS	0	-	-	0	-		0	-	-	0	-	-
<b>Ag Products Futures</b>												
BLOCK CHEESE	0	0	0.0%	217	326	-33.44%	0	0	0.0%	4,701	2,609	80.2%
BUTTER CS	0	0	0.0%	4,032	3,800	6.11%	0	0	0.0%	36,379	40,240	-9.6%
CASH-SETTLED CHEESE	0	0	0.0%	12,674	9,136	38.73%	0	0	0.0%	129,285	93,815	37.8%
CAT ASIA WEATHER	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
CATTLE	0	0	0.0%	1,418,937	1,050,244	35.11%	0	0	0.0%	13,678,673	12,020,252	13.8%
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%	150	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%	2,487,617	1,785,801	39.30%	0	0	0.0%	25,581,571	21,827,498	17.2%
CLASS IV MILK	0	0	0.0%	1,183	1,220	-3.03%	0	0	0.0%	13,231	22,868	-42.1%
COFFEE	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
CORN	0	0	0.0%	5,385,209	4,786,219	12.51%	0	0	0.0%	67,815,364	63,852,388	6.2%
DJ_UBS ROLL SELECT INDEX	0	0	0.0%	55	0	0.00%	0	0	0.0%	76	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2023	Open Outcry OCT 2022	% CHG	ELEC OCT 2023	ELEC OCT 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>												
DOW-UBS COMMOD INDEX	0	0	0.0%	5,860	14,209	-58.76%	0	0	0.0%	223,783	424,654	-47.3%
DOW-UBS COMMOD INDEX SW	0	-	-	0	-		0	0	0.0%	0	0	0.0%
DRY WHEY	0	0	0.0%	1,041	497	109.46%	0	0	0.0%	10,681	8,998	18.7%
FEEDER CATTLE	0	0	0.0%	407,770	307,268	32.71%	0	0	0.0%	3,660,039	2,824,532	29.6%
FERTILIZER PRODUCTS	0	0	0.0%	0	0	0.00%	0	0	0.0%	4	7	-42.9%
GOLDMAN SACHS	0	0	0.0%	1,930	2,376	-18.77%	0	0	0.0%	17,804	28,350	-37.2%
GSCI EXCESS RETURN FUT	0	0	0.0%	0	0	0.00%	0	0	0.0%	23	91	-74.7%
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%	50	0	0.00%	0	0	0.0%	50	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%	909,416	898,019	1.27%	0	0	0.0%	10,720,806	9,636,972	11.2%
HOUSING INDEX	0	0	0.0%	33	15	120.00%	0	0	0.0%	178	156	14.1%
KC WHEAT	0	0	0.0%	896,981	686,774	30.61%	0	0	0.0%	10,134,178	8,756,284	15.7%
LUMBER	0	0	0.0%	19,304	12,519	54.20%	0	0	0.0%	148,775	89,148	66.9%
MALAYSIAN PALM SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MILK	0	0	0.0%	38,321	21,533	77.96%	0	0	0.0%	324,155	279,204	16.1%
MINI CORN	0	0	0.0%	25,838	34,648	-25.43%	0	0	0.0%	331,249	551,431	-39.9%
MINI SOYBEAN	0	0	0.0%	50,501	57,574	-12.29%	0	0	0.0%	428,526	604,439	-29.1%
MINI WHEAT	0	0	0.0%	22,389	31,340	-28.56%	0	0	0.0%	302,064	280,351	7.7%
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%	5,277	5,963	-11.50%	0	0	0.0%	50,543	56,848	-11.1%
OATS	0	0	0.0%	11,752	9,419	24.77%	0	0	0.0%	129,637	84,641	53.2%
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%	1,009	1,607	-37.21%	0	0	0.0%	14,636	21,372	-31.5%
ROUGH RICE	0	0	0.0%	27,362	29,615	-7.61%	0	0	0.0%	189,422	189,358	0.0%
SOYBEAN	0	0	0.0%	6,595,887	5,094,266	29.48%	0	0	0.0%	49,754,001	41,235,511	20.7%
SOYBEAN MEAL	0	0	0.0%	4,098,294	2,204,364	85.92%	0	0	0.0%	29,462,566	21,901,536	34.5%
SOYBEAN OIL	0	0	0.0%	3,178,079	2,395,823	32.65%	0	0	0.0%	30,463,682	23,391,138	30.2%
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	0	0.00%	0	0	0.0%	30	6,012	-99.5%

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## CME Group Exchange Volume Comparison Report - Monthly

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<b>Ag Products Options</b>												
AUG-DEC SOYBEAN MEAL CS	0	-	-	0	-		0	-	-	1,950	-	-
AUG-NOV SOYBEAN CAL SPR	0	0	0.0%	0	0	0.00%	0	0	0.0%	1,410	212	565.1%
BLOCK CHEESE	0	0	0.0%	908	6	15,033.33%	0	0	0.0%	4,694	2,515	86.6%
BUTTER CS	0	0	0.0%	1,279	1,913	-33.14%	0	0	0.0%	17,081	14,006	22.0%
CASH-SETTLED CHEESE	0	0	0.0%	4,711	6,163	-23.56%	0	0	0.0%	65,134	62,724	3.8%
CATTLE	0	0	0.0%	460,331	192,076	139.66%	0	0	0.0%	3,202,762	2,126,464	50.6%
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%	641,188	571,992	12.10%	0	0	0.0%	6,442,385	5,989,264	7.6%
CLASS IV MILK	0	0	0.0%	8,638	6,046	42.87%	0	0	0.0%	67,529	73,898	-8.6%
CORN	0	0	0.0%	1,893,172	1,725,859	9.69%	0	0	0.0%	26,322,768	26,493,438	-0.6%
CORN NEARBY+2 CAL SPRD	0	0	0.0%	7,226	20,085	-64.02%	0	0	0.0%	260,279	220,524	18.0%
DEC-DEC CORN CAL SPRD	0	0	0.0%	120	0	0.00%	0	0	0.0%	5,786	0	0.0%
DEC-JUL SOYBEAN MEAL CSO	0	-	-	20	-		0	-	-	230	-	-
DEC-JULY CORN CAL SPRD	0	0	0.0%	884	445	98.65%	0	0	0.0%	17,566	15,861	10.7%
DEC-JULY WHEAT CAL SPRD	0	-	-	0	-		0	-	-	350	-	-
DRY WHEY	0	0	0.0%	532	5	10,540.00%	0	0	0.0%	2,077	2,734	-24.0%
FEEDER CATTLE	0	0	0.0%	88,923	38,506	130.93%	0	0	0.0%	627,754	361,206	73.8%
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%	410,590	226,860	80.99%	0	0	0.0%	3,181,770	2,294,447	38.7%
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%	150	650	-76.92%	0	0	0.0%	101,098	78,920	28.1%
JULY-DEC SOYMEAL CAL SPR	0	0	0.0%	0	0	0.00%	0	0	0.0%	2,270	845	168.6%
JULY-DEC SOY OIL CAL SPRD	0	0	0.0%	0	0	0.00%	0	0	0.0%	2,560	0	0.0%
JULY-DEC WHEAT CAL SPRD	0	0	0.0%	0	0	0.00%	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	2	400.0%
JULY-NOV SOYBEAN CAL SPR	0	0	0.0%	4,892	5,286	-7.45%	0	0	0.0%	80,425	48,459	66.0%
KC WHEAT	0	0	0.0%	54,356	58,154	-6.53%	0	0	0.0%	706,727	708,524	-0.3%
LUMBER	0	0	0.0%	1,152	380	203.16%	0	0	0.0%	4,762	4,110	15.9%
LV CATL CSO	0	-	-	0	-		0	-	-	60	-	-

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2023	Open Outcry OCT 2022	% CHG	ELEC OCT 2023	ELEC OCT 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>												
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%	120	5,115	-97.65%	0	0	0.0%	20,019	30,605	-34.6%
MAR-JULY SOYBEAN CAL SPR	0	0	0.0%	900	50	1,700.00%	0	0	0.0%	1,030	650	58.5%
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%	25,946	23,493	10.44%	0	0	0.0%	215,313	229,446	-6.2%
MLK MID OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	22	45	-51.1%
NFD MILK	0	0	0.0%	7,514	4,667	61.00%	0	0	0.0%	46,295	35,668	29.8%
NOV-JULY SOYBEAN CAL SPR	0	0	0.0%	0	100	-100.00%	0	0	0.0%	1,420	5,260	-73.0%
NOV-MAR SOYBEAN CSO	0	0	0.0%	525	0	0.00%	0	0	0.0%	4,369	0	0.0%
OATS	0	0	0.0%	137	116	18.10%	0	0	0.0%	1,791	1,928	-7.1%
PACIFIC RIM DAT SS WTHR	0	-	-	0	-		0	-	-	0	-	-
PORK CUTOUT	0	0	0.0%	0	0	0.00%	0	0	0.0%	111	35	217.1%
ROUGH RICE	0	0	0.0%	727	2,694	-73.01%	0	0	0.0%	23,179	17,327	33.8%
SEP-DEC SOYBEAN MEAL CSC	0	0	0.0%	0	0	0.00%	0	0	0.0%	2,350	830	183.1%
SOYBEAN	0	0	0.0%	1,550,545	908,184	70.73%	0	0	0.0%	15,268,622	15,013,873	1.7%
SOYBEAN CRUSH	0	0	0.0%	0	0	0.00%	0	0	0.0%	5	165	-97.0%
SOYBEAN MEAL	0	0	0.0%	662,332	175,368	277.68%	0	0	0.0%	3,667,559	2,258,785	62.4%
SOYBEAN OIL	0	0	0.0%	281,243	226,077	24.40%	0	0	0.0%	3,668,679	2,353,200	55.9%
SOYBN NEARBY+2 CAL SPRD	0	0	0.0%	8,670	5,111	69.63%	0	0	0.0%	70,396	37,159	89.4%
SOYMEAL NEARBY+2 CAL SPR	0	0	0.0%	1,850	0	0.00%	0	0	0.0%	5,220	1,250	317.6%
SOY OIL NEARBY+2 CAL SPRD	0	0	0.0%	0	150	-100.00%	0	0	0.0%	175	1,250	-86.0%
WHEAT	0	0	0.0%	886	887	-0.11%	0	0	0.0%	17,589	2,021	770.3%
WHEAT-CORN ICSCO	0	0	0.0%	0	170	-100.00%	0	0	0.0%	270	2,522	-89.3%
WHEAT NEARBY+2 CAL SPRD	0	0	0.0%	366	2,070	-82.32%	0	0	0.0%	5,358	33,767	-84.1%
<b>TOTAL FUTURES GROUP</b>												
Interest Rate Futures	411,048	864,053	-52.4%	190,878,996	146,331,544	30.4%	6,537,697	8,490,216	-23.0%	1,873,183,725	1,757,846,742	6.6%
Equity Index Futures	0	0	0.0%	133,653,425	147,052,905	-9.1%	0	0	0.0%	1,112,025,736	1,364,452,106	-18.5%
Metals Futures	0	0	0.0%	10,839,130	8,802,462	23.1%	0	0	0.0%	106,256,903	94,065,115	13.0%
Energy Futures	0	0	0.0%	39,230,049	31,143,059	26.0%	0	0	0.0%	360,535,757	360,756,518	-0.1%
FX Futures	0	0	0.0%	19,630,507	20,510,253	-4.3%	0	0	0.0%	185,565,766	195,029,991	-4.9%
Ag Products Futures	0	0	0.0%	25,607,018	19,444,575	31.7%	0	0	0.0%	243,626,262	208,230,703	17.0%
<b>TOTAL FUTURES</b>	<b>411,048</b>	<b>864,053</b>	<b>-52.4%</b>	<b>419,839,125</b>	<b>373,284,798</b>	<b>12.5%</b>	<b>6,537,697</b>	<b>8,490,216</b>	<b>-23.0%</b>	<b>3,881,194,149</b>	<b>3,980,381,175</b>	<b>-2.5%</b>

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2023	Open Outcry OCT 2022	% CHG	ELEC OCT 2023	ELEC OCT 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 OPTIONS GROUP</b>												
Equity Index Options	0	0	0.0%	39,815,141	28,917,421	37.7%	0	0	0.0%	274,405,160	237,801,918	15.4%
Interest Rate Options	18,569,951	16,154,062	15.0%	41,310,941	32,169,931	28.4%	227,677,605	162,406,213	40.2%	343,388,668	288,998,224	18.8%
Metals Options	0	0	0.0%	2,020,539	1,071,398	88.6%	0	0	0.0%	14,788,205	11,183,988	32.2%
Energy Options	0	0	0.0%	5,888,728	2,428,835	142.5%	0	0	0.0%	39,035,348	30,188,746	29.3%
FX Options	0	0	0.0%	799,202	826,184	-3.3%	0	0	0.0%	7,247,862	7,875,833	-8.0%
Ag Products Options	0	0	0.0%	6,120,833	4,208,678	45.4%	0	0	0.0%	64,139,209	58,527,289	9.6%
<b>TOTAL OPTIONS</b>	<b>18,569,951</b>	<b>16,154,062</b>	<b>15.0%</b>	<b>95,955,384</b>	<b>69,622,447</b>	<b>37.8%</b>	<b>227,677,605</b>	<b>162,406,213</b>	<b>40.2%</b>	<b>743,004,452</b>	<b>634,575,998</b>	<b>17.1%</b>
<b>TOTAL COMBINED</b>												
Interest Rate	18,980,999	17,018,115	11.5%	232,189,937	178,501,475	30.1%	234,215,302	170,896,429	37.1%	2,216,572,393	2,046,844,966	8.3%
Equity Index	0	0	0.0%	173,468,566	175,970,326	-1.4%	0	0	0.0%	1,386,430,896	1,602,254,024	-13.5%
Metals	0	0	0.0%	12,859,669	9,873,860	30.2%	0	0	0.0%	121,045,108	105,249,103	15.0%
Energy	0	0	0.0%	45,118,777	33,571,894	34.4%	0	0	0.0%	399,571,105	390,945,264	2.2%
FX	0	0	0.0%	20,429,709	21,336,437	-4.2%	0	0	0.0%	192,813,628	202,905,824	-5.0%
Ag Products	0	0	0.0%	31,727,851	23,653,253	34.1%	0	0	0.0%	307,765,471	266,757,992	15.4%
<b>GRAND TOTAL</b>	<b>18,980,999</b>	<b>17,018,115</b>	<b>11.5%</b>	<b>515,794,509</b>	<b>442,907,245</b>	<b>16.5%</b>	<b>234,215,302</b>	<b>170,896,429</b>	<b>37.1%</b>	<b>4,624,198,601</b>	<b>4,614,957,173</b>	<b>0.2%</b>

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