



## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2017	Open Outcry NOV 2016	% CHG	ELEC NOV 2017	ELEC NOV 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG
<b>Interest Rate Futures</b>												
30-YR BOND	14,515	17,413	-16.6%	8,026,624	8,531,294	-0.06	182,199	216,724	-15.9%	66,717,883	64,269,620	3.8%
10-YR NOTE	112,679	221,533	-49.1%	40,251,077	44,712,789	-0.1	1,386,146	1,605,115	-13.6%	341,043,767	317,433,791	7.4%
5-YR NOTE	26,737	31,807	-15.9%	26,797,584	28,645,723	-0.06	244,575	318,057	-23.1%	201,180,266	178,886,502	12.5%
2-YR NOTE	2,655	450	490.0%	13,952,937	10,934,664	0.28	19,545	9,553	104.6%	83,932,383	72,518,730	15.7%
FED FUND	0	0	0.0%	2,745,030	3,350,142	-0.18	30	225	-86.7%	44,614,457	31,048,058	43.7%
EURODOLLARS	660,232	918,116	-28.1%	48,059,358	82,265,871	-0.42	7,007,421	6,234,448	12.4%	578,041,719	579,549,134	-0.3%
5-YR SWAP RATE	0	0	0.0%	21,609	76,395	-0.72	0	0	0.0%	462,855	643,229	-28.0%
2-YR SWAP RATE	0	0	0.0%	0	4	-1	0	0	0.0%	0	4,418	-100.0%
10-YR SWAP RATE	0	0	0.0%	28,761	42,887	-0.33	0	0	0.0%	462,353	492,749	-6.2%
7-YR SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	3,052	-100.0%
1-MONTH EURODOLLAR	0	0	0.0%	4,420	2,171	1.04	0	0	0.0%	51,775	12,883	301.9%
ULTRA T-BOND	0	279	-100.0%	4,701,981	3,837,392	0.23	15	776	-98.1%	29,480,389	24,991,953	18.0%
Ultra 10-Year Note	0	0	0.0%	3,954,932	3,009,991	0.31	8	28	-71.4%	25,797,554	14,444,181	78.6%
30-YR SWAP RATE	0	0	0.0%	133	1,711	-0.92	0	0	0.0%	10,383	18,261	-43.1%
2YR BUNDLE	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
3YR BUNDLE	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
EURO 5YR BUNDLE	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
<b>Interest Rate Options</b>												
30-YR BOND	210,111	346,682	-39.4%	1,712,080	2,001,421	-0.14	2,811,068	3,318,532	-15.3%	22,173,755	16,347,862	35.6%
10-YR NOTE	2,133,114	3,569,065	-40.2%	7,648,757	9,622,596	-0.21	24,335,040	25,710,783	-5.4%	93,978,818	61,324,747	53.2%
5-YR NOTE	571,247	806,749	-29.2%	1,625,606	1,981,280	-0.18	6,033,461	7,078,604	-14.8%	21,453,100	14,739,404	45.5%
2-YR NOTE	88,474	42,807	106.7%	194,197	97,948	0.98	725,063	484,683	49.6%	1,294,884	1,109,408	16.7%
FED FUND	0	8,452	-100.0%	65	1,312	-0.95	15,398	78,803	-80.5%	1,482	14,631	-89.9%
EURODOLLARS	6,113,057	9,676,460	-36.8%	3,646,239	5,076,847	-0.28	89,052,373	110,543,177	-19.4%	43,024,159	34,237,463	25.7%
EURO MIDCURVE	10,240,172	12,137,615	-15.6%	6,742,140	4,774,237	0.41	98,467,733	75,624,393	30.2%	63,835,544	33,239,085	92.0%
ULTRA T-BOND	1,487	3,137	-52.6%	2,502	6,314	-0.6	12,443	29,233	-57.4%	22,107	54,265	-59.3%
Ultra 10-Year Note	0	1,200	-100.0%	0	2,922	-1	1,652	10,675	-84.5%	6,835	20,738	-67.0%

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<b>Equity Index Futures</b>												
DJIA	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
E-MINI S&P500	0	0	0.0%	27,554,129	38,107,532	-0.28	0	0	0.0%	333,755,902	435,379,174	-23.3%
S&P 500	22,303	61,717	-63.9%	4,209	9,162	-0.54	698,482	1,175,560	-40.6%	48,090	108,496	-55.7%
S&P 600 SMALLCAP EMINI	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
E-MINI MIDCAP	0	0	0.0%	278,129	342,132	-0.19	0	0	0.0%	3,760,657	4,669,093	-19.5%
S&P 400 MIDCAP	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
S&P 500 GROWTH	0	0	0.0%	1	11	-0.91	0	0	0.0%	251	231	8.7%
S&P 500/VALUE	0	0	0.0%	1,162	3,042	-0.62	0	0	0.0%	73,738	30,544	141.4%
E-MINI RUSSELL 2000	0	-	-	2,164,088	-		0	-	-	7,210,280	-	-
E-MINI RUSSELL 1000	0	0	0.0%	6,643	75	87.57	0	0	0.0%	28,345	4,229	570.3%
E-MINI NASDAQ 100	0	0	0.0%	6,421,192	5,328,024	0.21	0	0	0.0%	62,479,988	60,610,735	3.1%
NASDAQ	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
NIKKEI 225 (\$) STOCK	0	0	0.0%	425,097	292,242	0.45	0	0	0.0%	3,023,295	3,978,936	-24.0%
NIKKEI 225 (YEN) STOCK	0	0	0.0%	1,148,523	1,322,841	-0.13	0	0	0.0%	10,066,944	13,725,302	-26.7%
DJ US REAL ESTATE	0	0	0.0%	16,236	9,345	0.74	0	0	0.0%	174,445	122,275	42.7%
NASDAQ BIOTECH	0	0	0.0%	0	0	0	0	0	0.0%	0	18	-100.0%
E-MICRO NIFTY	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
S&P CONSUMER STAPLES SE	0	0	0.0%	3,197	8,527	-0.63	0	0	0.0%	87,234	83,540	4.4%
S&P HEALTH CARE SECTOR	0	0	0.0%	4,238	14,794	-0.71	0	0	0.0%	92,740	89,449	3.7%
S&P TECHNOLOGY SECTOR	0	0	0.0%	4,825	4,886	-0.01	0	0	0.0%	58,683	52,821	11.1%
S&P INDUSTRIAL SECTOR	0	0	0.0%	5,457	7,036	-0.22	0	0	0.0%	51,882	34,543	50.2%
S&P CONSUMER DSCRTNRY S	0	0	0.0%	3,269	8,101	-0.6	0	0	0.0%	45,434	58,127	-21.8%
S&P UTILITIES SECTOR	0	0	0.0%	6,482	17,540	-0.63	0	0	0.0%	151,121	136,825	10.4%
S&P FINANCIAL SECTOR	0	0	0.0%	12,079	13,642	-0.11	0	0	0.0%	164,382	83,014	98.0%
S&P ENERGY SECTOR	0	0	0.0%	6,470	16,589	-0.61	0	0	0.0%	107,447	110,418	-2.7%
S&P MATERIALS SECTOR	0	0	0.0%	4,179	8,053	-0.48	0	0	0.0%	62,743	52,934	18.5%
E-MINI RUSSELL 1000 GROWT	0	0	0.0%	3,032	120	24.27	0	0	0.0%	17,685	2,746	544.0%
FT-SE 100	0	0	0.0%	1,173	607	0.93	0	0	0.0%	6,703	7,042	-4.8%
IBOVESPA INDEX	0	0	0.0%	590	729	-0.19	0	0	0.0%	6,988	7,931	-11.9%
E-MINI RUSSELL 1000 VALUE	0	0	0.0%	3,731	90	40.46	0	0	0.0%	26,218	4,444	490.0%
NIFTY 50	0	0	0.0%	14,369	11,098	0.29	0	0	0.0%	131,490	115,169	14.2%
E-MINI S&P REAL ESTATE SEL	0	0	0.0%	1,264	3,250	-0.61	0	0	0.0%	26,695	4,817	454.2%
E-mini (\$5) Dow	0	0	0.0%	2,704,885	3,883,979	-0.3	0	0	0.0%	29,923,362	39,515,397	-24.3%
E-mini FTSE 100 (USD)	0	0	0.0%	1,093	2	545.5	0	0	0.0%	2,072	375	452.5%

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<b>Equity Index Futures</b>												
FTSE Emerging	0	0	0.0%	266	63	3.22	0	0	0.0%	722	1,487	-51.4%
E-mini FTSE China 50	0	0	0.0%	4,404	1,581	1.79	0	0	0.0%	19,291	10,164	89.8%
<b>Equity Index Options</b>												
DJIA	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
E-MINI S&P500	3,200	0	0.0%	5,429,562	5,434,665	0	5,135	110,315	-95.3%	46,788,678	53,975,060	-13.3%
S&P 500	435,685	375,320	16.1%	0	0	0	3,573,737	5,403,463	-33.9%	0	0	0.0%
E-MINI MIDCAP	0	0	0.0%	0	0	0	0	0	0.0%	0	17	-100.0%
E-MINI RUSSELL 2000	0	-	-	19,153	-	0	0	-	-	41,359	-	-
E-MINI NASDAQ 100	0	0	0.0%	351,587	200,488	0.75	0	0	0.0%	2,691,520	2,405,403	11.9%
NASDAQ	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
EOM S&P 500	278,004	160,586	73.1%	0	0	0	2,110,848	1,897,310	11.3%	0	0	0.0%
EOM EMINI S&P	0	0	0.0%	2,316,604	2,216,164	0.05	0	0	0.0%	22,235,291	18,614,562	19.5%
EOW1 S&P 500	108,008	44,233	144.2%	0	0	0	982,064	669,450	46.7%	0	0	0.0%
EOW1 EMINI S&P 500	0	0	0.0%	1,246,815	1,038,385	0.2	0	0	0.0%	11,805,588	10,996,213	7.4%
EOW2 S&P 500	243,522	134,589	80.9%	0	0	0	1,911,618	1,425,200	34.1%	0	0	0.0%
EOW2 EMINI S&P 500	0	0	0.0%	1,214,931	1,907,664	-0.36	0	0	0.0%	11,746,518	12,106,035	-3.0%
EOW4 EMINI S&P 500	0	0	0.0%	892,935	746,612	0.2	0	0	0.0%	10,536,427	11,943,035	-11.8%
EOW3 S&P 500	340,297	396,502	-14.2%	0	0	0	3,984,497	2,869,345	38.9%	0	0	0.0%
EOW3 EMINI S&P 500	0	0	0.0%	2,992,790	4,197,884	-0.29	3,000	27,000	-88.9%	37,054,376	24,263,975	52.7%
E-mini (\$5) Dow	0	0	0.0%	9,656	9,245	0.04	0	0	0.0%	63,956	117,018	-45.3%
EOW1 E-MINI RUSSELL 2000 W	0	-	-	1,764	-	0	0	-	-	6,625	-	-
EOW1 E-MINI RUSSELL 2000 W	0	-	-	1,641	-	0	0	-	-	6,576	-	-
EOM E-MINI RUSSELL 2000 EN	0	-	-	3,493	-	0	0	-	-	15,018	-	-
EOW4 E-MINI RUSSELL 2000 W	0	-	-	3,109	-	0	0	-	-	11,558	-	-
EOW2 E-MINI RUSSELL 2000 W	0	-	-	4,977	-	0	0	-	-	11,645	-	-
EOW3 E-MINI RUSSELL 2000 W	0	-	-	12,044	-	0	0	-	-	55,382	-	-

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<b>Metals Futures</b>												
COMEX GOLD	0	6,816	-100.0%	8,313,211	6,770,550	0.23	0	97,593	-100.0%	65,353,608	51,164,656	27.7%
COMEX MINY COPPER	0	0	0.0%	629	1,073	-0.41	0	0	0.0%	7,642	6,116	25.0%
COMEX SILVER	0	663	-100.0%	2,468,023	2,160,823	0.14	0	10,338	-100.0%	21,142,786	16,631,951	27.1%
COMEX COPPER	0	420	-100.0%	2,961,088	3,495,610	-0.15	0	1,342	-100.0%	24,409,645	19,876,582	22.8%
NYMEX HOT ROLLED STEEL	0	0	0.0%	837	219	2.82	0	0	0.0%	4,742	4,812	-1.5%
NYMEX PLATINUM	0	40	-100.0%	373,171	350,006	0.07	0	78	-100.0%	4,151,624	3,422,373	21.3%
URANIUM	0	0	0.0%	2	2	0	0	0	0.0%	429	995	-56.9%
PALLADIUM	0	32	-100.0%	148,736	185,119	-0.2	0	95	-100.0%	1,265,327	1,256,729	0.7%
E-MICRO GOLD	0	0	0.0%	112,421	96,161	0.17	0	0	0.0%	1,058,548	917,670	15.4%
GOLD	0	0	0.0%	0	2	-1	0	0	0.0%	1	2	-50.0%
ALUMINUM	0	0	0.0%	398	1,610	-0.75	0	0	0.0%	7,244	16,943	-57.2%
COPPER	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SILVER	0	0	0.0%	7,866	11,856	-0.34	0	0	0.0%	66,270	95,462	-30.6%
Gold Kilo	0	0	0.0%	285	4,786	-0.94	0	0	0.0%	3,561	52,432	-93.2%
COMEX E-Mini SILVER	0	0	0.0%	806	1,695	-0.52	0	0	0.0%	8,890	13,974	-36.4%
COMEX E-Mini GOLD	0	0	0.0%	7,107	17,592	-0.6	0	0	0.0%	87,450	122,924	-28.9%
LNDN ZINC	0	0	0.0%	10	0	0	0	0	0.0%	125	227	-44.9%
METALS	0	0	0.0%	0	0	0	0	0	0.0%	0	25	-100.0%
FERROUS PRODUCTS	0	0	0.0%	0	10	-1	0	0	0.0%	85	10	750.0%
IRON ORE 62 CHINA PLATTS F	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
IRON ORE 62 CHINA TSI FUTU	0	0	0.0%	30	1,328	-0.98	0	0	0.0%	2,840	6,634	-57.2%
IRON ORE 58 CHINA TSI FUTU	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%

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<b>Metals Options</b>												
COMEX GOLD	0	20,472	-100.0%	564,034	1,063,545	-0.47	0	613,331	-100.0%	7,077,375	6,795,738	4.1%
COMEX SILVER	0	7,194	-100.0%	84,947	114,235	-0.26	0	86,989	-100.0%	1,161,289	1,107,396	4.9%
COMEX COPPER	0	206	-100.0%	11,975	4,442	1.7	0	1,394	-100.0%	82,241	28,264	191.0%
NYMEX PLATINUM	0	175	-100.0%	2,124	478	3.44	0	2,429	-100.0%	13,008	8,123	60.1%
PALLADIUM	0	200	-100.0%	1,724	897	0.92	0	522	-100.0%	13,313	3,443	286.7%
GOLD	0	0	0.0%	24,982	11,210	1.23	0	666	-100.0%	152,619	49,581	207.8%
COPPER	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
SILVER	0	0	0.0%	38	658	-0.94	0	0	0.0%	1,672	2,227	-24.9%
IRON ORE 62 CHINA TSI CALL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
IRON ORE 62 CHINA TSI PUT O	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
HOT ROLLED COIL STEEL CAL	0	-	-	0	-		0	-	-	0	-	-
<b>Energy Futures</b>												
ETHANOL	0	0	0.0%	9,943	16,030	-0.38	0	0	0.0%	138,193	153,655	-10.1%
ETHANOL FWD	-	0	0.0%	-	0	0	0	0	0.0%	0	0	0.0%
HOUSTON SHIP CHANNEL BAS	0	0	0.0%	0	0	0	0	0	0.0%	0	1,102	-100.0%
NORTHWEST ROCKIES BASIS	0	0	0.0%	0	1,033	-1	0	0	0.0%	0	3,848	-100.0%
HEATING OIL VS ICE GASOIL	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
FUEL OIL CRACK VS ICE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
FUEL OIL NWE CRACK VS ICE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NGPL MIDCONTINENT INDEX	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NGPL TEXOK INDEX	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CENTERPOINT BASIS SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NATURAL GAS	0	0	0.0%	38,452	23,156	0.66	0	800	-100.0%	393,799	223,518	76.2%
HTG OIL	0	0	0.0%	0	0	0	0	36	-100.0%	144	0	0.0%
LTD NAT GAS	0	0	0.0%	157,723	70,146	1.25	0	0	0.0%	1,408,252	799,231	76.2%
GASOIL MINI CALENDAR SWA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GASOIL 0.1 ROTTERDAM BAR	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
N ROCKIES PIPE SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
HUSTN SHIP CHNL PIPE SWP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SAN JUAN PIPE SWAP	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2017	Open Outcry NOV 2016	% CHG	ELEC NOV 2017	ELEC NOV 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG
<b>Energy Futures</b>												
SOCAL PIPE SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PANHANDLE PIPE SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
BRENT OIL LAST DAY	0	0	0.0%	1,535,316	2,521,208	-0.39	0	344	-100.0%	20,280,916	21,410,183	-5.3%
BRENT CALENDAR SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GASOIL 0.1 CARGOES CIF NE	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
GASOIL 0.1 RDAM BRGS VS I	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GASOIL 0.1 CIF NWE VS ISE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NY H OIL PLATTS VS NYMEX	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MARS (ARGUS) VS WTI SWAP	0	0	0.0%	0	0	0	0	0	0.0%	70	0	0.0%
MARS (ARGUS) VS WTI TRD M	0	0	0.0%	150	0	0	0	0	0.0%	950	0	0.0%
WTS (ARGUS) VS WTI TRD MT	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SINGAPORE 180CST BALMO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SINGAPORE 380CST BALMO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SINGAPORE JET KERO BALMO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SINGAPORE NAPHTHA BALMO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
DUBAI CRUDE OIL BALMO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
EURO 3.5% FUEL OIL RDAM B	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
EURO 1% FUEL OIL NEW BALM	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NY HARBOR 1% FUEL OIL BAL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GULF COAST 3% FUEL OIL BA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PREMIUM UNLD 10P FOB MED	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GASOIL 10P CRG CIF NW VS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GASOIL 0.1 CRG CIF NW VS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
BRENT CFD SWAP	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
JET FUEL CRG CIF NEW VS I	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
3.5% FUEL OIL CID MED SWA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ARGUS PROPAN FAR EST IND	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ULSD 10PPM CIF VS ICE GAS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GASOIL 0.1 CIF VS ICE GAS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
JET FUEL BRG FOB RDM VS I	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM NILL DA OFF-PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM AEEO DA OFF-PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM DAYTON DA PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM BGE DA PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2017	Open Outcry NOV 2016	% CHG	ELEC NOV 2017	ELEC NOV 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG
<b>Energy Futures</b>												
PJM BGE DA OFF-PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM JCPL DA PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM JCPL DA OFF-PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM PEP CO DA OFF-PEAK	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
PJM PPL DA PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM PPL DA OFF-PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM PSEG DA PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM PSEG DA OFF-PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM WESTHDA PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM WESTH DA OFF-PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM WESTH RT PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM WESTH RT OFF-PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ALGONQUIN CITYGATES BASI	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
TCO NG INDEX SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
TRANSCO ZONE 3 NG INDEX S	0	-	-	0	-		0	-	-	0	-	-
MICHCON NG INDEX SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CIG ROCKIES NG INDEX SWA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GASOIL 0.1 CIF MED SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GASOIL 0.1CIF MED VS ICE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ULSD 10PPM CIF MED SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ULSD 10PPM CIF MED VS ICE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
BRENT BALMO SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ICE GASOIL BALMO SWAP	0	-	-	0	-		0	-	-	0	-	-
ULSD 10PPM CIF NW BALMO S	0	-	-	0	-		0	-	-	0	-	-
ULSD 10PPM CIF MED BALMO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PERMIAN BASIS SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
Tetco ELA Basis	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
PANHANDLE INDEX SWAP FUT	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GULF COAST JET FUEL CLNDR	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
EUROPE 1% FUEL OIL NWE CA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SINGAPORE FUEL 180CST CAL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NYISO G	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GULF COAST NO.6 FUEL OIL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NEW YORK HUB ZONE G PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2017	Open Outcry NOV 2016	% CHG	ELEC NOV 2017	ELEC NOV 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG
<b>Energy Futures</b>												
NORTHERN ILLINOIS OFF-PEA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
AEP-DAYTON HUB DAILY	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SINGAPORE FUEL OIL SPREA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SINGAPORE JET KERO GASOI	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
TETCO M-3 INDEX	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
DOMINION TRAN INC - APP I	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CINERGY HUB PEAK MONTH	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
HEATING OIL PHY	0	30	-100.0%	3,320,816	3,268,193	0.02	0	998	-100.0%	37,488,106	33,189,627	13.0%
GASOIL 10PPM CARGOES CIF	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GASOIL 10PPM VS ICE SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NY1% VS GC SPREAD SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
EUROPEAN NAPHTHA BALMO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GASOIL 0.1 BRGS FOB VS IC	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
DIESEL 10P BRG FOB RDM VS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ARGUS PROPAN(SAUDI ARAM	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM AECO DA PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
N ILLINOIS HUB MTHLY	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MINY HTG OIL	0	0	0.0%	4	5	-0.2	0	0	0.0%	32	100	-68.0%
WAHA BASIS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MINY NATURAL GAS	0	0	0.0%	28,377	36,825	-0.23	0	0	0.0%	271,600	290,589	-6.5%
SINGAPORE GASOIL SWAP	0	0	0.0%	0	0	0	0	0	0.0%	36	0	0.0%
UP DOWN GC ULSD VS NMX H	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM NILL DA PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM DAYTON DA OFF-PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
LA JET (OPIS) SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ULSD UP-DOWN BALMO SWP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
JET FUEL UP-DOWN BALMO C	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
EIA FLAT TAX ONHWAY DIESE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ARGUS LLS VS. WTI (ARG) T	0	0	0.0%	0	0	0	0	0	0.0%	60	0	0.0%
JAPAN NAPHTHA BALMO SWA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NY 3.0% FUEL OIL (PLATTS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NY 2.2% FUEL OIL (PLATTS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CAISO SP15 EZGNHUB5 MW P	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
RBOB GASOLINE BALMO CLNC	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2017	Open Outcry NOV 2016	% CHG	ELEC NOV 2017	ELEC NOV 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG
<b>Energy Futures</b>												
GASOLINE UP-DOWN BALMO S	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
TRANSCO ZONE 4 NAT GAS IN	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
COLUMBIA GULF MAIN NAT G	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SOUTHERN NAT LA NAT GAS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
FL GAS ZONE 3 NAT GAS IND	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
COLUMB GULF MAINLINE NG B	0	0	0.0%	0	0	0	0	0	0.0%	0	122	-100.0%
HENRY HUB FINANCIAL LAST	0	-	-	1,896	-		0	-	-	5,144	-	-
TENNESSEE 800 LEG NG BASI	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
TRANSCO ZONE 1 NG BASIS	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
ONEOK OKLAHOMA NG BASIS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SOUTH STAR TEX OKLHM KNS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
TEXAS GAS ZONE1 NG BASIS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NYISO ZONE C 5MW D AH O P	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM NI HUB 5MW REAL TIME	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NYISO ZONE G 5MW D AH O P	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NYISO ZONE J 5MW D AH PK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NYISO ZONE J 5MW D AH O P	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM COMED 5MW D AH PK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM COMED 5MW D AH O PK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NEPOOL INTR HUB 5MW D AH	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CIN HUB 5MW REAL TIME PK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CIN HUB 5MW D AH PK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NYISO ZONE A 5MW D AH PK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NYISO ZONE A 5MW D AH O P	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NEPOOL W CNT MASS 5MW D	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NEPOOL CONECTIC 5MW D AH	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NEPOOL CNCTCT 5MW D AH O	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NEPOOL SE MASS 5MW D AH	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NEPOOL SE MASS 5MW D AH	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NEPOOL NE MASS 5MW D AH	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NEPOOL NE MASS 5MW D AH	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NYISO ZONE C 5MW D AH PK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NEPOOL W CNTR M 5MW D AH	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NYISO ZONE G 5MW D AH PK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2017	Open Outcry NOV 2016	% CHG	ELEC NOV 2017	ELEC NOV 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG
<b>Energy Futures</b>												
PJM AD HUB 5MW REAL TIME	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CIN HUB 5MW D AH O PK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CIN HUB 5MW REAL TIME O P	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
RBOB PHY	0	22	-100.0%	3,493,215	3,552,076	-0.02	0	595	-100.0%	43,324,640	39,132,639	10.7%
SING FUEL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
LLS (ARGUS) CALENDAR SWA	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
RBOB VS HEATING OIL SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NORTHERN NATURAL GAS DEM	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
HOUSTON SHIP CHANNEL IND	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
EUROPE JET KERO NWE CALS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MINY WTI CRUDE OIL	0	0	0.0%	235,179	303,394	-0.22	0	0	0.0%	2,834,261	3,152,321	-10.1%
NEW ENGLAND HUB PEAK DAI	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ROCKIES KERN OPAL - NW IN	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NATURAL GAS PHY	0	82	-100.0%	9,685,384	8,797,379	0.1	0	1,672	-100.0%	94,669,998	85,171,829	11.2%
APPALACHIAN COAL (PHY)	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
WTI CALENDAR	0	0	0.0%	0	0	0	0	1,069	-100.0%	0	0	0.0%
HENRY HUB BASIS SWAP	0	0	0.0%	0	1,007	-1	0	0	0.0%	2,996	1,038	188.6%
DEMARC INDEX FUTURE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
WTS (ARGUS) VS WTI SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PREMIUM UNLEAD 10PPM FOB	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CHICAGO UNL GAS PL VS RBO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CRUDE OIL PHY	0	20	-100.0%	27,068,603	26,678,821	0.01	0	20,113	-100.0%	283,703,452	245,687,589	15.5%
RBOB CALENDAR SWAP	0	0	0.0%	0	0	0	0	0	0.0%	5	0	0.0%
ISO NEW ENGLAND PK LMP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
LA CARB DIESEL (OPIS)	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CHICAGO ETHANOL SWAP	0	0	0.0%	621	202	2.07	0	0	0.0%	4,204	11,013	-61.8%
NEW YORK ETHANOL SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GASOIL BULLET SWAP	0	-	-	0	-	-	0	-	-	0	-	-
EURO PROPANE CIF ARA SW	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
JAPAN C&F NAPHTHA SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NYMEX ULSD VS NYMEX HO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
LA CARBOB GASOLINE(OPIS)S	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
LA CARB DIESEL (OPIS) SWA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
JAPAN C&F NAPHTHA CRACK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2017	Open Outcry NOV 2016	% CHG	ELEC NOV 2017	ELEC NOV 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG
<b>Energy Futures</b>												
LLS (ARGUS) VS WTI SWAP	0	0	0.0%	0	0	0	0	0	0.0%	15	0	0.0%
MINY RBOB GAS	0	0	0.0%	4	4	0	0	0	0.0%	47	49	-4.1%
RBOB GAS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
RBOB CRACK SPREAD	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
RBOB UP-DOWN CALENDAR S	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NY HARBOR RESIDUAL FUEL 1	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NY HARBOR HEAT OIL SWP	0	6	-100.0%	0	0	0	0	45	-100.0%	3	12	-75.0%
LA JET FUEL VS NYM NO 2 H	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ANR OKLAHOMA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MICHIGAN BASIS	0	0	0.0%	0	273	-1	0	0	0.0%	0	1,039	-100.0%
Sumas Basis Swap	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NGPL MID-CONTINENT	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
TEXAS EASTERN ZONE M-3 BA	0	0	0.0%	0	0	0	0	0	0.0%	0	31	-100.0%
PJM MONTHLY	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NORTHERN NATURAL GAS VEN	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
DOMINION TRANSMISSION INC	0	0	0.0%	0	0	0	0	0	0.0%	0	366	-100.0%
TCO BASIS SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CIG BASIS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM DAILY	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
COLUMBIA GULF ONSHORE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
Tetco STX Basis	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
Transco Zone 3 Basis	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
HENRY HUB SWING FUTURE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
EL PASO PERMIAN INDEX SWA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
HENRY HUB INDEX SWAP FUT	0	0	0.0%	0	0	0	0	0	0.0%	2,996	0	0.0%
WAHA INDEX SWAP FUTURE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GULF COAST GASOLINE CLND	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
EUROPE NAPHTHA CALSWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
EUROPE 1% FUEL OIL RDAM C	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
EUROPE 3.5% FUEL OIL RDAM	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
EUROPE 3.5% FUEL OIL MED	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PANHANDLE BASIS SWAP FUT	0	0	0.0%	0	56	-1	0	0	0.0%	0	1,002	-100.0%
SAN JUAN BASIS SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SOCAL BASIS SWAP	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2017	Open Outcry NOV 2016	% CHG	ELEC NOV 2017	ELEC NOV 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG
<b>Energy Futures</b>												
TRANSCO ZONE 6 BASIS SWA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NYISO A	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NYISO J	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GULF COAST JET VS NYM 2 H	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NY HARBOR RESIDUAL FUEL	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
EURO 3.5% FUEL OIL SPREAD	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GASOIL CALENDAR SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
EURO GASOIL 10 CAL SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NGPL MIDCONTINENT SWING	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
DEMARC SWING SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CENTERPOINT EAST INDEX	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CRUDE OIL	0	0	0.0%	0	0	0	0	0	0.0%	507	0	0.0%
BRENT FINANCIAL FUTURES	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
WTI-BRENT BULLET SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
WTI-BRENT CALENDAR SWAP	0	0	0.0%	0	0	0	0	0	0.0%	120	0	0.0%
DATED TO FRONTLINE BRENT	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ICE BRENT DUBAI SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GASOIL CRACK SPREAD CALE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
EUROPEAN NAPHTHA CRACK S	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
EURO GASOIL 10PPM VS ICE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
JET CIF NWE VS ICE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
JET BARGES VS ICE GASOIL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SINGAPORE GASOIL VS ICE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NATURAL GAS PEN SWP	0	0	0.0%	0	0	0	0	92	-100.0%	62	0	0.0%
WESTERN RAIL DELIVERY PR	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
EASTERN RAIL DELIVERY CSX	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
EUROPE DATED BRENT SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
TC5 RAS TANURA TO YOKOHA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
TD3 MEG TO JAPAN 250K MT	0	-	-	0	-	-	0	-	-	0	-	-
TC2 ROTTERDAM TO USAC 37	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM OFF-PEAK LMP SWAP FU	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NYISO A OFF-PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NYISO G OFF-PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NYISO J OFF-PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2017	Open Outcry NOV 2016	% CHG	ELEC NOV 2017	ELEC NOV 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG
<b>Energy Futures</b>												
ISO NEW ENGLAND OFF-PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
AEP-DAYTON HUB OFF-PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
N ILLINOIS HUB DAILY	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
AEP-DAYTON HUB MTHLY	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
FUELOIL SWAP:CARGOES VS.	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
EAST/WEST FUEL OIL SPREAD	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SINGAPORE 380CST FUEL OIL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SINGAPORE JET KEROSENE S	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SINGAPORE NAPHTHA SWAP	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
SONAT BASIS SWAP FUTURE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
FLORIDA GAS ZONE3 BASIS S	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
TRANSCO ZONE4 BASIS SWAP	0	0	0.0%	0	1,284	-1	0	0	0.0%	0	1,930	-100.0%
ANR LOUISIANA BASIS SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
TENNESSEE 500 LEG BASIS S	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
TENNESSEE ZONE 0 BASIS S	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
TRANSCO ZONE 6 INDEX	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CINERGY HUB OFF-PEAK MON	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GULF COAST ULSD CALEND	0	0	0.0%	0	0	0	0	0	0.0%	0	3	-100.0%
GULF COAST ULSD CRACK SP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
HENRY HUB SWAP	0	0	0.0%	3,189	100,506	-0.97	0	1,472	-100.0%	65,169	2,050,941	-96.8%
DUBAI CRUDE OIL CALENDAR	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
USGC UNL 87 CRACK SPREAD	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NYH NO 2 CRACK SPREAD CA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NO 2 UP-DOWN SPREAD CALE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SINGAPORE MOGAS 92 UNLEA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ETHANOL T2 FOB ROTT INCL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SINGAPORE MOGAS 92 UNLEA	0	0	0.0%	0	0	0	0	0	0.0%	5	0	0.0%
PROPANE NON-LDH MT. BEL (	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PROPANE NON-LDH MB (OPIS)	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NY JET FUEL (PLATTS) HEAT C	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
JET AV FUEL (P) CAR FM ICE G	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
FUEL OIL (PLATS) CAR CM	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
FUEL OIL (PLATS) CAR CN	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NY ULSD (ARGUS) VS HEATIN	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2017	Open Outcry NOV 2016	% CHG	ELEC NOV 2017	ELEC NOV 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG
<b>Energy Futures</b>												
PJM PECO ZONE5MW PEAK C	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
IN DELIVERY MONTH EUA	0	0	0.0%	0	0	0	0	0	0.0%	0	225	-100.0%
DATED BRENT (PLATTS) DAILY	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PETRO OUTRIGHT EURO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GAS EURO-BOB OXY NWE BA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GAS EURO-BOB OXY NWE BA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PREM UNL GAS 10PPM RDAM	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PREM UNL GAS 10PPM RDAM	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MONT BELVIEU NORMAL BUTA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MONT BELVIEU ETHANE 5 DEC	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MONT BELVIEU LDH PROPANE	0	0	0.0%	74	0	0	0	0	0.0%	401	158	153.8%
EUROPEAN GASOIL (ICE)	0	0	0.0%	1,490	11,141	-0.87	0	0	0.0%	30,762	1,485,608	-97.9%
ERCOT NORTH ZMCPE 5MW O	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ERCOT NORTH ZMCPE 5MW O	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ERCOT NORTH ZMCPE 5MW P	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ERCOT HOUSTON Z MCPE 5M	0	-	-	0	-		0	-	-	0	-	-
SINGAPORE JET KERO VS. GA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MONT BELVIEU NORMAL BUTA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MONT BELVIEU ETHANE OPIS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MONT BELVIEU NATURAL GAS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MONT BELVIEU LDH PROPANE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CONWAY NORMAL BUTANE (O	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CONWAY NATURAL GASOLINE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CONWAY PROPANE 5 DECIMA	0	0	0.0%	4	0	0	0	0	0.0%	58	0	0.0%
PETROCHEMICALS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MONT BELVIEU NATURAL GAS	0	0	0.0%	0	0	0	0	0	0.0%	20	0	0.0%
ELEC NYISO OFF-PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ELEC MISO PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MARS BLEND CRUDE OIL	0	0	0.0%	0	0	0	0	0	0.0%	200	0	0.0%
NYMEX ALUMINUM FUTURES	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GASOIL 0.1 CIF MED BALMO	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
RBOB CRACK SPREAD BALMO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
DIESEL 10PPM BARGES FOB B	0	-	-	0	-		0	-	-	0	-	-
RBOB (PLATTS) CAL SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2017	Open Outcry NOV 2016	% CHG	ELEC NOV 2017	ELEC NOV 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG
<b>Energy Futures</b>												
PJM DUQUESNE 5MW D AH PK	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
PJM DUQUS 5MW D AH O PK	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
PETRO CRK&SPRD EURO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GRP THREE ULSD(PLT)VS HEA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
HEATING OIL CRCK SPRD BAL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CHICAGO ULSD PL VS HO SPR	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GRP THREE UNL GS (PLT) VS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CRUDE OIL OUTRIGHTS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM WES HUB PEAK LMP 50 M	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
FREIGHT MARKETS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NEPOOL NEW HAMP 5MW D A	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ELEC ERCOT OFF PEAK	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
ELECTRICITY OFF PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
HEATING OIL BALMO CLNDR S	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CRUDE OIL SPRDS	0	0	0.0%	0	0	0	0	0	0.0%	50	0	0.0%
PJM APS ZONE DA PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ELEC FINSETTLED	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM APS ZONE DA OFF-PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NAT GAS BASIS SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PLASTICS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PETRO OUTRIGHT NA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MNC FUT	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MCCLOSKEY ARA ARGS COAL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MCCLOSKEY RCH BAY COAL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
TRANSCO ZONE 6 PIPE SWAP	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
ELEC ERCOT DLY PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GC ULSD VS GC JET SPREAD	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
PETRO CRCKS & SPRDS NA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ALGON CITY GATES NAT GAS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SINGAPORE GASOIL CALEND A	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MJC FUT	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NGPL TEX/OK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
RBOB SPREAD (PLATTS) SWA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NEPOOL RHD ISLD 5MW D AH	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2017	Open Outcry NOV 2016	% CHG	ELEC NOV 2017	ELEC NOV 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG
<b>Energy Futures</b>												
SINGAPORE GASOIL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NEPOOL RHODE IL 5MW D AH	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
TENN 800 LEG NAT GAS INDE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ONTARIO POWER SWAPS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PETROLEUM PRODUCTS ASIA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
INDONESIAN COAL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
DAILY PJM	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
INDIANA MISO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PETRO CRCKS & SPRDS ASIA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
AUSTRIALIAN COKE COAL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
COAL SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NYISO CAPACITY	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
VENTURA NAT GAS PLATTS FI	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
EMMISSIONS	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
DIESEL10PPM BARG VS ICE LS	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
NATURAL GAS FIXED PRICE S	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SUMAS NAT GAS PLATTS FIXE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
EURO-DENOMINATED PETRO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PETROLEUM PRODUCTS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
3.5% FUEL OIL CIF BALMO S	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CANADIAN LIGHT SWEET OIL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MICHIGAN MISO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
DLY GAS EURO-BOB OXY	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MINI RBOB V. EBOBARG NWE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MINI RBOB V. EBOB(ARGUS) N	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CRUDE OIL TRADE AT MARKE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MGF FUT	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NATURAL GAS INDEX	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MJB FUT	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
NEW YORK HUB ZONE J PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM ATSI ELEC	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
EU LOW SULPHUR GASOIL CR	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
CENTER POINT NAT GAS FIXE	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
ELEC ERCOT DLY OFF PK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2017	Open Outcry NOV 2016	% CHG	ELEC NOV 2017	ELEC NOV 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG
<b>Energy Futures</b>												
CHICAGO ULSD (PLATTS) SWA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NY HARBOR LOW SULPUR GA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MINI GAS EUROBOB OXY NWE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
COLUMBIA GULF NAT GAS FIX	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
MGN1 SWAP FUT	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GROUP THREE ULSD (PLATTS)	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
UCM FUT	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
DY EURO 3.5% FUEL OI RDA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ELECTRICITY ERCOT PEAK	0	-	-	0	-		0	-	-	0	-	-
ELEC WEST POWER OFF-PEA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ELEC WEST POWER PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CAISO SP15 EZGNHUB5 PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ERCOT DAILY 5MW PEAK	0	-	-	0	-		0	-	-	0	-	-
<b>Energy Options</b>												
ETHANOL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NATURAL GAS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PGE CITYGATE PIPE SWAP	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
N ROCKIES PIPE SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
HUSTN SHIP CHNL PIPE SWP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SAN JUAN PIPE SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SOCAL PIPE SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PANHANDLE PIPE SWAP	0	-	-	0	-		0	-	-	0	-	-
BRENT OIL LAST DAY	0	0	0.0%	26,281	7,304	2.6	0	9,909	-100.0%	129,611	32,612	297.4%
BRENT CALENDAR SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SINGAPORE JET FUEL CALEN	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ROTTERDAM 3.5%FUEL OIL CL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SINGAPORE FUEL OIL 180 CS	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
HEATING OIL PHY	0	591	-100.0%	4,252	7,511	-0.43	0	7,605	-100.0%	53,919	72,673	-25.8%
HENRY HUB FINANCIAL LAST	0	0	0.0%	0	0	0	0	68	-100.0%	0	0	0.0%
RBOB PHY	0	93	-100.0%	6,740	10,011	-0.33	0	8,599	-100.0%	75,996	85,756	-11.4%
NATURAL GAS PHY	0	713	-100.0%	1,962,490	1,072,990	0.83	0	22,451	-100.0%	14,222,768	8,102,755	75.5%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2017	Open Outcry NOV 2016	% CHG	ELEC NOV 2017	ELEC NOV 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG
<b>Energy Options</b>												
CRUDE OIL APO	0	39	-100.0%	65	0	0	0	7,290	-100.0%	135	0	0.0%
NATURAL GAS 3 M CSO FIN	0	0	0.0%	0	0	0	0	250	-100.0%	0	0	0.0%
NATURAL GAS 1 M CSO FIN	0	0	0.0%	0	0	0	0	200	-100.0%	3,920	0	0.0%
WTI CRUDE OIL 1 M CSO FI	0	0	0.0%	3,700	2,250	0.64	0	0	0.0%	7,700	28,376	-72.9%
CRUDE OIL PHY	0	2,495	-100.0%	3,393,685	3,769,254	-0.1	0	222,903	-100.0%	33,034,371	31,689,678	4.2%
RBOB CALENDAR SWAP	0	0	0.0%	0	0	0	0	50	-100.0%	10	0	0.0%
RBOB 1MO CAL SPD OPTIONS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NY HARBOR HEAT OIL SWP	0	55	-100.0%	26	9	1.89	0	1,627	-100.0%	509	15	3,293.3%
PJM MONTHLY	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
WTI-BRENT BULLET SWAP	0	0	0.0%	13,024	0	0	0	0	0.0%	54,628	0	0.0%
HEATING OIL CRACK OPTIONS	0	-	-	0	-		0	-	-	0	-	-
HO 1 MONTH CLNDR OPTIONS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NG HH 3 MONTH CAL	0	0	0.0%	0	0	0	0	500	-100.0%	0	0	0.0%
CRUDE OIL 1MO	0	0	0.0%	62,490	50,567	0.24	0	100	-100.0%	385,190	641,476	-40.0%
WTI 12 MONTH CALENDAR OP	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
NYMEX EUROPEAN GASOIL A	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NYMEX EUROPEAN GASOIL O	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PETRO OUTRIGHT EURO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NYISO ZONE G 5MW PEAK OP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PETROCHEMICALS	0	0	0.0%	8	5	0.6	0	0	0.0%	16	15	6.7%
NATURAL GAS OPTION ON CA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ELEC MISO PEAK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
EUROPEAN JET KEROSENE N	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM CALENDAR STRIP	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
CRUDE OIL OUTRIGHTS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
APPALACHIAN COAL	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
HEATING OIL CRK SPD AVG P	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ELECTRICITY OFF PEAK	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
ELEC FINSETTLED	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CRUDE OIL CALNDR STRIP	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
NATURAL GAS 5 M CSO FIN	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PETRO OUTRIGHT NA	0	-	-	0	-		0	-	-	0	-	-
MCCLOSKEY ARA ARGS COAL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MCCLOSKEY RCH BAY COAL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2017	Open Outcry NOV 2016	% CHG	ELEC NOV 2017	ELEC NOV 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG
<b>Energy Options</b>												
NATURAL GAS 2 M CSO FIN	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NATURAL GAS 6 M CSO FIN	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GASOIL CRACK SPREAD AVG	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
SINGAPORE GASOIL CALEND	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ETHANOL SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SHORT TERM NATURAL GAS	0	0	0.0%	2,535	0	0	0	0	0.0%	3,637	0	0.0%
SHORT TERM	0	0	0.0%	282	0	0	0	0	0.0%	534	0	0.0%
NATURAL GAS 12 M CSO FIN	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
SHORT TERM CRUDE OIL	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
COAL SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
DAILY CRUDE OIL	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
PJM ELECTRIC	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
PJM WES HUB PEAK CAL MTH	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM WES HUB PEAK LMP 50M	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
LLS CRUDE OIL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
EURO-DENOMINATED PETRO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
COAL API2 INDEX	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
GASOLINE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
COAL API4 INDEX	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
1 MO GASOIL CAL SWAP SPR	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
12 MO GASOIL CAL SWAP SPR	0	-	-	0	-		0	-	-	0	-	-
BRENT CRUDE OIL 12 M CSO	0	-	-	0	-		0	-	-	0	-	-

### FX Futures

AUSTRALIAN DOLLAR	0	108	-100.0%	1,966,988	2,303,056	-0.15	1,537	1,841	-16.5%	21,951,546	23,489,308	-6.5%
BRITISH POUND	0	67	-100.0%	2,937,040	2,677,083	0.1	249	1,480	-83.2%	27,979,757	26,469,227	5.7%
BRAZIL REAL	0	0	0.0%	87,786	58,624	0.5	0	0	0.0%	650,829	534,524	21.8%
CANADIAN DOLLAR	0	85	-100.0%	1,413,742	1,611,566	-0.12	2,684	1,062	152.7%	17,345,207	17,244,874	0.6%
E-MINI EURO FX	0	0	0.0%	89,708	91,063	-0.01	0	0	0.0%	1,033,894	840,483	23.0%
EURO FX	152	322	-52.8%	4,571,246	4,571,421	0	2,825	8,124	-65.2%	50,607,396	44,109,337	14.7%
E-MINI JAPANESE YEN	0	0	0.0%	10,882	35,894	-0.7	0	0	0.0%	308,393	361,925	-14.8%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2017	Open Outcry NOV 2016	% CHG	ELEC NOV 2017	ELEC NOV 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG
<b>FX Futures</b>												
JAPANESE YEN	46	393	-88.3%	3,486,863	3,878,864	-0.1	8,981	4,349	106.5%	38,320,545	33,320,955	15.0%
MEXICAN PESO	0	0	0.0%	1,025,069	1,440,561	-0.29	5	0	0.0%	11,505,936	12,935,728	-11.1%
NEW ZEALND DOLLAR	0	0	0.0%	511,002	567,708	-0.1	0	0	0.0%	5,683,002	5,317,752	6.9%
NKR/USD CROSS RATE	0	0	0.0%	1,576	1,413	0.12	0	0	0.0%	19,572	17,810	9.9%
RUSSIAN RUBLE	0	0	0.0%	52,886	27,231	0.94	0	0	0.0%	396,654	287,750	37.8%
S.AFRICAN RAND	0	0	0.0%	34,974	28,531	0.23	0	0	0.0%	490,296	204,041	140.3%
SWISS FRANC	0	0	0.0%	517,290	601,140	-0.14	0	0	0.0%	6,207,772	5,299,008	17.1%
AD/CD CROSS RATES	0	0	0.0%	0	5	-1	0	0	0.0%	38	59	-35.6%
AD/JY CROSS RATES	0	0	0.0%	1,567	3,499	-0.55	0	0	0.0%	26,109	40,952	-36.2%
AD/NE CROSS RATES	0	0	0.0%	51	11	3.64	0	0	0.0%	940	690	36.2%
BP/JY CROSS RATES	0	0	0.0%	3,643	1,711	1.13	0	0	0.0%	32,137	20,162	59.4%
BP/SF CROSS RATES	0	0	0.0%	175	46	2.8	0	0	0.0%	912	477	91.2%
CD/JY CROSS RATES	0	0	0.0%	0	4	-1	0	0	0.0%	554	15	3,593.3%
EC/AD CROSS RATES	0	0	0.0%	1,533	925	0.66	0	0	0.0%	25,047	17,760	41.0%
EC/CD CROSS RATES	0	0	0.0%	2,342	2,407	-0.03	0	0	0.0%	45,774	27,181	68.4%
EC/NOK CROSS RATES	0	0	0.0%	766	0	0	0	0	0.0%	2,776	9	30,744.4%
EC/SEK CROSS RATES	0	0	0.0%	1,225	162	6.56	0	0	0.0%	7,502	870	762.3%
EFX/BP CROSS RATES	0	0	0.0%	66,882	53,570	0.25	0	0	0.0%	771,836	762,247	1.3%
EFX/JY CROSS RATES	0	0	0.0%	54,669	37,254	0.47	0	0	0.0%	698,424	423,588	64.9%
EFX/SF CROSS RATES	0	0	0.0%	17,156	25,644	-0.33	0	0	0.0%	350,493	329,492	6.4%
SF/JY CROSS RATES	0	-	-	0	-		0	-	-	0	-	-
SKR/USD CROSS RATES	0	0	0.0%	1,471	999	0.47	0	0	0.0%	21,799	15,974	36.5%
HUNGARIAN FORINT (US)	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
POLISH ZLOTY (US)	0	0	0.0%	313	1,790	-0.83	0	0	0.0%	1,293	7,169	-82.0%
POLISH ZLOTY (EC)	0	0	0.0%	19	42	-0.55	0	0	0.0%	407	4,678	-91.3%
SHEKEL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
RMB USD	0	0	0.0%	1	81	-0.99	0	6	-100.0%	281	1,863	-84.9%
KOREAN WON	0	0	0.0%	150	5	29	0	0	0.0%	350	172	103.5%
TURKISH LIRA	0	0	0.0%	6	0	0	0	0	0.0%	18	0	0.0%
TURKISH LIRA (EU)	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
E-MICRO EUR/USD	0	0	0.0%	227,772	323,163	-0.3	0	0	0.0%	2,769,857	3,067,884	-9.7%
E-MICRO GBP/USD	0	0	0.0%	55,621	134,410	-0.59	0	0	0.0%	632,229	975,460	-35.2%
E-MICRO USD/CAD	0	0	0.0%	0	0	0	0	0	0.0%	0	22	-100.0%
E-MICRO USD/CHF	0	0	0.0%	0	0	0	0	0	0.0%	0	1	-100.0%

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## CME Group Exchange Volume Comparison Report - Monthly

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<b>FX Futures</b>												
E-MICRO USD/JPY	0	0	0.0%	0	0	0	0	0	0.0%	0	4	-100.0%
E-MICRO AUD/USD	0	0	0.0%	83,620	125,748	-0.34	0	0	0.0%	946,499	1,148,407	-17.6%
MICRO CHF/USD	0	0	0.0%	1,346	1,707	-0.21	0	0	0.0%	11,016	20,500	-46.3%
E-MICRO JPY/USD	0	0	0.0%	37,845	58,401	-0.35	0	0	0.0%	427,547	345,773	23.6%
E-MICRO INR/USD	0	0	0.0%	3,423	5,760	-0.41	0	0	0.0%	29,104	26,663	9.2%
FCXRX	0	0	0.0%	0	8,186	-1	0	0	0.0%	6,243	12,499	-50.1%
E-MICRO USD/CNH	0	0	0.0%	0	0	0	0	0	0.0%	0	61	-100.0%
CHINESE RENMINBI (CNH)	0	0	0.0%	2,098	2,824	-0.26	0	0	0.0%	17,522	16,279	7.6%
E-MICRO CAD/USD	0	0	0.0%	17,650	20,779	-0.15	0	0	0.0%	222,816	232,407	-4.1%
INDIAN RUPEE	0	0	0.0%	69,855	24,514	1.85	0	0	0.0%	427,776	144,954	195.1%
USDZAR	0	0	0.0%	0	0	0	0	0	0.0%	0	6	-100.0%

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<b>FX Options</b>												
AUSTRALIAN DOLLAR	0	936	-100.0%	0	89,905	-1	2,674	13,722	-80.5%	200,250	1,393,354	-85.6%
BRITISH POUND	0	271	-100.0%	0	144,797	-1	693	34,381	-98.0%	462,114	2,139,269	-78.4%
CANADIAN DOLLAR	0	674	-100.0%	0	51,216	-1	4,597	25,484	-82.0%	183,080	1,373,371	-86.7%
EURO FX	0	3,456	-100.0%	0	593,784	-1	8,535	105,880	-91.9%	1,287,538	7,046,340	-81.7%
JAPANESE YEN	0	3,016	-100.0%	0	268,149	-1	8,468	65,684	-87.1%	544,469	3,124,964	-82.6%
MEXICAN PESO	180	3,017	-94.0%	1,906	9,074	-0.79	1,770	7,750	-77.2%	25,346	42,176	-39.9%
NEW ZEALND DOLLAR	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
RUSSIAN RUBLE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SWISS FRANC	0	0	0.0%	0	6,761	-1	0	272	-100.0%	5,710	68,534	-91.7%
JAPANESE YEN (EU)	0	0	0.0%	2	38	-0.95	0	0	0.0%	182	5,937	-96.9%
EURO FX (EU)	0	0	0.0%	16	110	-0.85	0	5	-100.0%	505	28,568	-98.2%
SWISS FRANC (EU)	0	-	-	0	-	-	0	-	-	15	-	-
CANADIAN DOLLAR (EU)	0	0	0.0%	25	7	2.57	0	0	0.0%	136	1,811	-92.5%
BRITISH POUND (EU)	0	0	0.0%	178	13	12.69	0	0	0.0%	4,429	9,164	-51.7%
AUSTRALIAN DLR (EU)	0	0	0.0%	0	0	0	0	0	0.0%	2	1,146	-99.8%
EUR/USD PQO 2pm Fix	1,818	968	87.8%	792,286	248,305	2.19	29,946	2,670	1,021.6%	7,061,835	398,256	1,673.2%
CAD/USD PQO 2pm Fix	945	0	0.0%	134,316	49,668	1.7	6,145	510	1,104.9%	1,519,970	101,657	1,395.2%
JPY/USD PQO 2pm Fix	725	1,300	-44.2%	264,464	144,436	0.83	34,603	1,319	2,523.4%	2,811,022	211,513	1,229.0%
AUD/USD PQO 2pm Fix	0	60	-100.0%	96,025	64,920	0.48	5,746	2,040	181.7%	1,181,001	101,357	1,065.2%
GBP/USD PQO 2pm Fix	257	0	0.0%	376,068	59,550	5.32	5,002	1,323	278.1%	2,417,695	135,426	1,685.3%
CHF/USD PQO 2pm Fix	0	0	0.0%	2,504	5,420	-0.54	0	0	0.0%	36,975	7,877	369.4%
OTC AUDUSD SUB	0	-	-	1,871	-	-	0	-	-	2,008	-	-
JAPANESE YEN VOL	0	-	-	9,119	-	-	0	-	-	9,289	-	-
CANADIAN DOLLAR VOL	0	-	-	4,344	-	-	0	-	-	4,643	-	-
EURO FX VOL	0	-	-	29,881	-	-	0	-	-	30,767	-	-
OTC GBPUSD SUB	0	-	-	8,127	-	-	0	-	-	8,357	-	-
OTC CADUSD SUB	0	-	-	509	-	-	0	-	-	559	-	-

### Commodities and Alternative Investments

#### Futures

CORN	26,157	29,909	-12.5%	10,328,123	7,896,174	0.31	368,830	454,247	-18.8%	82,953,182	78,432,294	5.8%
SOYBEAN	11,118	12,786	-13.0%	3,579,275	3,933,697	-0.09	158,162	319,643	-50.5%	46,860,074	54,258,154	-13.6%

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<b>Commodities and Alternative Investments</b>												
<b>Futures</b>												
SOYBEAN MEAL	966	3,976	-75.7%	2,497,499	2,033,105	0.23	23,094	51,109	-54.8%	22,622,598	22,939,006	-1.4%
SOYBEAN OIL	4,747	8,559	-44.5%	3,058,733	3,060,894	0	43,629	54,316	-19.7%	26,850,410	26,123,642	2.8%
OATS	0	136	-100.0%	18,315	19,654	-0.07	80	196	-59.2%	145,203	200,736	-27.7%
ROUGH RICE	0	0	0.0%	15,162	12,769	0.19	0	0	0.0%	234,246	261,481	-10.4%
WHEAT	0	0	0.0%	118	6,345	-0.98	0	0	0.0%	119,222	71,443	66.9%
MINI CORN	0	0	0.0%	14,781	15,869	-0.07	0	0	0.0%	110,107	135,232	-18.6%
MINI SOYBEAN	0	0	0.0%	15,324	31,174	-0.51	0	0	0.0%	186,223	274,922	-32.3%
MINI WHEAT	0	0	0.0%	5,043	6,232	-0.19	0	0	0.0%	64,943	70,422	-7.8%
LIVE CATTLE	1,342	1,599	-16.1%	1,498,605	1,254,423	0.19	37,877	35,810	5.8%	15,097,606	12,006,318	25.7%
FEEDER CATTLE	13	11	18.2%	248,088	191,036	0.3	538	291	84.9%	3,264,471	2,336,306	39.7%
LEAN HOGS	3,438	2,273	51.3%	1,092,958	911,411	0.2	34,177	25,199	35.6%	10,428,534	8,316,822	25.4%
LUMBER	0	0	0.0%	18,607	13,377	0.39	0	0	0.0%	185,268	160,759	15.2%
MILK	1,829	318	475.2%	25,474	27,816	-0.08	2,914	1,475	97.6%	290,709	281,704	3.2%
MLK MID	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NFD MILK	15	0	0.0%	3,915	4,104	-0.05	29	13	123.1%	54,958	51,460	6.8%
BUTTER CS	0	0	0.0%	3,548	2,763	0.28	0	0	0.0%	35,369	35,409	-0.1%
CLASS IV MILK	0	0	0.0%	417	1,418	-0.71	79	70	12.9%	10,013	12,652	-20.9%
DRY WHEY	0	0	0.0%	1,844	1,821	0.01	0	0	0.0%	19,079	14,187	34.5%
GSCI EXCESS RETURN FUT	0	0	0.0%	0	0	0	0	0	0.0%	1,065	1,119	-4.8%
GOLDMAN SACHS	0	0	0.0%	33,561	38,412	-0.13	0	0	0.0%	373,955	323,770	15.5%
HDD WEATHER	0	0	0.0%	0	251	-1	0	0	0.0%	50	579	-91.4%
CDD WEATHER	0	0	0.0%	0	0	0	0	0	0.0%	25	400	-93.8%
HDD SEASONAL STRIP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CDD SEASONAL STRIP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
HDD WEATHER EUROPEAN	0	0	0.0%	0	0	0	0	0	0.0%	50	100	-50.0%
CAT WEATHER EUROPEAN	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
HDD EURO SEASONAL STRIP	0	0	0.0%	0	0	0	0	0	0.0%	0	50	-100.0%
CAT EURO SEASONAL STRIP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
HOUSING INDEX	0	0	0.0%	2	46	-0.96	0	0	0.0%	133	139	-4.3%
DOW-UBS COMMOD INDEX	0	0	0.0%	57,947	32,468	0.78	0	0	0.0%	869,525	354,748	145.1%
COTTON	0	0	0.0%	3	2	0.5	0	0	0.0%	19	577	-96.7%
COCOA TAS	0	0	0.0%	1	14	-0.93	0	0	0.0%	87	2,594	-96.6%
COFFEE	0	0	0.0%	1	1	0	0	0	0.0%	41	169	-75.7%
SUGAR 11	0	0	0.0%	0	3	-1	0	0	0.0%	42	418	-90.0%

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<b>Commodities and Alternative Investments</b>												
<b>Futures</b>												
USD CRUDE PALM OIL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CASH-SETTLED CHEESE	0	0	0.0%	15,258	7,325	1.08	0	6	-100.0%	113,436	108,406	4.6%
FERTILIZER PRODUCS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CHI WHEAT	4,896	25,344	-80.7%	3,660,619	3,215,144	0.14	154,337	194,471	-20.6%	31,734,614	29,073,604	9.2%
DJ_UBS ROLL SELECT INDEX	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
KC WHEAT	532	304	75.0%	1,509,537	1,083,946	0.39	10,220	12,629	-19.1%	11,589,669	8,719,088	32.9%
Intercommodity Spread	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PALM OIL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MALAYSIAN PALM SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
S&P GSCI ENHANCED ER SWA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
<b>Commodities and Alternative Investments</b>												
<b>Options</b>												
CORN	377,077	401,479	-6.1%	1,220,055	904,319	0.35	6,423,526	7,532,508	-14.7%	16,552,657	14,159,870	16.9%
SOYBEAN	222,048	307,965	-27.9%	954,565	925,912	0.03	3,230,645	4,756,070	-32.1%	12,589,797	14,256,658	-11.7%
SOYBEAN MEAL	52,190	51,408	1.5%	119,298	98,554	0.21	590,775	687,873	-14.1%	1,315,840	1,443,849	-8.9%
SOYBEAN OIL	93,902	92,131	1.9%	100,708	108,749	-0.07	885,990	1,037,535	-14.6%	1,047,007	1,096,112	-4.5%
SOYBEAN CRUSH	76	20	280.0%	0	0	0	716	4,793	-85.1%	0	0	0.0%
OATS	615	2,050	-70.0%	381	1,093	-0.65	6,116	8,116	-24.6%	7,328	9,219	-20.5%
ROUGH RICE	1,180	320	268.8%	1,460	1,193	0.22	11,715	2,733	328.6%	12,102	16,449	-26.4%
WHEAT	50	0	0.0%	50	52	-0.04	1,047	0	0.0%	503	409	23.0%
LIVE CATTLE	30,719	49,258	-37.6%	215,294	208,829	0.03	538,580	1,192,939	-54.9%	2,171,611	2,596,173	-16.4%
FEEDER CATTLE	3,012	4,147	-27.4%	25,316	27,088	-0.07	48,334	50,004	-3.3%	329,777	333,066	-1.0%
LEAN HOGS	35,846	21,607	65.9%	181,941	133,110	0.37	342,476	398,658	-14.1%	2,050,290	1,611,709	27.2%
LUMBER	1	2	-50.0%	2,714	1,116	1.43	44	112	-60.7%	14,566	11,384	28.0%
MILK	16,315	13,659	19.4%	25,543	18,506	0.38	133,144	139,403	-4.5%	259,504	190,147	36.5%
MLK MID	142	168	-15.5%	0	0	0	756	750	0.8%	0	0	0.0%
NFD MILK	1,610	381	322.6%	3,087	956	2.23	15,909	20,360	-21.9%	32,108	13,223	142.8%
BUTTER CS	926	510	81.6%	2,018	749	1.69	11,566	10,062	14.9%	9,038	3,302	173.7%
CLASS IV MILK	336	130	158.5%	1,560	943	0.65	3,291	2,968	10.9%	16,045	9,027	77.7%
DRY WHEY	686	39	1,659.0%	670	36	17.61	3,810	941	304.9%	2,824	91	3,003.3%
HDD WEATHER	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CDD WEATHER	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2017	Open Outcry NOV 2016	% CHG	ELEC NOV 2017	ELEC NOV 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG
<b>Commodities and Alternative Investments</b>												
<b>Options</b>												
HDD SEASONAL STRIP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CDD SEASONAL STRIP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
HDD WEATHER EUROPEAN	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CAT WEATHER EUROPEAN	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
HDD EURO SEASONAL STRIP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
HOUSING INDEX	0	0	0.0%	4	0	0	0	0	0.0%	46	18	155.6%
CORN NEARBY+2 CAL SPRD	1,980	2,428	-18.5%	25	0	0	15,738	35,161	-55.2%	102	82	24.4%
SOYBN NEARBY+2 CAL SPRD	0	0	0.0%	0	0	0	460	1,401	-67.2%	600	0	0.0%
WHEAT NEARBY+2 CAL SPRD	1,135	7,096	-84.0%	260	568	-0.54	12,926	51,582	-74.9%	4,367	2,359	85.1%
JULY-DEC CORN CAL SPRD	0	0	0.0%	0	0	0	17,402	36,609	-52.5%	0	175	-100.0%
DEC-JULY WHEAT CAL SPRD	399	75	432.0%	10	0	0	1,923	590	225.9%	210	0	0.0%
JULY-NOV SOYBEAN CAL SPR	10	3,166	-99.7%	0	0	0	69,350	65,192	6.4%	1,317	263	400.8%
JULY-DEC WHEAT CAL SPRD	0	100	-100.0%	0	0	0	1,414	33,474	-95.8%	200	145	37.9%
JULY-JULY WHEAT CAL SPRD	0	0	0.0%	0	0	0	0	480	-100.0%	0	13	-100.0%
NOV-NOV SOYBEAN CAL SPR	0	0	0.0%	0	0	0	164	2,982	-94.5%	0	0	0.0%
SOYMEAL NEARBY+2 CAL SPR	0	0	0.0%	0	0	0	0	3,785	-100.0%	0	0	0.0%
LV CATL CSO	0	5	-100.0%	0	0	0	1,972	270	630.4%	0	0	0.0%
JULY-DEC SOY OIL CAL SPRD	0	1,000	-100.0%	0	0	0	630	1,000	-37.0%	10	0	0.0%
NOV-JULY SOYBEAN CAL SPR	0	0	0.0%	0	0	0	1,696	0	0.0%	0	0	0.0%
SOY OIL NEARBY+2 CAL SPRD	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
CASH-SETTLED CHEESE	3,897	5,009	-22.2%	9,474	1,407	5.73	50,431	57,561	-12.4%	52,729	24,524	115.0%
DEC-JULY CORN CAL SPRD	290	6,330	-95.4%	0	0	0	39,888	26,533	50.3%	0	10	-100.0%
WHEAT-CORN IC SO	1,015	1,800	-43.6%	0	0	0	6,550	17,452	-62.5%	6	0	0.0%
DEC-DEC CORN CAL SPRD	0	17	-100.0%	0	0	0	11,786	17,868	-34.0%	274	15	1,726.7%
AUG-NOV SOYBEAN CAL SPR	0	0	0.0%	0	0	0	103	20	415.0%	0	0	0.0%
JAN-MAY SOYBEAN CAL SPRD	0	-	-	0	-	-	36	-	-	0	-	-
MAR-DEC CORN CAL SPRD	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
CHI WHEAT	91,117	184,062	-50.5%	389,583	372,469	0.05	1,601,843	1,902,015	-15.8%	5,480,439	4,619,471	18.6%
MAR-JULY CORN CAL SPRD	0	0	0.0%	0	0	0	70	2,416	-97.1%	0	4	-100.0%
KC WHEAT	6,748	5,704	18.3%	20,559	13,470	0.53	154,009	155,346	-0.9%	341,970	170,195	100.9%
MAR-JULY WHEAT CAL SPRD	200	700	-71.4%	0	0	0	1,493	2,350	-36.5%	76	0	0.0%
AUG-DEC SOYBEAN MEAL CS	0	0	0.0%	0	0	0	0	5	-100.0%	0	0	0.0%
Intercommodity Spread	0	51	-100.0%	0	0	0	701	3,446	-79.7%	0	0	0.0%
SEP-DEC SOYBEAN MEAL CSC	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2017	Open Outcry NOV 2016	% CHG	ELEC NOV 2017	ELEC NOV 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG
<b>Ags Futures</b>												
FERTILIZER PRODUCTS	0	-	-	0	-		0	-	-	0	-	-
<b>Foreign Exchange Futures</b>												
CHILEAN PESO	0	0	0.0%	516	0	0	0	6	-100.0%	17,593	4	439,725.0%
<b>Foreign Exchange Options</b>												
OTC AUDUSD SUB	0	-	-	634	-		0	-	-	634	-	-
<b>TOTAL FUTURES GROUP</b>												
Interest Rate Futures	816,818	1,189,598	-31.3%	148,544,446	185,411,034	-19.9%	8,839,939	8,384,926	5.4%	1,371,795,784	1,284,316,561	6.8%
Equity Index Futures	22,303	61,717	-63.9%	40,804,412	49,415,093	-17.4%	698,482	1,175,560	-40.6%	451,604,827	559,000,276	-19.2%
Metals Futures	0	7,971	-100.0%	14,394,620	13,098,442	9.9%	0	109,446	-100.0%	117,570,817	93,590,517	25.6%
Energy Futures	0	160	-100.0%	45,580,440	45,382,739	0.4%	0	27,236	-100.0%	484,627,273	432,769,768	12.0%
FX Futures	198	975	-79.7%	17,358,251	18,727,802	-7.3%	16,281	16,862	-3.4%	189,978,098	178,077,000	6.7%
Commodities and Alternative Inve	55,053	85,215	-35.4%	27,702,758	23,801,694	16.4%	833,966	1,149,475	-27.4%	254,214,926	244,568,710	3.9%
Ags Futures	0	-	-	0	-		0	-	-	0	-	-
Foreign Exchange Futures	0	0	0.0%	516	0	0.0%	0	6	-100.0%	17,593	4	439,725.0%
<b>TOTAL FUTURES</b>	<b>894,372</b>	<b>1,345,636</b>	<b>-33.5%</b>	<b>294,385,443</b>	<b>335,836,804</b>	<b>-12.3%</b>	<b>10,388,668</b>	<b>10,863,511</b>	<b>-4.4%</b>	<b>2,869,809,318</b>	<b>2,792,322,836</b>	<b>2.8%</b>

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## CME Group Exchange Volume Comparison Report - Monthly

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<b>TOTAL OPTIONS GROUP</b>												
Equity Index Options	1,408,716	1,111,230	26.8%	14,501,061	15,751,107	-7.9%	12,570,899	12,402,083	1.4%	143,070,517	134,421,318	6.4%
Interest Rate Options	19,357,662	26,592,167	-27.2%	21,571,586	23,564,877	-8.5%	221,454,231	222,878,883	-0.6%	245,790,684	161,087,603	52.6%
Metals Options	0	28,247	-100.0%	689,824	1,195,465	-42.3%	0	705,331	-100.0%	8,501,517	7,994,772	6.3%
Energy Options	0	3,986	-100.0%	5,475,578	4,919,901	11.3%	0	281,552	-100.0%	47,972,944	40,653,356	18.0%
FX Options	3,925	13,698	-71.3%	1,721,641	1,736,153	-0.8%	108,179	261,040	-58.6%	17,797,897	16,190,720	9.9%
Commodities and Alternative Inve	943,522	1,162,817	-18.9%	3,274,575	2,819,119	16.2%	14,239,025	18,263,363	-22.0%	42,293,343	40,567,962	4.3%
Foreign Exchange Options	0	-	-	634	-	-	0	-	-	634	-	-
<b>TOTAL OPTIONS</b>	<b>21,713,825</b>	<b>28,912,145</b>	<b>-24.9%</b>	<b>47,234,899</b>	<b>49,986,622</b>	<b>-5.5%</b>	<b>248,372,334</b>	<b>254,792,252</b>	<b>-2.5%</b>	<b>505,427,536</b>	<b>400,915,731</b>	<b>26.1%</b>
<b>TOTAL COMBINED</b>												
Interest Rate	20,174,480	27,781,765	-27.4%	170,116,032	208,975,911	-18.6%	230,294,170	231,263,809	-0.4%	1,617,586,468	1,445,404,164	11.9%
Equity Index	1,431,019	1,172,947	22.0%	55,305,473	65,166,200	-15.1%	13,269,381	13,577,643	-2.3%	594,675,344	693,421,594	-14.2%
Metals	0	36,218	-100.0%	15,084,444	14,293,907	5.5%	0	814,777	-100.0%	126,072,334	101,585,289	24.1%
Energy	0	4,146	-100.0%	51,056,018	50,302,640	1.5%	0	308,788	-100.0%	532,600,217	473,423,124	12.5%
FX	4,123	14,673	-71.9%	19,079,892	20,463,955	-6.8%	124,460	277,902	-55.2%	207,775,995	194,267,720	7.0%
Commodities and Alternative Inve	998,575	1,248,032	-20.0%	30,977,333	26,620,813	16.4%	15,072,991	19,412,838	-22.4%	296,508,269	285,136,672	4.0%
Ags	0	-	-	0	-	-	0	-	-	0	-	-
Foreign Exchange	0	0	0.0%	1,150	0	0.0%	0	6	-100.0%	18,227	4	455,575.0%
<b>GRAND TOTAL</b>	<b>22,608,197</b>	<b>30,257,781</b>	<b>-25.3%</b>	<b>341,620,342</b>	<b>385,823,426</b>	<b>-11.5%</b>	<b>258,761,002</b>	<b>265,655,763</b>	<b>-2.6%</b>	<b>3,375,236,854</b>	<b>3,193,238,567</b>	<b>5.7%</b>

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