



CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2018	Open Outcry DEC 2017	% CHG	ELEC DEC 2018	ELEC DEC 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG
Interest Rate Futures												
10-YR NOTE	96,179	76,859	25.1%	30,554,892	22,481,895	35.91%	1,624,474	1,463,005	11.0%	442,415,411	363,525,662	21.7%
10-YR SWAP RATE	0	0	0.0%	80,616	65,695	22.71%	0	0	0.0%	489,472	528,048	-7.3%
15-YR SWAP RATE	0	-	-	0	-	-	0	-	-	0	-	-
1-MONTH EURODOLLAR	0	0	0.0%	595	11,747	-94.93%	0	0	0.0%	31,937	63,522	-49.7%
20-YR SWAP RATE	0	-	-	0	-	-	0	-	-	0	-	-
2-YR NOTE	1,713	871	96.7%	7,927,444	5,731,653	38.31%	33,971	20,416	66.4%	125,079,260	89,664,036	39.5%
2-YR SWAP RATE	0	0	0.0%	21,774	0	0.00%	0	0	0.0%	21,774	0	0.0%
30-YR BOND	13,704	18,420	-25.6%	6,822,531	4,976,636	37.09%	245,835	200,619	22.5%	90,825,705	71,694,519	26.7%
30-YR SWAP RATE	0	0	0.0%	300	376	-20.21%	0	0	0.0%	1,283	10,759	-88.1%
3-YR SWAP RATE	0	-	-	1,628	-	-	0	-	-	1,628	-	-
4-YR SWAP RATE	0	-	-	3,016	-	-	0	-	-	3,016	-	-
5-YR NOTE	19,442	18,277	6.4%	19,200,636	13,851,168	38.62%	398,088	262,852	51.4%	273,755,486	215,031,434	27.3%
5-YR SWAP RATE	0	0	0.0%	98,742	58,306	69.35%	0	0	0.0%	347,046	521,161	-33.4%
7-YR SWAP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
7-YR SWAP RATE	0	-	-	3,304	-	-	0	-	-	3,304	-	-
EURODOLLARS	619,962	642,085	-3.4%	70,723,083	45,454,095	55.59%	9,289,882	7,649,506	21.4%	743,785,327	623,495,814	19.3%
FED FUND	0	0	0.0%	7,920,464	2,895,858	173.51%	0	30	-100.0%	64,783,693	47,510,315	36.4%
SOFR	0	-	-	274,162	-	-	0	-	-	1,050,064	-	-
SONIA	0	-	-	112,287	-	-	0	-	-	298,611	-	-
Ultra 10-Year Note	0	0	0.0%	3,517,424	2,244,964	56.68%	0	8	-100.0%	45,280,233	28,042,518	61.5%
ULTRA T-BOND	41	0	0.0%	2,851,699	1,942,406	46.81%	271	15	1,706.7%	43,606,964	31,422,795	38.8%
Interest Rate Options												
10-YR NOTE	2,220,981	1,489,285	49.1%	10,639,285	6,038,413	76.19%	28,708,991	25,824,325	11.2%	135,689,546	100,017,231	35.7%
2-YR NOTE	87,004	129,635	-32.9%	282,098	138,925	103.06%	1,604,134	854,698	87.7%	4,319,719	1,433,809	201.3%
30-YR BOND	260,127	266,538	-2.4%	2,496,958	1,861,637	34.13%	3,792,397	3,077,606	23.2%	31,514,925	24,035,392	31.1%
5-YR NOTE	795,561	391,781	103.1%	2,747,555	1,348,502	103.75%	8,798,046	6,425,242	36.9%	32,244,968	22,801,602	41.4%
EURODOLLARS	8,450,205	6,581,550	28.4%	4,724,306	3,758,222	25.71%	105,779,959	95,633,923	10.6%	54,216,247	46,782,381	15.9%
EURO MIDCURVE	8,543,713	7,475,241	14.3%	4,926,969	3,835,511	28.46%	106,131,436	105,942,974	0.2%	64,765,997	67,671,055	-4.3%
FED FUND	1,000	0	0.0%	39	0	0.00%	3,250	15,398	-78.9%	16,007	1,482	980.1%
Ultra 10-Year Note	0	0	0.0%	0	0	0.00%	100	1,652	-93.9%	28	6,835	-99.6%
ULTRA T-BOND	25,486	1,897	1,243.5%	1,134	3,857	-70.60%	89,254	14,340	522.4%	31,181	25,964	20.1%

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Equity Index Futures												
BITCOIN FUTURES	0	0	0.0%	80,055	9,498	742.86%	0	0	0.0%	922,957	9,498	9,617.4%
DJ US REAL ESTATE	0	0	0.0%	56,355	28,884	95.11%	0	0	0.0%	311,793	203,329	53.3%
E-mini (\$5) Dow	0	0	0.0%	6,919,613	2,839,516	143.69%	0	0	0.0%	60,199,477	32,762,878	83.7%
E-mini FTSE 100 (USD)	0	0	0.0%	748	958	-21.92%	0	0	0.0%	16,286	3,030	437.5%
E-mini FTSE China 50	0	0	0.0%	1,038	2,422	-57.14%	0	0	0.0%	12,287	21,713	-43.4%
E-MINI MIDCAP	0	0	0.0%	605,951	436,225	38.91%	0	0	0.0%	4,783,212	4,196,882	14.0%
E-MINI NASDAQ 100	0	0	0.0%	14,580,088	6,467,768	125.43%	0	0	0.0%	123,516,402	68,947,756	79.1%
E-MINI RUSSELL 1000	0	0	0.0%	10,648	9,081	17.26%	0	0	0.0%	106,925	37,426	185.7%
E-MINI RUSSELL 1000 GROWT	0	0	0.0%	7,519	4,788	57.04%	0	0	0.0%	93,846	22,473	317.6%
E-MINI RUSSELL 1000 VALUE	0	0	0.0%	15,290	5,925	158.06%	0	0	0.0%	121,408	32,143	277.7%
E-MINI RUSSELL 2000	0	0	0.0%	4,832,933	3,306,804	46.15%	0	0	0.0%	36,976,096	10,517,084	251.6%
E-MINI S&P500	0	0	0.0%	52,762,929	30,200,611	74.71%	0	0	0.0%	441,659,466	363,956,513	21.3%
E-MINI S&P REAL ESTATE SEL	0	0	0.0%	21,052	2,537	729.80%	0	0	0.0%	65,906	29,232	125.5%
FT-SE 100	0	0	0.0%	989	1,126	-12.17%	0	0	0.0%	14,801	7,829	89.1%
FTSE Emerging	0	0	0.0%	3,528	215	1,540.93%	0	0	0.0%	11,558	937	1,133.5%
IBOVESPA INDEX	0	0	0.0%	673	1,124	-40.12%	0	0	0.0%	12,148	8,112	49.8%
NASDAQ BIOTECH	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NIFTY 50	0	0	0.0%	0	11,288	-100.00%	0	0	0.0%	54,444	142,778	-61.9%
NIKKEI 225 (\$) STOCK	0	0	0.0%	367,761	348,348	5.57%	0	0	0.0%	3,790,647	3,371,643	12.4%
NIKKEI 225 (YEN) STOCK	0	0	0.0%	1,141,049	751,579	51.82%	0	0	0.0%	10,959,790	10,818,523	1.3%
S&P 500	62,484	118,124	-47.1%	4,170	2,695	54.73%	488,281	816,606	-40.2%	53,261	50,785	4.9%
S&P 500/GI	0	0	0.0%	20	34	-41.18%	0	0	0.0%	93	285	-67.4%
S&P 500/VALUE	0	0	0.0%	9,483	7,792	21.70%	0	0	0.0%	63,516	81,530	-22.1%
S&P 600 SMALLCAP EMINI	0	-	-	0	-	-	0	-	-	1	-	-
S&P CONSUMER DSCRTNRY S	0	0	0.0%	14,737	8,131	81.24%	0	0	0.0%	188,403	53,565	251.7%
S&P CONSUMER STAPLES SE	0	0	0.0%	50,811	16,029	216.99%	0	0	0.0%	208,891	103,263	102.3%
S&P ENERGY SECTOR	0	0	0.0%	48,434	13,964	246.85%	0	0	0.0%	286,037	121,411	135.6%
S&P FINANCIAL SECTOR	0	0	0.0%	52,646	29,630	77.68%	0	0	0.0%	393,072	194,012	102.6%
S&P HEALTH CARE SECTOR	0	0	0.0%	58,710	8,421	597.19%	0	0	0.0%	222,356	101,161	119.8%
S&P INDUSTRIAL SECTOR	0	0	0.0%	46,680	8,532	447.12%	0	0	0.0%	192,340	60,414	218.4%
S&P MATERIALS SECTOR	0	0	0.0%	20,058	6,930	189.44%	0	0	0.0%	114,069	69,673	63.7%
S&P TECHNOLOGY SECTOR	0	0	0.0%	85,286	12,300	593.38%	0	0	0.0%	399,766	70,983	463.2%
S&P UTILITIES SECTOR	0	0	0.0%	39,170	27,983	39.98%	0	0	0.0%	317,902	179,104	77.5%
YEN DENOMINATED TOPIX	0	-	-	7,631	-	-	0	-	-	13,365	-	-

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Equity Index Options												
E-mini (\$5) Dow	0	0	0.0%	18,658	10,288	81.36%	0	0	0.0%	125,334	74,244	68.8%
E-MINI MIDCAP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
E-MINI NASDAQ 100	0	0	0.0%	195,152	181,848	7.32%	0	0	0.0%	2,878,414	2,873,368	0.2%
E-MINI RUSSELL 2000	0	0	0.0%	10,319	6,543	57.71%	0	0	0.0%	153,575	47,902	220.6%
E-MINI S&P500	0	4,240	-100.0%	8,289,340	4,257,471	94.70%	14,660	9,375	56.4%	73,350,074	51,046,149	43.7%
EOM E-MINI RUSSELL 2000 EN	0	0	0.0%	3,019	7,031	-57.06%	0	0	0.0%	77,407	22,049	251.1%
EOM EMINI S&P	0	0	0.0%	2,198,100	2,555,559	-13.99%	0	0	0.0%	31,194,081	24,790,850	25.8%
EOM S&P 500	178,063	237,026	-24.9%	0	0	0.00%	2,168,061	2,347,874	-7.7%	0	0	0.0%
EOW1 E-MINI RUSSELL 2000 W	0	0	0.0%	1,292	844	53.08%	0	0	0.0%	23,913	7,420	222.3%
EOW1 E-MINI RUSSELL 2000 W	0	0	0.0%	1,835	725	153.10%	0	0	0.0%	29,895	7,350	306.7%
EOW1 EMINI S&P 500	0	0	0.0%	1,682,057	863,745	94.74%	0	0	0.0%	14,069,450	12,669,333	11.1%
EOW1 S&P 500	130,946	109,985	19.1%	0	0	0.00%	1,009,555	1,092,049	-7.6%	0	0	0.0%
EOW2 E-MINI RUSSELL 2000 W	0	0	0.0%	4,504	2,352	91.50%	0	0	0.0%	59,808	13,997	327.3%
EOW2 EMINI S&P 500	0	0	0.0%	1,503,724	903,260	66.48%	0	0	0.0%	15,832,156	12,649,778	25.2%
EOW2 S&P 500	290,407	185,468	56.6%	0	0	0.00%	2,011,224	2,097,086	-4.1%	0	0	0.0%
EOW3 E-MINI RUSSELL 2000 W	0	0	0.0%	6,926	9,657	-28.28%	0	0	0.0%	214,429	65,039	229.7%
EOW3 EMINI S&P 500	0	0	0.0%	2,850,668	2,262,927	25.97%	0	3,000	-100.0%	43,285,692	39,317,303	10.1%
EOW3 S&P 500	110,937	310,077	-64.2%	0	0	0.00%	3,079,428	4,294,574	-28.3%	0	0	0.0%
EOW4 E-MINI RUSSELL 2000 W	0	0	0.0%	2,853	5,031	-43.29%	0	0	0.0%	60,829	16,589	266.7%
EOW4 EMINI S&P 500	0	0	0.0%	1,490,642	898,012	65.99%	0	0	0.0%	13,910,378	11,434,439	21.7%
S&P 500	510,200	318,751	60.1%	0	0	0.00%	3,955,748	3,892,488	1.6%	0	0	0.0%

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Metals Futures												
ALUMINUM	0	0	0.0%	435	348	25.00%	0	0	0.0%	8,931	7,592	17.6%
COMEX COPPER	0	0	0.0%	1,384,254	2,330,870	-40.61%	0	0	0.0%	32,393,775	26,740,515	21.1%
COMEX E-Mini GOLD	0	0	0.0%	4,651	4,992	-6.83%	0	0	0.0%	96,481	92,442	4.4%
COMEX E-Mini SILVER	0	0	0.0%	847	814	4.05%	0	0	0.0%	13,401	9,704	38.1%
COMEX GOLD	0	0	0.0%	3,944,681	4,930,301	-19.99%	0	0	0.0%	77,451,789	70,283,909	10.2%
COMEX MINY COPPER	0	0	0.0%	262	627	-58.21%	0	0	0.0%	5,195	8,269	-37.2%
COMEX SILVER	0	0	0.0%	1,262,271	1,329,346	-5.05%	0	0	0.0%	23,318,975	22,472,132	3.8%
COPPER	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
E-MICRO GOLD	0	0	0.0%	155,462	83,042	87.21%	0	0	0.0%	1,801,078	1,141,590	57.8%
FERROUS PRODUCTS	0	0	0.0%	140	0	0.00%	0	0	0.0%	1,263	85	1,385.9%
GOLD	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	1	-100.0%
Gold Kilo	0	0	0.0%	0	104	-100.00%	0	0	0.0%	136	3,665	-96.3%
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%	2	3	-33.33%	0	0	0.0%	174	2,843	-93.9%
LNDN ZINC	0	0	0.0%	582	16	3,537.50%	0	0	0.0%	14,057	141	9,869.5%
METALS	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NYMEX HOT ROLLED STEEL	0	0	0.0%	1,663	912	82.35%	0	0	0.0%	35,596	5,654	529.6%
NYMEX PLATINUM	0	0	0.0%	480,850	548,310	-12.30%	0	0	0.0%	5,310,653	4,699,934	13.0%
PALLADIUM	0	0	0.0%	71,523	69,953	2.24%	0	0	0.0%	1,376,227	1,335,280	3.1%
SILVER	0	0	0.0%	10,730	4,848	121.33%	0	0	0.0%	100,519	71,118	41.3%
URANIUM	0	0	0.0%	6	3	100.00%	0	0	0.0%	799	432	85.0%

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Metals Options												
COMEX COPPER	0	0	0.0%	17,812	18,434	-3.37%	0	0	0.0%	257,957	100,675	156.2%
COMEX GOLD	0	0	0.0%	830,990	640,398	29.76%	0	0	0.0%	9,379,120	7,717,773	21.5%
COMEX SILVER	0	0	0.0%	98,597	94,237	4.63%	0	0	0.0%	1,514,305	1,255,526	20.6%
COPPER	0	-	-	34	-	-	0	-	-	540	-	-
GOLD	0	0	0.0%	56,344	30,412	85.27%	0	0	0.0%	517,983	183,031	183.0%
HOT ROLLED COIL STEEL CAL	0	0	0.0%	0	0	0.00%	0	0	0.0%	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%	1,003	2,855	-64.87%	0	0	0.0%	21,021	15,863	32.5%
PALLADIUM	0	0	0.0%	545	870	-37.36%	0	0	0.0%	15,555	14,183	9.7%
SILVER	0	0	0.0%	3,114	139	2,140.29%	0	0	0.0%	27,218	1,811	1,402.9%
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	0	0.00%	0	0	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	0	0.00%	0	0	0.0%	0	0	0.0%
ANR OKLAHOMA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
APPALACHIAN COAL (PHY)	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ARGUS LLS VS. WTI (ARG) T	0	0	0.0%	0	300	-100.00%	0	0	0.0%	30	360	-91.7%
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	-	-
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 2018	Open Outcry DEC 2017	% CHG	ELEC DEC 2018	ELEC DEC 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG
Energy Futures												
BRENT OIL LAST DAY	0	0	0.0%	1,611,129	1,251,113	28.78%	0	0	0.0%	21,345,574	21,532,029	-0.9%
CAISO SP15 EZGNHUB5 MW P	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CAISO SP15 EZGNHUB5 PEAK	0	0	0.0%	0	0	0.00%	0	0	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%
CENTERPOINT EAST INDEX	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
CEU ENERGY	0	-	-	4,515	-	-	0	-	-	75,327	-	-
CHICAGO ETHANOL SWAP	0	0	0.0%	44	325	-86.46%	0	0	0.0%	2,115	4,529	-53.3%
CHICAGO ULSD (PLATTS) SWA	0	0	0.0%	0	0	0.00%	0	0	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	0	0.00%	0	0	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 MAIN NAT G	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
COLUMBIA GULF ONSHORE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CONWAY NATURAL GASOLINE	0	0	0.0%	0	0	0.00%	0	0	0.0%	5	0	0.0%
CONWAY NORMAL BUTANE (O	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CONWAY PROPANE 5 DECIMA	0	0	0.0%	0	0	0.00%	0	0	0.0%	48	58	-17.2%
CRUDE OIL	0	0	0.0%	0	126	-100.00%	0	0	0.0%	89	633	-85.9%
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%	22,460,352	19,752,879	13.71%	0	0	0.0%	300,948,428	303,456,331	-0.8%
CRUDE OIL SPRDS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	50	-100.0%
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	0	0.00%	0	0	0.0%	0	0	0.0%
DATED TO FRONTLINE BRENT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2018	Open Outcry DEC 2017	% CHG	ELEC DEC 2018	ELEC DEC 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG
Energy Futures												
DEMARC INDEX FUTURE	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
DEMARC SWING SWAP	-	0	0.0%	-	0	0.00%	-	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	0	0.00%	0	0	0.0%	0	0	0.0%
DLY GAS EURO-BOB OXY	-	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%
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%
DY EURO 3.5% FUEL OI RDA	0	0	0.0%	0	0	0.00%	0	0	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	-	-
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	0	0.00%	0	0	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	0	0.00%	0	0	0.0%	0	0	0.0%
ELEC WEST POWER PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EL PASO PERMIAN INDEX SWA	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ERCOT DAILY 5MW PEAK	0	0	0.0%	0	0	0.00%	0	0	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%	11,051	10,670	3.57%	0	0	0.0%	112,320	148,863	-24.5%
ETHANOL FWD	-	-	-	-	-		-	0	0.0%	-	0	0.0%
ETHANOL SWAP	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%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2018	Open Outcry DEC 2017	% CHG	ELEC DEC 2018	ELEC DEC 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG
Energy Futures												
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 10 CAL SWAP	-	0	0.0%	-	0	0.00%	-	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%
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%	176	601	-70.72%	0	0	0.0%	7,105	31,363	-77.3%
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%
FL GAS ZONE 3 NAT GAS IND	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
FLORIDA GAS ZONE3 BASIS S	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
FREIGHT MARKETS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
FUEL OIL CRACK VS ICE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
FUEL OIL NWE CRACK VS ICE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
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 BRGS FOB VS IC	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
GASOIL 0.1 CIF MED SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GASOIL 0.1CIF MED VS ICE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GASOIL 0.1 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	0	0.00%	0	0	0.0%	0	0	0.0%
GASOIL 0.1 CRG CIF NW VS	-	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%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2018	Open Outcry DEC 2017	% CHG	ELEC DEC 2018	ELEC DEC 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG
Energy Futures												
GASOIL 10P CRG CIF NW VS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GASOIL 10PPM CARGOES CIF	-	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	0	0.00%	0	0	0.0%	0	0	0.0%
GASOIL CALENDAR SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GASOIL CRACK SPREAD CALE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GASOIL MINI CALENDAR SWA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GASOLINE UP-DOWN BALMO S	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
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	-	-
GRP THREE ULSD(PLT)VS HEA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GRP THREE UNL GS (PLT) VS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GULF COAST 3% FUEL OIL BA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GULF COAST GASOLINE CLND	-	0	0.0%	-	0	0.00%	-	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%	0	0	0.0%
GULF COAST ULSD CALEND	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GULF COAST ULSD CRACK SP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HEATING OIL BALMO CLNDR S	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HEATING OIL CRCK SPRD BAL	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
HEATING OIL PHY	0	0	0.0%	3,077,909	3,313,013	-7.10%	0	0	0.0%	44,043,254	40,801,119	7.9%
HENRY HUB BASIS SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	2,996	-100.0%
HENRY HUB FINANCIAL LAST	0	0	0.0%	0	1,363	-100.00%	0	0	0.0%	27,703	6,507	325.7%
HENRY HUB INDEX SWAP FUT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	2,996	-100.0%
HENRY HUB SWAP	0	0	0.0%	614	9,242	-93.36%	0	0	0.0%	69,345	74,411	-6.8%
HENRY HUB SWING FUTURE	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
HOUSTON SHIP CHANNEL BAS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HOUSTON SHIP CHANNEL IND	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
HTG OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	144	-100.0%
HUSTN SHIP CHNL PIPE SWP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ICE BRENT DUBAI SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ICE GASOIL BALMO SWAP	0	0	0.0%	0	0	0.00%	0	0	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%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2018	Open Outcry DEC 2017	% CHG	ELEC DEC 2018	ELEC DEC 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG
Energy Futures												
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	0	0.00%	0	0	0.0%	0	0	0.0%
INDONESIAN COAL ICI4	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 BARGES VS ICE GASOIL	-	0	0.0%	-	0	0.00%	-	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	0	0.00%	0	0	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%
LA CARB DIESEL (OPIS)	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LA CARB DIESEL (OPIS) SWA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LA CARBOB GASOLINE(OPIS)S	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LA JET FUEL VS NYM NO 2 H	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LA JET (OPIS) SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LLS (ARGUS) CALENDAR SWA	0	-	-	0	-		0	-	-	0	-	-
LLS (ARGUS) VS WTI SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	15	-100.0%
LOS ANGELES CARB GASOLIN	0	-	-	0	-		0	-	-	0	-	-
LTD NAT GAS	0	0	0.0%	196,954	164,086	20.03%	0	0	0.0%	2,561,557	1,572,338	62.9%
MARS (ARGUS) VS WTI SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	70	-100.0%
MARS (ARGUS) VS WTI TRD M	0	0	0.0%	75	100	-25.00%	0	0	0.0%	650	1,050	-38.1%
MARS BLEND CRUDE OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	200	-100.0%
MCCLOSKEY ARA ARGS COAL	0	0	0.0%	0	0	0.00%	0	0	0.0%	731	0	0.0%
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%
MICHCON NG INDEX SWAP	-	0	0.0%	-	0	0.00%	-	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%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2018	Open Outcry DEC 2017	% CHG	ELEC DEC 2018	ELEC DEC 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG
Energy Futures												
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%	3	3	0.00%	0	0	0.0%	47	35	34.3%
MINY NATURAL GAS	0	0	0.0%	45,578	40,333	13.00%	0	0	0.0%	433,003	311,933	38.8%
MINY RBOB GAS	0	0	0.0%	4	4	0.00%	0	0	0.0%	47	51	-7.8%
MINY WTI CRUDE OIL	0	0	0.0%	617,691	167,645	268.45%	0	0	0.0%	4,692,563	3,001,906	56.3%
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%	25	97	-74.23%	0	0	0.0%	237	498	-52.4%
MONT BELVIEU LDH PROPANE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MONT BELVIEU NATURAL GAS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	20	-100.0%
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%
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%	25,883	64,002	-59.56%	0	0	0.0%	586,524	457,801	28.1%
NATURAL GAS FIXED PRICE S	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NATURAL GAS INDEX	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NATURAL GAS PEN SWP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	62	-100.0%
NATURAL GAS PHY	0	0	0.0%	7,553,218	10,161,798	-25.67%	0	0	0.0%	110,844,207	104,831,796	5.7%
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 NEW HAMP 5MW D A	-	0	0.0%	-	0	0.00%	-	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 SE MASS 5MW D AH	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NEPOOL SE MASS 5MW D AH	-	0	0.0%	-	0	0.00%	-	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%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2018	Open Outcry DEC 2017	% CHG	ELEC DEC 2018	ELEC DEC 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG
Energy Futures												
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 MIDCONTINENT INDEX	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NGPL MIDCONTINENT SWING	-	0	0.0%	-	0	0.00%	-	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%
NGPL TEXOK INDEX	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
N ILLINOIS HUB DAILY	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
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	0	0.00%	0	0	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	0	0.00%	0	0	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%	4	0	0.00%	0	0	0.0%	81	3	2,600.0%
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	-	-
NYH NO 2 CRACK SPREAD CA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NY H OIL PLATTS VS NYMEX	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NYISO A	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYISO A OFF-PEAK	0	0	0.0%	0	0	0.00%	0	0	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	0	0.00%	0	0	0.0%	0	0	0.0%
NYISO G OFF-PEAK	0	0	0.0%	0	0	0.00%	0	0	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%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2018	Open Outcry DEC 2017	% CHG	ELEC DEC 2018	ELEC DEC 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG
Energy Futures												
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	0	0.00%	0	0	0.0%	0	0	0.0%
NYISO ZONE C 5MW D AH PK	0	0	0.0%	0	0	0.00%	0	0	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%
NY JET FUEL (PLATTS) HEAT C	-	0	0.0%	-	0	0.00%	-	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 INDEX SWAP FUT	-	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%
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%
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	0	0.00%	0	0	0.0%	0	0	0.0%
PJM AECO DA PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM APS ZONE DA OFF-PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM APS ZONE DA PEAK	0	0	0.0%	0	0	0.00%	0	0	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%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2018	Open Outcry DEC 2017	% CHG	ELEC DEC 2018	ELEC DEC 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG
Energy Futures												
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	0	0.00%	0	0	0.0%	0	0	0.0%
PJM JCPL DA PEAK	0	0	0.0%	0	0	0.00%	0	0	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	0	0.00%	0	0	0.0%	0	0	0.0%
PJM PPL DA PEAK	0	0	0.0%	0	0	0.00%	0	0	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 WES HUB PEAK LMP 50 M	-	0	0.0%	-	0	0.00%	-	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%
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	5	-100.0%
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%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2018	Open Outcry DEC 2017	% CHG	ELEC DEC 2018	ELEC DEC 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG
Energy Futures												
RBOB PHY	0	0	0.0%	3,260,755	3,182,391	2.46%	0	0	0.0%	47,134,720	46,507,031	1.3%
RBOB (PLATTS) CAL SWAP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
RBOB SPREAD (PLATTS) SWA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
RBOB UP-DOWN CALENDAR S	-	0	0.0%	-	0	0.00%	-	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%
ROCKIES KERN OPAL - NW IN	-	0	0.0%	-	0	0.00%	-	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	-	-
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%	2	36	-94.4%
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%	2	5	-60.0%
SINGAPORE NAPHTHA BALMO	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
SINGAPORE NAPHTHA SWAP	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	0	0.00%	0	0	0.0%	0	0	0.0%
SONAT BASIS SWAP FUTURE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SOUTHERN NAT LA NAT GAS	-	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%
SUMAS NAT GAS PLATTS FIXE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TC2 ROTTERDAM TO USAC 37	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TC5 RAS TANURA TO YOKOHA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2018	Open Outcry DEC 2017	% CHG	ELEC DEC 2018	ELEC DEC 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG
Energy Futures												
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	0	0.00%	0	0	0.0%	0	0	0.0%
TD3 MEG TO JAPAN 250K MT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TENN 800 LEG NAT GAS INDE	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
TENNESSEE 500 LEG BASIS S	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TENNESSEE 800 LEG NG BASI	0	0	0.0%	0	0	0.00%	0	0	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	0	0.00%	0	0	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	0	0.00%	0	0	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	0	0.00%	0	0	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	0	0.00%	0	0	0.0%	0	0	0.0%
UCM FUT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ULSD 10PPM CIF MED BALMO	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ULSD 10PPM CIF MED SWAP	0	0	0.0%	0	0	0.00%	0	0	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	0	0.00%	0	0	0.0%	0	0	0.0%
ULSD 10PPM CIF VS ICE GAS	-	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%
USGC UNL 87 CRACK SPREAD	-	0	0.0%	-	0	0.00%	-	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	0	0.00%	0	0	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%	6	120	-95.0%
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 2018	Open Outcry DEC 2017	% CHG	ELEC DEC 2018	ELEC DEC 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG
Energy Options												
12 MO GASOIL CAL SWAP SPR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
1 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	-	-
BRENT CALENDAR SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	24	0	0.0%
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	-	-	3,000	-	-
BRENT CRUDE OIL 6 M CSO	0	-	-	0	-	-	0	-	-	0	-	-
BRENT OIL LAST DAY	0	0	0.0%	70,777	19,986	254.13%	0	0	0.0%	875,426	149,597	485.2%
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 1MO	0	0	0.0%	7,400	16,950	-56.34%	0	0	0.0%	196,385	402,140	-51.2%
CRUDE OIL APO	0	0	0.0%	0	28	-100.00%	0	0	0.0%	336	163	106.1%
CRUDE OIL CALNDR STRIP	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%	2,786,709	1,946,456	43.17%	0	0	0.0%	37,322,852	34,980,827	6.7%
ELEC FINSETTLED	-	0	0.0%	-	0	0.00%	-	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%
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%
EURO-DENOMINATED PETRO	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
EUROPEAN JET KEROSENE N	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GASOLINE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HEATING OIL CRACK OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HEATING OIL CRK SPD AVG P	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HEATING OIL PHY	0	0	0.0%	4,643	6,351	-26.89%	0	0	0.0%	63,035	60,270	4.6%
HENRY HUB FINANCIAL LAST	0	0	0.0%	0	0	0.00%	0	0	0.0%	5	0	0.0%
HO 1 MONTH CLNDR OPTIONS	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%
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	0	0.00%	0	0	0.0%	0	0	0.0%
NATURAL GAS 1 M CSO FIN	0	0	0.0%	1,705	0	0.00%	0	0	0.0%	4,334	3,920	10.6%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2018	Open Outcry DEC 2017	% CHG	ELEC DEC 2018	ELEC DEC 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG
Energy Options												
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%	1	0	0.0%
NATURAL GAS 5 M CSO FIN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NATURAL GAS 6 M CSO FIN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NATURAL GAS 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%	1,151,827	2,613,386	-55.93%	0	0	0.0%	16,336,410	16,836,154	-3.0%
NATURAL GAS WINTER STRIP	0	-	-	0	-	-	0	-	-	0	-	-
NG HH 3 MONTH CAL	-	0	0.0%	-	0	0.00%	-	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%	8	3	166.67%	0	0	0.0%	610	512	19.1%
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	0	0.00%	0	0	0.0%	0	0	0.0%
NYMEX EUROPEAN GASOIL O	-	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%	23	16	43.8%
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 MONTHLY	-	0	0.0%	-	0	0.00%	-	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	10	-100.0%
RBOB CRACK	0	-	-	0	-	-	0	-	-	2	-	-
RBOB PHY	0	0	0.0%	2,543	4,539	-43.97%	0	0	0.0%	39,205	80,535	-51.3%
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	661	-100.00%	0	0	0.0%	996	1,195	-16.7%
SHORT TERM NATURAL GAS	0	0	0.0%	0	1,377	-100.00%	0	0	0.0%	1,005	5,014	-80.0%
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	0	0.00%	0	0	0.0%	0	0	0.0%
WTI-BRENT BULLET SWAP	0	0	0.0%	1,710	14,666	-88.34%	0	0	0.0%	150,045	69,294	116.5%
WTI CRUDE OIL 1 M CSO FI	0	0	0.0%	0	200	-100.00%	0	0	0.0%	15,050	7,900	90.5%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2018	Open Outcry DEC 2017	% CHG	ELEC DEC 2018	ELEC DEC 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG
FX Futures												
AD/CD CROSS RATES	0	0	0.0%	1	0	0.00%	0	0	0.0%	56	38	47.4%
AD/JY CROSS RATES	0	0	0.0%	3,978	3,775	5.38%	0	0	0.0%	49,499	29,884	65.6%
AD/NE CROSS RATES	0	0	0.0%	103	56	83.93%	0	0	0.0%	898	996	-9.8%
AUSTRALIAN DOLLAR	0	0	0.0%	2,130,362	1,947,977	9.36%	0	1,537	-100.0%	27,898,666	23,899,523	16.7%
BDI	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	6,243	-100.0%
BP/JY CROSS RATES	0	0	0.0%	2,873	5,147	-44.18%	0	0	0.0%	35,632	37,284	-4.4%
BP/SF CROSS RATES	0	0	0.0%	129	191	-32.46%	0	0	0.0%	3,982	1,103	261.0%
BRAZIL REAL	0	0	0.0%	75,352	80,904	-6.86%	0	0	0.0%	1,185,543	731,733	62.0%
BRITISH POUND	4	14	-71.4%	2,532,253	3,068,950	-17.49%	14	263	-94.7%	32,297,331	31,048,707	4.0%
CANADIAN DOLLAR	0	32	-100.0%	1,978,823	1,734,996	14.05%	45	2,716	-98.3%	20,933,526	19,080,203	9.7%
CD/JY CROSS RATES	0	0	0.0%	100	0	0.00%	0	0	0.0%	1,049	554	89.4%
CHINESE RENMINBI (CNH)	0	0	0.0%	18,953	2,247	743.48%	0	0	0.0%	117,390	19,769	493.8%
CZECK KORUNA (EC)	0	-	-	0	-	-	0	-	-	8	-	-
CZECK KORUNA (US)	0	-	-	3	-	-	0	-	-	18	-	-
EC/AD CROSS RATES	0	0	0.0%	6,977	6,004	16.21%	0	0	0.0%	27,892	31,051	-10.2%
EC/CD CROSS RATES	0	0	0.0%	8,092	8,137	-0.55%	0	0	0.0%	41,167	53,911	-23.6%
EC/NOK CROSS RATES	0	0	0.0%	275	253	8.70%	0	0	0.0%	4,440	3,029	46.6%
EC/SEK CROSS RATES	0	0	0.0%	1,726	996	73.29%	0	0	0.0%	9,816	8,498	15.5%
EFX/BP CROSS RATES	0	0	0.0%	116,309	142,062	-18.13%	0	0	0.0%	990,009	913,898	8.3%
EFX/JY CROSS RATES	0	0	0.0%	103,848	102,242	1.57%	0	0	0.0%	949,458	800,666	18.6%
EFX/SF CROSS RATES	0	0	0.0%	41,137	48,767	-15.65%	0	0	0.0%	354,750	399,260	-11.1%
E-MICRO AUD/USD	0	0	0.0%	111,221	65,633	69.46%	0	0	0.0%	1,313,037	1,012,132	29.7%
E-MICRO CAD/USD	0	0	0.0%	17,294	21,505	-19.58%	0	0	0.0%	206,791	244,321	-15.4%
E-MICRO CHF/USD	0	0	0.0%	2,009	936	114.64%	0	0	0.0%	18,276	11,952	52.9%
E-MICRO EUR/USD	0	0	0.0%	285,833	217,510	31.41%	0	0	0.0%	4,323,117	2,987,367	44.7%
E-MICRO GBP/USD	0	0	0.0%	36,417	49,472	-26.39%	0	0	0.0%	545,675	681,701	-20.0%
E-MICRO INR/USD	0	0	0.0%	8,109	1,985	308.51%	0	0	0.0%	62,787	31,089	102.0%
E-MICRO JPY/USD	0	0	0.0%	25,860	22,521	14.83%	0	0	0.0%	356,863	450,068	-20.7%
E-MICRO USD/CAD	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
E-MICRO USD/CHF	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
E-MICRO USD/CNH	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
E-MICRO USD/JPY	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
E-MINI EURO FX	0	0	0.0%	102,290	106,509	-3.96%	0	0	0.0%	1,223,766	1,140,403	7.3%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2018	Open Outcry DEC 2017	% CHG	ELEC DEC 2018	ELEC DEC 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG
FX Futures												
E-MINI JAPANESE YEN	0	0	0.0%	21,982	8,563	156.71%	0	0	0.0%	162,963	316,956	-48.6%
EURO FX	0	88	-100.0%	5,183,197	5,370,411	-3.49%	544	2,913	-81.3%	68,087,111	55,977,807	21.6%
HUNGARIAN FORINT (EC)	0	-	-	0	-		0	-	-	0	-	-
HUNGARIAN FORINT (US)	0	-	-	0	-		0	-	-	0	-	-
INDIAN RUPEE	0	0	0.0%	78,320	44,530	75.88%	0	0	0.0%	1,089,106	472,306	130.6%
JAPANESE YEN	2	49	-95.9%	3,287,163	3,128,652	5.07%	113	9,030	-98.7%	36,729,517	41,449,197	-11.4%
KOREAN WON	0	0	0.0%	373	323	15.48%	0	0	0.0%	3,164	673	370.1%
MEXICAN PESO	0	0	0.0%	1,377,612	1,363,597	1.03%	0	5	-100.0%	16,819,045	12,869,533	30.7%
NEW ZEALND DOLLAR	0	0	0.0%	592,062	548,070	8.03%	0	0	0.0%	7,488,787	6,231,072	20.2%
NKR/USD CROSS RATE	0	0	0.0%	5,384	2,808	91.74%	0	0	0.0%	58,013	22,380	159.2%
POLISH ZLOTY (EC)	0	0	0.0%	24	9	166.67%	0	0	0.0%	232	416	-44.2%
POLISH ZLOTY (US)	0	0	0.0%	88	325	-72.92%	0	0	0.0%	1,022	1,618	-36.8%
RMB USD	0	0	0.0%	0	24	-100.00%	0	0	0.0%	25	305	-91.8%
RUSSIAN RUBLE	0	0	0.0%	88,721	52,518	68.93%	0	0	0.0%	657,473	449,172	46.4%
S.AFRICAN RAND	0	0	0.0%	51,619	64,722	-20.25%	0	0	0.0%	548,677	555,018	-1.1%
SF/JY CROSS RATES	0	0	0.0%	0	0	0.00%	0	0	0.0%	7	0	0.0%
SHEKEL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SKR/USD CROSS RATES	0	0	0.0%	5,753	4,939	16.48%	0	0	0.0%	54,006	26,738	102.0%
SWISS FRANC	0	0	0.0%	645,963	697,135	-7.34%	0	0	0.0%	7,122,193	6,904,907	3.1%
TURKISH LIRA	0	0	0.0%	0	2	-100.00%	0	0	0.0%	10	20	-50.0%
USDZAR	0	0	0.0%	0	1	-100.00%	0	0	0.0%	15	1	1,400.0%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2018	Open Outcry DEC 2017	% CHG	ELEC DEC 2018	ELEC DEC 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG
FX Options												
AUD/USD PQO 2pm Fix	0	0	0.0%	104,813	74,203	41.25%	600	5,746	-89.6%	1,510,062	1,257,212	20.1%
AUSTRALIAN DLR (EU)	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	2	-100.0%
AUSTRALIAN DOLLAR	0	0	0.0%	0	0	0.00%	0	2,674	-100.0%	0	200,250	-100.0%
BRITISH POUND	0	0	0.0%	0	0	0.00%	0	693	-100.0%	0	462,114	-100.0%
BRITISH POUND (EU)	0	0	0.0%	1	180	-99.44%	0	0	0.0%	280	4,609	-93.9%
CAD/USD PQO 2pm Fix	40	501	-92.0%	107,864	169,089	-36.21%	3,080	6,646	-53.7%	1,840,370	1,693,702	8.7%
CANADIAN DOLLAR	0	0	0.0%	0	0	0.00%	0	4,597	-100.0%	0	183,080	-100.0%
CANADIAN DOLLAR (EU)	0	0	0.0%	0	10	-100.00%	0	0	0.0%	63	146	-56.8%
CHF/USD PQO 2pm Fix	0	0	0.0%	800	1,550	-48.39%	0	0	0.0%	30,519	38,525	-20.8%
EFX/JY CROSS RATES	0	-	-	0	-	-	0	-	-	0	-	-
EURO FX	0	0	0.0%	0	0	0.00%	0	8,535	-100.0%	0	1,287,538	-100.0%
EURO FX (EU)	0	0	0.0%	0	4	-100.00%	0	0	0.0%	59	509	-88.4%
EUR/USD PQO 2pm Fix	990	1,764	-43.9%	539,463	605,620	-10.92%	16,844	31,710	-46.9%	8,605,822	7,698,222	11.8%
GBP/USD PQO 2pm Fix	75	467	-83.9%	190,501	218,144	-12.67%	987	5,469	-82.0%	3,123,991	2,644,755	18.1%
JAPANESE YEN	0	0	0.0%	0	0	0.00%	0	8,468	-100.0%	0	544,469	-100.0%
JAPANESE YEN (EU)	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	182	-100.0%
JPY/USD PQO 2pm Fix	38	520	-92.7%	240,671	175,468	37.16%	4,523	35,123	-87.1%	3,061,724	2,996,133	2.2%
MEXICAN PESO	300	0	0.0%	1,217	820	48.41%	6,418	1,770	262.6%	17,793	26,166	-32.0%
NEW ZEALND DOLLAR	0	-	-	17	-	-	0	-	-	1,050	-	-
RUSSIAN RUBLE	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
SWISS FRANC	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	5,710	-100.0%
SWISS FRANC (EU)	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	15	-100.0%
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	3,887	-100.00%	0	0	0.0%	12,942	21,480	-39.7%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2018	Open Outcry DEC 2017	% CHG	ELEC DEC 2018	ELEC DEC 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG
Foreign Exchange Options												
AUD/USD PQO 2pm Fix	0	0	0.0%	2,615	138	1,794.93%	0	0	0.0%	12,296	772	1,492.7%
Ag Products Futures												
BUTTER CS	0	0	0.0%	4,423	3,672	20.45%	0	0	0.0%	51,424	39,041	31.7%
CASH-SETTLED CHEESE	0	0	0.0%	14,481	12,865	12.56%	0	0	0.0%	134,740	126,301	6.7%
CAT EURO SEASONAL STRIP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
CATTLE	848	441	92.3%	1,119,135	989,457	13.11%	13,819	38,318	-63.9%	16,413,365	16,087,063	2.0%
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%	0	25	-100.0%
CHI WHEAT	3,998	4,981	-19.7%	1,467,122	1,596,229	-8.09%	151,610	159,318	-4.8%	36,365,895	33,330,843	9.1%
CLASS IV MILK	21	0	0.0%	2,354	323	628.79%	24	79	-69.6%	10,772	10,336	4.2%
COCOA TAS	0	0	0.0%	0	5	-100.00%	0	0	0.0%	5	92	-94.6%
COFFEE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	41	-100.0%
CORN	11,957	12,805	-6.6%	4,129,113	3,711,972	11.24%	369,624	381,635	-3.1%	93,693,645	86,665,154	8.1%
COTTON	0	0	0.0%	1	1	0.00%	0	0	0.0%	22	20	10.0%
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%	101,482	163,209	-37.82%	0	0	0.0%	940,252	1,032,734	-9.0%
DRY WHEY	0	0	0.0%	1,230	1,628	-24.45%	0	0	0.0%	16,589	20,707	-19.9%
FEEDER CATTLE	0	0	0.0%	231,572	274,899	-15.76%	38	538	-92.9%	3,528,525	3,539,370	-0.3%
FERTILIZER PRODUCTS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GOLDMAN SACHS	0	0	0.0%	31,926	28,228	13.10%	0	0	0.0%	375,177	402,183	-6.7%
GSCI EXCESS RETURN FUT	0	0	0.0%	74	320	-76.88%	0	0	0.0%	892	1,385	-35.6%
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	39	-100.00%	0	0	0.0%	55	89	-38.2%
HDD WEATHER EUROPEAN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	50	-100.0%
HOGS	1,006	710	41.7%	752,089	729,540	3.09%	18,217	34,887	-47.8%	13,512,546	11,158,074	21.1%
HOUSING INDEX	0	0	0.0%	13	3	333.33%	0	0	0.0%	113	136	-16.9%
Intercommodity Spread	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
KC WHEAT	108	103	4.9%	600,064	645,249	-7.00%	12,543	10,323	21.5%	14,923,368	12,234,918	22.0%
LUMBER	0	0	0.0%	11,518	18,305	-37.08%	0	0	0.0%	214,072	203,573	5.2%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2018	Open Outcry DEC 2017	% CHG	ELEC DEC 2018	ELEC DEC 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG
Ag Products Futures												
MALYSIAN PALM SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MILK	96	80	20.0%	28,521	24,944	14.34%	1,335	2,994	-55.4%	300,265	315,653	-4.9%
MINI CORN	0	0	0.0%	6,163	5,517	11.71%	0	0	0.0%	118,868	115,624	2.8%
MINI SOYBEAN	0	0	0.0%	20,681	18,547	11.51%	0	0	0.0%	273,551	204,770	33.6%
MINI WHEAT	0	0	0.0%	3,052	2,759	10.62%	0	0	0.0%	88,004	67,702	30.0%
MLK MID OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NFD MILK	0	70	-100.0%	3,615	4,621	-21.77%	43	99	-56.6%	59,297	59,579	-0.5%
OATS	0	0	0.0%	6,388	9,334	-31.56%	43	80	-46.3%	163,568	154,537	5.8%
PALM OIL	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ROUGH RICE	0	0	0.0%	21,703	23,390	-7.21%	58	0	0.0%	219,048	257,636	-15.0%
SOYBEAN	8,620	11,256	-23.4%	4,072,116	4,971,433	-18.09%	180,444	169,418	6.5%	55,851,404	51,831,507	7.8%
SOYBEAN MEAL	1,684	5,474	-69.2%	2,038,645	2,427,741	-16.03%	38,308	28,568	34.1%	30,741,113	25,050,339	22.7%
SOYBEAN OIL	823	1,541	-46.6%	2,416,072	2,652,818	-8.92%	16,677	45,170	-63.1%	30,559,779	29,503,228	3.6%
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%	58	42	38.1%
USD CRUDE PALM OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
WHEAT	0	0	0.0%	0	0	0.00%	0	0	0.0%	22	119,222	-100.0%
Ag Products Options												
AUG-DEC SOYBEAN MEAL CS	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
AUG-NOV SOYBEAN CAL SPR	0	0	0.0%	0	0	0.00%	0	103	-100.0%	0	0	0.0%
BUTTER CS	257	305	-15.7%	4,623	1,968	134.91%	10,969	11,871	-7.6%	37,895	11,006	244.3%
CASH-SETTLED CHEESE	5,842	6,365	-8.2%	9,714	9,781	-0.69%	36,904	56,796	-35.0%	88,082	62,510	40.9%
CATTLE	17,374	19,818	-12.3%	128,378	171,381	-25.09%	294,978	558,398	-47.2%	2,345,635	2,342,992	0.1%
CDD SEASONAL STRIP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CDD WEATHER	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CHI WHEAT	74,314	102,568	-27.5%	440,114	325,578	35.18%	1,982,158	1,704,411	16.3%	7,379,340	5,806,017	27.1%
CLASS IV MILK	186	30	520.0%	2,701	955	182.83%	1,274	3,321	-61.6%	14,227	17,000	-16.3%
CORN	241,335	158,163	52.6%	863,587	749,098	15.28%	6,208,360	6,581,689	-5.7%	19,036,658	17,301,755	10.0%
CORN NEARBY+2 CAL SPRD	9,885	100	9,785.0%	0	0	0.00%	40,603	15,838	156.4%	150	102	47.1%
DEC-DEC CORN CAL SPRD	0	76	-100.0%	0	0	0.00%	18,242	11,862	53.8%	33	274	-88.0%
DEC-JULY CORN CAL SPRD	0	0	0.0%	0	0	0.00%	18,499	39,888	-53.6%	0	0	0.0%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2018	Open Outcry DEC 2017	% CHG	ELEC DEC 2018	ELEC DEC 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG
Ag Products Options												
DEC-JULY WHEAT CAL SPRD	0	0	0.0%	0	0	0.00%	1,744	1,923	-9.3%	0	210	-100.0%
DRY WHEY	24	478	-95.0%	395	369	7.05%	1,379	4,288	-67.8%	5,611	3,193	75.7%
FEEDER CATTLE	1,957	3,684	-46.9%	18,371	30,758	-40.27%	22,116	52,018	-57.5%	316,625	360,535	-12.2%
HDD EURO SEASONAL STRIP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HDD SEASONAL STRIP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HDD WEATHER	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HDD WEATHER EUROPEAN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HOGS	22,424	11,686	91.9%	135,516	127,275	6.47%	326,708	354,162	-7.8%	2,439,384	2,177,565	12.0%
HOUSING INDEX	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	46	-100.0%
Intercommodity Spread	0	0	0.0%	0	0	0.00%	10,713	701	1,428.2%	0	0	0.0%
JAN-MAY SOYBEAN CAL SPRD	0	0	0.0%	0	0	0.00%	0	36	-100.0%	0	0	0.0%
JULY-DEC CORN CAL SPRD	500	400	25.0%	20	0	0.00%	11,076	17,802	-37.8%	120	0	0.0%
JULY-DEC SOYMEAL CAL SPR	0	-	-	0	-	-	1,200	-	-	0	-	-
JULY-DEC SOY OIL CAL SPRD	0	0	0.0%	0	0	0.00%	0	630	-100.0%	0	10	-100.0%
JULY-DEC WHEAT CAL SPRD	0	0	0.0%	0	0	0.00%	2,165	1,414	53.1%	455	200	127.5%
JULY-JULY WHEAT CAL SPRD	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
JULY-NOV SOYBEAN CAL SPR	324	345	-6.1%	150	200	-25.00%	56,707	69,695	-18.6%	2,765	1,517	82.3%
KC WHEAT	20,627	6,209	232.2%	49,360	26,696	84.90%	364,722	160,218	127.6%	639,628	368,666	73.5%
LUMBER	0	0	0.0%	2,070	1,609	28.65%	223	44	406.8%	21,334	16,175	31.9%
LV CATL CSO	25	0	0.0%	0	0	0.00%	341	1,972	-82.7%	0	0	0.0%
MAR-JULY CORN CAL SPRD	0	0	0.0%	0	0	0.00%	0	70	-100.0%	0	0	0.0%
MAR-JULY WHEAT CAL SPRD	1,690	600	181.7%	60	45	33.33%	1,890	2,093	-9.7%	60	121	-50.4%
MILK	7,850	6,319	24.2%	32,764	22,158	47.87%	68,857	139,463	-50.6%	359,179	281,662	27.5%
MLK MID OPTIONS	12	78	-84.6%	13	0	0.00%	443	834	-46.9%	41	0	0.0%
NFD MILK	289	1,176	-75.4%	2,935	3,696	-20.59%	9,405	17,085	-45.0%	48,963	35,804	36.8%
NOV-JULY SOYBEAN CAL SPR	0	0	0.0%	0	0	0.00%	1	1,696	-99.9%	0	0	0.0%
NOV-MAR SOYBEAN CSO	0	-	-	0	-	-	130	-	-	0	-	-
NOV-NOV SOYBEAN CAL SPR	0	0	0.0%	0	0	0.00%	118	164	-28.0%	0	0	0.0%
OATS	320	381	-16.0%	72	237	-69.62%	2,413	6,497	-62.9%	4,388	7,565	-42.0%
ROUGH RICE	480	397	20.9%	468	527	-11.20%	8,891	12,112	-26.6%	9,388	12,629	-25.7%
SEP-DEC SOYBEAN MEAL CSC	0	-	-	0	-	-	1,170	-	-	0	-	-
SOYBEAN	144,831	190,296	-23.9%	916,321	969,678	-5.50%	3,326,672	3,420,941	-2.8%	15,576,261	13,559,475	14.9%
SOYBEAN CRUSH	0	25	-100.0%	0	0	0.00%	185	741	-75.0%	0	0	0.0%
SOYBEAN MEAL	25,096	90,231	-72.2%	73,457	162,999	-54.93%	1,069,341	681,006	57.0%	2,106,023	1,478,839	42.4%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2018	Open Outcry DEC 2017	% CHG	ELEC DEC 2018	ELEC DEC 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG
Ag Products Options												
SOYBEAN OIL	15,253	40,200	-62.1%	80,016	77,031	3.88%	418,250	926,190	-54.8%	985,328	1,124,038	-12.3%
SOYBN NEARBY+2 CAL SPRD	0	0	0.0%	0	0	0.00%	10	460	-97.8%	0	600	-100.0%
SOYMEAL NEARBY+2 CAL SPR	0	0	0.0%	0	0	0.00%	8,415	0	0.0%	0	0	0.0%
WHEAT	100	325	-69.2%	0	25	-100.00%	3,087	1,372	125.0%	335	528	-36.6%
WHEAT-CORN ICSCO	0	2,290	-100.0%	0	0	0.00%	5,780	8,840	-34.6%	0	6	-100.0%
WHEAT NEARBY+2 CAL SPRD	160	425	-62.4%	0	185	-100.00%	9,647	13,351	-27.7%	4,531	4,552	-0.5%
TOTAL FUTURES GROUP												
Interest Rate Futures	751,041	756,512	-0.7%	150,114,597	99,714,799	50.5%	11,592,521	9,596,451	20.8%	1,831,780,214	1,471,510,583	24.5%
Equity Index Futures	62,484	118,124	-47.1%	81,846,055	44,571,138	83.6%	488,281	816,606	-40.2%	686,082,521	496,175,965	38.3%
Metals Futures	0	0	0.0%	7,318,359	9,304,489	-21.3%	0	0	0.0%	141,929,049	126,875,306	11.9%
Energy Futures	0	0	0.0%	38,865,980	38,120,091	2.0%	0	0	0.0%	532,885,720	522,747,364	1.9%
FX Futures	6	183	-96.7%	18,948,588	18,925,404	0.1%	716	16,464	-95.7%	231,772,808	208,903,502	10.9%
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	3,887	-100.0%	0	0	0.0%	12,942	21,480	-39.7%
Ag Products Futures	29,161	37,461	-22.2%	17,083,553	18,317,048	-6.7%	802,783	871,427	-7.9%	298,556,434	272,531,974	9.5%
TOTAL FUTURES	842,692	912,280	-7.6%	314,177,132	228,956,856	37.2%	12,884,301	11,300,948	14.0%	3,723,019,688	3,098,766,174	20.1%
TOTAL OPTIONS GROUP												
Equity Index Options	1,220,553	1,165,547	4.7%	18,259,089	11,965,293	52.6%	12,238,676	13,736,446	-10.9%	195,265,435	155,035,810	25.9%
Interest Rate Options	20,384,077	16,335,927	24.8%	25,818,344	16,985,067	52.0%	254,907,567	237,790,158	7.2%	322,798,618	262,775,751	22.8%
Metals Options	0	0	0.0%	1,008,439	787,345	28.1%	0	0	0.0%	11,733,699	9,288,862	26.3%
Energy Options	0	0	0.0%	4,027,322	4,624,603	-12.9%	0	0	0.0%	55,008,744	52,597,547	4.6%
FX Options	1,443	3,252	-55.6%	1,185,347	1,245,088	-4.8%	32,452	111,431	-70.9%	18,191,733	19,043,339	-4.5%
Ag Products Options	591,155	642,970	-8.1%	2,761,105	2,682,249	2.9%	14,345,786	14,881,995	-3.6%	51,422,439	44,975,592	14.3%
Foreign Exchange Options	0	0	0.0%	2,615	138	1,794.9%	0	0	0.0%	12,296	772	1,492.7%
TOTAL OPTIONS	22,197,228	18,147,696	22.3%	53,062,261	38,289,783	38.6%	281,524,481	266,520,030	5.6%	654,432,964	543,717,673	20.4%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2018	Open Outcry DEC 2017	% CHG	ELEC DEC 2018	ELEC DEC 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG
TOTAL COMBINED												
Interest Rate	21,135,118	17,092,439	23.7%	175,932,941	116,699,866	50.8%	266,500,088	247,386,609	7.7%	2,154,578,832	1,734,286,334	24.2%
Equity Index	1,283,037	1,283,671	0.0%	100,105,144	56,536,431	77.1%	12,726,957	14,553,052	-12.5%	881,347,956	651,211,775	35.3%
Metals	0	0	0.0%	8,326,798	10,091,834	-17.5%	0	0	0.0%	153,662,748	136,164,168	12.9%
Energy	0	0	0.0%	42,893,302	42,744,694	0.3%	0	0	0.0%	587,894,464	575,344,911	2.2%
FX	1,449	3,435	-57.8%	20,133,935	20,170,492	-0.2%	33,168	127,895	-74.1%	249,964,541	227,946,841	9.7%
Ags	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
Foreign Exchange	0	0	0.0%	2,615	4,025	-35.0%	0	0	0.0%	25,238	22,252	13.4%
Ag Products	620,316	680,431	-8.8%	19,844,658	20,999,297	-5.5%	15,148,569	15,753,422	-3.8%	349,978,873	317,507,566	10.2%
GRAND TOTAL	23,039,920	19,059,976	20.9%	367,239,393	267,246,639	37.4%	294,408,782	277,820,978	6.0%	4,377,452,652	3,642,483,847	20.2%

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