



CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2019	Open Outcry DEC 2018	% CHG	ELEC DEC 2019	ELEC DEC 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
Interest Rate Futures												
10-YR NOTE	146,326	96,179	52.1%	27,519,954	30,554,892	-9.93%	1,794,445	1,624,474	10.5%	433,915,193	442,415,411	-1.9%
10-YR SWAP RATE	0	0	0.0%	60,892	80,616	-24.47%	0	0	0.0%	503,316	489,472	2.8%
15-YR SWAP RATE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
1-MONTH EURODOLLAR	0	0	0.0%	1	595	-99.83%	0	0	0.0%	451	31,937	-98.6%
20-YR SWAP RATE	0	0	0.0%	0	0	0.00%	0	0	0.0%	46	0	0.0%
2-YR NOTE	1,931	1,713	12.7%	8,360,586	7,927,444	5.46%	44,399	33,971	30.7%	164,627,600	125,079,260	31.6%
2-YR SWAP RATE	0	0	0.0%	22,121	21,774	1.59%	0	0	0.0%	474,235	21,774	2,078.0%
30-YR BOND	14,544	13,704	6.1%	5,559,960	6,822,531	-18.51%	238,469	245,835	-3.0%	85,695,653	90,825,705	-5.6%
30-YR SWAP RATE	0	0	0.0%	5	300	-98.33%	0	0	0.0%	6,525	1,283	408.6%
3-YR SWAP RATE	0	0	0.0%	14,511	1,628	791.34%	0	0	0.0%	174,201	1,628	10,600.3%
4-YR SWAP RATE	0	0	0.0%	709	3,016	-76.49%	0	0	0.0%	91,483	3,016	2,933.3%
5-YR NOTE	40,407	19,442	107.8%	14,602,859	19,200,636	-23.95%	538,481	398,088	35.3%	275,075,331	273,755,486	0.5%
5-YR SWAP RATE	0	0	0.0%	71,316	98,742	-27.78%	0	0	0.0%	856,483	347,046	146.8%
7-YR SWAP RATE	0	0	0.0%	2,146	3,304	-35.05%	0	0	0.0%	42,004	3,304	1,171.3%
EURODOLLARS	328,168	619,962	-47.1%	35,731,416	70,723,083	-49.48%	8,292,595	9,289,882	-10.7%	668,153,568	743,785,327	-10.2%
FED FUND	0	0	0.0%	3,547,509	7,920,464	-55.21%	0	0	0.0%	88,090,040	64,783,693	36.0%
SOFR	0	0	0.0%	697,447	274,162	154.39%	0	0	0.0%	8,572,639	1,050,064	716.4%
SONIA	0	0	0.0%	196,587	112,287	75.08%	0	0	0.0%	2,212,780	298,611	641.0%
Ultra 10-Year Note	0	0	0.0%	3,318,632	3,517,424	-5.65%	0	0	0.0%	55,465,095	45,280,233	22.5%
ULTRA T-BOND	0	41	-100.0%	2,281,614	2,851,699	-19.99%	66	271	-75.6%	44,229,871	43,606,964	1.4%
Interest Rate Options												
10-YR NOTE	2,299,492	2,220,981	3.5%	12,553,828	10,639,285	18.00%	30,019,157	28,708,991	4.6%	137,183,320	135,689,546	1.1%
2-YR NOTE	72,600	87,004	-16.6%	241,377	268,911	-10.24%	1,768,556	1,588,384	11.3%	4,214,451	4,187,364	0.6%
30-YR BOND	185,970	260,127	-28.5%	2,463,857	2,496,958	-1.33%	3,694,414	3,792,397	-2.6%	32,190,822	31,514,925	2.1%
5-YR NOTE	381,619	795,561	-52.0%	2,652,887	2,760,742	-3.91%	10,624,237	8,813,796	20.5%	43,136,713	32,377,323	33.2%
EURODOLLARS	6,846,949	8,450,205	-19.0%	7,690,449	4,724,306	62.78%	154,702,821	105,779,959	46.2%	97,008,097	54,216,247	78.9%
EURO MIDCURVE	2,886,154	8,543,713	-66.2%	2,345,667	4,926,969	-52.39%	73,493,703	106,131,436	-30.8%	59,124,551	64,765,997	-8.7%
FED FUND	100	1,000	-90.0%	997	39	2,456.41%	56,810	3,250	1,648.0%	22,209	16,007	38.7%
Ultra 10-Year Note	711	0	0.0%	0	0	0.00%	29,315	100	29,215.0%	5,329	28	18,932.1%
ULTRA T-BOND	12,107	25,486	-52.5%	255	1,134	-77.51%	251,264	89,254	181.5%	15,936	31,181	-48.9%

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Equity Index Futures												
BITCOIN FUTURES	0	0	0.0%	109,747	80,055	37.09%	0	0	0.0%	1,603,527	922,957	73.7%
DJ US REAL ESTATE	0	0	0.0%	41,186	56,355	-26.92%	0	0	0.0%	309,436	311,793	-0.8%
E-mini (\$5) Dow	0	0	0.0%	3,588,742	6,919,613	-48.14%	0	0	0.0%	50,316,880	60,199,477	-16.4%
E-MINI COM SERVICES SELEC	0	0	0.0%	2,915	13,281	-78.05%	0	0	0.0%	29,583	20,198	46.5%
E-mini FTSE 100 (USD)	0	0	0.0%	0	748	-100.00%	0	0	0.0%	336	16,286	-97.9%
E-mini FTSE China 50	0	0	0.0%	0	1,038	-100.00%	0	0	0.0%	711	12,287	-94.2%
E-MINI MIDCAP	0	0	0.0%	459,981	605,951	-24.09%	0	0	0.0%	3,997,512	4,783,212	-16.4%
E-MINI NASDAQ 100	0	0	0.0%	8,162,283	14,580,088	-44.02%	0	0	0.0%	114,678,323	123,516,402	-7.2%
E-MINI RUSSELL 1000	0	0	0.0%	3,654	10,648	-65.68%	0	0	0.0%	40,453	106,925	-62.2%
E-MINI RUSSELL 1000 GROWT	0	0	0.0%	8,426	7,519	12.06%	0	0	0.0%	44,466	93,846	-52.6%
E-MINI RUSSELL 1000 VALUE	0	0	0.0%	13,608	15,290	-11.00%	0	0	0.0%	89,793	121,408	-26.0%
E-MINI RUSSELL 2000	0	0	0.0%	3,396,583	4,832,933	-29.72%	0	0	0.0%	36,160,849	36,976,096	-2.2%
E-MINI S&P500	0	0	0.0%	34,862,801	52,762,929	-33.93%	0	0	0.0%	392,743,727	441,659,466	-11.1%
E-MINI S&P REAL ESTATE SEL	0	0	0.0%	5,138	7,771	-33.88%	0	0	0.0%	47,407	45,708	3.7%
FT-SE 100	0	0	0.0%	0	989	-100.00%	0	0	0.0%	372	14,801	-97.5%
FTSE Emerging	0	0	0.0%	2,010	3,528	-43.03%	0	0	0.0%	25,224	11,558	118.2%
IBOVESPA INDEX	0	0	0.0%	601	673	-10.70%	0	0	0.0%	8,239	12,148	-32.2%
MICRO E-MINI NASDAQ 100	0	-	-	3,168,178	-	-	0	-	-	31,750,965	-	-
MICRO E-MINI RUSSELL 2000	0	-	-	554,646	-	-	0	-	-	5,004,928	-	-
MICRO E-MINI S&P500	0	-	-	4,328,000	-	-	0	-	-	43,076,456	-	-
MICRO MINI \$5 DOW	0	-	-	702,604	-	-	0	-	-	7,815,787	-	-
NASDAQ BIOTECH	0	0	0.0%	322	0	0.00%	0	0	0.0%	4,065	0	0.0%
Nearby BTIC+	0	-	-	0	-	-	0	-	-	34	-	-
NIFTY 50	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	54,444	-100.0%
NIKKEI 225 (\$) STOCK	0	0	0.0%	238,701	367,761	-35.09%	0	0	0.0%	2,612,179	3,790,647	-31.1%
NIKKEI 225 (YEN) STOCK	0	0	0.0%	814,864	1,141,049	-28.59%	318	0	0.0%	9,721,438	10,959,790	-11.3%
S&P 500	45,694	62,484	-26.9%	324	4,170	-92.23%	271,071	488,281	-44.5%	17,111	53,261	-67.9%
S&P 500 ANNUAL DIVIDEND IN	0	0	0.0%	10,329	9,359	10.36%	0	0	0.0%	112,853	62,410	80.8%
S&P 500/GI	0	0	0.0%	12	20	-40.00%	0	0	0.0%	72	93	-22.6%
S&P 500 QUARLY DIVIDEND IN	0	0	0.0%	50	100	-50.00%	0	0	0.0%	2,067	1,002	106.3%
S&P 600 SMALLCAP EMINI	0	0	0.0%	0	0	0.00%	0	0	0.0%	17	1	1,600.0%
S&P CONSUMER DSCRTRNY S	0	0	0.0%	9,561	14,737	-35.12%	0	0	0.0%	80,969	188,403	-57.0%
S&P CONSUMER STAPLES SE	0	0	0.0%	16,146	50,811	-68.22%	0	0	0.0%	124,841	208,891	-40.2%

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Equity Index Futures												
S&P ENERGY SECTOR	0	0	0.0%	21,937	48,434	-54.71%	0	0	0.0%	143,279	286,037	-49.9%
S&P FINANCIAL SECTOR	0	0	0.0%	25,541	52,646	-51.49%	0	0	0.0%	214,556	393,072	-45.4%
S&P HEALTH CARE SECTOR	0	0	0.0%	16,644	58,710	-71.65%	0	0	0.0%	134,124	222,356	-39.7%
S&P INDUSTRIAL SECTOR	0	0	0.0%	17,459	46,680	-62.60%	0	0	0.0%	103,329	192,340	-46.3%
S&P MATERIALS SECTOR	0	0	0.0%	7,598	20,058	-62.12%	0	0	0.0%	67,650	114,069	-40.7%
S&P TECHNOLOGY SECTOR	0	0	0.0%	13,422	85,286	-84.26%	0	0	0.0%	116,903	399,766	-70.8%
S&P UTILITIES SECTOR	0	0	0.0%	19,242	39,170	-50.88%	0	0	0.0%	186,452	317,902	-41.3%
S&P VALUE INDEX FUTURES	0	0	0.0%	16	24	-33.33%	0	0	0.0%	88	104	-15.4%
YEN DENOMINATED TOPIX	0	0	0.0%	12,188	7,631	59.72%	0	0	0.0%	219,936	13,365	1,545.6%
Equity Index Options												
E-mini (\$5) Dow	0	0	0.0%	9,416	18,658	-49.53%	0	0	0.0%	53,881	125,334	-57.0%
E-MINI NASDAQ 100	0	0	0.0%	176,277	195,152	-9.67%	0	0	0.0%	2,394,963	2,878,414	-16.8%
E-MINI RUSSELL 2000	0	0	0.0%	16,248	10,319	57.46%	0	0	0.0%	195,003	153,575	27.0%
E-MINI S&P500	0	0	0.0%	6,351,055	8,289,340	-23.38%	600	14,660	-95.9%	66,318,944	73,350,074	-9.6%
EOM E-MINI RUSSELL 2000 EN	0	0	0.0%	4,114	3,019	36.27%	0	0	0.0%	99,644	77,407	28.7%
EOM EMINI S&P	0	0	0.0%	1,666,065	2,198,100	-24.20%	0	0	0.0%	22,735,455	31,194,081	-27.1%
EOM S&P 500	105,822	178,063	-40.6%	0	0	0.00%	1,392,835	2,168,061	-35.8%	0	0	0.0%
EOW1 E-MINI RUSSELL 2000 W	0	0	0.0%	1,415	1,292	9.52%	0	0	0.0%	18,069	23,913	-24.4%
EOW1 E-MINI RUSSELL 2000 W	0	0	0.0%	1,994	1,835	8.66%	0	0	0.0%	23,400	29,895	-21.7%
EOW1 EMINI S&P 500	0	0	0.0%	1,222,185	1,682,057	-27.34%	0	0	0.0%	11,898,800	14,069,450	-15.4%
EOW1 S&P 500	119,582	130,946	-8.7%	0	0	0.00%	927,803	1,009,555	-8.1%	0	0	0.0%
EOW2 E-MINI RUSSELL 2000 W	0	0	0.0%	3,706	4,504	-17.72%	0	0	0.0%	57,981	59,808	-3.1%
EOW2 EMINI S&P 500	0	0	0.0%	1,238,813	1,503,724	-17.62%	0	0	0.0%	12,211,898	15,832,156	-22.9%
EOW2 S&P 500	182,781	290,407	-37.1%	0	0	0.00%	1,610,480	2,011,224	-19.9%	0	0	0.0%
EOW3 E-MINI RUSSELL 2000 W	0	0	0.0%	15,383	6,926	122.11%	0	0	0.0%	181,234	214,429	-15.5%
EOW3 EMINI S&P 500	0	0	0.0%	1,615,799	2,850,668	-43.32%	0	0	0.0%	27,486,266	43,285,692	-36.5%
EOW3 S&P 500	40,045	110,937	-63.9%	0	0	0.00%	1,407,823	3,079,428	-54.3%	0	0	0.0%
EOW4 E-MINI RUSSELL 2000 W	0	0	0.0%	3,468	2,853	21.56%	0	0	0.0%	39,182	60,829	-35.6%
EOW4 EMINI S&P 500	0	0	0.0%	845,944	1,490,642	-43.25%	0	0	0.0%	10,342,681	13,910,378	-25.6%
S&P 500	350,384	510,200	-31.3%	0	0	0.00%	2,877,983	3,955,748	-27.2%	0	0	0.0%

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Metals Futures												
ALUMINUM	0	0	0.0%	4,674	435	974.48%	0	0	0.0%	24,588	8,931	175.3%
COMEX COPPER	0	0	0.0%	1,651,846	1,384,254	19.33%	0	0	0.0%	23,828,982	32,393,775	-26.4%
COMEX E-Mini GOLD	0	0	0.0%	15,678	4,651	237.09%	0	0	0.0%	241,481	96,481	150.3%
COMEX E-Mini SILVER	0	0	0.0%	2,021	847	138.61%	0	0	0.0%	49,552	13,401	269.8%
COMEX GOLD	0	0	0.0%	5,222,845	3,944,681	32.40%	0	0	0.0%	83,862,556	77,451,789	8.3%
COMEX MINY COPPER	0	0	0.0%	320	262	22.14%	0	0	0.0%	7,449	5,195	43.4%
COMEX SILVER	0	0	0.0%	1,505,213	1,262,271	19.25%	0	0	0.0%	23,598,917	23,318,975	1.2%
COPPER	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
FERROUS PRODUCTS	0	0	0.0%	356	140	154.29%	0	0	0.0%	5,375	1,263	325.6%
GOLD	0	0	0.0%	7,368	0	0.00%	0	0	0.0%	42,719	0	0.0%
Gold Kilo	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	136	-100.0%
IRON ORE 62 CHINA PLATTS F	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
IRON ORE 62 CHINA TSI FUTU	0	0	0.0%	0	2	-100.00%	0	0	0.0%	28	174	-83.9%
LNDN ZINC	0	0	0.0%	0	582	-100.00%	0	0	0.0%	1,230	14,057	-91.2%
MICRO GOLD	0	0	0.0%	512,931	155,462	229.94%	0	0	0.0%	5,707,849	1,801,078	216.9%
NYMEX HOT ROLLED STEEL	0	0	0.0%	2,716	1,663	63.32%	0	0	0.0%	36,035	35,596	1.2%
NYMEX PLATINUM	0	0	0.0%	571,718	480,850	18.90%	0	0	0.0%	5,669,754	5,310,653	6.8%
PALLADIUM	0	0	0.0%	80,975	71,523	13.22%	0	0	0.0%	1,226,858	1,376,227	-10.9%
SILVER	0	0	0.0%	27,758	10,730	158.70%	0	0	0.0%	354,422	100,519	252.6%
URANIUM	0	0	0.0%	20	6	233.33%	0	0	0.0%	432	799	-45.9%

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Metals Options												
COMEX COPPER	0	0	0.0%	45,388	17,812	154.82%	0	0	0.0%	517,205	257,957	100.5%
COMEX GOLD	0	0	0.0%	635,173	830,990	-23.56%	0	0	0.0%	11,602,169	9,379,120	23.7%
COMEX SILVER	0	0	0.0%	145,993	98,597	48.07%	0	0	0.0%	1,980,570	1,514,305	30.8%
COPPER	0	0	0.0%	360	34	958.82%	0	0	0.0%	3,652	540	576.3%
GOLD	0	0	0.0%	144,132	56,344	155.81%	0	0	0.0%	1,571,669	517,983	203.4%
HOT ROLLED COIL STEEL CAL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HOT ROLLED COIL STEEL PUT	0	-	-	0	-		0	-	-	0	-	-
IRON ORE 62 CHINA TSI CALL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
IRON ORE 62 CHINA TSI PUT O	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYMEX PLATINUM	0	0	0.0%	952	1,003	-5.08%	0	0	0.0%	15,971	21,021	-24.0%
PALLADIUM	0	0	0.0%	464	545	-14.86%	0	0	0.0%	6,998	15,555	-55.0%
SILVER	0	0	0.0%	14,117	3,114	353.34%	0	0	0.0%	83,864	27,218	208.1%
Energy Futures												
3.5% FUEL OIL CID MED SWA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
3.5% FUEL OIL CIF BALMO S	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
AEP-DAYTON HUB DAILY	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
AEP-DAYTON HUB MTHLY	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
AEP-DAYTON HUB OFF-PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ALGON CITY GATES NAT GAS	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ALGONQUIN CITYGATES BASI	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ANR LOUISIANA BASIS SWAP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ANR OKLAHOMA	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	30	-100.0%
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%
AUSTRIALIAN COKE COAL	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 CFD 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%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2019	Open Outcry DEC 2018	% CHG	ELEC DEC 2019	ELEC DEC 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
Energy Futures												
BRENT OIL LAST DAY	0	0	0.0%	1,757,985	1,611,129	9.12%	0	0	0.0%	25,107,509	21,345,574	17.6%
CAISO SP15 EZGNHUB5 MW P	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
CAISO SP15 EZGNHUB5 PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
CANADIAN LIGHT SWEET OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CENTERPOINT BASIS SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CHICAGO ETHANOL SWAP	0	0	0.0%	1	44	-97.73%	0	0	0.0%	510	2,115	-75.9%
CHICAGO ULSD (PLATTS) SWA	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
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%
CIG BASIS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CIG ROCKIES NG INDEX SWA	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
CINERGY HUB OFF-PEAK MON	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CINERGY HUB PEAK MONTH	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CIN HUB 5MW D AH O PK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CIN HUB 5MW D AH PK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CIN HUB 5MW REAL TIME O P	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CIN HUB 5MW REAL TIME PK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
COAL SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
COLUMB GULF MAINLINE NG B	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
COLUMBIA GULF ONSHORE	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
CONWAY NATURAL GASOLINE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	5	-100.0%
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%	144	48	200.0%
CRUDE OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	89	-100.0%
CRUDE OIL OUTRIGHTS	0	0	0.0%	0	0	0.00%	0	0	0.0%	50	0	0.0%
CRUDE OIL PHY	0	0	0.0%	18,949,171	22,460,352	-15.63%	0	0	0.0%	285,895,950	300,948,428	-5.0%
CRUDE OIL SPRDS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	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 BRENT (PLATTS) DAILY	-	0	0.0%	-	0	0.00%	-	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%
DIESEL 10PPM BARGES FOB B	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
DOMINION TRAN INC - APP I	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 DEC 2019	Open Outcry DEC 2018	% CHG	ELEC DEC 2019	ELEC DEC 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
Energy Futures												
DOMINION TRANSMISSION INC	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
DUBAI CRUDE OIL BALMO	0	0	0.0%	0	0	0.00%	0	0	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%	21,086	2,583	716.34%	0	0	0.0%	147,866	20,654	615.9%
DY EURO 3.5% FUEL OI RDA	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
EASTERN RAIL DELIVERY CSX	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EAST/WEST FUEL OIL SPREAD	0	0	0.0%	0	0	0.00%	0	0	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 ERCOT DLY OFF PK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ELEC ERCOT DLY PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ELEC ERCOT OFF PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ELEC FINSETTLED	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ELEC MISO PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ELEC NYISO OFF-PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ELECTRICITY ERCOT PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ELECTRICITY OFF PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ELEC WEST POWER OFF-PEA	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ELEC WEST POWER PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ERCOT DAILY 5MW PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ERCOT HOUSTON Z MCPE 5M	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ERCOT NORTH ZMCPE 5MW O	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ERCOT NORTH ZMCPE 5MW O	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ERCOT NORTH ZMCPE 5MW P	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ETHANOL	0	0	0.0%	2,686	11,051	-75.69%	0	0	0.0%	79,371	112,320	-29.3%
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 1% FUEL OIL NEW BALM	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 3.5% FUEL OIL SPREAD	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EURO-DENOMINATED PETRO	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 1% FUEL OIL RDAM C	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	0	0.00%	0	0	0.0%	0	0	0.0%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2019	Open Outcry DEC 2018	% CHG	ELEC DEC 2019	ELEC DEC 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
Energy Futures												
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%	40	176	-77.27%	0	0	0.0%	1,268	7,105	-82.2%
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	0	0.00%	0	0	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%
FLORIDA GAS ZONE3 BASIS S	-	0	0.0%	-	0	0.00%	-	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%
FUEL OIL (PLATS) CAR CM	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
FUEL OIL (PLATS) CAR CN	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%
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 0.1 CIF MED SWAP	-	0	0.0%	-	0	0.00%	-	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 CIF NWE VS ISE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GASOIL 0.1 CIF VS ICE GAS	-	0	0.0%	-	0	0.00%	-	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 10P CRG CIF NW VS	-	0	0.0%	-	0	0.00%	-	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 BULLET SWAP	-	0	0.0%	-	0	0.00%	-	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%	2,731	962	183.89%	0	0	0.0%	26,684	5,441	390.4%
GROUP THREE ULSD (PLATTS)	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GROUP THREE UNLEAD GAS (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%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2019	Open Outcry DEC 2018	% CHG	ELEC DEC 2019	ELEC DEC 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
Energy Futures												
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 CLNDF	0	0	0.0%	0	0	0.00%	0	0	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%	2	0	0.0%
GULF COAST ULSD CALEND A	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	-	-
HEATING OIL PHY	0	0	0.0%	3,536,161	3,077,909	14.89%	0	0	0.0%	40,452,276	44,043,254	-8.2%
HENRY HUB BASIS SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HENRY HUB FINANCIAL LAST	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	27,703	-100.0%
HENRY HUB INDEX SWAP FUT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HENRY HUB SWAP	0	0	0.0%	0	614	-100.00%	0	0	0.0%	122	69,345	-99.8%
HOUSTON SHIP CHANNEL BAS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HTG OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HUSTN SHIP CHNL PIPE SWP	-	0	0.0%	-	0	0.00%	-	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%
IN DELIVERY MONTH EUA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
INDIANA MISO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
INDONESIAN COAL	-	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%
ISO NEW ENGLAND OFF-PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ISO NEW ENGLAND PK LMP	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 AV FUEL (P) CAR FM ICE G	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 BRG FOB RDM VS I	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
JET FUEL CRG CIF NEW VS I	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%
LA CARB DIESEL (OPIS)	-	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 DEC 2019	Open Outcry DEC 2018	% CHG	ELEC DEC 2019	ELEC DEC 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
Energy Futures												
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 FUEL VS NYM NO 2 H	-	0	0.0%	-	0	0.00%	-	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	0	0.00%	0	0	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%
LOS ANGELES CARB GASOLIN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LTD NAT GAS	0	0	0.0%	136,721	196,954	-30.58%	0	0	0.0%	1,849,674	2,561,557	-27.8%
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	75	-100.00%	0	0	0.0%	480	650	-26.2%
MARS BLEND 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%	840	0	0.00%	0	0	0.0%	7,642	731	945.4%
MCCLOSKEY RCH BAY COAL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MGF FUT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MGN1 SWAP FUT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MICHIGAN BASIS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MICHIGAN MISO	0	0	0.0%	0	0	0.00%	0	0	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%	2	3	-33.33%	0	0	0.0%	38	47	-19.1%
MINY NATURAL GAS	0	0	0.0%	53,544	45,578	17.48%	0	0	0.0%	439,093	433,003	1.4%
MINY RBOB GAS	0	0	0.0%	4	4	0.00%	0	0	0.0%	73	47	55.3%
MINY WTI CRUDE OIL	0	0	0.0%	309,495	617,691	-49.89%	0	0	0.0%	5,470,936	4,692,563	16.6%
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	0	0.0%
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%	6	25	-76.00%	0	0	0.0%	124	237	-47.7%
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%	0	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%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2019	Open Outcry DEC 2018	% CHG	ELEC DEC 2019	ELEC DEC 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
Energy Futures												
NAT GAS BASIS SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NATURAL GAS	0	0	0.0%	39,141	25,883	51.22%	0	0	0.0%	463,150	586,524	-21.0%
NATURAL GAS FIXED PRICE S	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NATURAL GAS INDEX	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
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%	9,072,398	7,553,218	20.11%	0	0	0.0%	100,257,958	110,844,207	-9.6%
NEPOOL CNCTCT 5MW D AH O	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NEPOOL CONECTIC 5MW D AH	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NEPOOL INTR HUB 5MW D AH	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NEPOOL NE MASS 5MW D AH	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NEPOOL NE MASS 5MW D AH	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NEPOOL RHD ISLD 5MW D AH	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NEPOOL RHODE IL 5MW D AH	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NEPOOL W CNT MASS 5MW D	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NEPOOL W CNTR M 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%
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	0	0.00%	0	0	0.0%	0	0	0.0%
NGPL MID-CONTINENT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NGPL TEX/OK	0	0	0.0%	0	0	0.00%	0	0	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%
N ILLINOIS HUB MTHLY	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NO 2 UP-DOWN SPREAD CALE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NORTHERN NATURAL GAS DEM	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NORTHERN NATURAL GAS VEN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NORTHERN ILLINOIS OFF-PEA	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NORTHWEST ROCKIES BASIS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
N ROCKIES PIPE SWAP	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 2.2% FUEL OIL (PLATTS	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NY 3.0% FUEL OIL (PLATTS	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	0	0.00%	0	0	0.0%	0	0	0.0%
NY HARBOR HEAT OIL SWP	0	0	0.0%	0	4	-100.00%	0	0	0.0%	19	81	-76.5%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2019	Open Outcry DEC 2018	% CHG	ELEC DEC 2019	ELEC DEC 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
Energy Futures												
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%
NY HARBOR RESIDUAL FUEL	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 A	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NYISO A OFF-PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NYISO CAPACITY	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYISO G	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NYISO G OFF-PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NYISO J	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYISO J OFF-PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYISO ZONE A 5MW D AH O P	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYISO ZONE A 5MW D AH PK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYISO ZONE C 5MW D AH O P	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NYISO ZONE C 5MW D AH PK	-	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	0	0.00%	0	0	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%
NYISO ZONE J 5MW D AH O P	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYISO ZONE J 5MW D AH PK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYMEX ALUMINUM FUTURES	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYMEX ULSD VS NYMEX HO	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%
ONEOK OKLAHOMA NG BASIS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ONTARIO POWER SWAPS	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	0	0.00%	0	0	0.0%	0	0	0.0%
PANHANDLE PIPE SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PERMIAN BASIS SWAP	0	0	0.0%	0	0	0.00%	0	0	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%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2019	Open Outcry DEC 2018	% CHG	ELEC DEC 2019	ELEC DEC 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
Energy Futures												
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 AECO DA OFF-PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
PJM AECO DA PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
PJM APS ZONE DA OFF-PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
PJM APS ZONE DA PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
PJM ATSI ELEC	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM BGE DA OFF-PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM BGE DA PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM COMED 5MW D AH O PK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM COMED 5MW D AH PK	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 DAYTON DA OFF-PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM DAYTON DA PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM JCPL DA OFF-PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
PJM JCPL DA PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
PJM MONTHLY	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 NILL DA OFF-PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM NILL DA PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM OFF-PEAK LMP SWAP FU	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM PECO ZONE5MW PEAK C	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM PPL DA OFF-PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
PJM PPL DA PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
PJM PSEG DA OFF-PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM PSEG DA PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM WESTH DA OFF-PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM WESTHDA PEAK	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%
PREMIUM UNLEAD 10PPM FOB	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PREM UNL GAS 10PPM RDAM	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 DEC 2019	Open Outcry DEC 2018	% CHG	ELEC DEC 2019	ELEC DEC 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
Energy Futures												
PREM UNL GAS 10PPM RDAM	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%	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%	3,284,092	3,260,755	0.72%	0	0	0.0%	47,066,537	47,134,720	-0.1%
RBOB SPREAD (PLATTS) SWA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
RBOB VS HEATING OIL SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SAN JUAN BASIS SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SAN JUAN PIPE 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 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	2	-100.0%
SINGAPORE GASOIL VS ICE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE JET KERO BALMO	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 JET KERO VS. GA	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	2	-100.0%
SINGAPORE NAPHTHA SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SING FUEL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SOCAL PIPE SWAP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
SONAT BASIS SWAP FUTURE	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
SOUTH STAR TEX OKLHM KNS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
Sumas Basis 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 DEC 2019	Open Outcry DEC 2018	% CHG	ELEC DEC 2019	ELEC DEC 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
Energy Futures												
SUMAS NAT GAS PLATTS FIXE	-	0	0.0%	-	0	0.00%	-	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%
TCO BASIS SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TCO NG INDEX SWAP	-	0	0.0%	-	0	0.00%	-	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%
TENNESSEE 500 LEG BASIS S	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
TENNESSEE 800 LEG NG BASI	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
TENNESSEE ZONE 0 BASIS S	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TETCO M-3 INDEX	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
Tetco STX Basis	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	0	0.00%	0	0	0.0%	0	0	0.0%
TEXAS GAS ZONE1 NG BASIS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
Transco Zone 3 Basis	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TRANSCO ZONE 3 NG INDEX S	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
TRANSCO ZONE4 BASIS SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TRANSCO ZONE 4 NAT GAS IN	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
TRANSCO ZONE 6 BASIS SWA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TRANSCO ZONE 6 INDEX	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
UCM FUT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
UK NBP NAT GAS CAL MTH FU	0	0	0.0%	1,106	970	14.02%	0	0	0.0%	7,445	49,232	-84.9%
ULSD 10PPM CIF MED SWAP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ULSD 10PPM CIF MED VS ICE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ULSD 10PPM CIF NW BALMO S	-	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%	0	0	0.0%
WAHA BASIS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
WAHA INDEX SWAP FUTURE	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
WESTERN RAIL DELIVERY PR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
WTI-BRENT BULLET SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
WTI-BRENT CALENDAR SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	6	-100.0%
WTI CALENDAR	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 DEC 2019	Open Outcry DEC 2018	% CHG	ELEC DEC 2019	ELEC DEC 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
Energy Options												
12 MO GASOIL CAL SWAP SPR	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
BRENT 1 MONTH CAL	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	24	-100.0%
BRENT CRUDE OIL 12 M CSO	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%	1,800	3,000	-40.0%
BRENT CRUDE OIL 6 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%	25,102	70,777	-64.53%	0	0	0.0%	709,897	875,426	-18.9%
COAL API2 INDEX	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
COAL API4 INDEX	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
COAL SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CRUDE OIL	0	-	-	0	-	-	0	-	-	0	-	-
CRUDE OIL 1MO	0	0	0.0%	4,450	7,400	-39.86%	0	0	0.0%	95,237	196,385	-51.5%
CRUDE OIL APO	0	0	0.0%	0	0	0.00%	0	0	0.0%	3	336	-99.1%
CRUDE OIL CALNDR STRIP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CRUDE OIL OUTRIGHTS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CRUDE OIL PHY	0	0	0.0%	1,787,614	2,786,709	-35.85%	0	0	0.0%	27,496,661	37,322,852	-26.3%
ELEC MISO PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
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%
EUROPEAN JET KEROSENE N	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
FREIGHT MARKETS	0	-	-	0	-	-	0	-	-	0	-	-
GASOLINE	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
HEATING OIL CRACK OPTIONS	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
HEATING OIL CRK SPD AVG P	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
HEATING OIL PHY	0	0	0.0%	3,014	4,643	-35.09%	0	0	0.0%	53,886	63,035	-14.5%
HENRY HUB FINANCIAL LAST	0	0	0.0%	0	0	0.00%	0	0	0.0%	94	5	1,780.0%
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%
MCCLOSKEY RCH BAY COAL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NATURAL GAS	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NATURAL GAS 1 M CSO FIN	0	0	0.0%	6,900	1,705	304.69%	0	0	0.0%	46,275	4,334	967.7%
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%	0	1	-100.0%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2019	Open Outcry DEC 2018	% CHG	ELEC DEC 2019	ELEC DEC 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
Energy Options												
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 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%	1,288,042	1,151,827	11.83%	0	0	0.0%	12,706,592	16,336,410	-22.2%
NATURAL GAS WINTER STRIP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
N ROCKIES PIPE SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NY HARBOR HEAT OIL SWP	0	0	0.0%	10	8	25.00%	0	0	0.0%	453	610	-25.7%
NYISO ZONE G 5MW PEAK OP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYMEX EUROPEAN GASOIL A	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
PANHANDLE PIPE SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PETROCHEMICALS	0	0	0.0%	0	0	0.00%	0	0	0.0%	41	23	78.3%
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 WES HUB PEAK CAL MTH	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM WES HUB PEAK LMP 50M	0	0	0.0%	0	0	0.00%	0	0	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 CRACK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	2	-100.0%
RBOB PHY	0	0	0.0%	1,499	2,543	-41.05%	0	0	0.0%	39,035	39,205	-0.4%
ROTTERDAM 3.5%FUEL OIL CL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SAN JUAN PIPE SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SHORT TERM	0	0	0.0%	0	0	0.00%	0	0	0.0%	44	996	-95.6%
SHORT TERM NATURAL GAS	0	0	0.0%	0	0	0.00%	0	0	0.0%	88	1,005	-91.2%
SINGAPORE GASOIL CALEND A	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE JET FUEL CALEN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SOCAL PIPE SWAP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
WTI-BRENT BULLET SWAP	0	0	0.0%	1,750	1,710	2.34%	0	0	0.0%	40,855	150,045	-72.8%
WTI CRUDE OIL 1 M CSO FI	0	0	0.0%	0	0	0.00%	0	0	0.0%	8,600	15,050	-42.9%
FX Futures												
AD/CD CROSS RATES	0	0	0.0%	28	1	2,700.00%	0	0	0.0%	176	56	214.3%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2019	Open Outcry DEC 2018	% CHG	ELEC DEC 2019	ELEC DEC 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
FX Futures												
AD/JY CROSS RATES	0	0	0.0%	2,528	3,978	-36.45%	0	0	0.0%	30,191	49,499	-39.0%
AD/NE CROSS RATES	0	0	0.0%	247	103	139.81%	0	0	0.0%	1,913	898	113.0%
AUSTRALIAN DOLLAR	0	0	0.0%	2,318,055	2,130,362	8.81%	0	0	0.0%	25,140,801	27,898,666	-9.9%
BDI	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
BP/JY CROSS RATES	0	0	0.0%	4,256	2,873	48.14%	0	0	0.0%	37,075	35,632	4.0%
BP/SF CROSS RATES	0	0	0.0%	315	129	144.19%	0	0	0.0%	4,652	3,982	16.8%
BRAZIL REAL	0	0	0.0%	164,321	75,352	118.07%	0	0	0.0%	1,670,698	1,185,543	40.9%
BRITISH POUND	0	4	-100.0%	3,209,704	2,532,253	26.75%	3	14	-78.6%	30,386,352	32,297,331	-5.9%
CANADIAN DOLLAR	0	0	0.0%	1,924,958	1,978,823	-2.72%	3	45	-93.3%	19,924,660	20,933,526	-4.8%
CD/JY CROSS RATES	0	0	0.0%	47	100	-53.00%	0	0	0.0%	187	1,049	-82.2%
CHINESE RENMINBI (CNH)	0	0	0.0%	19,945	18,953	5.23%	0	0	0.0%	329,043	117,390	180.3%
CZECK KORUNA (EC)	0	0	0.0%	12	0	0.00%	0	0	0.0%	42	8	425.0%
CZECK KORUNA (US)	0	0	0.0%	0	3	-100.00%	0	0	0.0%	0	18	-100.0%
EC/AD CROSS RATES	0	0	0.0%	7,169	6,977	2.75%	0	0	0.0%	56,748	27,892	103.5%
EC/CD CROSS RATES	0	0	0.0%	8,839	8,092	9.23%	0	0	0.0%	41,721	41,167	1.3%
EC/NOK CROSS RATES	0	0	0.0%	777	275	182.55%	0	0	0.0%	6,359	4,440	43.2%
EC/SEK CROSS RATES	0	0	0.0%	1,994	1,726	15.53%	0	0	0.0%	8,926	9,816	-9.1%
EFX/BP CROSS RATES	0	0	0.0%	124,935	116,309	7.42%	0	0	0.0%	1,141,308	990,009	15.3%
EFX/JY CROSS RATES	0	0	0.0%	110,144	103,848	6.06%	0	0	0.0%	837,259	949,458	-11.8%
EFX/SF CROSS RATES	0	0	0.0%	40,936	41,137	-0.49%	0	0	0.0%	410,240	354,750	15.6%
E-MINI EURO FX	0	0	0.0%	96,532	102,290	-5.63%	0	0	0.0%	1,101,614	1,223,766	-10.0%
E-MINI JAPANESE YEN	0	0	0.0%	12,383	21,982	-43.67%	0	0	0.0%	203,855	162,963	25.1%
EURO FX	3	0	0.0%	5,707,184	5,183,197	10.11%	63	544	-88.4%	52,183,713	68,087,111	-23.4%
HUNGARIAN FORINT (EC)	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HUNGARIAN FORINT (US)	0	0	0.0%	3	0	0.00%	0	0	0.0%	19	0	0.0%
INDIAN RUPEE	0	0	0.0%	29,596	78,320	-62.21%	0	0	0.0%	745,211	1,089,106	-31.6%
JAPANESE YEN	0	2	-100.0%	3,060,345	3,287,163	-6.90%	2	113	-98.2%	32,486,852	36,729,517	-11.6%
KOREAN WON	0	0	0.0%	259	373	-30.56%	0	0	0.0%	3,487	3,164	10.2%
MEXICAN PESO	0	0	0.0%	1,322,681	1,377,612	-3.99%	0	0	0.0%	14,884,033	16,819,045	-11.5%
MICRO AUD/USD	0	0	0.0%	76,524	111,221	-31.20%	0	0	0.0%	1,202,640	1,313,037	-8.4%
MICRO CAD/USD	0	0	0.0%	16,511	17,294	-4.53%	0	0	0.0%	201,285	206,791	-2.7%
MICRO CHF/USD	0	0	0.0%	6,929	2,009	244.90%	0	0	0.0%	42,767	18,276	134.0%
MICRO EUR/USD	0	0	0.0%	155,409	285,833	-45.63%	0	0	0.0%	2,640,604	4,323,117	-38.9%
MICRO GBP/USD	0	0	0.0%	63,809	36,417	75.22%	0	0	0.0%	650,407	545,675	19.2%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2019	Open Outcry DEC 2018	% CHG	ELEC DEC 2019	ELEC DEC 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
FX Futures												
MICRO INR/USD	0	0	0.0%	3,256	8,109	-59.85%	0	0	0.0%	55,850	62,787	-11.0%
MICRO JPY/USD	0	0	0.0%	15,755	25,860	-39.08%	0	0	0.0%	318,376	356,863	-10.8%
NEW ZEALND DOLLAR	0	0	0.0%	678,529	592,062	14.60%	0	0	0.0%	6,926,248	7,488,787	-7.5%
NKR/USD CROSS RATE	0	0	0.0%	9,702	5,384	80.20%	0	0	0.0%	60,852	58,013	4.9%
POLISH ZLOTY (EC)	0	0	0.0%	2	24	-91.67%	0	0	0.0%	454	232	95.7%
POLISH ZLOTY (US)	0	0	0.0%	285	88	223.86%	0	0	0.0%	1,663	1,022	62.7%
RMB USD	0	0	0.0%	1	0	0.00%	0	0	0.0%	10	25	-60.0%
RUSSIAN RUBLE	0	0	0.0%	142,169	88,721	60.24%	0	0	0.0%	891,411	657,473	35.6%
S.AFRICAN RAND	0	0	0.0%	85,438	51,619	65.52%	0	0	0.0%	651,212	548,677	18.7%
SF/JY CROSS RATES	0	0	0.0%	25	0	0.00%	0	0	0.0%	60	7	757.1%
SHEKEL	0	0	0.0%	20	0	0.00%	0	0	0.0%	40	0	0.0%
SKR/USD CROSS RATES	0	0	0.0%	7,187	5,753	24.93%	0	0	0.0%	37,061	54,006	-31.4%
SWISS FRANC	0	0	0.0%	797,905	645,963	23.52%	0	0	0.0%	7,111,423	7,122,193	-0.2%
TURKISH LIRA	0	0	0.0%	15	0	0.00%	0	0	0.0%	94	10	840.0%
USDZAR	0	0	0.0%	0	0	0.00%	0	0	0.0%	20	15	33.3%
FX Options												
AUD/USD MONTHLY OPTIONS	0	0	0.0%	67,768	72,396	-6.39%	20	600	-96.7%	824,517	997,766	-17.4%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	0	0.00%	0	0	0.0%	21,655	44,288	-51.1%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	10,029	8,808	13.86%	0	0	0.0%	72,030	82,783	-13.0%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	8,797	11,297	-22.13%	0	0	0.0%	77,735	119,584	-35.0%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	4,241	5,111	-17.02%	0	0	0.0%	76,112	116,958	-34.9%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	61	0	0.00%	0	0	0.0%	19,909	33,662	-40.9%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	1,169	2,781	-57.96%	0	0	0.0%	19,547	38,584	-49.3%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	2,087	1,973	5.78%	0	0	0.0%	20,747	28,334	-26.8%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	484	1,645	-70.58%	0	0	0.0%	9,331	15,227	-38.7%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	506	802	-36.91%	0	0	0.0%	15,839	23,903	-33.7%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	5,187	8,973	-42.2%
AUSTRALIAN DLR (EU)	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
AUSTRALIAN DOLLAR	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
BRITISH POUND	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
BRITISH POUND (EU)	0	0	0.0%	0	1	-100.00%	0	0	0.0%	0	280	-100.0%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2019	Open Outcry DEC 2018	% CHG	ELEC DEC 2019	ELEC DEC 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
FX Options												
BRL/USD MONTHLY OPTIONS	0	-	-	0	-		0	-	-	1,821	-	-
CAD/USD MONTHLY OPTIONS	75	40	87.5%	48,277	63,053	-23.43%	1,389	3,080	-54.9%	623,350	982,277	-36.5%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	100	-100.00%	0	0	0.0%	36,274	65,316	-44.5%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	12,761	15,278	-16.47%	10	0	0.0%	82,750	144,128	-42.6%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	12,822	9,441	35.81%	0	0	0.0%	113,052	196,718	-42.5%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	11,402	9,588	18.92%	0	0	0.0%	121,390	192,195	-36.8%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	684	0	0.00%	0	0	0.0%	36,908	64,247	-42.6%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	102	3,081	-96.69%	0	0	0.0%	33,792	38,687	-12.7%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	3,972	1,581	151.23%	0	0	0.0%	40,528	39,293	3.1%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	3,939	5,619	-29.90%	0	0	0.0%	36,726	52,980	-30.7%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	3,627	123	2,848.78%	0	0	0.0%	34,789	43,589	-20.2%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	10,464	20,940	-50.0%
CANADIAN DOLLAR	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
CANADIAN DOLLAR (EU)	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	63	-100.0%
CHF/USD MONTHLY OPTIONS	0	0	0.0%	6,137	778	688.82%	0	0	0.0%	38,058	26,086	45.9%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	0	0.00%	0	0	0.0%	186	222	-16.2%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	173	3	5,666.67%	0	0	0.0%	2,935	759	286.7%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	376	19	1,878.95%	0	0	0.0%	2,210	939	135.4%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	285	0	0.00%	0	0	0.0%	1,824	1,801	1.3%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	0	0.00%	0	0	0.0%	613	712	-13.9%
EUR/GBP MONTHLY OPTIONS	0	-	-	0	-		0	-	-	74	-	-
EUR/JPY MONTHLY OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EURO FX	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
EURO FX (EU)	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	59	-100.0%
EUR/USD MONTHLY OPTIONS	180	990	-81.8%	223,059	326,861	-31.76%	9,661	14,214	-32.0%	4,042,596	5,899,875	-31.5%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	13	-100.00%	0	80	-100.0%	110,935	278,972	-60.2%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	38,347	53,682	-28.57%	15	0	0.0%	306,968	399,313	-23.1%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	26,131	73,567	-64.48%	0	1,800	-100.0%	342,894	618,073	-44.5%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	15,683	32,914	-52.35%	0	750	-100.0%	379,256	581,766	-34.8%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	123	0	0.00%	0	0	0.0%	99,721	153,317	-35.0%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	12,274	14,429	-14.94%	0	0	0.0%	151,020	156,624	-3.6%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	12,935	16,818	-23.09%	0	0	0.0%	146,874	154,743	-5.1%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	12,251	11,930	2.69%	0	0	0.0%	147,505	140,774	4.8%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	9,731	9,249	5.21%	0	0	0.0%	159,900	156,219	2.4%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2019	Open Outcry DEC 2018	% CHG	ELEC DEC 2019	ELEC DEC 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
FX Options												
EUR/USD WKLY WED OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	39,185	66,146	-40.8%
GBP/USD MONTHLY OPTIONS	12	75	-84.0%	142,545	137,958	3.32%	918	957	-4.1%	1,468,725	2,156,327	-31.9%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	70	-100.00%	0	0	0.0%	29,987	71,600	-58.1%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	14,703	19,687	-25.32%	36	0	0.0%	80,173	155,114	-48.3%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	8,969	11,625	-22.85%	0	30	-100.0%	101,854	225,284	-54.8%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	3,706	6,060	-38.84%	0	0	0.0%	92,305	221,539	-58.3%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	25	0	0.00%	0	0	0.0%	29,326	51,741	-43.3%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	1,049	3,297	-68.18%	0	0	0.0%	24,094	42,723	-43.6%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	4,188	6,921	-39.49%	0	0	0.0%	31,716	57,676	-45.0%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	1,724	2,777	-37.92%	0	0	0.0%	28,143	59,410	-52.6%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	1,521	2,106	-27.78%	0	0	0.0%	25,104	49,493	-49.3%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	8,595	33,084	-74.0%
JAPANESE YEN	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
JAPANESE YEN (EU)	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
JPY/USD MONTHLY OPTIONS	15	38	-60.5%	91,869	150,687	-39.03%	222	4,523	-95.1%	1,611,359	1,966,759	-18.1%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	0	0.00%	0	0	0.0%	56,218	91,683	-38.7%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	18,550	22,771	-18.54%	0	0	0.0%	121,980	182,204	-33.1%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	12,053	30,445	-60.41%	0	0	0.0%	167,079	266,754	-37.4%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	8,172	16,731	-51.16%	0	0	0.0%	153,884	254,835	-39.6%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	89	0	0.00%	0	0	0.0%	59,282	61,599	-3.8%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	4,911	5,134	-4.34%	0	0	0.0%	55,084	53,319	3.3%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	5,953	5,097	16.79%	0	0	0.0%	52,024	56,973	-8.7%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	2,944	3,410	-13.67%	0	0	0.0%	50,300	47,348	6.2%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	2,537	6,396	-60.33%	0	0	0.0%	49,078	57,259	-14.3%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	10,637	22,991	-53.7%
MXN/USD MONTHLY OPTIONS	0	300	-100.0%	720	1,217	-40.84%	1,145	6,418	-82.2%	15,519	16,670	-6.9%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	0	0.00%	0	0	0.0%	1,200	0	0.0%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	0	0.00%	0	0	0.0%	528	205	157.6%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	0	0.00%	0	0	0.0%	1,350	286	372.0%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	0	0.00%	0	0	0.0%	530	632	-16.1%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	0	0.00%	0	0	0.0%	28	0	0.0%
NZD/USD MONTHLY OPTIONS	0	0	0.0%	1,439	17	8,364.71%	0	0	0.0%	9,173	1,049	774.5%
NZD/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	1	-100.0%
NZD/USD WKLY FRIDAY OPTIO	0	-	-	2	-		0	-	-	172	-	-

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2019	Open Outcry DEC 2018	% CHG	ELEC DEC 2019	ELEC DEC 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
FX Options												
NZD/USD WKLY FRIDAY OPTIO	0	-	-	200	-		0	-	-	506	-	-
NZD/USD WKLY FRIDAY OPTIO	0	-	-	200	-		0	-	-	950	-	-
NZD/USD WKLY FRIDAY OPTIO	0	-	-	0	-		0	-	-	100	-	-
SWISS FRANC	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
SWISS FRANC (EU)	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
Ags Futures												
FERTILIZER PRODUCTS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
Foreign Exchange Futures												
CHILEAN PESO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	12,942	-100.0%
Foreign Exchange Options												
AUD/USD WKLY WED OPTIONS	0	0	0.0%	936	2,615	-64.21%	0	0	0.0%	9,855	12,296	-19.9%
Ag Products Futures												
BUTTER CS	0	0	0.0%	5,141	4,423	16.23%	0	0	0.0%	51,967	51,424	1.1%
CASH-SETTLED CHEESE	0	0	0.0%	12,513	14,481	-13.59%	0	0	0.0%	132,192	134,740	-1.9%
CATTLE	373	848	-56.0%	964,504	1,119,135	-13.82%	12,679	13,819	-8.2%	16,677,982	16,413,365	1.6%
CAT WEATHER EUROPEAN	0	-	-	0	-		0	-	-	0	-	-
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%	25	0	0.0%
CHI WHEAT	4,583	3,998	14.6%	1,750,879	1,467,122	19.34%	79,441	151,610	-47.6%	30,137,249	36,365,895	-17.1%
CLASS IV MILK	0	21	-100.0%	2,086	2,354	-11.38%	158	24	558.3%	26,279	10,772	144.0%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2019	Open Outcry DEC 2018	% CHG	ELEC DEC 2019	ELEC DEC 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
Ag Products Futures												
COCOA TAS	0	0	0.0%	0	0	0.00%	0	0	0.0%	8	5	60.0%
COFFEE	0	0	0.0%	0	0	0.00%	0	0	0.0%	2	0	0.0%
CORN	5,353	11,957	-55.2%	3,617,256	4,129,113	-12.40%	252,476	369,624	-31.7%	99,924,184	93,693,645	6.6%
COTTON	0	0	0.0%	1	1	0.00%	0	0	0.0%	39	22	77.3%
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%	53,543	101,482	-47.24%	0	0	0.0%	522,427	940,252	-44.4%
DRY WHEY	0	0	0.0%	1,324	1,230	7.64%	0	0	0.0%	15,013	16,589	-9.5%
FEEDER CATTLE	11	0	0.0%	243,791	231,572	5.28%	216	38	468.4%	3,606,565	3,528,525	2.2%
FERTILIZER PRODUCTS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GOLDMAN SACHS	0	0	0.0%	20,392	31,926	-36.13%	0	0	0.0%	327,866	375,177	-12.6%
GSCI EXCESS RETURN FUT	0	0	0.0%	0	74	-100.00%	0	0	0.0%	421	892	-52.8%
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	55	-100.0%
HDD WEATHER EUROPEAN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HOGS	841	1,006	-16.4%	885,478	752,089	17.74%	17,982	18,217	-1.3%	15,579,823	13,512,546	15.3%
HOUSING INDEX	0	0	0.0%	6	13	-53.85%	0	0	0.0%	148	113	31.0%
Intercommodity Spread	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
KC WHEAT	3,148	108	2,814.8%	903,889	600,064	50.63%	12,833	12,543	2.3%	15,037,773	14,923,368	0.8%
LUMBER	0	0	0.0%	11,805	11,518	2.49%	0	0	0.0%	161,985	214,072	-24.3%
MALAYSIAN PALM SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MILK	105	96	9.4%	33,241	28,521	16.55%	461	1,335	-65.5%	332,466	300,265	10.7%
MINI CORN	0	0	0.0%	9,893	6,163	60.52%	0	0	0.0%	172,423	118,868	45.1%
MINI SOYBEAN	0	0	0.0%	23,476	20,681	13.51%	0	0	0.0%	227,736	273,551	-16.7%
MINI WHEAT	0	0	0.0%	4,834	3,052	58.39%	0	0	0.0%	88,311	88,004	0.3%
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%	6,328	3,615	75.05%	19	43	-55.8%	73,618	59,297	24.2%
OATS	0	0	0.0%	9,028	6,388	41.33%	0	43	-100.0%	153,580	163,568	-6.1%
ROUGH RICE	0	0	0.0%	29,692	21,703	36.81%	31	58	-46.6%	244,928	219,048	11.8%
SOYBEAN	3,433	8,620	-60.2%	4,790,842	4,072,116	17.65%	68,339	180,444	-62.1%	50,758,520	55,851,404	-9.1%
SOYBEAN MEAL	1,216	1,684	-27.8%	2,927,060	2,038,645	43.58%	13,074	38,308	-65.9%	28,443,379	30,741,113	-7.5%
SOYBEAN OIL	3,569	823	333.7%	3,162,634	2,416,072	30.90%	11,244	16,677	-32.6%	30,994,968	30,559,779	1.4%
S&P GSCI ENHANCED ER SWA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SUGAR 11	0	0	0.0%	0	0	0.00%	0	0	0.0%	10	58	-82.8%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2019	Open Outcry DEC 2018	% CHG	ELEC DEC 2019	ELEC DEC 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
Ag Products Futures												
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%	511	0	0.00%	0	0	0.0%	8,801	22	39,904.5%
Ag Products Options												
AUG-NOV SOYBEAN CAL SPR	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
BUTTER CS	20	257	-92.2%	1,609	4,623	-65.20%	4,966	10,969	-54.7%	30,693	37,895	-19.0%
CASH-SETTLED CHEESE	2,701	5,842	-53.8%	8,000	9,714	-17.64%	20,288	36,904	-45.0%	93,514	88,082	6.2%
CATTLE	13,063	17,374	-24.8%	127,696	128,378	-0.53%	283,343	294,978	-3.9%	2,129,473	2,345,635	-9.2%
CAT WEATHER EUROPEAN	0	-	-	0	-	-	0	-	-	0	-	-
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	0.00%	-	0	0.0%	-	0	0.0%
CHI WHEAT	57,405	74,314	-22.8%	445,934	440,114	1.32%	1,037,318	1,982,158	-47.7%	6,234,931	7,379,340	-15.5%
CLASS IV MILK	0	186	-100.0%	2,391	2,701	-11.48%	3,605	1,274	183.0%	36,367	14,227	155.6%
CORN	137,533	241,335	-43.0%	926,485	863,587	7.28%	4,700,281	6,208,360	-24.3%	26,458,060	19,036,658	39.0%
CORN NEARBY+2 CAL SPRD	1,850	9,885	-81.3%	0	0	0.00%	79,693	40,603	96.3%	3,352	150	2,134.7%
DEC-DEC CORN CAL SPRD	0	0	0.0%	0	0	0.00%	14,198	18,242	-22.2%	4,596	33	13,827.3%
DEC-JULY CORN CAL SPRD	0	0	0.0%	0	0	0.00%	27,519	18,499	48.8%	236	0	0.0%
DEC-JULY WHEAT CAL SPRD	0	0	0.0%	0	0	0.00%	100	1,744	-94.3%	2	0	0.0%
DRY WHEY	2	24	-91.7%	160	395	-59.49%	749	1,379	-45.7%	7,366	5,611	31.3%
FEEDER CATTLE	383	1,957	-80.4%	16,928	18,371	-7.85%	21,210	22,116	-4.1%	320,378	316,625	1.2%
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	0.00%	-	0	0.0%	-	0	0.0%
HOGS	14,168	22,424	-36.8%	232,533	135,516	71.59%	335,399	326,708	2.7%	3,838,920	2,439,384	57.4%
HOUSING INDEX	0	0	0.0%	0	0	0.00%	0	0	0.0%	7	0	0.0%
Intercommodity Spread	7,290	0	0.0%	6	0	0.00%	13,609	10,713	27.0%	11	0	0.0%
JAN-MAY SOYBEAN CAL SPRD	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
JULY-DEC CORN CAL SPRD	2,020	500	304.0%	500	20	2,400.00%	19,652	11,076	77.4%	1,652	120	1,276.7%
JULY-DEC SOYMEAL CAL SPR	0	0	0.0%	0	0	0.00%	0	1,200	-100.0%	0	0	0.0%
JULY-DEC SOY OIL CAL SPRD	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
JULY-DEC WHEAT CAL SPRD	700	0	0.0%	0	0	0.00%	2,200	2,165	1.6%	0	455	-100.0%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2019	Open Outcry DEC 2018	% CHG	ELEC DEC 2019	ELEC DEC 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
Ag Products Options												
JULY-NOV SOYBEAN CAL SPR	1,727	324	433.0%	1,460	150	873.33%	7,972	56,707	-85.9%	3,080	2,765	11.4%
KC WHEAT	21,059	20,627	2.1%	95,238	49,360	92.95%	248,839	364,722	-31.8%	869,032	639,628	35.9%
LUMBER	0	0	0.0%	1,058	2,070	-48.89%	70	223	-68.6%	19,830	21,334	-7.0%
LV CATL CSO	40	25	60.0%	0	0	0.00%	589	341	72.7%	0	0	0.0%
MAR-DEC CORN CAL SPRD	375	-	-	0	-	-	384	-	-	0	-	-
MAR-JULY CORN CAL SPRD	0	0	0.0%	0	0	0.00%	4,040	0	0.0%	0	0	0.0%
MAR-JULY WHEAT CAL SPRD	0	1,690	-100.0%	0	60	-100.00%	0	1,890	-100.0%	30	60	-50.0%
MILK	1,534	7,850	-80.5%	35,203	32,764	7.44%	24,600	68,857	-64.3%	430,868	359,179	20.0%
MLK MID OPTIONS	15	12	25.0%	0	13	-100.00%	50	443	-88.7%	194	41	373.2%
NFD MILK	58	289	-79.9%	2,434	2,935	-17.07%	2,116	9,405	-77.5%	57,583	48,963	17.6%
NOV-JULY SOYBEAN CAL SPR	0	0	0.0%	0	0	0.00%	1,050	1	104,900.0%	2,500	0	0.0%
NOV-MAR SOYBEAN CSO	0	0	0.0%	0	0	0.00%	20	130	-84.6%	0	0	0.0%
NOV-NOV SOYBEAN CAL SPR	0	0	0.0%	0	0	0.00%	614	118	420.3%	2,214	0	0.0%
OATS	0	320	-100.0%	23	72	-68.06%	2,494	2,413	3.4%	2,176	4,388	-50.4%
ROUGH RICE	562	480	17.1%	432	468	-7.69%	23,391	8,891	163.1%	10,486	9,388	11.7%
SEP-DEC SOYBEAN MEAL CSC	0	0	0.0%	0	0	0.00%	0	1,170	-100.0%	0	0	0.0%
SOYBEAN	115,376	144,831	-20.3%	984,417	916,321	7.43%	1,590,683	3,326,672	-52.2%	11,834,441	15,576,261	-24.0%
SOYBEAN CRUSH	28	0	0.0%	0	0	0.00%	334	185	80.5%	0	0	0.0%
SOYBEAN MEAL	27,273	25,096	8.7%	163,161	73,457	122.12%	400,158	1,069,341	-62.6%	1,585,430	2,106,023	-24.7%
SOYBEAN OIL	41,795	15,253	174.0%	183,520	80,016	129.35%	269,050	418,250	-35.7%	1,313,800	985,328	33.3%
SOYBN NEARBY+2 CAL SPRD	900	0	0.0%	0	0	0.00%	4,425	10	44,150.0%	2,000	0	0.0%
SOYMEAL NEARBY+2 CAL SPR	0	0	0.0%	0	0	0.00%	490	8,415	-94.2%	0	0	0.0%
WHEAT	1,234	100	1,134.0%	3,338	0	0.00%	12,034	3,087	289.8%	13,444	335	3,913.1%
WHEAT-CORN ICSCO	0	0	0.0%	0	0	0.00%	2,880	5,780	-50.2%	0	0	0.0%
WHEAT NEARBY+2 CAL SPRD	375	160	134.4%	0	0	0.00%	2,815	9,647	-70.8%	300	4,531	-93.4%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2019	Open Outcry DEC 2018	% CHG	ELEC DEC 2019	ELEC DEC 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
TOTAL FUTURES GROUP												
Interest Rate Futures	531,376	751,041	-29.2%	101,988,265	150,114,597	-32.1%	10,908,455	11,592,521	-5.9%	1,828,186,514	1,831,780,214	-0.2%
Equity Index Futures	45,694	62,484	-26.9%	60,635,459	81,846,055	-25.9%	271,389	488,281	-44.4%	701,606,937	686,082,521	2.3%
Metals Futures	0	0	0.0%	9,606,439	7,318,359	31.3%	0	0	0.0%	144,658,227	141,929,049	1.9%
Energy Futures	0	0	0.0%	37,167,210	38,865,980	-4.4%	0	0	0.0%	507,274,921	532,885,720	-4.8%
FX Futures	3	6	-50.0%	20,227,664	18,948,588	6.8%	71	716	-90.1%	202,429,612	231,772,808	-12.7%
Ags Futures	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
Foreign Exchange Futures	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	12,942	-100.0%
Ag Products Futures	22,632	29,161	-22.4%	19,470,147	17,083,553	14.0%	468,953	802,783	-41.6%	293,700,688	298,556,434	-1.6%
TOTAL FUTURES	599,705	842,692	-28.8%	249,095,184	314,177,132	-20.7%	11,648,868	12,884,301	-9.6%	3,677,856,899	3,723,019,688	-1.2%
TOTAL OPTIONS GROUP												
Equity Index Options	798,614	1,220,553	-34.6%	13,171,882	18,259,089	-27.9%	8,217,524	12,238,676	-32.9%	154,057,401	195,265,435	-21.1%
Interest Rate Options	12,685,702	20,384,077	-37.8%	27,949,317	25,818,344	8.3%	274,640,277	254,907,567	7.7%	372,901,428	322,798,618	15.5%
Metals Options	0	0	0.0%	986,579	1,008,439	-2.2%	0	0	0.0%	15,782,098	11,733,699	34.5%
Energy Options	0	0	0.0%	3,118,381	4,027,322	-22.6%	0	0	0.0%	41,199,561	55,008,744	-25.1%
FX Options	282	1,443	-80.5%	878,302	1,185,347	-25.9%	13,416	32,452	-58.7%	12,644,210	18,191,733	-30.5%
Ag Products Options	449,486	591,155	-24.0%	3,232,526	2,761,105	17.1%	9,163,228	14,345,786	-36.1%	55,306,966	51,422,439	7.6%
Foreign Exchange Options	0	0	0.0%	936	2,615	-64.2%	0	0	0.0%	9,855	12,296	-19.9%
TOTAL OPTIONS	13,934,084	22,197,228	-37.2%	49,337,923	53,062,261	-7.0%	292,034,445	281,524,481	3.7%	651,901,519	654,432,964	-0.4%
TOTAL COMBINED												
Interest Rate	13,217,078	21,135,118	-37.5%	129,937,582	175,932,941	-26.1%	285,548,732	266,500,088	7.1%	2,201,087,942	2,154,578,832	2.2%
Equity Index	844,308	1,283,037	-34.2%	73,807,341	100,105,144	-26.3%	8,488,913	12,726,957	-33.3%	855,664,338	881,347,956	-2.9%
Metals	0	0	0.0%	10,593,018	8,326,798	27.2%	0	0	0.0%	160,440,325	153,662,748	4.4%
Energy	0	0	0.0%	40,285,591	42,893,302	-6.1%	0	0	0.0%	548,474,482	587,894,464	-6.7%
FX	285	1,449	-80.3%	21,105,966	20,133,935	4.8%	13,487	33,168	-59.3%	215,073,822	249,964,541	-14.0%
Ags	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
Foreign Exchange	0	0	0.0%	936	2,615	-64.2%	0	0	0.0%	9,855	25,238	-61.0%
Ag Products	472,118	620,316	-23.9%	22,702,673	19,844,658	14.4%	9,632,181	15,148,569	-36.4%	349,007,654	349,978,873	-0.3%
GRAND TOTAL	14,533,789	23,039,920	-36.9%	298,433,107	367,239,393	-18.7%	303,683,313	294,408,782	3.2%	4,329,758,418	4,377,452,652	-1.1%

*** Note - KC HRW Wheat monthly and YTD volume comparatives to prior year is not using a complete year, since collection of 2013 volume data did not start until April 15, 2013.

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