

## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2018	Open Outcry APR 2017	% CHG	ELEC APR 2018	ELEC APR 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
<b>Interest Rate Futures</b>												
10-YR NOTE	95,053	139,000	-31.6%	26,423,608	24,899,657	6.12%	488,760	563,424	-13.3%	140,585,750	118,781,895	18.4%
10-YR SWAP RATE	0	0	0.0%	22,358	29,598	-24.46%	0	0	0.0%	188,517	174,790	7.9%
1-MONTH EURODOLLAR	0	0	0.0%	1,282	8,012	-84.00%	0	0	0.0%	14,111	13,393	5.4%
2-YR NOTE	1,801	5,212	-65.4%	6,799,330	4,486,805	51.54%	11,408	6,395	78.4%	41,206,968	25,618,605	60.8%
2-YR SWAP RATE	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
30-YR BOND	25,756	19,959	29.0%	5,379,947	4,516,582	19.12%	79,687	82,681	-3.6%	28,522,598	22,326,184	27.8%
30-YR SWAP RATE	0	0	0.0%	76	885	-91.41%	0	0	0.0%	901	5,964	-84.9%
5-YR NOTE	24,532	25,704	-4.6%	15,223,071	12,965,212	17.41%	122,425	112,059	9.3%	85,842,897	69,676,997	23.2%
5-YR SWAP RATE	0	0	0.0%	13,498	37,711	-64.21%	0	0	0.0%	114,167	211,989	-46.1%
7-YR SWAP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
EURODOLLARS	912,451	684,773	33.2%	51,962,886	50,119,573	3.68%	3,965,940	2,826,590	40.3%	292,318,784	238,056,890	22.8%
FED FUND	0	0	0.0%	4,562,836	3,808,171	19.82%	0	0	0.0%	21,680,705	19,219,484	12.8%
Ultra 10-Year Note	0	0	0.0%	2,476,339	1,405,914	76.14%	0	8	-100.0%	14,415,687	7,561,300	90.7%
ULTRA T-BOND	0	0	0.0%	2,168,412	1,493,430	45.20%	230	0	0.0%	12,989,644	9,031,781	43.8%
<b>Interest Rate Options</b>												
10-YR NOTE	1,724,189	2,201,185	-21.7%	7,918,667	8,935,801	-11.38%	8,736,802	9,527,394	-8.3%	43,203,381	32,430,077	33.2%
2-YR NOTE	73,471	35,510	106.9%	484,194	47,440	920.65%	586,991	116,494	403.9%	1,297,004	255,187	408.3%
30-YR BOND	356,780	186,884	90.9%	1,999,070	1,646,973	21.38%	1,285,514	988,751	30.0%	9,771,339	6,815,304	43.4%
5-YR NOTE	445,061	362,929	22.6%	1,924,882	1,992,601	-3.40%	2,590,664	2,569,785	0.8%	11,105,696	8,571,231	29.6%
EURODOLLARS	9,070,866	10,469,494	-13.4%	3,757,117	5,026,231	-25.25%	44,954,230	41,474,949	8.4%	21,468,567	16,949,018	26.7%
EURO MIDCURVE	7,480,525	9,726,804	-23.1%	4,430,530	5,873,102	-24.56%	43,873,730	42,051,555	4.3%	25,181,115	20,790,889	21.1%
FED FUND	0	0	0.0%	150	0	0.00%	1,750	7,398	-76.3%	7,967	1,106	620.3%
Ultra 10-Year Note	0	0	0.0%	0	600	-100.00%	0	952	-100.0%	28	6,499	-99.6%
ULTRA T-BOND	8,159	0	0.0%	2,779	3,961	-29.84%	15,321	1,003	1,427.5%	9,117	7,969	14.4%

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<b>Equity Index Futures</b>												
BITCOIN FUTURES	0	-	-	78,590	-		0	-	-	191,607	-	-
DJ US REAL ESTATE	0	0	0.0%	14,061	14,871	-5.45%	0	0	0.0%	83,052	55,013	51.0%
E-mini (\$5) Dow	0	0	0.0%	5,468,405	2,719,008	101.12%	0	0	0.0%	22,563,788	11,438,091	97.3%
E-mini FTSE 100 (USD)	0	0	0.0%	1,334	10	13,240.00%	0	0	0.0%	7,586	34	22,211.8%
E-mini FTSE China 50	0	0	0.0%	1,169	680	71.91%	0	0	0.0%	5,658	5,187	9.1%
E-MINI MIDCAP	0	0	0.0%	327,328	320,224	2.22%	0	0	0.0%	1,588,509	1,487,016	6.8%
E-MINI NASDAQ 100	0	0	0.0%	9,989,301	4,349,962	129.64%	0	0	0.0%	39,081,877	16,992,063	130.0%
E-MINI RUSSELL 1000	0	0	0.0%	7,354	875	740.46%	0	0	0.0%	36,414	4,237	759.4%
E-MINI RUSSELL 1000 GROWT	0	0	0.0%	10,128	1,387	630.21%	0	0	0.0%	32,380	2,716	1,092.2%
E-MINI RUSSELL 1000 VALUE	0	0	0.0%	6,648	1,747	280.54%	0	0	0.0%	33,640	7,373	356.3%
E-MINI RUSSELL 2000	0	-	-	2,188,717	-		0	-	-	11,052,980	-	-
E-MINI S&P500	0	0	0.0%	35,303,475	27,315,616	29.24%	0	0	0.0%	153,521,291	125,732,912	22.1%
E-MINI S&P REAL ESTATE SEL	0	0	0.0%	4,154	3,246	27.97%	0	0	0.0%	15,235	8,951	70.2%
FT-SE 100	0	0	0.0%	1,558	254	513.39%	0	0	0.0%	6,346	994	538.4%
FTSE Emerging	0	0	0.0%	25	0	0.00%	0	0	0.0%	512	72	611.1%
IBOVESPA INDEX	0	0	0.0%	1,569	702	123.50%	0	0	0.0%	4,969	2,822	76.1%
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	14,295	-100.00%	0	0	0.0%	54,444	28,111	93.7%
NIKKEI 225 (\$) STOCK	0	0	0.0%	242,944	242,852	0.04%	0	0	0.0%	1,661,224	1,143,263	45.3%
NIKKEI 225 (YEN) STOCK	0	0	0.0%	757,063	828,929	-8.67%	0	0	0.0%	4,235,900	3,787,973	11.8%
S&P 500	20,436	26,001	-21.4%	4,186	2,740	52.77%	173,234	300,908	-42.4%	26,177	20,364	28.5%
S&P 500/GI	0	0	0.0%	0	3	-100.00%	0	0	0.0%	26	55	-52.7%
S&P 500/VALUE	0	0	0.0%	4,822	5,324	-9.43%	0	0	0.0%	14,541	20,641	-29.6%
S&P CONSUMER DSCRTNRY S	0	0	0.0%	18,181	1,849	883.29%	0	0	0.0%	57,457	18,245	214.9%
S&P CONSUMER STAPLES SE	0	0	0.0%	7,377	2,496	195.55%	0	0	0.0%	50,020	28,981	72.6%
S&P ENERGY SECTOR	0	0	0.0%	16,453	8,124	102.52%	0	0	0.0%	69,982	45,137	55.0%
S&P FINANCIAL SECTOR	0	0	0.0%	29,026	11,144	160.46%	0	0	0.0%	111,629	53,580	108.3%
S&P HEALTH CARE SECTOR	0	0	0.0%	10,315	4,167	147.54%	0	0	0.0%	49,430	38,826	27.3%
S&P INDUSTRIAL SECTOR	0	0	0.0%	14,762	1,109	1,231.11%	0	0	0.0%	47,059	14,872	216.4%
S&P MATERIALS SECTOR	0	0	0.0%	6,526	2,692	142.42%	0	0	0.0%	30,369	20,667	46.9%
S&P TECHNOLOGY SECTOR	0	0	0.0%	19,182	2,040	840.29%	0	0	0.0%	72,985	19,583	272.7%
S&P UTILITIES SECTOR	0	0	0.0%	17,540	6,746	160.01%	0	0	0.0%	81,724	55,418	47.5%
YEN DENOMINATED TOPIX	0	-	-	52	-		0	-	-	1,057	-	-

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<b>Equity Index Options</b>												
E-mini (\$5) Dow	0	0	0.0%	8,518	2,710	214.32%	0	0	0.0%	47,957	21,375	124.4%
E-MINI MIDCAP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
E-MINI NASDAQ 100	0	0	0.0%	257,136	126,039	104.01%	0	0	0.0%	1,126,043	675,677	66.7%
E-MINI RUSSELL 2000	0	-	-	5,124	-	-	0	-	-	63,843	-	-
E-MINI S&P500	0	0	0.0%	4,864,439	3,021,978	60.97%	4,955	0	0.0%	27,548,237	15,848,497	73.8%
EOM E-MINI RUSSELL 2000 EN	0	-	-	1,984	-	-	0	-	-	28,330	-	-
EOM EMINI S&P	0	0	0.0%	1,892,120	2,201,165	-14.04%	0	0	0.0%	12,431,531	8,400,810	48.0%
EOM S&P 500	86,640	166,336	-47.9%	0	0	0.00%	995,729	738,336	34.9%	0	0	0.0%
EOW1 E-MINI RUSSELL 2000 W	0	-	-	2,425	-	-	0	-	-	10,963	-	-
EOW1 E-MINI RUSSELL 2000 W	0	-	-	3,008	-	-	0	-	-	14,146	-	-
EOW1 EMINI S&P 500	0	0	0.0%	1,274,677	1,310,244	-2.71%	0	0	0.0%	4,961,401	4,804,539	3.3%
EOW1 S&P 500	74,428	97,157	-23.4%	0	0	0.00%	275,837	307,170	-10.2%	0	0	0.0%
EOW2 E-MINI RUSSELL 2000 W	0	-	-	4,609	-	-	0	-	-	23,229	-	-
EOW2 EMINI S&P 500	0	0	0.0%	1,697,501	1,139,512	48.97%	0	0	0.0%	6,550,508	4,584,010	42.9%
EOW2 S&P 500	137,389	64,364	113.5%	0	0	0.00%	643,147	611,824	5.1%	0	0	0.0%
EOW3 E-MINI RUSSELL 2000 W	0	-	-	22,614	-	-	0	-	-	110,891	-	-
EOW3 EMINI S&P 500	0	0	0.0%	4,642,092	4,384,632	5.87%	0	0	0.0%	19,060,691	15,666,845	21.7%
EOW3 S&P 500	337,128	400,561	-15.8%	0	0	0.00%	1,708,464	1,511,394	13.0%	0	0	0.0%
EOW4 E-MINI RUSSELL 2000 W	0	-	-	3,856	-	-	0	-	-	33,182	-	-
EOW4 EMINI S&P 500	0	0	0.0%	1,228,546	59,717	1,957.28%	0	0	0.0%	5,887,041	3,514,793	67.5%
S&P 500	194,223	176,543	10.0%	0	0	0.00%	1,389,125	1,152,442	20.5%	0	0	0.0%

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<b>Metals Futures</b>												
ALUMINUM	0	0	0.0%	1,107	372	197.58%	0	0	0.0%	3,234	4,425	-26.9%
COMEX COPPER	0	0	0.0%	3,055,902	2,238,991	36.49%	0	0	0.0%	11,250,981	8,008,170	40.5%
COMEX E-Mini GOLD	0	0	0.0%	6,988	7,370	-5.18%	0	0	0.0%	28,545	38,377	-25.6%
COMEX E-Mini SILVER	0	0	0.0%	1,201	720	66.81%	0	0	0.0%	4,959	3,406	45.6%
COMEX GOLD	0	0	0.0%	6,403,880	4,461,090	43.55%	0	0	0.0%	28,865,817	20,383,912	41.6%
COMEX MINY COPPER	0	0	0.0%	531	790	-32.78%	0	0	0.0%	2,399	3,614	-33.6%
COMEX SILVER	0	0	0.0%	2,519,813	2,056,271	22.54%	0	0	0.0%	8,552,886	6,671,830	28.2%
COPPER	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
E-MICRO GOLD	0	0	0.0%	133,405	84,964	57.01%	0	0	0.0%	519,152	345,221	50.4%
FERROUS PRODUCTS	0	0	0.0%	4	0	0.00%	0	0	0.0%	46	35	31.4%
GOLD	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
Gold Kilo	0	0	0.0%	60	230	-73.91%	0	0	0.0%	136	1,631	-91.7%
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%	10	301	-96.68%	0	0	0.0%	26	1,529	-98.3%
LNDN ZINC	0	0	0.0%	7	15	-53.33%	0	0	0.0%	40	35	14.3%
METALS	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NYMEX HOT ROLLED STEEL	0	0	0.0%	2,748	152	1,707.89%	0	0	0.0%	12,025	728	1,551.8%
NYMEX PLATINUM	0	0	0.0%	412,608	274,939	50.07%	0	0	0.0%	1,734,008	1,386,755	25.0%
PALLADIUM	0	0	0.0%	139,059	92,121	50.95%	0	0	0.0%	487,400	427,334	14.1%
SILVER	0	0	0.0%	9,335	4,643	101.06%	0	0	0.0%	29,268	19,690	48.6%
URANIUM	0	0	0.0%	27	0	0.00%	0	0	0.0%	79	412	-80.8%

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<b>Metals Options</b>												
COMEX COPPER	0	0	0.0%	14,079	3,989	252.95%	0	0	0.0%	59,123	13,253	346.1%
COMEX GOLD	0	0	0.0%	754,169	627,619	20.16%	0	0	0.0%	3,043,068	2,450,183	24.2%
COMEX SILVER	0	0	0.0%	152,003	103,427	46.97%	0	0	0.0%	512,645	367,784	39.4%
GOLD	0	0	0.0%	34,325	10,505	226.75%	0	0	0.0%	132,244	38,259	245.7%
HOT ROLLED COIL STEEL CAL	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%	741	895	-17.21%	0	0	0.0%	5,798	2,514	130.6%
PALLADIUM	0	0	0.0%	2,273	1,333	70.52%	0	0	0.0%	7,630	3,418	123.2%
SILVER	0	0	0.0%	603	118	411.02%	0	0	0.0%	2,227	586	280.0%
<b>Energy Futures</b>												
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	0	0.00%	0	0	0.0%	30	0	0.0%
ARGUS PROPAN FAR EST IND	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ARGUS PROPAN(SAUDI ARAM	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
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%
BRENT OIL LAST DAY	0	0	0.0%	1,926,080	1,813,407	6.21%	0	0	0.0%	6,689,842	7,703,885	-13.2%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2018	Open Outcry APR 2017	% CHG	ELEC APR 2018	ELEC APR 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
<b>Energy Futures</b>												
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	-	-	6,434	-		0	-	-	20,416	-	-
CHICAGO ETHANOL SWAP	0	0	0.0%	246	165	49.09%	0	0	0.0%	1,006	1,082	-7.0%
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%	0	0	0.0%
CONWAY NORMAL BUTANE (O	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CONWAY PROPANE 5 DECIMA	0	0	0.0%	0	0	0.00%	0	0	0.0%	6	19	-68.4%
CRUDE OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	89	200	-55.5%
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%	27,549,926	20,732,464	32.88%	0	0	0.0%	106,326,542	88,404,403	20.3%
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	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%
DEMARC INDEX FUTURE	-	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 APR 2018	Open Outcry APR 2017	% CHG	ELEC APR 2018	ELEC APR 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
<b>Energy Futures</b>												
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	-	-
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	0.00%	-	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	-	-
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	-	-
ERCOT HOUSTON Z MCPE 5M	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%	9,238	16,095	-42.60%	0	0	0.0%	37,636	68,918	-45.4%
ETHANOL FWD	-	0	0.0%	-	0	0.00%	-	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%
EURO 3.5% FUEL OIL RDAM B	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2018	Open Outcry APR 2017	% CHG	ELEC APR 2018	ELEC APR 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
<b>Energy Futures</b>												
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%	728	2,095	-65.25%	0	0	0.0%	1,662	11,099	-85.0%
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%
GASOIL 10P CRG CIF NW VS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2018	Open Outcry APR 2017	% CHG	ELEC APR 2018	ELEC APR 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
<b>Energy Futures</b>												
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%
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%	3,888,124	2,868,583	35.54%	0	0	0.0%	15,347,066	12,244,380	25.3%
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	-	-	1,248	-		0	-	-	5,911	-	-
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%	122	6,606	-98.15%	0	0	0.0%	13,914	44,204	-68.5%
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	0	0.0%
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	-	-
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	0	0.00%	0	0	0.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2018	Open Outcry APR 2017	% CHG	ELEC APR 2018	ELEC APR 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
<b>Energy Futures</b>												
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) VS WTI SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LTD NAT GAS	0	0	0.0%	156,924	74,213	111.45%	0	0	0.0%	932,269	416,520	123.8%
MARS (ARGUS) VS WTI SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MARS (ARGUS) VS WTI TRD M	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
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%	111	0	0.00%	0	0	0.0%	369	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%
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	1	200.00%	0	0	0.0%	13	11	18.2%
MINY NATURAL GAS	0	0	0.0%	17,849	20,689	-13.73%	0	0	0.0%	132,954	125,238	6.2%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2018	Open Outcry APR 2017	% CHG	ELEC APR 2018	ELEC APR 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
<b>Energy Futures</b>												
MINY RBOB GAS	0	0	0.0%	3	3	0.00%	0	0	0.0%	12	20	-40.0%
MINY WTI CRUDE OIL	0	0	0.0%	353,922	190,045	86.23%	0	0	0.0%	1,187,255	915,347	29.7%
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%	4	37	-89.19%	0	0	0.0%	30	100	-70.0%
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%
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%	45,335	30,910	46.67%	0	0	0.0%	266,702	116,410	129.1%
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	51	-100.0%
NATURAL GAS PHY	0	0	0.0%	8,153,778	7,658,386	6.47%	0	0	0.0%	37,069,408	33,315,665	11.3%
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%
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%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2018	Open Outcry APR 2017	% CHG	ELEC APR 2018	ELEC APR 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
<b>Energy Futures</b>												
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%
NORTHEN NATURAL GAS DEM	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NORTHEN 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%	25	0	0.00%	0	0	0.0%	40	3	1,233.3%
NY HARBOR LOW SULPUR GA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NY HARBOR RESIDUAL FUEL 1	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYH NO 2 CRACK SPREAD CA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
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%
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%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2018	Open Outcry APR 2017	% CHG	ELEC APR 2018	ELEC APR 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
<b>Energy Futures</b>												
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 AEEO DA OFF-PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM AEEO 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%
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%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2018	Open Outcry APR 2017	% CHG	ELEC APR 2018	ELEC APR 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
<b>Energy Futures</b>												
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	0.00%	-	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	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%	3,861,657	3,419,759	12.92%	0	0	0.0%	15,274,854	15,149,316	0.8%
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%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2018	Open Outcry APR 2017	% CHG	ELEC APR 2018	ELEC APR 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
<b>Energy Futures</b>												
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	13	-100.00%	0	0	0.0%	1	13	-92.3%
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	1	-100.00%	0	0	0.0%	1	1	0.0%
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	-	-
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	0	0.00%	0	0	0.0%	0	0	0.0%
TD3 MEG TO JAPAN 250K MT	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%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2018	Open Outcry APR 2017	% CHG	ELEC APR 2018	ELEC APR 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
<b>Energy Futures</b>												
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	-	-
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	120	-100.00%	0	0	0.0%	0	120	-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%
<b>Energy Options</b>												
12 MO GASOIL CAL SWAP SPR	0	-	-	0	-		0	-	-	0	-	-

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2018	Open Outcry APR 2017	% CHG	ELEC APR 2018	ELEC APR 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
<b>Energy Options</b>												
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%	0	0	0.0%
BRENT CRUDE OIL 12 M CSO	0	-	-	0	-		0	-	-	0	-	-
BRENT CRUDE OIL 1 M CSO	0	-	-	1,800	-		0	-	-	1,800	-	-
BRENT CRUDE OIL 6 M CSO	0	-	-	0	-		0	-	-	0	-	-
BRENT OIL LAST DAY	0	0	0.0%	49,268	1,468	3,256.13%	0	0	0.0%	156,948	15,053	942.6%
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%	25,725	10,670	141.10%	0	0	0.0%	70,610	82,053	-13.9%
CRUDE OIL APO	0	0	0.0%	120	30	300.00%	0	0	0.0%	166	40	315.0%
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%	3,148,040	3,231,187	-2.57%	0	0	0.0%	12,436,519	12,075,893	3.0%
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	-	-
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%	6,185	4,867	27.08%	0	0	0.0%	27,473	18,391	49.4%
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%	0	0	0.00%	0	0	0.0%	1	0	0.0%
NATURAL GAS 2 M CSO FIN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2018	Open Outcry APR 2017	% CHG	ELEC APR 2018	ELEC APR 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
<b>Energy Options</b>												
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%	801,297	974,863	-17.80%	0	0	0.0%	5,724,877	4,156,167	37.7%
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%	98	31	216.13%	0	0	0.0%	157	215	-27.0%
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%	5	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	-	-
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	0	0.0%
RBOB PHY	0	0	0.0%	2,905	4,148	-29.97%	0	0	0.0%	19,329	21,247	-9.0%
ROTTERDAM 3.5%FUEL OIL CL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SAN JUAN PIPE SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SHORT TERM	0	0	0.0%	0	0	0.00%	0	0	0.0%	300	0	0.0%
SHORT TERM NATURAL GAS	0	0	0.0%	33	0	0.00%	0	0	0.0%	354	0	0.0%
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%	18,100	300	5,933.33%	0	0	0.0%	128,821	3,840	3,254.7%
WTI CRUDE OIL 1 M CSO FI	0	0	0.0%	750	0	0.00%	0	0	0.0%	10,950	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2018	Open Outcry APR 2017	% CHG	ELEC APR 2018	ELEC APR 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
<b>FX Futures</b>												
AD/CD CROSS RATES	0	0	0.0%	4	6	-33.33%	0	0	0.0%	22	21	4.8%
AD/JY CROSS RATES	0	0	0.0%	2,477	1,519	63.07%	0	0	0.0%	15,726	7,697	104.3%
AD/NE CROSS RATES	0	0	0.0%	62	36	72.22%	0	0	0.0%	335	110	204.5%
AUSTRALIAN DOLLAR	0	0	0.0%	1,924,572	1,545,274	24.55%	0	747	-100.0%	9,545,866	7,134,063	33.8%
BDI	0	0	0.0%	0	1,201	-100.00%	0	0	0.0%	0	5,403	-100.0%
BP/JY CROSS RATES	0	0	0.0%	2,811	2,421	16.11%	0	0	0.0%	14,521	9,003	61.3%
BP/SF CROSS RATES	0	0	0.0%	275	288	-4.51%	0	0	0.0%	1,167	308	278.9%
BRAZIL REAL	0	0	0.0%	103,598	52,961	95.61%	0	0	0.0%	361,358	173,832	107.9%
BRITISH POUND	3	2	50.0%	2,244,468	1,999,789	12.24%	7	248	-97.2%	10,906,803	9,549,708	14.2%
CANADIAN DOLLAR	1	4	-75.0%	1,527,425	1,269,615	20.31%	33	766	-95.7%	6,934,957	5,473,973	26.7%
CD/JY CROSS RATES	0	0	0.0%	218	154	41.56%	0	0	0.0%	320	432	-25.9%
CHINESE RENMINBI (CNH)	0	0	0.0%	1,781	528	237.31%	0	0	0.0%	9,505	5,803	63.8%
EC/AD CROSS RATES	0	0	0.0%	662	1,814	-63.51%	0	0	0.0%	5,553	9,505	-41.6%
EC/CD CROSS RATES	0	0	0.0%	1,947	1,944	0.15%	0	0	0.0%	14,917	11,872	25.6%
EC/NOK CROSS RATES	0	0	0.0%	302	11	2,645.45%	0	0	0.0%	1,227	126	873.8%
EC/SEK CROSS RATES	0	0	0.0%	140	126	11.11%	0	0	0.0%	3,048	604	404.6%
EFX/BP CROSS RATES	0	0	0.0%	56,167	47,181	19.05%	0	0	0.0%	305,144	219,308	39.1%
EFX/JY CROSS RATES	0	0	0.0%	45,633	52,913	-13.76%	0	0	0.0%	300,640	190,990	57.4%
EFX/SF CROSS RATES	0	0	0.0%	14,611	22,723	-35.70%	0	0	0.0%	103,943	110,353	-5.8%
E-MICRO AUD/USD	0	0	0.0%	84,891	60,039	41.39%	0	0	0.0%	399,501	321,952	24.1%
E-MICRO CAD/USD	0	0	0.0%	13,835	17,020	-18.71%	0	0	0.0%	75,105	60,367	24.4%
E-MICRO CHF/USD	0	0	0.0%	1,026	840	22.14%	0	0	0.0%	5,178	3,593	44.1%
E-MICRO EUR/USD	0	0	0.0%	356,765	234,641	52.05%	0	0	0.0%	1,565,214	1,064,540	47.0%
E-MICRO GBP/USD	0	0	0.0%	45,062	58,988	-23.61%	0	0	0.0%	234,221	254,618	-8.0%
E-MICRO INR/USD	0	0	0.0%	3,317	2,682	23.68%	0	0	0.0%	12,967	9,437	37.4%
E-MICRO JPY/USD	0	0	0.0%	33,026	41,769	-20.93%	0	0	0.0%	139,772	203,482	-31.3%
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%	63,198	73,178	-13.64%	0	0	0.0%	395,854	333,248	18.8%
E-MINI JAPANESE YEN	0	0	0.0%	10,054	26,059	-61.42%	0	0	0.0%	51,195	124,102	-58.7%
EURO FX	9	512	-98.2%	4,391,968	3,334,399	31.72%	437	1,608	-72.8%	21,691,316	17,027,516	27.4%
HUNGARIAN FORINT (EC)	0	-	-	0	-		0	-	-	0	-	-

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2018	Open Outcry APR 2017	% CHG	ELEC APR 2018	ELEC APR 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
<b>FX Futures</b>												
INDIAN RUPEE	0	0	0.0%	69,277	26,122	165.21%	0	0	0.0%	350,314	110,857	216.0%
JAPANESE YEN	7	1,172	-99.4%	2,594,103	2,981,741	-13.00%	17	7,362	-99.8%	12,988,936	13,547,965	-4.1%
KOREAN WON	0	0	0.0%	149	11	1,254.55%	0	0	0.0%	1,187	55	2,058.2%
MEXICAN PESO	0	0	0.0%	1,194,946	824,666	44.90%	0	5	-100.0%	5,198,019	3,891,070	33.6%
NEW ZEALND DOLLAR	0	0	0.0%	583,105	315,259	84.96%	0	0	0.0%	2,621,373	1,879,172	39.5%
NKR/USD CROSS RATE	0	0	0.0%	3,455	799	332.42%	0	0	0.0%	13,658	7,034	94.2%
POLISH ZLOTY (EC)	0	0	0.0%	4	71	-94.37%	0	0	0.0%	48	135	-64.4%
POLISH ZLOTY (US)	0	0	0.0%	68	40	70.00%	0	0	0.0%	438	508	-13.8%
RMB USD	0	0	0.0%	0	2	-100.00%	0	0	0.0%	15	121	-87.6%
RUSSIAN RUBLE	0	0	0.0%	85,099	25,649	231.78%	0	0	0.0%	240,846	125,353	92.1%
S.AFRICAN RAND	0	0	0.0%	34,752	35,409	-1.86%	0	0	0.0%	160,345	166,465	-3.7%
SF/JY CROSS RATES	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SHEKEL	0	-	-	0	-		0	-	-	0	-	-
SKR/USD CROSS RATES	0	0	0.0%	3,355	1,414	137.27%	0	0	0.0%	12,317	7,310	68.5%
SWISS FRANC	0	0	0.0%	479,569	390,636	22.77%	0	0	0.0%	2,332,420	1,826,915	27.7%
TURKISH LIRA	0	0	0.0%	0	12	-100.00%	0	0	0.0%	0	12	-100.0%
USDZAR	0	0	0.0%	0	0	0.00%	0	0	0.0%	5	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

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<b>FX Options</b>												
AUD/USD PQO 2pm Fix	0	0	0.0%	121,428	62,439	94.47%	0	1,375	-100.0%	514,724	274,638	87.4%
AUSTRALIAN DLR (EU)	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	2	-100.0%
AUSTRALIAN DOLLAR	0	150	-100.0%	0	20,874	-100.00%	0	2,423	-100.0%	0	145,056	-100.0%
BRITISH POUND	0	44	-100.0%	0	49,259	-100.00%	0	651	-100.0%	0	271,637	-100.0%
BRITISH POUND (EU)	0	0	0.0%	3	196	-98.47%	0	0	0.0%	117	821	-85.7%
CAD/USD PQO 2pm Fix	17	25	-32.0%	163,140	72,066	126.38%	1,609	1,765	-8.8%	674,782	291,630	131.4%
CANADIAN DOLLAR	0	61	-100.0%	0	23,156	-100.00%	0	1,682	-100.0%	0	128,097	-100.0%
CANADIAN DOLLAR (EU)	0	0	0.0%	0	5	-100.00%	0	0	0.0%	63	46	37.0%
CHF/USD PQO 2pm Fix	0	0	0.0%	3,446	1,423	142.16%	0	0	0.0%	8,405	8,034	4.6%
EFX/JY CROSS RATES	0	-	-	0	-	-	0	-	-	0	-	-
EURO FX	0	2,533	-100.0%	0	259,524	-100.00%	0	7,757	-100.0%	0	891,831	-100.0%
EURO FX (EU)	0	0	0.0%	0	23	-100.00%	0	0	0.0%	21	229	-90.8%
EUR/USD PQO 2pm Fix	243	3,587	-93.2%	582,666	479,007	21.64%	4,249	11,015	-61.4%	3,216,434	1,529,630	110.3%
GBP/USD PQO 2pm Fix	18	10	80.0%	208,991	107,202	94.95%	455	509	-10.6%	992,784	500,787	98.2%
JAPANESE YEN	0	1,506	-100.0%	0	62,626	-100.00%	0	7,502	-100.0%	0	415,149	-100.0%
JAPANESE YEN (EU)	0	0	0.0%	0	28	-100.00%	0	0	0.0%	0	133	-100.0%
JPY/USD PQO 2pm Fix	240	1,583	-84.8%	257,818	183,661	40.38%	3,153	24,810	-87.3%	1,107,618	816,622	35.6%
MEXICAN PESO	580	140	314.3%	4,653	614	657.82%	1,480	249	494.4%	7,026	17,506	-59.9%
RUSSIAN RUBLE	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
SWISS FRANC	0	0	0.0%	0	468	-100.00%	0	0	0.0%	0	4,145	-100.0%
SWISS FRANC (EU)	0	0	0.0%	0	4	-100.00%	0	0	0.0%	0	5	-100.0%
<b>Ags Futures</b>												
FERTILIZER PRODUCTS	0	-	-	0	-	-	0	-	-	0	-	-
<b>Foreign Exchange Futures</b>												
CHILEAN PESO	0	0	0.0%	747	380	96.58%	0	0	0.0%	7,659	909	742.6%

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## CME Group Exchange Volume Comparison Report - Monthly

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<b>Foreign Exchange Options</b>												
AUD/USD PQO 2pm Fix	0	-	-	560	-		0	-	-	2,066	-	-
<b>Ag Products Futures</b>												
BUTTER CS	0	0	0.0%	3,296	2,683	22.85%	0	0	0.0%	18,563	11,873	56.3%
CASH-SETTLED CHEESE	0	0	0.0%	8,001	8,671	-7.73%	0	0	0.0%	36,754	44,999	-18.3%
CAT EURO SEASONAL STRIP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
CATTLE	1,199	2,628	-54.4%	1,292,477	1,253,355	3.12%	5,819	13,142	-55.7%	5,477,108	5,047,160	8.5%
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	11,152	15,262	-26.9%	3,423,022	3,253,066	5.22%	53,856	76,606	-29.7%	12,789,075	11,016,298	16.1%
CLASS IV MILK	0	10	-100.0%	550	421	30.64%	0	60	-100.0%	2,440	5,331	-54.2%
COCOA TAS	0	0	0.0%	5	3	66.67%	0	0	0.0%	5	53	-90.6%
COFFEE	0	0	0.0%	0	20	-100.00%	0	0	0.0%	0	20	-100.0%
CORN	38,776	30,858	25.7%	9,845,934	8,401,782	17.19%	104,745	126,947	-17.5%	34,965,914	27,865,771	25.5%
COTTON	0	0	0.0%	0	1	-100.00%	0	0	0.0%	2	4	-50.0%
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%	32,792	57,572	-43.04%	0	0	0.0%	299,586	213,519	40.3%
DRY WHEY	0	0	0.0%	910	1,566	-41.89%	0	0	0.0%	4,750	10,149	-53.2%
FEEDER CATTLE	5	168	-97.0%	339,737	355,511	-4.44%	12	297	-96.0%	1,222,139	1,090,835	12.0%
FERTILIZER PRODUCTS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GOLDMAN SACHS	0	0	0.0%	30,782	32,392	-4.97%	0	0	0.0%	124,730	138,120	-9.7%
GSCI EXCESS RETURN FUT	0	0	0.0%	0	0	0.00%	0	0	0.0%	296	327	-9.5%
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%	55	50	10.0%
HDD WEATHER EUROPEAN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	50	-100.0%
HOGS	1,555	2,034	-23.5%	960,469	682,839	40.66%	6,399	9,616	-33.5%	4,028,841	3,221,080	25.1%
HOUSING INDEX	0	0	0.0%	9	4	125.00%	0	0	0.0%	30	51	-41.2%
Intercommodity Spread	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
KC WHEAT	1,547	1,942	-20.3%	1,424,528	1,120,973	27.08%	5,575	4,168	33.8%	5,855,938	3,769,026	55.4%
LUMBER	0	0	0.0%	22,439	21,607	3.85%	0	0	0.0%	73,814	67,762	8.9%

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<b>Ag Products Futures</b>												
MALAYSIAN PALM SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MILK	0	3	-100.0%	18,985	20,260	-6.29%	212	584	-63.7%	78,446	108,720	-27.8%
MINI CORN	0	0	0.0%	11,200	9,283	20.65%	0	0	0.0%	41,913	35,525	18.0%
MINI SOYBEAN	0	0	0.0%	28,778	12,546	129.38%	0	0	0.0%	121,741	68,497	77.7%
MINI WHEAT	0	0	0.0%	5,618	5,557	1.10%	0	0	0.0%	23,616	21,717	8.7%
MLK MID OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NFD MILK	5	0	0.0%	7,080	2,290	209.17%	43	0	0.0%	22,663	21,478	5.5%
OATS	0	0	0.0%	20,809	14,313	45.39%	0	77	-100.0%	64,120	55,541	15.4%
PALM OIL	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ROUGH RICE	0	0	0.0%	25,124	33,507	-25.02%	0	0	0.0%	68,649	92,251	-25.6%
SOYBEAN	19,597	13,437	45.8%	6,435,961	4,338,289	48.35%	66,461	57,146	16.3%	21,753,762	16,540,752	31.5%
SOYBEAN MEAL	4,661	1,571	196.7%	3,254,536	2,293,945	41.88%	19,199	9,553	101.0%	11,252,383	7,946,713	41.6%
SOYBEAN OIL	2,054	5,447	-62.3%	3,137,482	2,552,428	22.92%	6,512	16,143	-59.7%	10,789,941	9,549,635	13.0%
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%	58	0	0.00%	0	0	0.0%	58	18	222.2%
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	11,947	-100.00%	0	0	0.0%	22	42,548	-99.9%
<b>Ag Products Options</b>												
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	0	0.0%	0	0	0.0%
BUTTER CS	2,241	826	171.3%	2,935	177	1,558.19%	4,914	3,761	30.7%	8,391	989	748.4%
CASH-SETTLED CHEESE	2,821	3,230	-12.7%	5,574	3,770	47.85%	10,740	16,279	-34.0%	26,891	14,001	92.1%
CATTLE	29,285	52,946	-44.7%	272,589	222,874	22.31%	119,350	231,151	-48.4%	995,658	826,255	20.5%
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	139,842	165,665	-15.6%	634,680	448,699	41.45%	706,732	630,609	12.1%	2,471,564	1,811,532	36.4%
CLASS IV MILK	259	148	75.0%	689	1,542	-55.32%	340	1,750	-80.6%	3,414	4,414	-22.7%
CORN	534,385	518,207	3.1%	1,687,494	1,302,650	29.54%	2,092,441	2,098,291	-0.3%	5,728,397	5,004,911	14.5%
CORN NEARBY+2 CAL SPRD	10	100	-90.0%	0	6	-100.00%	6,708	2,525	165.7%	0	11	-100.0%
DEC-DEC CORN CAL SPRD	352	257	37.0%	0	0	0.00%	1,428	1,447	-1.3%	0	0	0.0%
DEC-JULY CORN CAL SPRD	0	0	0.0%	0	0	0.00%	0	3,900	-100.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2018	Open Outcry APR 2017	% CHG	ELEC APR 2018	ELEC APR 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
<b>Ag Products Options</b>												
DEC-JULY WHEAT CAL SPRD	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
DRY WHEY	42	369	-88.6%	184	237	-22.36%	739	1,384	-46.6%	979	507	93.1%
FEEDER CATTLE	2,172	4,796	-54.7%	31,985	43,324	-26.17%	10,074	13,336	-24.5%	133,250	128,862	3.4%
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	35,491	16,017	121.6%	175,363	155,857	12.52%	109,262	93,558	16.8%	655,555	609,994	7.5%
HOUSING INDEX	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	24	-100.0%
Intercommodity Spread	180	0	0.0%	0	0	0.00%	6,630	201	3,198.5%	0	0	0.0%
JAN-MAY SOYBEAN CAL SPRD	0	-	-	0	-	-	0	-	-	0	-	-
JULY-DEC CORN CAL SPRD	4,700	4,212	11.6%	0	0	0.00%	8,719	7,512	16.1%	100	0	0.0%
JULY-DEC SOY OIL CAL SPRD	0	0	0.0%	0	0	0.00%	0	420	-100.0%	0	10	-100.0%
JULY-DEC WHEAT CAL SPRD	200	0	0.0%	45	0	0.00%	665	1,150	-42.2%	55	0	0.0%
JULY-JULY WHEAT CAL SPRD	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
JULY-NOV SOYBEAN CAL SPR	8,732	9,298	-6.1%	1,398	20	6,890.00%	44,119	51,013	-13.5%	1,978	1,184	67.1%
KC WHEAT	32,258	17,254	87.0%	63,574	23,804	167.07%	151,721	50,342	201.4%	242,968	90,786	167.6%
LUMBER	5	5	0.0%	1,904	1,628	16.95%	136	30	353.3%	7,396	5,024	47.2%
LV CATL CSO	10	200	-95.0%	0	0	0.00%	20	1,055	-98.1%	0	0	0.0%
MAR-JULY CORN CAL SPRD	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MAR-JULY WHEAT CAL SPRD	0	0	0.0%	0	0	0.00%	200	1,293	-84.5%	0	76	-100.0%
MILK	6,760	11,810	-42.8%	21,471	18,280	17.46%	23,262	50,902	-54.3%	81,976	95,371	-14.0%
MLK MID OPTIONS	87	19	357.9%	0	0	0.00%	210	329	-36.2%	0	0	0.0%
NFD MILK	1,622	1,197	35.5%	7,572	925	718.59%	5,914	7,777	-24.0%	17,824	11,357	56.9%
NOV-DEC SOYBEAN CSO	70	-	-	0	-	-	70	-	-	0	-	-
NOV-JULY SOYBEAN CAL SPR	0	0	0.0%	0	0	0.00%	1	25	-96.0%	0	0	0.0%
NOV-NOV SOYBEAN CAL SPR	4	12	-66.7%	0	0	0.00%	13	76	-82.9%	0	0	0.0%
OATS	12	481	-97.5%	354	562	-37.01%	472	2,622	-82.0%	1,423	2,115	-32.7%
ROUGH RICE	52	1,024	-94.9%	814	1,057	-22.99%	1,448	2,390	-39.4%	3,352	3,253	3.0%
SOYBEAN	347,300	242,569	43.2%	1,521,973	805,114	89.04%	1,239,837	1,294,469	-4.2%	5,626,379	3,704,552	51.9%
SOYBEAN CRUSH	10	105	-90.5%	0	0	0.00%	82	295	-72.2%	0	0	0.0%
SOYBEAN MEAL	117,795	42,771	175.4%	211,324	109,319	93.31%	498,904	226,913	119.9%	855,826	473,893	80.6%
SOYBEAN OIL	43,326	86,942	-50.2%	62,442	81,030	-22.94%	160,879	340,270	-52.7%	340,772	359,453	-5.2%
SOYBN NEARBY+2 CAL SPRD	0	200	-100.0%	0	0	0.00%	0	360	-100.0%	0	600	-100.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2018	Open Outcry APR 2017	% CHG	ELEC APR 2018	ELEC APR 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
<b>Ag Products Options</b>												
SOYMEAL NEARBY+2 CAL SPR	400	0	0.0%	0	0	0.00%	400	0	0.0%	0	0	0.0%
WHEAT	0	486	-100.0%	0	125	-100.00%	410	547	-25.0%	154	137	12.4%
WHEAT-CORN ICSCO	300	760	-60.5%	0	0	0.00%	2,345	3,205	-26.8%	0	6	-100.0%
WHEAT NEARBY+2 CAL SPRD	100	705	-85.8%	340	693	-50.94%	4,650	3,220	44.4%	2,246	1,930	16.4%
<b>TOTAL FUTURES GROUP</b>												
Interest Rate Futures	1,059,593	874,648	21.1%	115,033,643	103,771,550	10.9%	4,668,450	3,591,157	30.0%	637,880,729	510,679,272	24.9%
Equity Index Futures	20,436	26,001	-21.4%	54,552,245	35,863,092	52.1%	173,234	300,908	-42.4%	234,789,868	161,033,197	45.8%
Metals Futures	0	0	0.0%	12,686,685	9,222,969	37.6%	0	0	0.0%	51,491,001	37,297,104	38.1%
Energy Futures	0	0	0.0%	45,971,757	36,833,592	24.8%	0	0	0.0%	183,308,028	158,522,997	15.6%
FX Futures	20	1,690	-98.8%	15,978,177	13,451,950	18.8%	494	10,736	-95.4%	77,015,296	63,868,938	20.6%
Ags Futures	0	-	-	0	-	-	0	-	-	0	-	-
Foreign Exchange Futures	0	0	0.0%	747	380	96.6%	0	0	0.0%	7,659	909	742.6%
Ag Products Futures	80,551	73,360	9.8%	30,330,582	24,486,831	23.9%	268,833	314,339	-14.5%	109,117,354	86,985,873	25.4%
<b>TOTAL FUTURES</b>	<b>1,160,600</b>	<b>975,699</b>	<b>19.0%</b>	<b>274,553,836</b>	<b>223,630,364</b>	<b>22.8%</b>	<b>5,111,011</b>	<b>4,217,140</b>	<b>21.2%</b>	<b>1,293,609,935</b>	<b>1,018,388,290</b>	<b>27.0%</b>
<b>TOTAL OPTIONS GROUP</b>												
Equity Index Options	829,808	904,961	-8.3%	15,908,649	12,245,997	29.9%	5,017,257	4,321,166	16.1%	77,897,993	53,516,546	45.6%
Interest Rate Options	19,159,051	22,982,806	-16.6%	20,517,389	23,526,709	-12.8%	102,045,002	96,738,281	5.5%	112,044,214	85,827,280	30.5%
Metals Options	0	0	0.0%	958,193	747,886	28.1%	0	0	0.0%	3,762,735	2,875,997	30.8%
Energy Options	0	0	0.0%	4,054,321	4,227,564	-4.1%	0	0	0.0%	18,578,316	16,372,899	13.5%
FX Options	1,098	9,639	-88.6%	1,342,145	1,322,575	1.5%	10,946	59,738	-81.7%	6,521,974	5,295,998	23.1%
Ag Products Options	1,310,823	1,182,611	10.8%	4,704,704	3,221,693	46.0%	5,213,835	5,144,407	1.3%	17,206,548	13,151,247	30.8%
Foreign Exchange Options	0	-	-	560	-	-	0	-	-	2,066	-	-
<b>TOTAL OPTIONS</b>	<b>21,300,780</b>	<b>25,080,017</b>	<b>-15.1%</b>	<b>47,485,961</b>	<b>45,292,424</b>	<b>4.8%</b>	<b>112,287,040</b>	<b>106,263,592</b>	<b>5.7%</b>	<b>236,013,846</b>	<b>177,039,967</b>	<b>33.3%</b>

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2018	Open Outcry APR 2017	% CHG	ELEC APR 2018	ELEC APR 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
<b>TOTAL COMBINED</b>												
Interest Rate	20,218,644	23,857,454	-15.3%	135,551,032	127,298,259	6.5%	106,713,452	100,329,438	6.4%	749,924,943	596,506,552	25.7%
Equity Index	850,244	930,962	-8.7%	70,460,894	48,109,089	46.5%	5,190,491	4,622,074	12.3%	312,687,861	214,549,743	45.7%
Metals	0	0	0.0%	13,644,878	9,970,855	36.8%	0	0	0.0%	55,253,736	40,173,101	37.5%
Energy	0	0	0.0%	50,026,078	41,061,156	21.8%	0	0	0.0%	201,886,344	174,895,896	15.4%
FX	1,118	11,329	-90.1%	17,320,322	14,774,525	17.2%	11,440	70,474	-83.8%	83,537,270	69,164,936	20.8%
Ags	0	-	-	0	-		0		-	0	-	-
Foreign Exchange	0	0	0.0%	1,307	380	243.9%	0	0	0.0%	9,725	909	969.9%
Ag Products	1,391,374	1,255,971	10.8%	35,035,286	27,708,524	26.4%	5,482,668	5,458,746	0.4%	126,323,902	100,137,120	26.2%
<b>GRAND TOTAL</b>	<b>22,461,380</b>	<b>26,055,716</b>	<b>-13.8%</b>	<b>322,039,797</b>	<b>268,922,788</b>	<b>19.8%</b>	<b>117,398,051</b>	<b>110,480,732</b>	<b>6.3%</b>	<b>1,529,623,781</b>	<b>1,195,428,257</b>	<b>28.0%</b>

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