

CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2019	Open Outcry NOV 2018	% CHG	ELEC NOV 2019	ELEC NOV 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	187,669	160,120	17.2%	41,613,536	47,960,845	-13.23%	1,648,119	1,528,295	7.8%	406,395,239	411,860,519	-1.3%
10-YR SWAP RATE	0	0	0.0%	29,567	16,421	80.06%	0	0	0.0%	442,424	408,856	8.2%
15-YR SWAP RATE	0	-	-	0	-		0	-	-	0	-	-
1-MONTH EURODOLLAR	0	0	0.0%	46	0	0.00%	0	0	0.0%	450	31,342	-98.6%
20-YR SWAP RATE	0	-	-	0	-		0	-	-	46	-	-
2-YR NOTE	9,549	1,685	466.7%	21,065,881	18,704,612	12.62%	42,468	32,258	31.7%	156,267,014	117,151,816	33.4%
2-YR SWAP RATE	0	-	-	9,039	-		0	-	-	452,114	-	-
30-YR BOND	22,639	24,088	-6.0%	8,196,750	10,152,635	-19.26%	223,925	232,131	-3.5%	80,135,693	84,003,174	-4.6%
30-YR SWAP RATE	0	0	0.0%	134	0	0.00%	0	0	0.0%	6,520	983	563.3%
3-YR SWAP RATE	0	-	-	1,906	-		0	-	-	159,690	-	-
4-YR SWAP RATE	0	-	-	518	-		0	-	-	90,774	-	-
5-YR NOTE	42,539	42,504	0.1%	29,589,022	35,560,926	-16.79%	498,074	378,646	31.5%	260,472,472	254,554,850	2.3%
5-YR SWAP RATE	0	0	0.0%	40,110	15,799	153.88%	0	0	0.0%	785,167	248,304	216.2%
7-YR SWAP RATE	0	-	-	2,267	-		0	-	-	39,858	-	-
EURODOLLARS	362,113	678,692	-46.6%	35,682,857	57,692,399	-38.15%	7,964,427	8,669,920	-8.1%	632,422,152	673,062,244	-6.0%
FED FUND	0	0	0.0%	5,066,423	5,606,524	-9.63%	0	0	0.0%	84,542,531	56,863,229	48.7%
SOFR	0	0	0.0%	924,136	245,030	277.15%	0	0	0.0%	7,875,192	775,902	915.0%
SONIA	0	0	0.0%	209,204	124,925	67.46%	0	0	0.0%	2,016,193	186,324	982.1%
Ultra 10-Year Note	0	0	0.0%	5,958,047	5,210,163	14.35%	0	0	0.0%	52,146,463	41,762,809	24.9%
ULTRA T-BOND	0	0	0.0%	5,457,325	6,005,546	-9.13%	66	230	-71.3%	41,948,257	40,755,265	2.9%
Interest Rate Options												
10-YR NOTE	2,709,517	3,441,648	-21.3%	10,946,459	16,157,718	-32.25%	27,719,665	26,488,010	4.6%	124,629,492	125,050,261	-0.3%
2-YR NOTE	183,175	92,553	97.9%	355,694	208,335	70.73%	1,695,956	1,501,380	13.0%	3,973,074	3,918,453	1.4%
30-YR BOND	296,453	333,693	-11.2%	2,715,956	3,334,685	-18.55%	3,508,444	3,532,270	-0.7%	29,726,965	29,017,967	2.4%
5-YR NOTE	869,606	1,245,002	-30.2%	3,064,123	3,946,102	-22.35%	10,242,618	8,018,235	27.7%	40,483,826	29,616,581	36.7%
EURODOLLARS	8,149,556	5,541,787	47.1%	5,745,137	4,426,523	29.79%	147,855,872	97,329,754	51.9%	89,317,648	49,491,941	80.5%
EURO MIDCURVE	3,794,739	8,989,740	-57.8%	2,964,895	6,892,241	-56.98%	70,607,549	97,587,723	-27.6%	56,778,884	59,839,028	-5.1%
FED FUND	200	500	-60.0%	764	5	15,180.00%	56,710	2,250	2,420.4%	21,212	15,968	32.8%
Ultra 10-Year Note	6,793	60	11,221.7%	1	0	0.00%	28,604	100	28,504.0%	5,329	28	18,932.1%
ULTRA T-BOND	37,683	23,531	60.1%	571	2,965	-80.74%	239,157	63,768	275.0%	15,681	30,047	-47.8%

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Equity Index Futures												
BITCOIN FUTURES	0	0	0.0%	105,032	125,751	-16.48%	0	0	0.0%	1,493,780	842,902	77.2%
DJ US REAL ESTATE	0	0	0.0%	15,929	22,713	-29.87%	0	0	0.0%	268,250	255,438	5.0%
E-mini (\$5) Dow	0	0	0.0%	2,710,321	4,883,923	-44.51%	0	0	0.0%	46,728,138	53,279,864	-12.3%
E-MINI COM SERVICES SELEC	0	0	0.0%	1,182	3,122	-62.14%	0	0	0.0%	26,668	6,917	285.5%
E-mini FTSE 100 (USD)	0	0	0.0%	0	1,306	-100.00%	0	0	0.0%	336	15,538	-97.8%
E-mini FTSE China 50	0	0	0.0%	0	498	-100.00%	0	0	0.0%	711	11,249	-93.7%
E-MINI MIDCAP	0	0	0.0%	209,294	354,261	-40.92%	0	0	0.0%	3,537,531	4,177,261	-15.3%
E-MINI NASDAQ 100	0	0	0.0%	6,712,979	13,040,926	-48.52%	0	0	0.0%	106,516,040	108,936,314	-2.2%
E-MINI RUSSELL 1000	0	0	0.0%	2,527	10,332	-75.54%	0	0	0.0%	36,799	96,277	-61.8%
E-MINI RUSSELL 1000 GROWT	0	0	0.0%	1,872	11,185	-83.26%	0	0	0.0%	36,040	86,327	-58.3%
E-MINI RUSSELL 1000 VALUE	0	0	0.0%	4,515	10,799	-58.19%	0	0	0.0%	76,185	106,118	-28.2%
E-MINI RUSSELL 2000	0	0	0.0%	2,180,719	3,093,984	-29.52%	0	0	0.0%	32,764,266	32,143,163	1.9%
E-MINI S&P500	0	0	0.0%	22,770,486	36,983,127	-38.43%	0	0	0.0%	357,880,926	388,896,537	-8.0%
E-MINI S&P REAL ESTATE SEL	0	0	0.0%	5,338	3,373	58.26%	0	0	0.0%	42,269	37,937	11.4%
FT-SE 100	0	0	0.0%	0	1,167	-100.00%	0	0	0.0%	372	13,812	-97.3%
FTSE Emerging	0	0	0.0%	1,814	2,979	-39.11%	0	0	0.0%	23,214	8,030	189.1%
IBOVESPA INDEX	0	0	0.0%	702	136	416.18%	0	0	0.0%	7,638	11,475	-33.4%
MICRO E-MINI NASDAQ 100	0	-	-	3,114,249	-	-	0	-	-	28,582,787	-	-
MICRO E-MINI RUSSELL 2000	0	-	-	483,543	-	-	0	-	-	4,450,282	-	-
MICRO E-MINI S&P500	0	-	-	3,491,980	-	-	0	-	-	38,748,456	-	-
MICRO MINI \$5 DOW	0	-	-	637,607	-	-	0	-	-	7,113,183	-	-
NASDAQ BIOTECH	0	0	0.0%	196	0	0.00%	0	0	0.0%	3,743	0	0.0%
Nearby BTIC+	0	-	-	10	-	-	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%	140,500	267,623	-47.50%	0	0	0.0%	2,373,478	3,422,886	-30.7%
NIKKEI 225 (YEN) STOCK	90	0	0.0%	625,406	850,395	-26.46%	318	0	0.0%	8,906,574	9,818,741	-9.3%
S&P 500	4,365	15,177	-71.2%	477	3,313	-85.60%	225,377	425,797	-47.1%	16,787	49,091	-65.8%
S&P 500 ANNUAL DIVIDEND IN	0	0	0.0%	8,023	6,568	22.15%	0	0	0.0%	102,524	53,051	93.3%
S&P 500/GI	0	0	0.0%	0	0	0.00%	0	0	0.0%	60	73	-17.8%
S&P 500 QUARLY DIVIDEND IN	0	0	0.0%	195	220	-11.36%	0	0	0.0%	2,017	902	123.6%
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 DSCRTNRY S	0	0	0.0%	3,560	21,487	-83.43%	0	0	0.0%	71,408	173,666	-58.9%
S&P CONSUMER STAPLES SE	0	0	0.0%	4,050	13,468	-69.93%	0	0	0.0%	108,695	158,080	-31.2%

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Equity Index Futures												
S&P ENERGY SECTOR	0	0	0.0%	6,588	32,649	-79.82%	0	0	0.0%	121,342	237,603	-48.9%
S&P FINANCIAL SECTOR	0	0	0.0%	8,122	33,904	-76.04%	0	0	0.0%	189,015	340,426	-44.5%
S&P HEALTH CARE SECTOR	0	0	0.0%	6,478	23,765	-72.74%	0	0	0.0%	117,480	163,646	-28.2%
S&P INDUSTRIAL SECTOR	0	0	0.0%	5,184	13,405	-61.33%	0	0	0.0%	85,870	145,660	-41.0%
S&P MATERIALS SECTOR	0	0	0.0%	3,321	9,880	-66.39%	0	0	0.0%	60,052	94,011	-36.1%
S&P TECHNOLOGY SECTOR	0	0	0.0%	5,282	51,906	-89.82%	0	0	0.0%	103,481	314,480	-67.1%
S&P UTILITIES SECTOR	0	0	0.0%	8,536	29,757	-71.31%	0	0	0.0%	167,210	278,732	-40.0%
S&P VALUE INDEX FUTURES	0	0	0.0%	0	0	0.00%	0	0	0.0%	72	80	-10.0%
YEN DENOMINATED TOPIX	0	0	0.0%	15,997	597	2,579.56%	0	0	0.0%	207,748	5,734	3,523.1%
Equity Index Options												
E-mini (\$5) Dow	0	0	0.0%	2,089	8,992	-76.77%	0	0	0.0%	44,465	106,676	-58.3%
E-MINI NASDAQ 100	0	0	0.0%	119,440	249,338	-52.10%	0	0	0.0%	2,218,686	2,683,262	-17.3%
E-MINI RUSSELL 2000	0	0	0.0%	24,331	11,113	118.94%	0	0	0.0%	178,755	143,256	24.8%
E-MINI S&P500	0	0	0.0%	4,897,096	6,606,266	-25.87%	600	14,660	-95.9%	59,967,889	65,060,734	-7.8%
EOM E-MINI RUSSELL 2000 EN	0	0	0.0%	7,910	10,529	-24.87%	0	0	0.0%	95,530	74,388	28.4%
EOM EMINI S&P	0	0	0.0%	1,491,525	2,336,360	-36.16%	0	0	0.0%	21,069,390	28,995,981	-27.3%
EOM S&P 500	119,848	157,237	-23.8%	0	0	0.00%	1,287,013	1,989,998	-35.3%	0	0	0.0%
EOW1 E-MINI RUSSELL 2000 W	0	0	0.0%	1,133	1,702	-33.43%	0	0	0.0%	16,654	22,621	-26.4%
EOW1 E-MINI RUSSELL 2000 W	0	0	0.0%	1,736	1,937	-10.38%	0	0	0.0%	21,406	28,060	-23.7%
EOW1 EMINI S&P 500	0	0	0.0%	501,437	1,164,190	-56.93%	0	0	0.0%	10,676,615	12,387,393	-13.8%
EOW1 S&P 500	69,677	34,448	102.3%	0	0	0.00%	808,221	878,609	-8.0%	0	0	0.0%
EOW2 E-MINI RUSSELL 2000 W	0	0	0.0%	3,279	5,319	-38.35%	0	0	0.0%	54,275	55,304	-1.9%
EOW2 EMINI S&P 500	0	0	0.0%	690,578	1,310,158	-47.29%	0	0	0.0%	10,973,085	14,328,432	-23.4%
EOW2 S&P 500	133,008	132,952	0.0%	0	0	0.00%	1,427,699	1,720,817	-17.0%	0	0	0.0%
EOW3 E-MINI RUSSELL 2000 W	0	0	0.0%	13,752	13,977	-1.61%	0	0	0.0%	165,851	207,503	-20.1%
EOW3 EMINI S&P 500	0	0	0.0%	1,606,088	3,199,095	-49.80%	0	0	0.0%	25,870,467	40,435,024	-36.0%
EOW3 S&P 500	85,636	174,710	-51.0%	0	0	0.00%	1,367,778	2,968,491	-53.9%	0	0	0.0%
EOW4 E-MINI RUSSELL 2000 W	0	0	0.0%	2,748	4,718	-41.75%	0	0	0.0%	35,714	57,976	-38.4%
EOW4 EMINI S&P 500	0	0	0.0%	872,103	990,683	-11.97%	0	0	0.0%	9,496,737	12,419,736	-23.5%
S&P 500	216,652	409,029	-47.0%	0	0	0.00%	2,527,599	3,445,548	-26.6%	0	0	0.0%

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Metals Futures												
ALUMINUM	0	0	0.0%	3,878	550	605.09%	0	0	0.0%	19,914	8,496	134.4%
COMEX COPPER	0	0	0.0%	2,107,219	2,521,183	-16.42%	0	0	0.0%	22,177,136	31,009,521	-28.5%
COMEX E-Mini GOLD	0	0	0.0%	22,811	9,527	139.44%	0	0	0.0%	225,803	91,830	145.9%
COMEX E-Mini SILVER	0	0	0.0%	2,484	1,047	137.25%	0	0	0.0%	47,531	12,554	278.6%
COMEX GOLD	0	0	0.0%	8,674,886	6,115,530	41.85%	0	0	0.0%	78,639,711	73,507,108	7.0%
COMEX MINY COPPER	0	0	0.0%	497	337	47.48%	0	0	0.0%	7,129	4,933	44.5%
COMEX SILVER	0	0	0.0%	2,277,208	2,239,156	1.70%	0	0	0.0%	22,093,704	22,056,704	0.2%
COPPER	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
E-MICRO GOLD	0	0	0.0%	692,043	161,742	327.87%	0	0	0.0%	5,194,918	1,645,616	215.7%
FERROUS PRODUCTS	0	0	0.0%	438	305	43.61%	0	0	0.0%	5,019	1,123	346.9%
GOLD	0	0	0.0%	19,681	0	0.00%	0	0	0.0%	35,351	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	23	-100.00%	0	0	0.0%	28	172	-83.7%
LNDN ZINC	0	0	0.0%	0	2,931	-100.00%	0	0	0.0%	1,230	13,475	-90.9%
NYMEX HOT ROLLED STEEL	0	0	0.0%	1,390	3,633	-61.74%	0	0	0.0%	33,319	33,933	-1.8%
NYMEX PLATINUM	0	0	0.0%	389,538	361,546	7.74%	0	0	0.0%	5,098,036	4,829,803	5.6%
PALLADIUM	0	0	0.0%	127,650	143,577	-11.09%	0	0	0.0%	1,145,883	1,304,704	-12.2%
SILVER	0	0	0.0%	54,536	12,447	338.15%	0	0	0.0%	326,664	89,789	263.8%
URANIUM	0	0	0.0%	0	27	-100.00%	0	0	0.0%	412	793	-48.0%

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Metals Options												
COMEX COPPER	0	0	0.0%	37,385	33,435	11.81%	0	0	0.0%	471,817	240,145	96.5%
COMEX GOLD	0	0	0.0%	789,341	719,309	9.74%	0	0	0.0%	10,966,996	8,548,130	28.3%
COMEX SILVER	0	0	0.0%	146,389	131,793	11.07%	0	0	0.0%	1,834,577	1,415,708	29.6%
COPPER	0	0	0.0%	920	35	2,528.57%	0	0	0.0%	3,292	506	550.6%
GOLD	0	0	0.0%	147,379	49,931	195.17%	0	0	0.0%	1,427,537	461,639	209.2%
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%	674	1,421	-52.57%	0	0	0.0%	15,019	20,018	-25.0%
PALLADIUM	0	0	0.0%	508	443	14.67%	0	0	0.0%	6,534	15,010	-56.5%
SILVER	0	0	0.0%	8,749	3,629	141.09%	0	0	0.0%	69,747	24,104	189.4%
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 NOV 2019	Open Outcry NOV 2018	% CHG	ELEC NOV 2019	ELEC NOV 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%	1,729,275	2,220,732	-22.13%	0	0	0.0%	23,349,524	19,734,445	18.3%
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%	0	66	-100.00%	0	0	0.0%	509	2,071	-75.4%
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	16	-100.00%	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%	18,672,804	26,959,935	-30.74%	0	0	0.0%	266,946,779	278,488,076	-4.1%
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 NOV 2019	Open Outcry NOV 2018	% CHG	ELEC NOV 2019	ELEC NOV 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%	25,146	3,685	582.39%	0	0	0.0%	126,780	18,071	601.6%
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%	3,618	12,343	-70.69%	0	0	0.0%	76,685	101,269	-24.3%
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 NOV 2019	Open Outcry NOV 2018	% CHG	ELEC NOV 2019	ELEC NOV 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%	84	1,254	-93.30%	0	0	0.0%	1,228	6,929	-82.3%
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%	811	1,377	-41.10%	0	0	0.0%	23,953	4,479	434.8%
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 NOV 2019	Open Outcry NOV 2018	% CHG	ELEC NOV 2019	ELEC NOV 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 CLNDR	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 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	-	-
HEATING OIL PHY	0	0	0.0%	3,689,352	4,309,272	-14.39%	0	0	0.0%	36,916,115	40,965,345	-9.9%
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	9,147	-100.00%	0	0	0.0%	122	68,731	-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 NOV 2019	Open Outcry NOV 2018	% CHG	ELEC NOV 2019	ELEC NOV 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%	158,979	303,243	-47.57%	0	0	0.0%	1,712,953	2,364,603	-27.6%
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%	480	575	-16.5%
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%	1,057	0	0.00%	0	0	0.0%	6,802	731	830.5%
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%	4	4	0.00%	0	0	0.0%	36	44	-18.2%
MINY NATURAL GAS	0	0	0.0%	58,117	112,587	-48.38%	0	0	0.0%	385,549	387,425	-0.5%
MINY RBOB GAS	0	0	0.0%	6	6	0.00%	0	0	0.0%	69	43	60.5%
MINY WTI CRUDE OIL	0	0	0.0%	358,951	615,655	-41.70%	0	0	0.0%	5,161,441	4,074,872	26.7%
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	3	100.00%	0	0	0.0%	118	212	-44.3%
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	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 NOV 2019	Open Outcry NOV 2018	% CHG	ELEC NOV 2019	ELEC NOV 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%	32,571	76,626	-57.49%	0	0	0.0%	424,009	560,641	-24.4%
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%	9,695,989	13,892,304	-30.21%	0	0	0.0%	91,185,560	103,290,989	-11.7%
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	10	-100.00%	0	0	0.0%	19	77	-75.3%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2019	Open Outcry NOV 2018	% CHG	ELEC NOV 2019	ELEC NOV 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 NOV 2019	Open Outcry NOV 2018	% CHG	ELEC NOV 2019	ELEC NOV 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 NOV 2019	Open Outcry NOV 2018	% CHG	ELEC NOV 2019	ELEC NOV 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%	3,413,095	3,784,893	-9.82%	0	0	0.0%	43,782,445	43,873,965	-0.2%
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 NOV 2019	Open Outcry NOV 2018	% CHG	ELEC NOV 2019	ELEC NOV 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%	295	2,031	-85.48%	0	0	0.0%	6,339	48,262	-86.9%
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 NOV 2019	Open Outcry NOV 2018	% CHG	ELEC NOV 2019	ELEC NOV 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	12	-100.00%	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	100	-100.00%	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%	58,679	126,936	-53.77%	0	0	0.0%	684,795	804,649	-14.9%
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%	2,900	37,230	-92.21%	0	0	0.0%	90,787	188,985	-52.0%
CRUDE OIL APO	0	0	0.0%	0	5	-100.00%	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%	1,726,287	4,817,911	-64.17%	0	0	0.0%	25,709,047	34,536,143	-25.6%
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%	6,176	7,385	-16.37%	0	0	0.0%	50,872	58,392	-12.9%
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%	10,902	250	4,260.80%	0	0	0.0%	39,375	2,629	1,397.7%
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 NOV 2019	Open Outcry NOV 2018	% CHG	ELEC NOV 2019	ELEC NOV 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%	1,450,250	2,182,172	-33.54%	0	0	0.0%	11,418,550	15,184,583	-24.8%
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%	23	44	-47.73%	0	0	0.0%	443	602	-26.4%
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%	17	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%	2,545	2,901	-12.27%	0	0	0.0%	37,536	36,662	2.4%
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%	1	0	0.00%	0	0	0.0%	44	996	-95.6%
SHORT TERM NATURAL GAS	0	0	0.0%	4	0	0.00%	0	0	0.0%	88	1,005	-91.2%
SINGAPORE GASOIL CALEND	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%	1,400	2,300	-39.13%	0	0	0.0%	39,105	148,335	-73.6%
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%	6	2	200.00%	0	0	0.0%	148	55	169.1%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2019	Open Outcry NOV 2018	% CHG	ELEC NOV 2019	ELEC NOV 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%	980	3,090	-68.28%	0	0	0.0%	27,663	45,521	-39.2%
AD/NE CROSS RATES	0	0	0.0%	200	62	222.58%	0	0	0.0%	1,666	795	109.6%
AUSTRALIAN DOLLAR	0	0	0.0%	1,756,359	2,223,688	-21.02%	0	0	0.0%	22,822,746	25,768,304	-11.4%
BDI	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
BP/JY CROSS RATES	0	0	0.0%	1,255	2,049	-38.75%	0	0	0.0%	32,819	32,759	0.2%
BP/SF CROSS RATES	0	0	0.0%	274	172	59.30%	0	0	0.0%	4,337	3,853	12.6%
BRAZIL REAL	0	0	0.0%	191,498	86,134	122.33%	0	0	0.0%	1,506,377	1,110,191	35.7%
BRITISH POUND	0	0	0.0%	1,726,501	2,861,731	-39.67%	3	10	-70.0%	27,176,648	29,765,078	-8.7%
CANADIAN DOLLAR	0	0	0.0%	1,345,582	1,544,012	-12.85%	3	45	-93.3%	17,999,702	18,954,703	-5.0%
CD/JY CROSS RATES	0	0	0.0%	9	0	0.00%	0	0	0.0%	140	949	-85.2%
CHINESE RENMINBI (CNH)	0	0	0.0%	26,102	20,793	25.53%	0	0	0.0%	309,098	98,437	214.0%
CZECK KORUNA (EC)	0	0	0.0%	0	2	-100.00%	0	0	0.0%	30	8	275.0%
CZECK KORUNA (US)	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	15	-100.0%
EC/AD CROSS RATES	0	0	0.0%	3,639	1,155	215.06%	0	0	0.0%	49,579	20,915	137.0%
EC/CD CROSS RATES	0	0	0.0%	920	744	23.66%	0	0	0.0%	32,882	33,075	-0.6%
EC/NOK CROSS RATES	0	0	0.0%	359	173	107.51%	0	0	0.0%	5,582	4,165	34.0%
EC/SEK CROSS RATES	0	0	0.0%	322	110	192.73%	0	0	0.0%	6,932	8,090	-14.3%
EFX/BP CROSS RATES	0	0	0.0%	49,502	61,271	-19.21%	0	0	0.0%	1,016,373	873,700	16.3%
EFX/JY CROSS RATES	0	0	0.0%	42,060	42,635	-1.35%	0	0	0.0%	727,115	845,610	-14.0%
EFX/SF CROSS RATES	0	0	0.0%	20,813	19,142	8.73%	0	0	0.0%	369,304	313,613	17.8%
E-MICRO AUD/USD	0	0	0.0%	74,851	123,047	-39.17%	0	0	0.0%	1,126,116	1,201,816	-6.3%
E-MICRO CAD/USD	0	0	0.0%	12,542	15,649	-19.85%	0	0	0.0%	184,774	189,497	-2.5%
E-MICRO CHF/USD	0	0	0.0%	4,925	1,481	232.55%	0	0	0.0%	35,838	16,267	120.3%
E-MICRO EUR/USD	0	0	0.0%	138,015	324,646	-57.49%	0	0	0.0%	2,485,195	4,037,284	-38.4%
E-MICRO GBP/USD	0	0	0.0%	57,698	53,401	8.05%	0	0	0.0%	586,598	509,258	15.2%
E-MICRO INR/USD	0	0	0.0%	3,231	5,994	-46.10%	0	0	0.0%	52,594	54,678	-3.8%
E-MICRO JPY/USD	0	0	0.0%	15,738	24,174	-34.90%	0	0	0.0%	302,621	331,003	-8.6%
E-MINI EURO FX	0	0	0.0%	50,501	84,842	-40.48%	0	0	0.0%	1,005,082	1,121,476	-10.4%
E-MINI JAPANESE YEN	0	0	0.0%	18,070	9,376	92.73%	0	0	0.0%	191,472	140,981	35.8%
EURO FX	0	2	-100.0%	2,970,600	4,606,155	-35.51%	60	544	-89.0%	46,476,529	62,903,914	-26.1%
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%	4	0	0.00%	0	0	0.0%	16	0	0.0%
INDIAN RUPEE	0	0	0.0%	27,180	99,328	-72.64%	0	0	0.0%	715,615	1,010,786	-29.2%
JAPANESE YEN	0	4	-100.0%	2,294,184	2,704,644	-15.18%	2	111	-98.2%	29,426,507	33,442,354	-12.0%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2019	Open Outcry NOV 2018	% CHG	ELEC NOV 2019	ELEC NOV 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												
KOREAN WON	0	0	0.0%	187	391	-52.17%	0	0	0.0%	3,228	2,791	15.7%
MEXICAN PESO	0	0	0.0%	931,688	1,280,686	-27.25%	0	0	0.0%	13,561,352	15,441,433	-12.2%
NEW ZEALND DOLLAR	0	0	0.0%	509,890	623,641	-18.24%	0	0	0.0%	6,247,719	6,896,725	-9.4%
NKR/USD CROSS RATE	0	0	0.0%	3,712	2,756	34.69%	0	0	0.0%	51,150	52,629	-2.8%
POLISH ZLOTY (EC)	0	0	0.0%	0	22	-100.00%	0	0	0.0%	452	208	117.3%
POLISH ZLOTY (US)	0	0	0.0%	273	54	405.56%	0	0	0.0%	1,378	934	47.5%
RMB USD	0	0	0.0%	1	0	0.00%	0	0	0.0%	9	25	-64.0%
RUSSIAN RUBLE	0	0	0.0%	25,449	42,376	-39.94%	0	0	0.0%	749,242	568,752	31.7%
S.AFRICAN RAND	0	0	0.0%	41,604	37,222	11.77%	0	0	0.0%	565,774	497,058	13.8%
SF/JY CROSS RATES	0	0	0.0%	10	0	0.00%	0	0	0.0%	35	7	400.0%
SHEKEL	0	0	0.0%	7	0	0.00%	0	0	0.0%	20	0	0.0%
SKR/USD CROSS RATES	0	0	0.0%	2,693	2,788	-3.41%	0	0	0.0%	29,874	48,253	-38.1%
SWISS FRANC	0	0	0.0%	532,279	477,324	11.51%	0	0	0.0%	6,313,518	6,476,230	-2.5%
TURKISH LIRA	0	0	0.0%	9	0	0.00%	0	0	0.0%	79	10	690.0%
USDZAR	0	0	0.0%	0	0	0.00%	0	0	0.0%	20	15	33.3%
FX Options												
AUD/USD MONTHLY OPTIONS	20	0	0.0%	53,252	102,574	-48.08%	20	600	-96.7%	756,749	925,370	-18.2%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	293	2,162	-86.45%	0	0	0.0%	21,655	44,288	-51.1%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	3,362	5,864	-42.67%	0	0	0.0%	62,001	73,975	-16.2%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	3,442	10,646	-67.67%	0	0	0.0%	68,938	108,287	-36.3%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	4,847	7,655	-36.68%	0	0	0.0%	71,871	111,847	-35.7%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	3,308	7,821	-57.70%	0	0	0.0%	19,848	33,662	-41.0%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	1,466	7,882	-81.40%	0	0	0.0%	18,378	35,803	-48.7%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	1,419	2,590	-45.21%	0	0	0.0%	18,660	26,361	-29.2%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	709	774	-8.40%	0	0	0.0%	8,847	13,582	-34.9%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	2,068	1,227	68.54%	0	0	0.0%	15,333	23,101	-33.6%
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	2	-100.00%	0	0	0.0%	0	279	-100.0%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2019	Open Outcry NOV 2018	% CHG	ELEC NOV 2019	ELEC NOV 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	-	-	1,093	-		0	-	-	1,821	-	-
CAD/USD MONTHLY OPTIONS	245	334	-26.6%	51,587	60,960	-15.38%	1,314	3,040	-56.8%	575,073	919,224	-37.4%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	702	2,402	-70.77%	0	0	0.0%	36,274	65,216	-44.4%
CAD/USD WKLY FRIDAY OPTIC	10	0	0.0%	4,651	3,576	30.06%	10	0	0.0%	69,989	128,850	-45.7%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	6,163	10,747	-42.65%	0	0	0.0%	100,230	187,277	-46.5%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	11,005	16,194	-32.04%	0	0	0.0%	109,988	182,607	-39.8%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	11,860	11,526	2.90%	0	0	0.0%	36,224	64,247	-43.6%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	4,564	1,609	183.65%	0	0	0.0%	33,690	35,606	-5.4%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	3,825	2,248	70.15%	0	0	0.0%	36,556	37,712	-3.1%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	2,769	6,861	-59.64%	0	0	0.0%	32,787	47,361	-30.8%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	4,488	3,940	13.91%	0	0	0.0%	31,162	43,466	-28.3%
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%	6,670	851	683.78%	0	0	0.0%	31,921	25,308	26.1%
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%	405	0	0.00%	0	0	0.0%	2,762	756	265.3%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	69	1	6,800.00%	0	0	0.0%	1,834	920	99.3%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	62	0	0.00%	0	0	0.0%	1,539	1,801	-14.5%
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	244	2,327	-89.5%	205,857	412,540	-50.10%	9,481	13,224	-28.3%	3,819,537	5,573,014	-31.5%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,806	12,669	-85.74%	0	80	-100.0%	110,935	278,959	-60.2%
EUR/USD WKLY FRIDAY OPTIC	15	0	0.0%	7,099	17,111	-58.51%	15	0	0.0%	268,621	345,631	-22.3%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	14,403	48,277	-70.17%	0	1,800	-100.0%	316,763	544,506	-41.8%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	17,994	33,861	-46.86%	0	750	-100.0%	363,573	548,852	-33.8%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	18,007	29,099	-38.12%	0	0	0.0%	99,598	153,317	-35.0%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	11,061	14,535	-23.90%	0	0	0.0%	138,746	142,195	-2.4%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	8,816	18,470	-52.27%	0	0	0.0%	133,939	137,925	-2.9%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	8,099	9,787	-17.25%	0	0	0.0%	135,254	128,844	5.0%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	9,478	7,615	24.46%	0	0	0.0%	150,169	146,970	2.2%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2019	Open Outcry NOV 2018	% CHG	ELEC NOV 2019	ELEC NOV 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	0	260	-100.0%	74,304	246,275	-69.83%	906	882	2.7%	1,326,180	2,018,369	-34.3%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	7	4,088	-99.83%	0	0	0.0%	29,987	71,530	-58.1%
GBP/USD WKLY FRIDAY OPTIC	20	0	0.0%	2,447	8,349	-70.69%	36	0	0.0%	65,470	135,427	-51.7%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,590	23,448	-93.22%	0	30	-100.0%	92,885	213,659	-56.5%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,985	12,225	-75.58%	0	0	0.0%	88,599	215,479	-58.9%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	3,551	7,347	-51.67%	0	0	0.0%	29,301	51,741	-43.4%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	758	5,545	-86.33%	0	0	0.0%	23,045	39,426	-41.5%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	3,565	13,116	-72.82%	0	0	0.0%	27,528	50,755	-45.8%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	576	10,386	-94.45%	0	0	0.0%	26,419	56,633	-53.4%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	208	3,084	-93.26%	0	0	0.0%	23,583	47,387	-50.2%
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	0	20	-100.0%	116,701	149,812	-22.10%	207	4,485	-95.4%	1,519,490	1,816,072	-16.3%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	465	3,684	-87.38%	0	0	0.0%	56,218	91,683	-38.7%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	7,565	5,685	33.07%	0	0	0.0%	103,430	159,433	-35.1%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	9,976	28,262	-64.70%	0	0	0.0%	155,026	236,309	-34.4%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	8,208	12,494	-34.30%	0	0	0.0%	145,712	238,104	-38.8%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	11,053	13,041	-15.24%	0	0	0.0%	59,193	61,599	-3.9%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	4,143	4,693	-11.72%	0	0	0.0%	50,173	48,185	4.1%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	3,115	5,286	-41.07%	0	0	0.0%	46,071	51,876	-11.2%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	4,071	7,340	-44.54%	0	0	0.0%	47,356	43,938	7.8%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	3,577	2,599	37.63%	0	0	0.0%	46,541	50,863	-8.5%
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	175	400	-56.3%	1,207	1,219	-0.98%	1,145	6,118	-81.3%	14,799	15,453	-4.2%
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%	247	0	0.00%	0	0	0.0%	1,350	286	372.0%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	201	0	0.00%	0	0	0.0%	530	632	-16.1%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	28	0	0.00%	0	0	0.0%	28	0	0.0%
NZD/USD MONTHLY OPTIONS	0	0	0.0%	1,285	1,017	26.35%	0	0	0.0%	7,734	1,032	649.4%
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	-	-	50	-		0	-	-	170	-	-

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CME Group Exchange Volume Comparison Report - Monthly

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FX Options												
NZD/USD WKLY FRIDAY OPTIO	0	-	-	0	-		0	-	-	306	-	-
NZD/USD WKLY FRIDAY OPTIO	0	-	-	600	-		0	-	-	750	-	-
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	134	-100.00%	0	0	0.0%	0	12,942	-100.0%
Foreign Exchange Options												
AUD/USD WKLY WED OPTIONS	0	0	0.0%	159	479	-66.81%	0	0	0.0%	8,919	9,681	-7.9%
Ag Products Futures												
BUTTER CS	0	0	0.0%	4,119	4,440	-7.23%	0	0	0.0%	46,826	47,001	-0.4%
CASH-SETTLED CHEESE	0	0	0.0%	11,161	13,239	-15.70%	0	0	0.0%	119,679	120,259	-0.5%
CATTLE	744	128	481.3%	1,486,828	1,466,221	1.41%	12,306	12,971	-5.1%	15,713,478	15,294,230	2.7%
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	8,281	6,896	20.1%	2,589,174	3,031,498	-14.59%	74,858	147,612	-49.3%	28,386,370	34,898,773	-18.7%
CLASS IV MILK	0	3	-100.0%	1,121	2,127	-47.30%	158	3	5,166.7%	24,193	8,418	187.4%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2019	Open Outcry NOV 2018	% CHG	ELEC NOV 2019	ELEC NOV 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%	2	0	0.00%	0	0	0.0%	2	0	0.0%
CORN	11,196	21,727	-48.5%	7,992,815	9,278,538	-13.86%	247,123	357,667	-30.9%	96,306,928	89,564,532	7.5%
COTTON	0	0	0.0%	0	1	-100.00%	0	0	0.0%	38	21	81.0%
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%	8,522	58,173	-85.35%	0	0	0.0%	468,884	838,770	-44.1%
DRY WHEY	0	0	0.0%	1,364	1,009	35.18%	0	0	0.0%	13,689	15,359	-10.9%
FEEDER CATTLE	27	21	28.6%	234,304	226,098	3.63%	205	38	439.5%	3,362,774	3,296,953	2.0%
FERTILIZER PRODUCS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GOLDMAN SACHS	0	0	0.0%	24,774	31,129	-20.42%	0	0	0.0%	307,474	343,251	-10.4%
GSCI EXCESS RETURN FUT	0	0	0.0%	87	202	-56.93%	0	0	0.0%	421	818	-48.5%
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	1,372	1,432	-4.2%	1,232,383	1,259,546	-2.16%	17,141	17,211	-0.4%	14,694,345	12,760,457	15.2%
HOUSING INDEX	0	0	0.0%	14	11	27.27%	0	0	0.0%	142	100	42.0%
Intercommodity Spread	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
KC WHEAT	867	315	175.2%	1,538,067	1,337,072	15.03%	9,685	12,435	-22.1%	14,133,884	14,323,304	-1.3%
LUMBER	0	0	0.0%	12,514	13,993	-10.57%	0	0	0.0%	150,180	202,554	-25.9%
MALAYSIAN PALM SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MILK	54	0	0.0%	31,121	30,949	0.56%	356	1,239	-71.3%	299,225	271,744	10.1%
MINI CORN	0	0	0.0%	13,858	12,003	15.45%	0	0	0.0%	162,530	112,705	44.2%
MINI SOYBEAN	0	0	0.0%	13,673	24,396	-43.95%	0	0	0.0%	204,260	252,870	-19.2%
MINI WHEAT	0	0	0.0%	5,399	5,946	-9.20%	0	0	0.0%	83,477	84,952	-1.7%
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%	5,801	5,784	0.29%	19	43	-55.8%	67,290	55,682	20.8%
OATS	0	3	-100.0%	18,689	19,766	-5.45%	0	43	-100.0%	144,552	157,180	-8.0%
ROUGH RICE	0	32	-100.0%	10,590	6,833	54.98%	31	58	-46.6%	215,236	197,345	9.1%
SOYBEAN	3,995	14,073	-71.6%	3,260,624	3,331,046	-2.11%	64,906	171,824	-62.2%	45,967,678	51,779,288	-11.2%
SOYBEAN MEAL	1,429	1,636	-12.7%	2,925,193	2,357,910	24.06%	11,858	36,624	-67.6%	25,516,319	28,702,468	-11.1%
SOYBEAN OIL	608	369	64.8%	3,163,908	3,073,565	2.94%	7,675	15,854	-51.6%	27,832,334	28,143,707	-1.1%
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 NOV 2019	Open Outcry NOV 2018	% CHG	ELEC NOV 2019	ELEC NOV 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%	417	0	0.00%	0	0	0.0%	8,290	22	37,581.8%
Ag Products Options												
AUG-NOV SOYBEAN CAL SPR	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
BUTTER CS	458	196	133.7%	1,941	3,448	-43.71%	4,946	10,712	-53.8%	29,084	33,272	-12.6%
CASH-SETTLED CHEESE	1,422	1,926	-26.2%	5,633	6,100	-7.66%	17,587	31,062	-43.4%	85,514	78,368	9.1%
CATTLE	12,705	12,312	3.2%	208,392	149,990	38.94%	270,280	277,604	-2.6%	2,001,777	2,217,257	-9.7%
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	50,889	69,558	-26.8%	320,723	467,792	-31.44%	979,913	1,907,844	-48.6%	5,788,997	6,939,226	-16.6%
CLASS IV MILK	0	307	-100.0%	1,354	1,326	2.11%	3,605	1,088	231.3%	33,976	11,526	194.8%
CORN	211,045	286,978	-26.5%	1,267,049	1,319,282	-3.96%	4,562,748	5,967,025	-23.5%	25,531,575	18,173,071	40.5%
CORN NEARBY+2 CAL SPRD	6,905	4,730	46.0%	31	50	-38.00%	77,843	30,718	153.4%	3,352	150	2,134.7%
DEC-DEC CORN CAL SPRD	151	0	0.0%	206	0	0.00%	14,198	18,242	-22.2%	4,596	33	13,827.3%
DEC-JULY CORN CAL SPRD	6,517	2,075	214.1%	90	0	0.00%	27,519	18,499	48.8%	236	0	0.0%
DEC-JULY WHEAT CAL SPRD	50	50	0.0%	1	0	0.00%	100	1,744	-94.3%	2	0	0.0%
DRY WHEY	0	0	0.0%	146	88	65.91%	747	1,355	-44.9%	7,206	5,216	38.2%
FEEDER CATTLE	974	1,392	-30.0%	19,826	23,307	-14.94%	20,827	20,159	3.3%	303,450	298,254	1.7%
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%	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	19,270	33,769	-42.9%	243,935	193,646	25.97%	321,231	304,284	5.6%	3,606,387	2,303,868	56.5%
HOUSING INDEX	0	0	0.0%	0	0	0.00%	0	0	0.0%	7	0	0.0%
Intercommodity Spread	5,200	395	1,216.5%	5	0	0.00%	6,319	10,713	-41.0%	5	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	4,000	400	900.0%	0	0	0.00%	17,632	10,576	66.7%	1,152	100	1,052.0%
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	0	200	-100.0%	0	0	0.00%	1,500	2,165	-30.7%	0	455	-100.0%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2019	Open Outcry NOV 2018	% CHG	ELEC NOV 2019	ELEC NOV 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	38	780	-95.1%	0	17	-100.00%	6,245	56,383	-88.9%	1,620	2,615	-38.0%
KC WHEAT	10,869	14,442	-24.7%	63,733	38,260	66.58%	227,780	344,095	-33.8%	773,794	590,268	31.1%
LUMBER	0	7	-100.0%	1,536	1,526	0.66%	70	223	-68.6%	18,772	19,264	-2.6%
LV CATL CSO	20	14	42.9%	0	0	0.00%	549	316	73.7%	0	0	0.0%
MAR-DEC CORN CAL SPRD	0	-	-	0	-	-	9	-	-	0	-	-
MAR-JULY CORN CAL SPRD	4,000	0	0.0%	0	0	0.00%	4,040	0	0.0%	0	0	0.0%
MAR-JULY WHEAT CAL SPRD	0	0	0.0%	0	0	0.00%	0	200	-100.0%	30	0	0.0%
MILK	632	2,325	-72.8%	35,294	35,040	0.72%	23,066	61,007	-62.2%	395,665	326,415	21.2%
MLK MID OPTIONS	4	6	-33.3%	0	1	-100.00%	35	431	-91.9%	194	28	592.9%
NFD MILK	47	456	-89.7%	2,628	5,258	-50.02%	2,058	9,116	-77.4%	55,149	46,028	19.8%
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	52	190	-72.6%	146	460	-68.26%	2,494	2,093	19.2%	2,153	4,316	-50.1%
ROUGH RICE	2,290	431	431.3%	374	463	-19.22%	22,829	8,411	171.4%	10,054	8,920	12.7%
SEP-DEC SOYBEAN MEAL CSC	0	0	0.0%	0	0	0.00%	0	1,170	-100.0%	0	0	0.0%
SOYBEAN	98,441	187,517	-47.5%	760,349	1,141,028	-33.36%	1,475,307	3,181,841	-53.6%	10,850,024	14,659,940	-26.0%
SOYBEAN CRUSH	127	0	0.0%	0	0	0.00%	306	185	65.4%	0	0	0.0%
SOYBEAN MEAL	48,509	38,466	26.1%	139,120	105,046	32.44%	372,885	1,044,245	-64.3%	1,422,269	2,032,566	-30.0%
SOYBEAN OIL	33,033	26,110	26.5%	125,345	99,010	26.60%	227,255	402,997	-43.6%	1,130,280	905,312	24.8%
SOYBN NEARBY+2 CAL SPRD	25	0	0.0%	0	0	0.00%	3,525	10	35,150.0%	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	0	77	-100.0%	1,860	0	0.00%	10,800	2,987	261.6%	10,106	335	2,916.7%
WHEAT-CORN ICSO	0	0	0.0%	0	0	0.00%	2,880	5,780	-50.2%	0	0	0.0%
WHEAT NEARBY+2 CAL SPRD	0	255	-100.0%	0	50	-100.00%	2,440	9,487	-74.3%	300	4,531	-93.4%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2019	Open Outcry NOV 2018	% CHG	ELEC NOV 2019	ELEC NOV 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	624,509	907,089	-31.2%	153,846,768	187,295,825	-17.9%	10,377,079	10,841,480	-4.3%	1,726,198,249	1,681,665,617	2.6%
Equity Index Futures	4,455	15,177	-70.6%	43,292,014	59,908,519	-27.7%	225,695	425,797	-47.0%	640,971,478	604,236,466	6.1%
Metals Futures	0	0	0.0%	14,374,259	11,573,561	24.2%	0	0	0.0%	135,051,788	134,610,690	0.3%
Energy Futures	0	0	0.0%	37,840,160	52,305,189	-27.7%	0	0	0.0%	470,107,711	494,019,740	-4.8%
FX Futures	0	6	-100.0%	12,881,722	17,386,962	-25.9%	68	710	-90.4%	182,201,948	212,824,220	-14.4%
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	134	-100.0%	0	0	0.0%	0	12,942	-100.0%
Ag Products Futures	28,573	46,635	-38.7%	24,586,522	25,591,495	-3.9%	446,321	773,622	-42.3%	274,230,541	281,472,881	-2.6%
TOTAL FUTURES	657,537	968,907	-32.1%	286,821,445	354,061,685	-19.0%	11,049,163	12,041,609	-8.2%	3,428,761,715	3,408,842,556	0.6%
TOTAL OPTIONS GROUP												
Equity Index Options	624,821	908,376	-31.2%	10,235,245	15,914,377	-35.7%	7,418,910	11,018,123	-32.7%	140,885,519	177,006,346	-20.4%
Interest Rate Options	16,047,722	19,668,514	-18.4%	25,793,600	34,968,574	-26.2%	261,954,575	234,523,490	11.7%	344,952,111	296,980,274	16.2%
Metals Options	0	0	0.0%	1,131,345	939,996	20.4%	0	0	0.0%	14,795,519	10,725,260	38.0%
Energy Options	0	0	0.0%	3,259,184	7,177,246	-54.6%	0	0	0.0%	38,081,180	50,981,422	-25.3%
FX Options	729	3,341	-78.2%	749,182	1,443,071	-48.1%	13,134	31,009	-57.6%	11,765,908	17,006,386	-30.8%
Ag Products Options	517,673	685,364	-24.5%	3,199,717	3,591,188	-10.9%	8,713,742	13,754,631	-36.6%	52,074,440	48,661,334	7.0%
Foreign Exchange Options	0	0	0.0%	159	479	-66.8%	0	0	0.0%	8,919	9,681	-7.9%
TOTAL OPTIONS	17,190,945	21,265,595	-19.2%	44,368,432	64,034,931	-30.7%	278,100,361	259,327,253	7.2%	602,563,596	601,370,703	0.2%
TOTAL COMBINED												
Interest Rate	16,672,231	20,575,603	-19.0%	179,640,368	222,264,399	-19.2%	272,331,654	245,364,970	11.0%	2,071,150,360	1,978,645,891	4.7%
Equity Index	629,276	923,553	-31.9%	53,527,259	75,822,896	-29.4%	7,644,605	11,443,920	-33.2%	781,856,997	781,242,812	0.1%
Metals	0	0	0.0%	15,505,604	12,513,557	23.9%	0	0	0.0%	149,847,307	145,335,950	3.1%
Energy	0	0	0.0%	41,099,344	59,482,435	-30.9%	0	0	0.0%	508,188,891	545,001,162	-6.8%
FX	729	3,347	-78.2%	13,630,904	18,830,033	-27.6%	13,202	31,719	-58.4%	193,967,856	229,830,606	-15.6%
Ags	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
Foreign Exchange	0	0	0.0%	159	613	-74.1%	0	0	0.0%	8,919	22,623	-60.6%
Ag Products	546,246	731,999	-25.4%	27,786,239	29,182,683	-4.8%	9,160,063	14,528,253	-37.0%	326,304,981	330,134,215	-1.2%
GRAND TOTAL	17,848,482	22,234,502	-19.7%	331,189,877	418,096,616	-20.8%	289,149,524	271,368,862	6.6%	4,031,325,311	4,010,213,259	0.5%

*** 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.

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.