



## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2017	Open Outcry APR 2016	% CHG	ELEC APR 2017	ELEC APR 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	19,959	15,596	28.0%	4,516,582	4,355,723	0.04	82,681	85,376	-3.2%	22,326,184	22,703,940	-1.7%
10-YR NOTE	139,000	96,689	43.8%	24,899,657	21,747,377	0.14	563,424	525,471	7.2%	118,781,895	112,130,669	5.9%
5-YR NOTE	25,704	22,288	15.3%	12,965,212	10,757,261	0.21	112,059	92,161	21.6%	69,676,997	59,367,088	17.4%
2-YR NOTE	5,212	1,228	324.4%	4,486,805	4,158,871	0.08	6,395	2,408	165.6%	25,618,605	23,827,366	7.5%
FED FUND	0	0	0.0%	3,808,171	2,115,908	0.8	0	0	0.0%	19,219,484	9,496,583	102.4%
EURODOLLARS	684,773	422,191	62.2%	50,119,573	40,373,348	0.24	2,826,590	2,579,878	9.6%	238,056,890	209,517,418	13.6%
5-YR SWAP RATE	0	0	0.0%	37,711	33,993	0.11	0	0	0.0%	211,989	235,216	-9.9%
2-YR SWAP RATE	0	0	0.0%	0	385	-1	0	0	0.0%	0	4,381	-100.0%
10-YR SWAP RATE	0	0	0.0%	29,598	24,470	0.21	0	0	0.0%	174,790	175,833	-0.6%
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%	8,012	115	68.67	0	0	0.0%	13,393	2,660	403.5%
ULTRA T-BOND	0	0	0.0%	1,493,430	1,367,726	0.09	0	0	0.0%	9,031,781	8,393,252	7.6%
Ultra 10-Year Note	0	0	0.0%	1,405,914	927,641	0.52	8	0	0.0%	7,561,300	2,896,516	161.0%
30-YR SWAP RATE	0	0	0.0%	885	1,354	-0.35	0	0	0.0%	5,964	7,283	-18.1%
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	186,884	196,399	-4.8%	1,646,973	1,087,008	0.52	988,751	1,145,957	-13.7%	6,815,304	5,862,762	16.2%
10-YR NOTE	2,201,185	1,834,408	20.0%	8,935,801	4,037,972	1.21	9,527,394	9,201,076	3.5%	32,430,077	19,625,989	65.2%
5-YR NOTE	362,929	377,131	-3.8%	1,992,601	1,087,417	0.83	2,569,785	2,728,168	-5.8%	8,571,231	5,316,224	61.2%
2-YR NOTE	35,510	70,681	-49.8%	47,440	120,264	-0.61	116,494	174,860	-33.4%	255,187	314,516	-18.9%
FED FUND	0	1,750	-100.0%	0	108	-1	7,398	31,630	-76.6%	1,106	1,566	-29.4%
EURODOLLARS	10,469,494	8,061,587	29.9%	5,026,231	2,904,527	0.73	41,474,949	44,912,049	-7.7%	16,949,018	12,030,803	40.9%
EURO MIDCURVE	9,726,804	4,967,583	95.8%	5,873,102	2,152,977	1.73	42,051,555	31,862,685	32.0%	20,790,889	14,017,506	48.3%
ULTRA T-BOND	0	1,115	-100.0%	3,961	4,570	-0.13	1,003	4,891	-79.5%	7,969	13,899	-42.7%
Ultra 10-Year Note	0	0	0.0%	600	47	11.77	952	400	138.0%	6,499	163	3,887.1%

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<b>Equity Index Futures</b>												
DJIA	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
MINI \$5 DOW	0	0	0.0%	2,719,008	3,156,783	-0.14	0	0	0.0%	11,438,091	15,883,571	-28.0%
E-MINI S&P500	0	0	0.0%	27,315,616	34,550,477	-0.21	0	0	0.0%	125,732,912	169,421,859	-25.8%
S&P 500	26,001	53,565	-51.5%	2,740	10,192	-0.73	300,908	456,246	-34.0%	20,364	54,580	-62.7%
S&P 600 SMALLCAP EMINI	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
E-MINI MIDCAP	0	0	0.0%	320,224	313,086	0.02	0	0	0.0%	1,487,016	1,840,691	-19.2%
S&P 400 MIDCAP	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
S&P 500 GROWTH	0	0	0.0%	3	13	-0.77	0	0	0.0%	55	96	-42.7%
S&P 500/VALUE	0	0	0.0%	5,324	2,757	0.93	0	0	0.0%	20,641	15,666	31.8%
E-MINI RUSSELL 1000	0	0	0.0%	875	193	3.53	0	0	0.0%	4,237	2,952	43.5%
E-MINI NASDAQ 100	0	0	0.0%	4,349,962	4,945,350	-0.12	0	0	0.0%	16,992,063	25,557,819	-33.5%
NASDAQ	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
NIKKEI 225 (\$) STOCK	0	0	0.0%	242,852	417,912	-0.42	0	0	0.0%	1,143,263	1,834,451	-37.7%
NIKKEI 225 (YEN) STOCK	0	0	0.0%	828,929	1,395,287	-0.41	0	0	0.0%	3,787,973	6,046,825	-37.4%
DJ US REAL ESTATE	0	0	0.0%	14,871	6,650	1.24	0	0	0.0%	55,013	42,043	30.8%
NASDAQ BIOTECH	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
E-MICRO NIFTY	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
S&P CONSUMER STAPLES SE	0	0	0.0%	2,496	4,113	-0.39	0	0	0.0%	28,981	28,958	0.1%
S&P HEALTH CARE SECTOR	0	0	0.0%	4,167	6,727	-0.38	0	0	0.0%	38,826	31,738	22.3%
S&P TECHNOLOGY SECTOR	0	0	0.0%	2,040	2,098	-0.03	0	0	0.0%	19,583	13,466	45.4%
S&P INDUSTRIAL SECTOR	0	0	0.0%	1,109	2,475	-0.55	0	0	0.0%	14,872	9,851	51.0%
S&P CONSUMER DSCRTNRY S	0	0	0.0%	1,849	3,209	-0.42	0	0	0.0%	18,245	20,024	-8.9%
S&P UTILITIES SECTOR	0	0	0.0%	6,746	7,861	-0.14	0	0	0.0%	55,418	47,476	16.7%
S&P FINANCIAL SECTOR	0	0	0.0%	11,144	3,388	2.29	0	0	0.0%	53,580	29,152	83.8%
S&P ENERGY SECTOR	0	0	0.0%	8,124	5,958	0.36	0	0	0.0%	45,137	32,806	37.6%
S&P MATERIALS SECTOR	0	0	0.0%	2,692	2,982	-0.1	0	0	0.0%	20,667	14,174	45.8%
E-MINI RUSSELL 1000 GROWT	0	0	0.0%	1,387	158	7.78	0	0	0.0%	2,716	1,900	42.9%
FT-SE 100	0	0	0.0%	944	1,353	-0.3	0	0	0.0%	6,287	7,099	-11.4%
IBOVESPA INDEX	0	0	0.0%	702	782	-0.1	0	0	0.0%	2,822	2,318	21.7%
E-MINI RUSSELL 1000 VALUE	0	0	0.0%	1,747	275	5.35	0	0	0.0%	7,373	2,946	150.3%
NIFTY 50	0	0	0.0%	14,295	6,994	1.04	0	0	0.0%	28,111	31,882	-11.8%
E-MINI S&P REAL ESTATE SEL	0	-	-	3,246	-	-	0	-	-	8,951	-	-

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<b>Equity Index Options</b>												
DJIA	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
MINI \$5 DOW	0	0	0.0%	2,710	9,372	-0.71	0	0	0.0%	21,375	64,219	-66.7%
E-MINI S&P500	0	42,060	-100.0%	3,021,978	5,568,373	-0.46	0	89,425	-100.0%	15,848,497	27,581,229	-42.5%
S&P 500	176,543	536,091	-67.1%	0	0	0	1,152,442	3,371,861	-65.8%	0	0	0.0%
E-MINI MIDCAP	0	0	0.0%	0	0	0	0	0	0.0%	0	5	-100.0%
E-MINI NASDAQ 100	0	0	0.0%	126,039	246,375	-0.49	0	0	0.0%	675,677	992,943	-32.0%
NASDAQ	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
EOM S&P 500	166,336	191,868	-13.3%	0	0	0	738,336	628,638	17.5%	0	0	0.0%
EOM EMINI S&P	0	0	0.0%	2,201,165	1,942,625	0.13	0	0	0.0%	8,400,810	5,456,673	54.0%
EOW1 S&P 500	97,157	52,872	83.8%	0	0	0	307,170	186,307	64.9%	0	0	0.0%
EOW1 EMINI S&P 500	0	0	0.0%	1,310,244	667,466	0.96	0	0	0.0%	4,804,539	3,452,354	39.2%
EOW2 S&P 500	64,364	103,978	-38.1%	0	0	0	611,824	395,374	54.7%	0	0	0.0%
EOW2 EMINI S&P 500	0	0	0.0%	1,139,512	778,646	0.46	0	0	0.0%	4,584,010	3,874,732	18.3%
EOW4 EMINI S&P 500	0	0	0.0%	59,717	856,391	-0.93	0	0	0.0%	3,514,793	3,876,779	-9.3%
EOW3 S&P 500	400,561	56,831	604.8%	0	0	0	1,511,394	118,037	1,180.4%	0	0	0.0%
EOW3 EMINI S&P 500	0	0	0.0%	4,384,632	373,366	10.74	0	0	0.0%	15,666,845	417,697	3,650.8%

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<b>Metals Futures</b>												
COMEX GOLD	0	6,768	-100.0%	4,461,090	3,703,316	0.2	0	47,474	-100.0%	20,383,912	17,169,652	18.7%
COMEX MINY COPPER	0	0	0.0%	790	528	0.5	0	0	0.0%	3,614	2,830	27.7%
COMEX SILVER	0	1,597	-100.0%	2,056,271	1,905,854	0.08	0	5,350	-100.0%	6,671,830	5,652,432	18.0%
COMEX COPPER	0	11	-100.0%	2,238,991	1,993,397	0.12	0	454	-100.0%	8,008,170	6,612,236	21.1%
NYMEX HOT ROLLED STEEL	0	0	0.0%	152	685	-0.78	0	0	0.0%	728	2,014	-63.9%
NYMEX PLATINUM	0	22	-100.0%	274,939	239,283	0.15	0	38	-100.0%	1,386,755	1,157,034	19.9%
URANIUM	0	0	0.0%	0	20	-1	0	0	0.0%	412	739	-44.2%
PALLADIUM	0	0	0.0%	92,121	87,971	0.05	0	63	-100.0%	427,334	406,220	5.2%
E-MICRO GOLD	0	0	0.0%	84,964	87,153	-0.03	0	0	0.0%	345,221	350,385	-1.5%
GOLD	0	-	-	0	-		0	-	-	0	-	-
ALUMINUM	0	0	0.0%	240	1,103	-0.78	0	0	0.0%	3,486	5,226	-33.3%
COPPER	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SILVER	0	0	0.0%	4,643	9,938	-0.53	0	0	0.0%	19,690	30,600	-35.7%
Gold Kilo	0	0	0.0%	230	3,861	-0.94	0	0	0.0%	1,631	24,316	-93.3%
COMEX E-Mini SILVER	0	0	0.0%	720	1,389	-0.48	0	0	0.0%	3,406	3,579	-4.8%
COMEX E-Mini GOLD	0	0	0.0%	7,370	11,692	-0.37	0	0	0.0%	38,377	41,361	-7.2%
Aluminium MW Trans Prem Platts	0	0	0.0%	132	291	-0.55	0	0	0.0%	939	1,835	-48.8%
LNDN ZINC	0	0	0.0%	15	0	0	0	0	0.0%	35	79	-55.7%
METALS	0	-	-	0	-		0	-	-	0	-	-
FERROUS PRODUCTS	0	0	0.0%	0	0	0	0	0	0.0%	35	0	0.0%
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%	301	498	-0.4	0	0	0.0%	1,529	3,105	-50.8%
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	39,240	-100.0%	627,619	529,109	0.19	0	330,622	-100.0%	2,450,183	2,550,739	-3.9%
COMEX SILVER	0	11,843	-100.0%	103,427	122,308	-0.15	0	35,371	-100.0%	367,784	389,156	-5.5%
COMEX COPPER	0	50	-100.0%	3,989	2,072	0.93	0	950	-100.0%	13,253	6,579	101.4%
NYMEX PLATINUM	0	489	-100.0%	895	406	1.2	0	1,566	-100.0%	2,514	2,257	11.4%
PALLADIUM	0	12	-100.0%	1,333	93	13.33	0	272	-100.0%	3,418	513	566.3%
GOLD	0	180	-100.0%	10,505	2,958	2.55	0	556	-100.0%	38,259	13,449	184.5%
COPPER	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
SILVER	0	0	0.0%	118	2	58	0	0	0.0%	586	33	1,675.8%
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%
<b>Energy Futures</b>												
ETHANOL	0	0	0.0%	16,095	13,085	0.23	0	0	0.0%	68,918	53,914	27.8%
ETHANOL FWD	0	0	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	0	0.0%
NORTHWEST ROCKIES BASIS	0	0	0.0%	0	0	0	0	0	0.0%	0	60	-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%	30,910	9,676	2.19	0	800	-100.0%	116,410	34,540	237.0%
HTG OIL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
LTD NAT GAS	0	0	0.0%	74,213	73,054	0.02	0	0	0.0%	416,520	297,881	39.8%
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%
SOCAL PIPE SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%

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<b>Energy Futures</b>												
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%	1,813,407	2,225,836	-0.19	0	0	0.0%	7,703,885	9,007,532	-14.5%
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%	0	0	0.0%
MARS (ARGUS) VS WTI TRD M	0	0	0.0%	0	0	0	0	0	0.0%	0	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 AECO 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%
PJM BGE DA 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 APR 2017	Open Outcry APR 2016	% CHG	ELEC APR 2017	ELEC APR 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 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 PEPKO 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	-	-
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%
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%
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%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2017	Open Outcry APR 2016	% CHG	ELEC APR 2017	ELEC APR 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 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	142	-100.0%	2,868,583	3,007,364	-0.05	0	567	-100.0%	12,244,380	11,574,086	5.8%
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%	1	8	-0.88	0	0	0.0%	11	33	-66.7%
WAHA BASIS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MINY NATURAL GAS	0	0	0.0%	20,689	23,014	-0.1	0	0	0.0%	125,238	101,133	23.8%
SINGAPORE GASOIL SWAP	0	0	0.0%	13	0	0	0	0	0.0%	13	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%	0	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	-	-
RBOB GASOLINE BALMO CLNC	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
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%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2017	Open Outcry APR 2016	% CHG	ELEC APR 2017	ELEC APR 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>												
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	-	-
COLUMB GULF MAINLINE NG B	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
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%
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	59	-100.0%	3,419,759	3,280,884	0.04	0	273	-100.0%	15,149,316	13,528,576	12.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2017	Open Outcry APR 2016	% CHG	ELEC APR 2017	ELEC APR 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>												
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%
NORTHEN 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%	190,045	293,961	-0.35	0	0	0.0%	915,347	1,258,595	-27.3%
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	118	-100.0%	7,658,386	8,116,382	-0.06	0	1,085	-100.0%	33,315,665	28,602,190	16.5%
APPALACHIAN COAL (PHY)	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
WTI CALENDAR	0	494	-100.0%	0	0	0	0	572	-100.0%	0	0	0.0%
HENRY HUB BASIS SWAP	0	0	0.0%	0	0	0	0	0	0.0%	2,996	0	0.0%
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	1,573	-100.0%	20,732,464	22,957,887	-0.1	0	12,637	-100.0%	88,404,403	90,907,428	-2.8%
RBOB CALENDAR SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	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%	165	1,283	-0.87	0	0	0.0%	1,082	4,147	-73.9%
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)	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%
LLS (ARGUS) VS WTI SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MINY RBOB GAS	0	0	0.0%	3	4	-0.25	0	0	0.0%	20	17	17.6%
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%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2017	Open Outcry APR 2016	% CHG	ELEC APR 2017	ELEC APR 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>												
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	0	0.0%	0	0	0	0	24	-100.0%	3	3	0.0%
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	0	0	0	0	0.0%	0	0	0.0%
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	0	0.0%
PJM MONTHLY	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NORTHEN 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	0	0.0%
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	0	0	0	0	0.0%	0	0	0.0%
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%
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%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2017	Open Outcry APR 2016	% CHG	ELEC APR 2017	ELEC APR 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>												
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	-	-
DEMARC SWING SWAP	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%	200	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%	120	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%	51	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%
TC2 ROTTERDAM TO USAC 37	-	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%
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%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2017	Open Outcry APR 2016	% CHG	ELEC APR 2017	ELEC APR 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>												
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	0	0	0	0	0.0%	0	0	0.0%
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 CALENDAR	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%	6,606	275,172	-0.98	0	736	-100.0%	44,204	860,619	-94.9%
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%	1	0	0	0	0	0.0%	1	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%
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	50	-1	0	0	0.0%	0	50	-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%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2017	Open Outcry APR 2016	% CHG	ELEC APR 2017	ELEC APR 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>												
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%	37	4	8.25	0	0	0.0%	100	36	177.8%
EUROPEAN GASOIL (ICE)	0	0	0.0%	2,095	155,509	-0.99	0	0	0.0%	11,099	1,190,660	-99.1%
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%
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%	0	0	0	0	0	0.0%	19	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%	0	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%	0	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%
RBOB (PLATTS) CAL SWAP	0	-	-	0	-	-	0	-	-	0	-	-
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	-	-
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%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2017	Open Outcry APR 2016	% CHG	ELEC APR 2017	ELEC APR 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>												
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%	0	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%
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%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2017	Open Outcry APR 2016	% CHG	ELEC APR 2017	ELEC APR 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>												
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%
DIESEL 10PPM 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	-	-
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%
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%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2017	Open Outcry APR 2016	% CHG	ELEC APR 2017	ELEC APR 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>												
DY EURO 3.5% FUEL OI RDA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ELEC WEST POWER OFF-PEA	0	-	-	0	-	-	0	-	-	0	-	-
ELEC WEST POWER PEAK	0	-	-	0	-	-	0	-	-	0	-	-
CAISO SP15 EZGNHUB5 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	1,231	-100.0%	1,468	917	0.6	0	1,412	-100.0%	15,053	918	1,539.8%
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	839	-100.0%	4,867	5,883	-0.17	0	3,779	-100.0%	18,391	31,576	-41.8%
HENRY HUB FINANCIAL LAST	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
RBOB PHY	0	1,162	-100.0%	4,148	8,695	-0.52	0	6,484	-100.0%	21,247	35,376	-39.9%
NATURAL GAS PHY	0	1,243	-100.0%	974,863	643,886	0.51	0	13,041	-100.0%	4,156,167	2,117,734	96.3%
CRUDE OIL APO	0	1,580	-100.0%	30	0	0	0	5,040	-100.0%	40	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%	0	0	0.0%
WTI CRUDE OIL 1 M CSO FI	0	0	0.0%	0	4,509	-1	0	0	0.0%	0	10,926	-100.0%
CRUDE OIL PHY	0	34,798	-100.0%	3,231,187	2,881,689	0.12	0	147,385	-100.0%	12,075,893	11,782,945	2.5%
RBOB CALENDAR SWAP	0	0	0.0%	0	0	0	0	48	-100.0%	0	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	95	-100.0%	31	0	0	0	766	-100.0%	215	0	0.0%
PJM MONTHLY	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

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<b>Energy Options</b>												
WTI-BRENT BULLET SWAP	0	0	0.0%	300	0	0	0	0	0.0%	3,840	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	250	-100.0%	0	0	0.0%
CRUDE OIL 1MO	0	0	0.0%	10,670	102,496	-0.9	0	0	0.0%	82,053	144,984	-43.4%
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%	0	0	0	0	0	0.0%	0	0	0.0%
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	-	-
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%
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%
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%	0	0	0	0	0	0.0%	0	0	0.0%
SHORT TERM	0	0	0.0%	0	0	0	0	0	0.0%	0	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%

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<b>Energy Options</b>												
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%
<b>FX Futures</b>												
AUSTRALIAN DOLLAR	0	30	-100.0%	1,545,274	2,015,790	-0.23	747	84	789.3%	7,134,063	8,439,952	-15.5%
BRITISH POUND	2	15	-86.7%	1,999,789	1,962,122	0.02	248	281	-11.7%	9,549,708	8,419,982	13.4%
BRAZIL REAL	0	0	0.0%	52,961	46,292	0.14	0	0	0.0%	173,832	230,920	-24.7%
CANADIAN DOLLAR	4	5	-20.0%	1,269,615	1,480,900	-0.14	766	250	206.4%	5,473,973	6,498,606	-15.8%
E-MINI EURO FX	0	0	0.0%	73,178	71,191	0.03	0	0	0.0%	333,248	367,685	-9.4%
EURO FX	512	1,191	-57.0%	3,334,399	3,683,205	-0.09	1,608	4,541	-64.6%	17,027,516	17,695,020	-3.8%
E-MINI JAPANESE YEN	0	0	0.0%	26,059	38,559	-0.32	0	0	0.0%	124,102	153,152	-19.0%
JAPANESE YEN	1,172	592	98.0%	2,981,741	2,725,888	0.09	7,362	2,122	246.9%	13,547,965	13,343,027	1.5%
MEXICAN PESO	0	0	0.0%	824,666	1,132,849	-0.27	5	0	0.0%	3,891,070	4,460,333	-12.8%
NEW ZEALND DOLLAR	0	0	0.0%	315,259	391,923	-0.2	0	0	0.0%	1,879,172	1,674,718	12.2%
NKR/USD CROSS RATE	0	0	0.0%	799	707	0.13	0	0	0.0%	7,034	4,826	45.8%
RUSSIAN RUBLE	0	0	0.0%	25,649	22,413	0.14	0	0	0.0%	125,353	119,316	5.1%
S.AFRICAN RAND	0	0	0.0%	35,409	10,890	2.25	0	0	0.0%	166,465	51,811	221.3%
SWISS FRANC	0	0	0.0%	390,636	397,860	-0.02	0	0	0.0%	1,826,915	1,890,256	-3.4%
AD/CD CROSS RATES	0	0	0.0%	6	6	0	0	0	0.0%	21	36	-41.7%
AD/JY CROSS RATES	0	0	0.0%	1,519	3,331	-0.54	0	0	0.0%	7,697	20,032	-61.6%
AD/NE CROSS RATES	0	0	0.0%	36	29	0.24	0	0	0.0%	110	322	-65.8%
BP/JY CROSS RATES	0	0	0.0%	2,421	1,278	0.89	0	0	0.0%	9,003	6,088	47.9%
BP/SF CROSS RATES	0	0	0.0%	288	12	23	0	0	0.0%	308	47	555.3%
CD/JY CROSS RATES	0	0	0.0%	154	0	0	0	0	0.0%	432	9	4,700.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2017	Open Outcry APR 2016	% CHG	ELEC APR 2017	ELEC APR 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>												
EC/AD CROSS RATES	0	0	0.0%	1,814	1,769	0.03	0	0	0.0%	9,505	6,848	38.8%
EC/CD CROSS RATES	0	0	0.0%	1,944	1,505	0.29	0	0	0.0%	11,872	10,186	16.6%
EC/NOK CROSS RATES	0	0	0.0%	11	0	0	0	0	0.0%	126	5	2,420.0%
EC/SEK CROSS RATES	0	0	0.0%	126	31	3.06	0	0	0.0%	604	191	216.2%
EFX/BP CROSS RATES	0	0	0.0%	47,181	52,206	-0.1	0	0	0.0%	219,308	304,844	-28.1%
EFX/JY CROSS RATES	0	0	0.0%	52,913	33,824	0.56	0	0	0.0%	190,990	173,370	10.2%
EFX/SF CROSS RATES	0	0	0.0%	22,723	25,553	-0.11	0	0	0.0%	110,353	122,984	-10.3%
SF/JY CROSS RATES	0	-	-	0	-		0	-	-	0	-	-
SKR/USD CROSS RATES	0	0	0.0%	1,414	923	0.53	0	0	0.0%	7,310	4,975	46.9%
HUNGARIAN FORINT (US)	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
POLISH ZLOTY (US)	0	0	0.0%	40	490	-0.92	0	0	0.0%	508	1,644	-69.1%
POLISH ZLOTY (EC)	0	0	0.0%	71	1,636	-0.96	0	0	0.0%	135	4,069	-96.7%
SHEKEL	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
RMB USD	0	0	0.0%	2	33	-0.94	0	6	-100.0%	121	1,465	-91.7%
KOREAN WON	0	0	0.0%	11	1	10	0	0	0.0%	55	72	-23.6%
TURKISH LIRA	0	0	0.0%	12	0	0	0	0	0.0%	12	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%	234,641	275,179	-0.15	0	0	0.0%	1,064,540	1,387,384	-23.3%
E-MICRO GBP/USD	0	0	0.0%	58,988	49,721	0.19	0	0	0.0%	254,618	217,658	17.0%
E-MICRO USD/CAD	0	0	0.0%	0	7	-1	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%
E-MICRO USD/JPY	0	0	0.0%	0	2	-1	0	0	0.0%	0	4	-100.0%
E-MICRO AUD/USD	0	0	0.0%	60,039	87,468	-0.31	0	0	0.0%	321,952	348,149	-7.5%
MICRO CHF/USD	0	0	0.0%	840	1,337	-0.37	0	0	0.0%	3,593	9,758	-63.2%
E-MICRO JPY/USD	0	0	0.0%	41,769	30,433	0.37	0	0	0.0%	203,482	114,105	78.3%
E-MICRO INR/USD	0	0	0.0%	2,682	1,096	1.45	0	0	0.0%	9,437	2,597	263.4%
FCXRX	0	0	0.0%	1,201	4	299.25	0	0	0.0%	5,403	4	134,975.0%
E-MICRO USD/CNH	0	0	0.0%	0	12	-1	0	0	0.0%	0	60	-100.0%
CHINESE RENMINBI (CNH)	0	0	0.0%	528	1,712	-0.69	0	0	0.0%	5,803	6,761	-14.2%
E-MICRO CAD/USD	0	0	0.0%	17,020	21,582	-0.21	0	0	0.0%	60,367	75,838	-20.4%
INDIAN RUPEE	0	0	0.0%	26,122	9,714	1.69	0	0	0.0%	110,857	42,161	162.9%
USDZAR	0	0	0.0%	0	0	0	0	0	0.0%	0	4	-100.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2017	Open Outcry APR 2016	% CHG	ELEC APR 2017	ELEC APR 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 Options</b>												
AUSTRALIAN DOLLAR	150	375	-60.0%	20,874	129,477	-0.84	2,423	2,478	-2.2%	145,056	549,555	-73.6%
BRITISH POUND	44	5,332	-99.2%	49,259	207,560	-0.76	651	20,851	-96.9%	271,637	829,999	-67.3%
CANADIAN DOLLAR	61	1,644	-96.3%	23,156	122,594	-0.81	1,682	18,225	-90.8%	128,097	677,386	-81.1%
EURO FX	2,533	17,378	-85.4%	259,524	613,287	-0.58	7,757	68,149	-88.6%	891,831	3,217,524	-72.3%
JAPANESE YEN	1,506	6,011	-74.9%	62,626	305,869	-0.8	7,502	32,210	-76.7%	415,149	1,229,904	-66.2%
MEXICAN PESO	140	425	-67.1%	614	1,534	-0.6	249	720	-65.4%	17,506	9,001	94.5%
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	72	-100.0%	468	6,295	-0.93	0	207	-100.0%	4,145	30,542	-86.4%
JAPANESE YEN (EU)	0	0	0.0%	28	577	-0.95	0	0	0.0%	133	2,706	-95.1%
EURO FX (EU)	0	0	0.0%	23	2,742	-0.99	0	0	0.0%	229	15,632	-98.5%
SWISS FRANC (EU)	0	-	-	4	-	-	0	-	-	5	-	-
CANADIAN DOLLAR (EU)	0	0	0.0%	5	22	-0.77	0	0	0.0%	46	1,528	-97.0%
BRITISH POUND (EU)	0	0	0.0%	196	1,093	-0.82	0	0	0.0%	821	6,280	-86.9%
AUSTRALIAN DLR (EU)	0	0	0.0%	0	53	-1	0	0	0.0%	2	970	-99.8%
EUR/USD PQO 2pm Fix	3,587	-	-	479,007	-	-	11,015	-	-	1,529,630	-	-
CAD/USD PQO 2pm Fix	25	-	-	72,066	-	-	1,765	-	-	291,630	-	-
JPY/USD PQO 2pm Fix	1,583	-	-	183,661	-	-	24,810	-	-	816,622	-	-
AUD/USD PQO 2pm Fix	0	-	-	62,439	-	-	1,375	-	-	274,638	-	-
GBP/USD PQO 2pm Fix	10	-	-	107,202	-	-	509	-	-	500,787	-	-
CHF/USD PQO 2pm Fix	0	-	-	1,423	-	-	0	-	-	8,034	-	-
<b>Commodities and Alternative Investments</b>												
<b>Futures</b>												
CORN	30,858	56,431	-45.3%	8,401,782	11,148,349	-0.25	126,947	139,369	-8.9%	27,865,771	30,179,190	-7.7%
SOYBEAN	13,437	48,828	-72.5%	4,338,289	8,046,652	-0.46	57,146	126,724	-54.9%	16,540,752	20,954,996	-21.1%
SOYBEAN MEAL	1,571	6,446	-75.6%	2,293,945	3,181,251	-0.28	9,553	16,538	-42.2%	7,946,713	8,254,595	-3.7%
SOYBEAN OIL	5,447	4,863	12.0%	2,552,428	3,331,500	-0.23	16,143	16,143	0.0%	9,549,635	9,049,228	5.5%
OATS	0	0	0.0%	14,313	25,438	-0.44	77	0	0.0%	55,541	76,969	-27.8%
ROUGH RICE	0	0	0.0%	33,507	40,405	-0.17	0	0	0.0%	92,251	104,414	-11.6%
MINI CORN	0	0	0.0%	9,283	15,834	-0.41	0	0	0.0%	35,525	38,048	-6.6%
MINI SOYBEAN	0	0	0.0%	12,546	47,239	-0.73	0	0	0.0%	68,497	88,945	-23.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2017	Open Outcry APR 2016	% CHG	ELEC APR 2017	ELEC APR 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>Futures</b>												
MINI WHEAT	0	0	0.0%	5,557	8,279	-0.33	0	0	0.0%	21,717	22,211	-2.2%
LIVE CATTLE	2,628	2,887	-9.0%	1,253,355	1,007,478	0.24	13,142	17,100	-23.1%	5,047,160	4,261,638	18.4%
FEEDER CATTLE	168	18	833.3%	355,511	234,275	0.52	297	62	379.0%	1,090,835	868,947	25.5%
LEAN HOGS	2,034	1,618	25.7%	682,839	587,601	0.16	9,616	8,390	14.6%	3,221,080	2,685,439	19.9%
LUMBER	0	0	0.0%	21,607	15,888	0.36	0	0	0.0%	67,762	60,250	12.5%
MILK	3	129	-97.7%	20,260	22,447	-0.1	584	145	302.8%	108,720	83,237	30.6%
MLK MID	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NFD MILK	0	0	0.0%	2,290	4,027	-0.43	0	0	0.0%	21,478	23,114	-7.1%
BUTTER CS	0	0	0.0%	2,683	3,188	-0.16	0	0	0.0%	11,873	13,668	-13.1%
CLASS IV MILK	10	0	0.0%	421	1,464	-0.71	60	0	0.0%	5,331	2,914	82.9%
DRY WHEY	0	0	0.0%	1,566	731	1.14	0	0	0.0%	10,149	4,470	127.0%
GSCI EXCESS RETURN FUT	0	0	0.0%	0	0	0	0	0	0.0%	327	409	-20.0%
GOLDMAN SACHS	0	0	0.0%	32,392	26,818	0.21	0	0	0.0%	138,120	109,800	25.8%
HDD WEATHER	0	0	0.0%	0	0	0	0	0	0.0%	50	78	-35.9%
CDD WEATHER	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
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%	4	16	-0.75	0	0	0.0%	51	35	45.7%
DOW-UBS COMMOD INDEX	0	0	0.0%	57,572	25,529	1.26	0	0	0.0%	213,519	130,010	64.2%
COTTON	0	0	0.0%	1	14	-0.93	0	0	0.0%	4	294	-98.6%
COCOA TAS	0	0	0.0%	3	182	-0.98	0	0	0.0%	53	870	-93.9%
COFFEE	0	0	0.0%	20	6	2.33	0	0	0.0%	20	72	-72.2%
SUGAR 11	0	0	0.0%	0	60	-1	0	0	0.0%	18	242	-92.6%
USD CRUDE PALM OIL	0	-	-	0	-	-	0	-	-	0	-	-
CASH-SETTLED CHEESE	0	0	0.0%	8,671	8,588	0.01	0	0	0.0%	44,999	42,210	6.6%
FERTILIZER PRODUCS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CHI WHEAT	15,262	23,241	-34.3%	3,253,066	3,559,667	-0.09	76,606	72,277	6.0%	11,016,298	10,586,841	4.1%
DJ_UBS ROLL SELECT INDEX	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
KC WHEAT	1,942	1,492	30.2%	1,120,973	962,942	0.16	4,168	6,389	-34.8%	3,769,026	2,909,082	29.6%
Intercommodity Spread	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 APR 2017	Open Outcry APR 2016	% CHG	ELEC APR 2017	ELEC APR 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>Futures</b>												
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	518,207	816,694	-36.5%	1,302,650	1,636,088	-0.2	2,098,291	2,368,800	-11.4%	5,004,911	4,405,278	13.6%
SOYBEAN	242,569	687,896	-64.7%	805,114	2,192,249	-0.63	1,294,469	1,838,645	-29.6%	3,704,552	5,290,087	-30.0%
SOYBEAN MEAL	42,771	98,633	-56.6%	109,319	242,102	-0.55	226,913	260,126	-12.8%	473,893	542,732	-12.7%
SOYBEAN OIL	86,942	90,412	-3.8%	81,030	125,603	-0.35	340,270	374,015	-9.0%	359,453	420,340	-14.5%
SOYBEAN CRUSH	105	1,134	-90.7%	0	0	0	295	3,022	-90.2%	0	0	0.0%
OATS	481	937	-48.7%	562	819	-0.31	2,622	2,454	6.8%	2,115	2,422	-12.7%
ROUGH RICE	1,024	531	92.8%	1,057	1,175	-0.1	2,390	1,906	25.4%	3,253	6,547	-50.3%
WHEAT	486	0	0.0%	125	0	0	547	0	0.0%	127	0	0.0%
LIVE CATTLE	52,946	163,573	-67.6%	222,874	256,705	-0.13	231,151	609,745	-62.1%	826,255	997,958	-17.2%
FEEDER CATTLE	4,796	3,802	26.1%	43,324	37,980	0.14	13,336	17,287	-22.9%	128,862	124,071	3.9%
LEAN HOGS	16,017	33,654	-52.4%	155,857	105,983	0.47	93,558	133,044	-29.7%	609,994	431,011	41.5%
LUMBER	5	46	-89.1%	1,628	853	0.91	30	51	-41.2%	5,024	3,878	29.6%
MILK	11,810	8,587	37.5%	18,280	11,947	0.53	50,902	38,425	32.5%	95,371	48,458	96.8%
MLK MID	19	6	216.7%	0	0	0	329	129	155.0%	0	0	0.0%
NFD MILK	1,197	2,421	-50.6%	925	549	0.68	7,777	12,101	-35.7%	11,357	4,003	183.7%
BUTTER CS	826	964	-14.3%	177	165	0.07	3,761	5,191	-27.5%	989	869	13.8%
CLASS IV MILK	148	249	-40.6%	1,542	149	9.35	1,750	453	286.3%	4,414	896	392.6%
DRY WHEY	369	226	63.3%	237	0	0	1,384	415	233.5%	507	19	2,568.4%
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%
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%	0	18	-1	0	0	0.0%	24	18	33.3%
CORN NEARBY+2 CAL SPRD	100	3,302	-97.0%	6	0	0	2,525	7,559	-66.6%	11	56	-80.4%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2017	Open Outcry APR 2016	% CHG	ELEC APR 2017	ELEC APR 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>												
SOYBN NEARBY+2 CAL SPRD	200	0	0.0%	0	0	0	360	350	2.9%	600	0	0.0%
WHEAT NEARBY+2 CAL SPRD	705	2,495	-71.7%	693	0	0	3,220	19,937	-83.8%	1,930	765	152.3%
JULY-DEC CORN CAL SPRD	4,212	11,720	-64.1%	0	102	-1	7,512	23,765	-68.4%	0	153	-100.0%
DEC-JULY WHEAT CAL SPRD	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
JULY-NOV SOYBEAN CAL SPR	9,298	22,700	-59.0%	20	139	-0.86	51,013	29,693	71.8%	1,184	238	397.5%
JULY-DEC WHEAT CAL SPRD	0	8,535	-100.0%	0	100	-1	1,150	19,030	-94.0%	0	100	-100.0%
JULY-JULY WHEAT CAL SPRD	0	230	-100.0%	0	0	0	0	230	-100.0%	0	0	0.0%
NOV-NOV SOYBEAN CAL SPR	12	79	-84.8%	0	0	0	76	208	-63.5%	0	0	0.0%
SOYMEAL NEARBY+2 CAL SPR	0	100	-100.0%	0	0	0	0	2,575	-100.0%	0	0	0.0%
LV CATL CSO	200	0	0.0%	0	0	0	1,055	25	4,120.0%	0	0	0.0%
JULY-DEC SOY OIL CAL SPRD	0	0	0.0%	0	0	0	420	0	0.0%	10	0	0.0%
NOV-JULY SOYBEAN CAL SPR	0	0	0.0%	0	0	0	25	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	3,230	2,297	40.6%	3,770	2,606	0.45	16,279	12,061	35.0%	14,001	11,416	22.6%
DEC-JULY CORN CAL SPRD	0	0	0.0%	0	0	0	3,900	0	0.0%	0	0	0.0%
WHEAT-CORN IC SO	760	121	528.1%	0	0	0	3,205	5,357	-40.2%	6	0	0.0%
DEC-DEC CORN CAL SPRD	257	1,033	-75.1%	0	0	0	1,447	2,806	-48.4%	0	5	-100.0%
AUG-NOV SOYBEAN CAL SPR	0	-	-	0	-	-	0	-	-	0	-	-
MAR-DEC CORN CAL SPRD	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
CHI WHEAT	165,665	230,287	-28.1%	448,699	631,555	-0.29	630,609	802,114	-21.4%	1,811,532	1,924,711	-5.9%
MAR-JULY CORN CAL SPRD	0	0	0.0%	0	0	0	0	2,416	-100.0%	0	4	-100.0%
KC WHEAT	17,254	20,568	-16.1%	23,804	22,109	0.08	50,342	72,576	-30.6%	90,786	57,906	56.8%
MAR-JULY WHEAT CAL SPRD	0	0	0.0%	0	0	0	1,293	1,650	-21.6%	76	0	0.0%
AUG-DEC SOYBEAN MEAL CS	0	-	-	0	-	-	0	-	-	0	-	-
Intercommodity Spread	0	0	0.0%	0	0	0	201	1,850	-89.1%	0	0	0.0%
SEP-DEC SOYBEAN MEAL CSC	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
<b>Ags Futures</b>												
WHEAT	0	-	-	11,947	-	-	0	-	-	42,548	-	-

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2017	Open Outcry APR 2016	% CHG	ELEC APR 2017	ELEC APR 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 Options</b>												
WHEAT	0	-	-	0	-	-	0	-	-	10	-	-
<b>Foreign Exchange Futures</b>												
CHILEAN PESO	0	0	0.0%	380	0	0	0	6	-100.0%	909	4	22,625.0%
<b>TOTAL FUTURES GROUP</b>												
Interest Rate Futures	874,648	557,992	56.7%	103,771,550	85,864,172	20.9%	3,591,157	3,285,294	9.3%	510,679,272	448,761,257	13.8%
Equity Index Futures	26,001	53,565	-51.5%	35,863,092	44,847,073	-20.0%	300,908	456,246	-34.0%	161,033,197	220,974,343	-27.1%
Metals Futures	0	8,398	-100.0%	9,222,969	8,046,979	14.6%	0	53,379	-100.0%	37,297,104	31,463,643	18.5%
Energy Futures	0	2,386	-100.0%	36,833,592	40,433,173	-8.9%	0	16,786	-100.0%	158,522,997	157,421,503	0.7%
FX Futures	1,690	1,833	-7.8%	13,451,950	14,581,483	-7.7%	10,736	7,284	47.4%	63,868,938	66,211,297	-3.5%
Commodities and Alternative Inve	73,360	145,953	-49.7%	24,474,884	32,305,868	-24.2%	314,339	403,137	-22.0%	86,943,325	90,552,366	-4.0%
Ags Futures	0	-	-	11,947	-	-	0	-	-	42,548	-	-
Foreign Exchange Futures	0	0	0.0%	380	0	0.0%	0	6	-100.0%	909	4	#####
<b>TOTAL FUTURES</b>	<b>975,699</b>	<b>770,127</b>	<b>26.7%</b>	<b>223,630,364</b>	<b>226,078,748</b>	<b>-1.1%</b>	<b>4,217,140</b>	<b>4,222,132</b>	<b>-0.1%</b>	<b>1,018,388,290</b>	<b>1,015,384,413</b>	<b>0.3%</b>
<b>TOTAL OPTIONS GROUP</b>												
Equity Index Options	904,961	983,700	-8.0%	12,245,997	10,442,614	17.3%	4,321,166	4,789,642	-9.8%	53,516,546	45,716,631	17.1%
Interest Rate Options	22,982,806	15,510,654	48.2%	23,526,709	11,394,890	106.5%	96,738,281	90,061,716	7.4%	85,827,280	57,183,428	50.1%
Metals Options	0	51,814	-100.0%	747,886	656,948	13.8%	0	369,337	-100.0%	2,875,997	2,962,726	-2.9%
Energy Options	0	40,948	-100.0%	4,227,564	3,648,075	15.9%	0	178,655	-100.0%	16,372,899	14,124,459	15.9%
FX Options	9,639	31,237	-69.1%	1,322,575	1,391,103	-4.9%	59,738	142,840	-58.2%	5,295,998	6,571,027	-19.4%
Commodities and Alternative Inve	1,182,611	2,213,232	-46.6%	3,221,693	5,268,996	-38.9%	5,144,407	6,670,011	-22.9%	13,151,237	14,273,941	-7.9%
Ags Options	0	-	-	0	-	-	0	-	-	10	-	-
<b>TOTAL OPTIONS</b>	<b>25,080,017</b>	<b>18,831,585</b>	<b>33.2%</b>	<b>45,292,424</b>	<b>32,802,626</b>	<b>38.1%</b>	<b>106,263,592</b>	<b>102,212,201</b>	<b>4.0%</b>	<b>177,039,967</b>	<b>140,832,212</b>	<b>25.7%</b>

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## CME Group Exchange Volume Comparison Report - Monthly

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<b>TOTAL COMBINED</b>												
Interest Rate	23,857,454	16,068,646	48.5%	127,298,259	97,259,062	30.9%	100,329,438	93,347,010	7.5%	596,506,552	505,944,685	17.9%
Equity Index	930,962	1,037,265	-10.2%	48,109,089	55,289,687	-13.0%	4,622,074	5,245,888	-11.9%	214,549,743	266,690,974	-19.6%
Metals	0	60,212	-100.0%	9,970,855	8,703,927	14.6%	0	422,716	-100.0%	40,173,101	34,426,369	16.7%
Energy	0	43,334	-100.0%	41,061,156	44,081,248	-6.9%	0	195,441	-100.0%	174,895,896	171,545,962	2.0%
FX	11,329	33,070	-65.7%	14,774,525	15,972,586	-7.5%	70,474	150,124	-53.1%	69,164,936	72,782,324	-5.0%
Commodities and Alternative Inve	1,255,971	2,359,185	-46.8%	27,696,577	37,574,864	-26.3%	5,458,746	7,073,148	-22.8%	100,094,562	104,826,307	-4.5%
Ags	0	-	-	11,947	-	-	0	-	-	42,558	-	-
Foreign Exchange	0	0	0.0%	380	0	0.0%	0	6	-100.0%	909	4	#####
<b>GRAND TOTAL</b>	<b>26,055,716</b>	<b>19,601,712</b>	<b>32.9%</b>	<b>268,922,788</b>	<b>258,881,374</b>	<b>3.9%</b>	<b>110,480,732</b>	<b>106,434,333</b>	<b>3.8%</b>	<b>1,195,428,257</b>	<b>1,156,216,625</b>	<b>3.4%</b>

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