



## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2016	Open Outcry DEC 2015	% CHG	ELEC DEC 2016	ELEC DEC 2015	% CHG	Open Outcry Y.T.D 2016	Open Outcry Y.T.D 2015	% CHG	ELEC Y.T.D 2016	ELEC Y.T.D 2015	% CHG
<b>Interest Rate Futures</b>												
30-YR BOND	10,763	25,797	-58.3%	4,479,647	4,399,148	0.02	227,487	809,982	-71.9%	68,749,267	69,143,513	-0.6%
10-YR NOTE	115,445	122,746	-5.9%	22,448,469	18,871,497	0.19	1,720,560	3,169,881	-45.7%	339,882,260	315,861,938	7.6%
5-YR NOTE	11,845	23,902	-50.4%	12,937,454	11,192,507	0.16	329,902	1,728,501	-80.9%	191,823,956	180,179,176	6.5%
2-YR NOTE	724	620	16.8%	4,490,799	4,495,892	0	10,277	896,195	-98.9%	77,009,529	77,813,862	-1.0%
FED FUND	32	0	0.0%	2,044,792	2,252,571	-0.09	257	8,456	-97.0%	33,092,850	20,059,425	65.0%
EUROYEN	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
EURODOLLARS	609,682	660,880	-7.7%	60,044,347	44,568,828	0.35	6,844,130	6,322,274	8.3%	639,593,481	574,032,872	11.4%
5-YR SWAP RATE	0	0	0.0%	90,557	98,340	-0.08	0	0	0.0%	733,786	668,631	9.7%
2-YR SWAP RATE	0	0	0.0%	0	5,187	-1	0	35	-100.0%	4,418	31,307	-85.9%
10-YR SWAP RATE	0	0	0.0%	65,670	89,206	-0.26	0	2,652	-100.0%	558,419	635,216	-12.1%
7-YR SWAP	0	0	0.0%	0	1,077	-1	0	0	0.0%	3,052	4,932	-38.1%
1-MONTH EURODOLLAR	0	0	0.0%	4,604	6,458	-0.29	0	0	0.0%	17,487	62,422	-72.0%
ULTRA T-BOND	0	55	-100.0%	1,628,454	1,491,067	0.09	776	424,266	-99.8%	26,620,407	27,004,882	-1.4%
Ultra 10-Year Note	0	-	-	1,739,948	-	-	28	-	-	16,184,129	-	-
30-YR SWAP RATE	0	0	0.0%	2,565	2,292	0.12	0	61	-100.0%	20,826	33,192	-37.3%
2YR BUNDLE	0	0	0.0%	0	0	0	0	0	0.0%	0	595	-100.0%
3YR BUNDLE	0	0	0.0%	0	0	0	0	0	0.0%	0	168	-100.0%
EURO 5YR BUNDLE	0	0	0.0%	0	0	0	0	0	0.0%	0	38	-100.0%
<b>Interest Rate Options</b>												
30-YR BOND	175,362	298,819	-41.3%	1,228,382	1,156,241	0.06	3,493,894	5,589,631	-37.5%	17,576,244	15,399,497	14.1%
10-YR NOTE	2,494,354	2,158,087	15.6%	7,169,803	4,028,519	0.78	28,205,137	35,154,311	-19.8%	68,494,550	60,896,294	12.5%
5-YR NOTE	625,847	867,741	-27.9%	1,045,605	1,442,621	-0.28	7,704,451	7,829,271	-1.6%	15,785,009	14,257,363	10.7%
2-YR NOTE	39,862	46,381	-14.1%	36,447	59,622	-0.39	524,545	1,002,927	-47.7%	1,145,855	1,405,091	-18.4%
FED FUND	1,000	3,231	-69.0%	305	1,304	-0.77	79,803	311,847	-74.4%	14,936	27,904	-46.5%
FLEX 30-YR BOND	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
EURODOLLARS	6,728,851	7,663,105	-12.2%	2,246,552	2,183,319	0.03	117,272,028	83,864,301	39.8%	36,484,015	18,704,308	95.1%
EURO MIDCURVE	10,980,373	8,353,601	31.4%	4,293,940	3,235,518	0.33	86,604,766	95,029,880	-8.9%	37,533,025	27,823,671	34.9%
ULTRA T-BOND	282	2,430	-88.4%	973	2,369	-0.59	29,515	49,725	-40.6%	55,238	55,665	-0.8%
Ultra 10-Year Note	0	-	-	1,375	-	-	10,675	-	-	22,113	-	-

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<b>Equity Index Futures</b>												
\$25 DJ	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
DJIA	0	0	0.0%	0	0	0	0	10,422	-100.0%	0	1,413	-100.0%
MINI \$5 DOW	0	0	0.0%	2,922,816	3,717,383	-0.21	0	0	0.0%	42,438,213	40,519,965	4.7%
E-MINI S&P500	0	0	0.0%	35,985,492	43,175,295	-0.17	0	0	0.0%	471,364,666	428,849,102	9.9%
S&P 500	210,852	249,219	-15.4%	5,327	9,136	-0.42	1,386,412	1,754,564	-21.0%	113,823	184,321	-38.2%
S&P 600 SMALLCAP EMINI	0	0	0.0%	0	0	0	0	0	0.0%	0	1	-100.0%
E-MINI MIDCAP	0	0	0.0%	503,729	596,385	-0.16	0	0	0.0%	5,172,822	5,247,362	-1.4%
S&P 400 MIDCAP	0	0	0.0%	0	0	0	0	39	-100.0%	0	0	0.0%
S&P 500 GROWTH	0	0	0.0%	59	54	0.09	0	0	0.0%	290	401	-27.7%
S&P 500/VALUE	0	0	0.0%	4,065	518	6.85	0	0	0.0%	34,609	1,005	3,343.7%
E-MINI RUSSELL 1000	0	0	0.0%	984	2,003	-0.51	0	0	0.0%	5,213	2,788	87.0%
E-MINI NASDAQ 100	0	0	0.0%	4,394,390	6,245,952	-0.3	0	0	0.0%	65,005,125	66,874,880	-2.8%
NASDAQ	0	0	0.0%	0	0	0	0	23,063	-100.0%	0	2,120	-100.0%
NIKKEI 225 (\$) STOCK	0	0	0.0%	307,985	412,710	-0.25	0	0	0.0%	4,286,921	4,231,572	1.3%
NIKKEI 225 (YEN) STOCK	0	0	0.0%	1,053,129	1,237,111	-0.15	0	0	0.0%	14,778,431	13,316,487	11.0%
DJ US REAL ESTATE	0	0	0.0%	18,127	12,263	0.48	0	0	0.0%	145,219	117,648	23.4%
NASDAQ BIOTECH	0	0	0.0%	0	0	0	0	0	0.0%	18	0	0.0%
E-MICRO NIFTY	0	0	0.0%	0	0	0	0	0	0.0%	0	1,018	-100.0%
S&P CONSUMER STAPLES SE	0	0	0.0%	14,182	8,445	0.68	0	0	0.0%	97,722	45,849	113.1%
S&P HEALTH CARE SECTOR	0	0	0.0%	11,029	8,212	0.34	0	0	0.0%	100,478	113,859	-11.8%
S&P TECHNOLOGY SECTOR	0	0	0.0%	6,667	4,330	0.54	0	0	0.0%	59,488	34,503	72.4%
S&P INDUSTRIAL SECTOR	0	0	0.0%	11,831	3,482	2.4	0	0	0.0%	46,374	33,889	36.8%
S&P CONSUMER DSCRTNRY S	0	0	0.0%	11,094	5,494	1.02	0	0	0.0%	69,221	68,645	0.8%
S&P UTILITIES SECTOR	0	0	0.0%	18,775	15,315	0.23	0	0	0.0%	155,600	111,476	39.6%
S&P FINANCIAL SECTOR	0	0	0.0%	18,275	7,416	1.46	0	0	0.0%	101,289	35,522	185.1%
S&P ENERGY SECTOR	0	0	0.0%	14,608	7,020	1.08	0	0	0.0%	125,026	83,107	50.4%
S&P MATERIALS SECTOR	0	0	0.0%	10,770	3,540	2.04	0	0	0.0%	63,704	37,785	68.6%
E-MINI RUSSELL 1000 GROWT	0	0	0.0%	669	1,327	-0.5	0	0	0.0%	3,415	1,782	91.6%
FT-SE 100	0	0	0.0%	1,799	1,970	-0.09	0	0	0.0%	20,867	4,525	361.1%
IBOVESPA INDEX	0	0	0.0%	947	635	0.49	0	0	0.0%	8,878	5,090	74.4%
E-MINI RUSSELL 1000 VALUE	0	0	0.0%	946	1,204	-0.21	0	0	0.0%	5,390	1,729	211.7%
NIFTY 50	0	0	0.0%	1,923	4,037	-0.52	0	0	0.0%	117,092	18,485	533.4%

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<b>Equity Index Options</b>												
DJIA	0	0	0.0%	0	0	0	0	32	-100.0%	0	0	0.0%
MINI \$5 DOW	0	0	0.0%	10,466	10,285	0.02	0	0	0.0%	127,484	138,575	-8.0%
E-MINI S&P500	0	0	0.0%	4,802,448	6,630,687	-0.28	110,315	226,100	-51.2%	58,777,508	77,541,904	-24.2%
S&P 500	268,782	865,366	-68.9%	0	0	0	5,672,245	9,099,682	-37.7%	0	106	-100.0%
E-MINI MIDCAP	0	0	0.0%	0	0	0	0	0	0.0%	17	37	-54.1%
E-MINI NASDAQ 100	0	0	0.0%	162,656	214,548	-0.24	0	0	0.0%	2,568,059	1,535,576	67.2%
NASDAQ	0	0	0.0%	0	0	0	0	30	-100.0%	0	0	0.0%
EOM S&P 500	172,257	101,845	69.1%	0	0	0	2,069,567	1,280,558	61.6%	0	0	0.0%
EOM EMINI S&P	0	0	0.0%	2,283,508	1,284,031	0.78	0	1,500	-100.0%	20,898,070	13,276,337	57.4%
EOW1 S&P 500	37,132	6,886	439.2%	0	0	0	706,582	381,560	85.2%	0	0	0.0%
EOW1 EMINI S&P 500	0	0	0.0%	714,471	595,307	0.2	0	3,000	-100.0%	11,710,684	11,549,239	1.4%
EOW2 S&P 500	114,541	102,774	11.4%	0	0	0	1,539,741	952,275	61.7%	0	0	0.0%
EOW2 EMINI S&P 500	0	0	0.0%	886,740	1,294,999	-0.32	0	0	0.0%	12,992,775	12,558,487	3.5%
EOW4 EMINI S&P 500	0	0	0.0%	980,775	965,759	0.02	0	4,500	-100.0%	12,923,810	11,740,431	10.1%
EOW3 S&P 500	286,878	-	-	0	-	-	3,156,223	-	-	0	-	-
EOW3 EMINI S&P 500	0	-	-	2,822,301	-	-	27,000	-	-	27,086,276	-	-

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<b>Metals Futures</b>												
COMEX GOLD	391	5,411	-92.8%	3,359,200	2,588,229	0.3	97,984	312,633	-68.7%	54,523,856	39,354,106	38.5%
E-MINI SILVER	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
COMEX MINY COPPER	0	0	0.0%	559	383	0.46	0	0	0.0%	6,675	9,171	-27.2%
COMEX SILVER	203	896	-77.3%	1,109,831	839,441	0.32	10,541	81,389	-87.0%	17,741,782	12,949,579	37.0%
COMEX COPPER	198	0	0.0%	1,423,183	1,032,323	0.38	1,540	260,899	-99.4%	21,299,765	16,553,370	28.7%
NYMEX HOT ROLLED STEEL	0	0	0.0%	176	1	175	0	0	0.0%	4,988	1,235	303.9%
NYMEX PLATINUM	11	0	0.0%	408,807	388,346	0.05	89	235	-62.1%	3,831,180	3,467,754	10.5%
URANIUM	0	0	0.0%	288	558	-0.48	0	0	0.0%	1,283	2,508	-48.8%
PALLADIUM	0	0	0.0%	85,733	62,751	0.37	95	382	-75.1%	1,342,462	1,261,550	6.4%
E-MICRO GOLD	0	0	0.0%	59,280	51,804	0.14	0	0	0.0%	976,950	407,643	139.7%
GOLD	0	-	-	0	-	-	0	-	-	2	-	-
ALUMINUM	0	0	0.0%	587	1,322	-0.56	0	0	0.0%	12,305	5,530	122.5%
COPPER	0	0	0.0%	0	0	0	0	0	0.0%	0	1	-100.0%
SILVER	0	0	0.0%	6,475	4,569	0.42	0	0	0.0%	101,937	89,934	13.3%
Gold Kilo	0	0	0.0%	3,725	7,596	-0.51	0	0	0.0%	56,157	51,336	9.4%
COMEX E-Mini SILVER	0	0	0.0%	1,011	523	0.93	0	0	0.0%	14,985	9,823	52.6%
COMEX E-Mini GOLD	0	0	0.0%	7,266	4,236	0.72	0	0	0.0%	130,190	66,758	95.0%
Aluminium MW Trans Prem Platts	0	0	0.0%	19	107	-0.82	0	0	0.0%	5,244	6,688	-21.6%
LNDN ZINC	0	0	0.0%	3	0	0	0	0	0.0%	230	386	-40.4%
METALS	0	-	-	0	-	-	0	-	-	25	-	-
FERROUS PRODUCTS	0	0	0.0%	0	0	0	0	0	0.0%	10	8	25.0%
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%	731	622	0.18	0	0	0.0%	7,365	1,515	386.1%
IRON ORE 58 CHINA TSI FUTU	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%

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<b>Metals Options</b>												
COMEX GOLD	4,939	65,322	-92.4%	550,293	359,678	0.53	618,270	1,011,165	-38.9%	7,346,031	5,067,049	45.0%
COMEX SILVER	2,925	5,038	-41.9%	67,016	57,326	0.17	89,914	140,040	-35.8%	1,174,412	973,804	20.6%
COMEX COPPER	9	15	-40.0%	1,441	1,329	0.08	1,403	8,510	-83.5%	29,705	18,501	60.6%
NYMEX PLATINUM	130	45	188.9%	777	607	0.28	2,559	2,306	11.0%	8,900	6,947	28.1%
PALLADIUM	0	0	0.0%	252	111	1.27	522	1,216	-57.1%	3,695	3,353	10.2%
SHORT TERM GOLD	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
SHORT TERM	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
GOLD	0	370	-100.0%	6,346	1,088	4.83	666	3,698	-82.0%	55,927	18,050	209.8%
COPPER	0	0	0.0%	0	0	0	0	0	0.0%	0	10	-100.0%
SILVER	0	0	0.0%	478	0	0	0	10	-100.0%	2,705	1,146	136.0%
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	0	-	0	0.0%	-	0	0.0%
HOT ROLLED COIL STEEL PUT	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
<b>Energy Futures</b>												
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%	93	0	0	0	0	0.0%	1,195	61	1,859.0%
NORTHWEST ROCKIES BASIS	0	0	0.0%	478	0	0	0	0	0.0%	4,326	0	0.0%
HEATING OIL VS ICE GASOIL	0	0	0.0%	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%	21,704	17,462	0.24	800	1,013	-21.0%	245,222	77,984	214.5%
HTG OIL	0	0	0.0%	0	0	0	36	0	0.0%	0	0	0.0%
LTD NAT GAS	0	0	0.0%	93,311	66,147	0.41	0	549	-100.0%	892,542	779,036	14.6%
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%

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	Open Outcry DEC 2016	Open Outcry DEC 2015	% CHG	ELEC DEC 2016	ELEC DEC 2015	% CHG	Open Outcry Y.T.D 2016	Open Outcry Y.T.D 2015	% CHG	ELEC Y.T.D 2016	ELEC Y.T.D 2015	% CHG
<b>Energy Futures</b>												
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%	0	0	0	0	0	0.0%	0	0	0.0%
BRENT OIL LAST DAY	0	0	0.0%	2,078,257	2,079,784	0	344	0	0.0%	23,488,440	25,995,413	-9.6%
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%	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%	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%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2016	Open Outcry DEC 2015	% CHG	ELEC DEC 2016	ELEC DEC 2015	% CHG	Open Outcry Y.T.D 2016	Open Outcry Y.T.D 2015	% CHG	ELEC Y.T.D 2016	ELEC Y.T.D 2015	% CHG
<b>Energy Futures</b>												
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%
PJM DPL DA PEAK	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
PJM DPL DA OFF-PEAK	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
PJM EASTERNH DA PEAK	-	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 PEPCO DA PEAK	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
PJM PEPCO DA OFF-PEAK	0	0	0.0%	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%
TENNESSEE 500 LEG NG INDE	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
MICHCON NG INDEX SWAP	0	-	-	0	-	-	0	-	-	0	-	-
CIG ROCKIES NG INDEX SWA	0	-	-	0	-	-	0	-	-	0	-	-
TENNESSEE 500 LEG NG SWIN	-	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	0	-	0	0.0%	-	0	0.0%
JET FUEL CARGOES CIF NEW	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
ULSD 10PPM CIF NW BALMO S	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
ULSD 10PPM CIF MED BALMO	0	-	-	0	-	-	0	-	-	0	-	-
PERMIAN BASIS 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 DEC 2016	Open Outcry DEC 2015	% CHG	ELEC DEC 2016	ELEC DEC 2015	% CHG	Open Outcry Y.T.D 2016	Open Outcry Y.T.D 2015	% CHG	ELEC Y.T.D 2016	ELEC Y.T.D 2015	% CHG
<b>Energy Futures</b>												
Tetco ELA Basis	0	0	0.0%	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%
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	157	102	53.9%	3,033,469	3,095,605	-0.02	1,155	5,095	-77.3%	36,223,096	33,530,754	8.0%
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%
PREMIUM UNLD 10PPM CARG	-	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%	5	10	-0.5	0	0	0.0%	105	98	7.1%
WAHA BASIS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MINY NATURAL GAS	0	0	0.0%	48,392	32,852	0.47	0	0	0.0%	338,981	330,199	2.7%
SINGAPORE GASOIL SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	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%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2016	Open Outcry DEC 2015	% CHG	ELEC DEC 2016	ELEC DEC 2015	% CHG	Open Outcry Y.T.D 2016	Open Outcry Y.T.D 2015	% CHG	ELEC Y.T.D 2016	ELEC Y.T.D 2015	% CHG
<b>Energy Futures</b>												
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	-	-
BRENT CFD(PLATTS) VS FRNT	-	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%
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	-	-
COLUMB GULF MAINLINE NG B	0	0	0.0%	0	0	0	0	0	0.0%	122	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%	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%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2016	Open Outcry DEC 2015	% CHG	ELEC DEC 2016	ELEC DEC 2015	% CHG	Open Outcry Y.T.D 2016	Open Outcry Y.T.D 2015	% CHG	ELEC Y.T.D 2016	ELEC Y.T.D 2015	% CHG
<b>Energy Futures</b>												
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%
NEPOOL MAINE 5MW D AH PK	-	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%
NEPOOL MAINE 5MW D AH O E	-	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	25	7	257.1%	2,983,323	3,116,202	-0.04	620	3,174	-80.5%	42,115,962	37,034,838	13.7%
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%	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%	228,651	229,374	0	0	0	0.0%	3,380,972	3,149,495	7.3%
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	103	190	-45.8%	9,427,428	7,673,807	0.23	1,775	47,699	-96.3%	94,599,257	78,544,181	20.4%
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	1,069	105	918.1%	0	0	0.0%
HENRY HUB BASIS SWAP	0	0	0.0%	579	0	0	0	0	0.0%	1,617	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	440	3,919	-88.8%	23,275,336	17,461,476	0.33	20,553	154,857	-86.7%	268,962,925	195,191,605	37.8%
RBOB CALENDAR SWAP	0	0	0.0%	0	0	0	0	12	-100.0%	0	2	-100.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2016	Open Outcry DEC 2015	% CHG	ELEC DEC 2016	ELEC DEC 2015	% CHG	Open Outcry Y.T.D 2016	Open Outcry Y.T.D 2015	% CHG	ELEC Y.T.D 2016	ELEC Y.T.D 2015	% CHG
<b>Energy Futures</b>												
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%	74	195	-0.62	0	0	0.0%	11,087	8,826	25.6%
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%	0	0	0	0	0	0.0%	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%
GASOLINE UP-DOWN (ARGUS)	-	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%
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%	2	6	-0.67	0	0	0.0%	51	57	-10.5%
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	0	0.0%	0	9	-1	45	170	-73.5%	12	20	-40.0%
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%	149	0	0	0	0	0.0%	1,188	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%	31	0	0.0%
PGE&E CITYGATE	-	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%	366	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%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2016	Open Outcry DEC 2015	% CHG	ELEC DEC 2016	ELEC DEC 2015	% CHG	Open Outcry Y.T.D 2016	Open Outcry Y.T.D 2015	% CHG	ELEC Y.T.D 2016	ELEC Y.T.D 2015	% CHG
<b>Energy Futures</b>												
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	-	-
HENRY HUB INDEX SWAP FUT	0	0	0.0%	0	0	0	0	0	0.0%	0	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%	112	0	0	0	0	0.0%	1,114	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%	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%
NY HARBOR RESIDUAL FUEL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MICHIGAN HUB PEAK MONTH	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
MICHIGAN HUB OFF-PEAK MO	-	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	-	-
NGPL TEXOK SWING SWAP	-	0	0.0%	-	0	0	-	0	0.0%	-	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%	0	21	-100.0%
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%	0	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%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2016	Open Outcry DEC 2015	% CHG	ELEC DEC 2016	ELEC DEC 2015	% CHG	Open Outcry Y.T.D 2016	Open Outcry Y.T.D 2015	% CHG	ELEC Y.T.D 2016	ELEC Y.T.D 2015	% CHG
<b>Energy Futures</b>												
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	832	-100.0%	0	0	0	92	21,780	-99.6%	0	2	-100.0%
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	0	-	0	0.0%	-	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%
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%	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%	428	0	0	0	0	0.0%	2,358	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 CALEND	0	0	0.0%	0	0	0	0	0	0.0%	3	2	50.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2016	Open Outcry DEC 2015	% CHG	ELEC DEC 2016	ELEC DEC 2015	% CHG	Open Outcry Y.T.D 2016	Open Outcry Y.T.D 2015	% CHG	ELEC Y.T.D 2016	ELEC Y.T.D 2015	% CHG
<b>Energy Futures</b>												
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%	115,939	99,904	0.16	1,472	236	523.7%	2,166,880	701,379	208.9%
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%	0	0	0	0	0	0.0%	0	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 JET FUEL (ARGUS) VS HEA	-	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%
MISO 5MW PEAK	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
MISO 5MW OFF PEAK	-	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	0	0	0	0	0.0%	225	1,212	-81.4%
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%	12	4	2	0	0	0.0%	170	143	18.9%
EUROPEAN GASOIL (ICE)	0	0	0.0%	11,179	321,640	-0.97	0	0	0.0%	1,496,787	740,183	102.2%
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%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2016	Open Outcry DEC 2015	% CHG	ELEC DEC 2016	ELEC DEC 2015	% CHG	Open Outcry Y.T.D 2016	Open Outcry Y.T.D 2015	% CHG	ELEC Y.T.D 2016	ELEC Y.T.D 2015	% CHG
<b>Energy Futures</b>												
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%	0	20	-100.0%
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%
CRUDE OIL LAST DAY	-	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	-	-
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%	0	0	0.0%
RBOB CRACK SPREAD BALMO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CARBON EUA EMISSIONS EUR	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
DIESEL 10PPM BARGES FOB B	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
EURO 3.5% FUEL OIL M CRK	-	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%	0	0	0.0%
PJM DUQUS 5MW D AH O PK	0	0	0.0%	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%
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%	0	0	0.0%
ELECTRICITY 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 DEC 2016	Open Outcry DEC 2015	% CHG	ELEC DEC 2016	ELEC DEC 2015	% CHG	Open Outcry Y.T.D 2016	Open Outcry Y.T.D 2015	% CHG	ELEC Y.T.D 2016	ELEC Y.T.D 2015	% CHG
<b>Energy Futures</b>												
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%
MCCLOSKY ARA ARGS COAL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MCCLOSKY 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%	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%	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	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%
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%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2016	Open Outcry DEC 2015	% CHG	ELEC DEC 2016	ELEC DEC 2015	% CHG	Open Outcry Y.T.D 2016	Open Outcry Y.T.D 2015	% CHG	ELEC Y.T.D 2016	ELEC Y.T.D 2015	% CHG
<b>Energy Futures</b>												
EMMISSIONS	0	0	0.0%	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%	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%	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%	0	0	0.0%
CENTER POINT NAT GAS FIXE	0	0	0.0%	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%	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	0	-	0	0.0%	-	0	0.0%
NY HARBOR LOW SULPUR GA	-	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	-	-

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2016	Open Outcry DEC 2015	% CHG	ELEC DEC 2016	ELEC DEC 2015	% CHG	Open Outcry Y.T.D 2016	Open Outcry Y.T.D 2015	% CHG	ELEC Y.T.D 2016	ELEC Y.T.D 2015	% CHG
<b>Energy Options</b>												
ETHANOL	0	-	-	0	-		0	-	-	0	-	-
NATURAL GAS	0	-	-	0	-		0	-	-	0	-	-
PGE CITYGATE PIPE SWAP	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%	0	0	0.0%
SOCAL PIPE SWAP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
BRENT OIL LAST DAY	0	103	-100.0%	7,192	0	0	9,909	2,405	312.0%	39,804	12	331,600.0%
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%	0	0	0.0%
HEATING OIL PHY	1,162	1,336	-13.0%	4,135	7,693	-0.46	8,767	26,583	-67.0%	76,808	69,558	10.4%
HENRY HUB FINANCIAL LAST	0	0	0.0%	0	0	0	68	69	-1.4%	0	0	0.0%
RBOB PHY	622	521	19.4%	3,979	8,045	-0.51	9,221	16,178	-43.0%	89,735	79,334	13.1%
NATURAL GAS PHY	4,271	31,839	-86.6%	989,103	587,881	0.68	26,722	336,055	-92.0%	9,091,858	3,374,371	169.4%
CRUDE OIL APO	108	3	3,500.0%	0	0	0	7,398	770	860.8%	0	0	0.0%
NATURAL GAS 3 M CSO FIN	0	0	0.0%	0	0	0	250	0	0.0%	0	0	0.0%
NATURAL GAS 1 M CSO FIN	0	0	0.0%	0	0	0	200	1,162	-82.8%	0	150	-100.0%
WTI CRUDE OIL 1 M CSO FI	0	0	0.0%	0	166	-1	0	3,000	-100.0%	28,376	1,166	2,333.6%
CRUDE OIL PHY	12,156	59,029	-79.4%	2,921,178	2,577,459	0.13	235,059	1,264,445	-81.4%	34,610,856	27,436,214	26.2%
RBOB CALENDAR SWAP	9	15	-40.0%	0	0	0	59	24	145.8%	0	0	0.0%
RBOB 1MO CAL SPD OPTIONS	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%
NY HARBOR HEAT OIL SWP	26	86	-69.8%	0	0	0	1,653	1,892	-12.6%	15	16	-6.3%
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%	250	0	0	0	0	0.0%	250	2,000	-87.5%
HO 1 MONTH CLNDR OPTIONS	0	0	0.0%	0	0	0	0	125	-100.0%	0	0	0.0%
NG HH 3 MONTH CAL	0	-	-	0	-		500	-	-	0	-	-
CRUDE OIL 1MO	0	3,000	-100.0%	28,638	3,525	7.12	100	7,600	-98.7%	670,114	83,062	706.8%
WTI 6 MONTH CALENDAR OPTI	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
WTI 12 MONTH CALENDAR OP	0	0	0.0%	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%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2016	Open Outcry DEC 2015	% CHG	ELEC DEC 2016	ELEC DEC 2015	% CHG	Open Outcry Y.T.D 2016	Open Outcry Y.T.D 2015	% CHG	ELEC Y.T.D 2016	ELEC Y.T.D 2015	% CHG
<b>Energy Options</b>												
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%	15	41	-63.4%
NATURAL GAS SUMMER STRIP	-	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%	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%	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%	0	0	0.0%
ELEC FINSETTLED	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
BRENT 1 MONTH CAL	-	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%	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%	0	0	0.0%
SINGAPORE GASOIL CALENDAR	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%	0	0	0.0%
SHORT TERM CRUDE OIL	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%
DAILY CRUDE OIL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
PJM ELECTRIC	0	0	0.0%	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	-	-
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%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2016	Open Outcry DEC 2015	% CHG	ELEC DEC 2016	ELEC DEC 2015	% CHG	Open Outcry Y.T.D 2016	Open Outcry Y.T.D 2015	% CHG	ELEC Y.T.D 2016	ELEC Y.T.D 2015	% CHG
<b>Energy Options</b>												
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%
WTI CRUDE OIL 12 M CSO F	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
<b>FX Futures</b>												
AUSTRALIAN DOLLAR	0	614	-100.0%	1,734,503	1,815,692	-0.04	1,841	6,678	-72.4%	25,223,811	23,250,237	8.5%
BRITISH POUND	56	64	-12.5%	2,496,734	1,974,198	0.26	1,536	10,969	-86.0%	28,965,961	24,032,475	20.5%
BRAZIL REAL	0	0	0.0%	32,583	39,750	-0.18	0	30	-100.0%	567,107	462,742	22.6%
CANADIAN DOLLAR	8	105	-92.4%	1,404,677	1,623,157	-0.13	1,070	7,697	-86.1%	18,649,551	17,209,046	8.4%
E-MINI EURO FX	0	0	0.0%	108,342	129,115	-0.16	0	0	0.0%	948,825	1,481,391	-36.0%
EURO FX	289	2,570	-88.8%	4,979,423	6,030,794	-0.17	8,413	59,091	-85.8%	49,088,760	65,025,744	-24.5%
E-MINI JAPANESE YEN	0	0	0.0%	30,938	20,921	0.48	0	0	0.0%	392,863	212,810	84.6%
JAPANESE YEN	3	73	-95.9%	3,096,708	3,055,780	0.01	4,352	26,722	-83.7%	36,417,663	35,922,527	1.4%
MEXICAN PESO	20	0	0.0%	1,029,534	1,056,925	-0.03	20	120,694	-100.0%	13,965,262	10,707,354	30.4%
NEW ZEALND DOLLAR	0	0	0.0%	548,234	429,943	0.28	0	732	-100.0%	5,865,986	5,005,379	17.2%
NKR/USD CROSS RATE	0	0	0.0%	3,506	2,748	0.28	0	0	0.0%	21,316	13,670	55.9%
RUSSIAN RUBLE	0	0	0.0%	41,193	24,773	0.66	0	4	-100.0%	328,943	198,667	65.6%
S.AFRICAN RAND	0	0	0.0%	33,936	38,969	-0.13	0	806	-100.0%	237,977	208,772	14.0%
SWISS FRANC	0	0	0.0%	592,647	596,240	-0.01	0	1,073	-100.0%	5,891,655	5,553,791	6.1%
AD/CD CROSS RATES	0	0	0.0%	10	16	-0.38	0	0	0.0%	69	234	-70.5%
AD/JY CROSS RATES	0	0	0.0%	6,096	3,878	0.57	0	0	0.0%	47,048	42,714	10.1%
AD/NE CROSS RATES	0	0	0.0%	1	64	-0.98	0	0	0.0%	691	605	14.2%
BP/JY CROSS RATES	0	0	0.0%	2,325	2,752	-0.16	0	0	0.0%	22,487	14,812	51.8%
BP/SF CROSS RATES	0	0	0.0%	2	141	-0.99	0	0	0.0%	479	1,629	-70.6%
CD/JY CROSS RATES	0	0	0.0%	0	1	-1	0	0	0.0%	15	245	-93.9%
EC/AD CROSS RATES	0	0	0.0%	2,150	4,641	-0.54	0	0	0.0%	19,910	23,178	-14.1%
EC/CD CROSS RATES	0	0	0.0%	4,719	5,556	-0.15	0	0	0.0%	31,900	30,594	4.3%
EC/NOK CROSS RATES	0	0	0.0%	2	8	-0.75	0	21	-100.0%	11	46	-76.1%
EC/SEK CROSS RATES	0	0	0.0%	263	114	1.31	0	0	0.0%	1,133	798	42.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2016	Open Outcry DEC 2015	% CHG	ELEC DEC 2016	ELEC DEC 2015	% CHG	Open Outcry Y.T.D 2016	Open Outcry Y.T.D 2015	% CHG	ELEC Y.T.D 2016	ELEC Y.T.D 2015	% CHG
<b>FX Futures</b>												
EFX/BP CROSS RATES	0	0	0.0%	79,926	109,358	-0.27	0	0	0.0%	842,173	736,287	14.4%
EFX/JY CROSS RATES	0	0	0.0%	64,434	67,664	-0.05	0	0	0.0%	488,022	526,916	-7.4%
EFX/SF CROSS RATES	0	0	0.0%	48,984	64,949	-0.25	0	0	0.0%	378,476	380,423	-0.5%
SF/JY CROSS RATES	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
SKR/USD CROSS RATES	0	0	0.0%	2,855	2,885	-0.01	0	20	-100.0%	18,829	15,096	24.7%
CZECK KORUNA (US)	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
CZECK KORUNA (EC)	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
HUNGARIAN FORINT (US)	0	0	0.0%	0	0	0	0	0	0.0%	0	2	-100.0%
HUNGARIAN FORINT (EC)	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
POLISH ZLOTY (US)	0	0	0.0%	719	741	-0.03	0	0	0.0%	7,888	1,887	318.0%
POLISH ZLOTY (EC)	0	0	0.0%	42	2,242	-0.98	0	0	0.0%	4,720	2,244	110.3%
SHEKEL	0	0	0.0%	0	0	0	0	0	0.0%	0	6	-100.0%
RMB USD	0	0	0.0%	79	428	-0.82	6	0	0.0%	1,942	5,239	-62.9%
KOREAN WON	0	0	0.0%	35	161	-0.78	0	0	0.0%	207	460	-55.0%
TURKISH LIRA	0	0	0.0%	0	0	0	0	0	0.0%	0	26	-100.0%
TURKISH LIRA (EU)	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
E-MICRO EUR/USD	0	0	0.0%	304,069	351,169	-0.13	0	0	0.0%	3,371,953	4,325,807	-22.1%
E-MICRO GBP/USD	0	0	0.0%	63,146	31,755	0.99	0	0	0.0%	1,038,606	488,050	112.8%
E-MICRO USD/CAD	0	0	0.0%	0	0	0	0	0	0.0%	22	12	83.3%
E-MICRO USD/CHF	0	0	0.0%	0	4	-1	0	0	0.0%	1	9	-88.9%
E-MICRO USD/JPY	0	0	0.0%	0	10	-1	0	0	0.0%	4	113	-96.5%
E-MICRO AUD/USD	0	0	0.0%	69,951	51,043	0.37	0	0	0.0%	1,218,358	652,469	86.7%
MICRO CHF/USD	0	0	0.0%	1,314	2,385	-0.45	0	0	0.0%	21,814	28,110	-22.4%
E-MICRO JPY/USD	0	0	0.0%	51,185	8,918	4.74	0	0	0.0%	396,958	150,355	164.0%
E-MICRO INR/USD	0	0	0.0%	3,297	72	44.79	0	0	0.0%	29,960	2,576	1,063.0%
FCXRX	0	-	-	1,033	-	-	0	-	-	13,532	-	-
E-MICRO USD/CNH	0	0	0.0%	0	43	-1	0	0	0.0%	61	367	-83.4%
CHINESE RENMINBI (CNH)	0	0	0.0%	2,986	1,402	1.13	0	0	0.0%	19,265	12,267	57.0%
E-MICRO CAD/USD	0	0	0.0%	13,588	14,083	-0.04	0	0	0.0%	245,995	158,108	55.6%
INDIAN RUPEE	0	0	0.0%	15,301	7,061	1.17	0	0	0.0%	160,255	130,396	22.9%
USDZAR	0	0	0.0%	0	31	-1	0	0	0.0%	6	580	-99.0%
EURO QUARTERLY VARIANCE	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2016	Open Outcry DEC 2015	% CHG	ELEC DEC 2016	ELEC DEC 2015	% CHG	Open Outcry Y.T.D 2016	Open Outcry Y.T.D 2015	% CHG	ELEC Y.T.D 2016	ELEC Y.T.D 2015	% CHG
<b>FX Options</b>												
AUSTRALIAN DOLLAR	0	2,963	-100.0%	42,836	98,737	-0.57	13,722	28,124	-51.2%	1,436,190	1,496,198	-4.0%
BRITISH POUND	192	5,626	-96.6%	56,896	148,353	-0.62	34,573	117,428	-70.6%	2,196,165	2,444,717	-10.2%
BRAZIL REAL	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
CANADIAN DOLLAR	372	6,524	-94.3%	41,011	141,631	-0.71	25,856	32,546	-20.6%	1,414,382	1,374,993	2.9%
EURO FX	2,615	19,746	-86.8%	347,124	966,245	-0.64	108,495	320,455	-66.1%	7,393,464	12,005,976	-38.4%
JAPANESE YEN	3,478	6,639	-47.6%	80,294	218,684	-0.63	69,162	130,902	-47.2%	3,205,258	2,731,642	17.3%
MEXICAN PESO	20	100	-80.0%	987	1,767	-0.44	7,770	3,460	124.6%	43,163	14,164	204.7%
NEW ZEALND DOLLAR	0	0	0.0%	0	0	0	0	0	0.0%	0	13	-100.0%
RUSSIAN RUBLE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
SWISS FRANC	0	1,722	-100.0%	2,483	7,519	-0.67	272	6,568	-95.9%	71,017	164,470	-56.8%
JAPANESE YEN (EU)	0	0	0.0%	189	180	0.05	0	3	-100.0%	6,126	4,512	35.8%
EURO FX (EU)	0	0	0.0%	91	3,588	-0.97	5	5	0.0%	28,659	57,874	-50.5%
SWISS FRANC (EU)	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
CANADIAN DOLLAR (EU)	0	0	0.0%	7	149	-0.95	0	0	0.0%	1,818	1,588	14.5%
BRITISH POUND (EU)	0	0	0.0%	106	1,148	-0.91	0	2	-100.0%	9,270	7,682	20.7%
AUSTRALIAN DLR (EU)	0	0	0.0%	0	24	-1	0	0	0.0%	1,146	1,291	-11.2%
EUR/USD PQO 2pm Fix	1,351	-	-	329,378	-	-	4,021	-	-	727,634	-	-
CAD/USD PQO 2pm Fix	0	-	-	67,690	-	-	510	-	-	169,347	-	-
JPY/USD PQO 2pm Fix	1,658	-	-	170,822	-	-	2,977	-	-	382,335	-	-
AUD/USD PQO 2pm Fix	500	-	-	61,133	-	-	2,540	-	-	162,490	-	-
GBP/USD PQO 2pm Fix	97	-	-	78,983	-	-	1,420	-	-	214,409	-	-
CHF/USD PQO 2pm Fix	0	-	-	5,244	-	-	0	-	-	13,121	-	-
<b>Commodities and Alternative Investments</b>												
<b>Futures</b>												
CORN	23,657	9,653	145.1%	3,812,429	4,179,653	-0.09	477,904	1,202,647	-60.3%	82,244,723	78,847,367	4.3%
SOYBEAN	18,080	28,123	-35.7%	4,564,101	4,722,896	-0.03	337,723	629,022	-46.3%	58,822,255	51,057,901	15.2%
SOYBEAN MEAL	2,592	5,294	-51.0%	1,981,329	2,026,373	-0.02	53,701	169,367	-68.3%	24,920,335	23,139,960	7.7%
SOYBEAN OIL	3,333	7,020	-52.5%	2,542,668	2,856,630	-0.11	57,649	150,586	-61.7%	28,666,310	28,059,532	2.2%
OATS	0	0	0.0%	8,980	11,102	-0.19	196	568	-65.5%	209,716	173,338	21.0%
ROUGH RICE	0	0	0.0%	35,011	38,625	-0.09	0	1,003	-100.0%	296,492	308,169	-3.8%
MINI CORN	0	0	0.0%	8,570	7,290	0.18	0	1,409	-100.0%	143,802	131,074	9.7%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2016	Open Outcry DEC 2015	% CHG	ELEC DEC 2016	ELEC DEC 2015	% CHG	Open Outcry Y.T.D 2016	Open Outcry Y.T.D 2015	% CHG	ELEC Y.T.D 2016	ELEC Y.T.D 2015	% CHG
<b>Commodities and Alternative Investments</b>												
<b>Futures</b>												
MINI SOYBEAN	0	0	0.0%	21,315	15,610	0.37	0	3,129	-100.0%	296,237	225,943	31.1%
MINI WHEAT	0	0	0.0%	4,270	4,457	-0.04	0	489	-100.0%	74,692	82,486	-9.4%
LIVE CATTLE	3,472	5,333	-34.9%	1,066,543	1,168,122	-0.09	39,282	406,665	-90.3%	13,072,861	13,014,621	0.4%
FEEDER CATTLE	15	25	-40.0%	200,589	230,716	-0.13	306	42,769	-99.3%	2,536,895	2,450,250	3.5%
LEAN HOGS	3,429	2,988	14.8%	821,787	563,371	0.46	28,628	320,838	-91.1%	9,138,609	9,246,203	-1.2%
LUMBER	0	0	0.0%	12,735	15,992	-0.2	0	1,357	-100.0%	173,494	198,965	-12.8%
MILK	170	21	709.5%	37,301	24,826	0.5	1,645	3,249	-49.4%	319,005	271,143	17.7%
MLK MID	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NFD MILK	0	22	-100.0%	3,139	5,915	-0.47	13	421	-96.9%	54,599	48,788	11.9%
BUTTER CS	0	0	0.0%	2,769	2,848	-0.03	0	0	0.0%	38,178	30,749	24.2%
CLASS IV MILK	0	0	0.0%	1,580	1,738	-0.09	70	149	-53.0%	14,232	11,650	22.2%
DRY WHEY	0	0	0.0%	1,855	2,766	-0.33	0	0	0.0%	16,042	21,126	-24.1%
GSCI EXCESS RETURN FUT	0	0	0.0%	300	6,438	-0.95	0	0	0.0%	1,419	6,693	-78.8%
GOLDMAN SACHS	0	0	0.0%	33,918	33,549	0.01	0	6,135	-100.0%	357,688	348,431	2.7%
ETHANOL	0	0	0.0%	17,318	12,893	0.34	0	0	0.0%	170,973	186,429	-8.3%
HDD WEATHER	0	0	0.0%	0	25	-1	0	0	0.0%	579	1,377	-58.0%
CDD WEATHER	0	0	0.0%	0	0	0	0	0	0.0%	400	260	53.8%
HDD SEASONAL STRIP	0	0	0.0%	0	0	0	0	0	0.0%	0	202	-100.0%
CDD SEASONAL STRIP	0	0	0.0%	0	0	0	0	0	0.0%	0	54	-100.0%
HDD WEATHER EUROPEAN	0	0	0.0%	0	0	0	0	0	0.0%	100	50	100.0%
CAT WEATHER EUROPEAN	0	0	0.0%	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%	50	0	0.0%
CAT EURO SEASONAL STRIP	0	-	-	0	-	-	0	-	-	0	-	-
WKLY AVG TEMP	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
HOUSING INDEX	0	0	0.0%	7	10	-0.3	0	0	0.0%	146	93	57.0%
DOW-UBS COMMOD INDEX	0	0	0.0%	62,564	60,615	0.03	0	0	0.0%	417,312	369,468	12.9%
COTTON	0	0	0.0%	1	15	-0.93	0	0	0.0%	578	585	-1.2%
COCOA TAS	0	0	0.0%	13	125	-0.9	0	0	0.0%	2,607	1,816	43.6%
COFFEE	0	0	0.0%	0	14	-1	0	0	0.0%	169	635	-73.4%
SUGAR 11	0	0	0.0%	0	218	-1	0	0	0.0%	418	1,570	-73.4%
USD CRUDE PALM OIL	0	-	-	0	-	-	0	-	-	0	-	-
CASH-SETTLED CHEESE	0	0	0.0%	7,954	18,073	-0.56	6	0	0.0%	116,360	119,851	-2.9%
OTC SP GSCI ER SWAP	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
DOW-UBS COMMOD INDEX SW	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2016	Open Outcry DEC 2015	% CHG	ELEC DEC 2016	ELEC DEC 2015	% CHG	Open Outcry Y.T.D 2016	Open Outcry Y.T.D 2015	% CHG	ELEC Y.T.D 2016	ELEC Y.T.D 2015	% CHG
<b>Commodities and Alternative Investments</b>												
<b>Futures</b>												
GRAIN BASIS SWAPS	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
FERTILIZER PRODUCTS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
CHI WHEAT	13,474	8,689	55.1%	1,546,972	1,588,590	-0.03	207,945	315,479	-34.1%	30,620,576	30,529,844	0.3%
DJ_UBS ROLL SELECT INDEX	0	0	0.0%	0	0	0	0	0	0.0%	0	6	-100.0%
KC WHEAT	608	264	130.3%	602,245	367,152	0.64	13,237	21,513	-38.5%	9,321,333	7,087,281	31.5%
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	367,028	316,986	15.8%	714,215	711,731	0	7,899,536	9,394,526	-15.9%	14,874,085	14,398,133	3.3%
SOYBEAN	252,183	363,141	-30.6%	802,763	1,042,180	-0.23	5,008,253	6,374,764	-21.4%	15,059,421	12,278,716	22.6%
SOYBEAN MEAL	47,312	84,560	-44.0%	88,657	119,913	-0.26	735,185	1,163,879	-36.8%	1,532,506	1,739,636	-11.9%
SOYBEAN OIL	75,506	189,037	-60.1%	88,838	134,942	-0.34	1,113,041	1,357,009	-18.0%	1,184,950	802,093	47.7%
SOYBEAN CRUSH	32	610	-94.8%	0	0	0	4,825	2,712	77.9%	0	0	0.0%
OATS	604	789	-23.4%	637	456	0.4	8,720	14,155	-38.4%	9,856	6,780	45.4%
ROUGH RICE	30	552	-94.6%	563	2,052	-0.73	2,763	6,579	-58.0%	17,012	16,621	2.4%
WHEAT	0	100	-100.0%	0	0	0	0	610	-100.0%	0	50	-100.0%
LIVE CATTLE	43,377	180,162	-75.9%	200,401	293,330	-0.32	1,236,316	1,375,751	-10.1%	2,796,574	2,597,550	7.7%
FEEDER CATTLE	3,123	6,357	-50.9%	23,445	39,218	-0.4	53,127	47,263	12.4%	356,511	389,939	-8.6%
LEAN HOGS	34,045	50,870	-33.1%	164,134	177,849	-0.08	432,703	688,880	-37.2%	1,775,843	2,148,759	-17.4%
LUMBER	3	0	0.0%	1,023	965	0.06	115	18	538.9%	12,407	13,287	-6.6%
MILK	23,437	10,607	121.0%	30,449	11,980	1.54	162,840	119,824	35.9%	220,596	145,590	51.5%
MLK MID	174	62	180.6%	0	0	0	924	533	73.4%	0	0	0.0%
NFD MILK	354	3,132	-88.7%	461	606	-0.24	20,714	39,743	-47.9%	13,684	5,739	138.4%
BUTTER CS	1,852	474	290.7%	299	111	1.69	11,914	10,095	18.0%	3,601	2,125	69.5%
CLASS IV MILK	541	285	89.8%	1,257	312	3.03	3,509	5,667	-38.1%	10,284	2,779	270.1%
DRY WHEY	288	105	174.3%	5	0	0	1,229	2,657	-53.7%	96	316	-69.6%
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%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2016	Open Outcry DEC 2015	% CHG	ELEC DEC 2016	ELEC DEC 2015	% CHG	Open Outcry Y.T.D 2016	Open Outcry Y.T.D 2015	% CHG	ELEC Y.T.D 2016	ELEC Y.T.D 2015	% CHG
<b>Commodities and Alternative Investments</b>												
<b>Options</b>												
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%	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	0	0	0	0	0.0%	18	0	0.0%
CORN NEARBY+2 CAL SPRD	1,510	1,795	-15.9%	5	1	4	36,671	50,441	-27.3%	87	2,179	-96.0%
SOYBN NEARBY+2 CAL SPRD	300	0	0.0%	0	0	0	1,701	280	507.5%	0	0	0.0%
WHEAT NEARBY+2 CAL SPRD	849	4,400	-80.7%	233	15	14.53	52,431	129,447	-59.5%	2,592	5,844	-55.6%
JULY-DEC CORN CAL SPRD	50	3,585	-98.6%	0	102	-1	36,659	35,232	4.1%	175	929	-81.2%
DEC-JULY WHEAT CAL SPRD	0	0	0.0%	0	0	0	590	35	1,585.7%	0	0	0.0%
JULY-NOV SOYBEAN CAL SPR	339	69	391.3%	0	0	0	65,531	37,037	76.9%	263	198	32.8%
JULY-DEC WHEAT CAL SPRD	0	2,975	-100.0%	0	0	0	33,474	13,379	150.2%	145	2,292	-93.7%
JULY-JULY WHEAT CAL SPRD	0	0	0.0%	0	0	0	480	0	0.0%	13	0	0.0%
NOV-NOV SOYBEAN CAL SPR	0	0	0.0%	0	0	0	2,982	272	996.3%	0	0	0.0%
SOYMEAL NEARBY+2 CAL SPR	0	0	0.0%	0	0	0	3,785	300	1,161.7%	0	0	0.0%
LV CATL CSO	581	0	0.0%	0	0	0	851	81	950.6%	0	0	0.0%
SBIN HURR	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
JULY-DEC SOYMEAL CAL SPR	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
JULY-DEC SOY OIL CAL SPRD	20	0	0.0%	0	0	0	1,020	45	2,166.7%	0	0	0.0%
NOV-JULY SOYBEAN CAL SPR	0	0	0.0%	0	0	0	0	68	-100.0%	0	0	0.0%
SOY OIL NEARBY+2 CAL SPRD	0	0	0.0%	0	0	0	0	75	-100.0%	0	0	0.0%
CASH-SETTLED CHEESE	3,644	8,606	-57.7%	5,901	3,460	0.71	61,205	59,448	3.0%	30,425	20,576	47.9%
DEC-JULY CORN CAL SPRD	0	0	0.0%	0	0	0	26,533	9,610	176.1%	10	460	-97.8%
WHEAT-CORN IC SO	300	3,490	-91.4%	0	0	0	17,752	19,100	-7.1%	0	0	0.0%
DEC-DEC CORN CAL SPRD	895	0	0.0%	0	0	0	18,763	4,240	342.5%	15	0	0.0%
SNOWFALL	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
AUG-NOV SOYBEAN CAL SPR	0	0	0.0%	0	0	0	20	0	0.0%	0	0	0.0%
JAN-MAY SOYBEAN CAL SPRD	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
MAR-DEC CORN CAL SPRD	0	0	0.0%	0	0	0	0	5,430	-100.0%	0	0	0.0%
CHI WHEAT	128,562	99,475	29.2%	326,082	303,213	0.08	2,030,577	3,096,414	-34.4%	4,945,553	4,259,939	16.1%
MAR-JULY CORN CAL SPRD	0	2,469	-100.0%	0	0	0	2,416	2,769	-12.7%	4	0	0.0%
KC WHEAT	9,725	8,059	20.7%	9,899	6,555	0.51	165,071	315,545	-47.7%	180,094	145,724	23.6%
MAR-JULY WHEAT CAL SPRD	689	4,755	-85.5%	154	0	0	3,039	12,065	-74.8%	154	11	1,300.0%
AUG-DEC SOYBEAN MEAL CS	0	-	-	0	-	-	5	-	-	0	-	-

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2016	Open Outcry DEC 2015	% CHG	ELEC DEC 2016	ELEC DEC 2015	% CHG	Open Outcry Y.T.D 2016	Open Outcry Y.T.D 2015	% CHG	ELEC Y.T.D 2016	ELEC Y.T.D 2015	% CHG
<b>Commodities and Alternative Investments</b>												
<b>Options</b>												
Intercommodity Spread	600	0	0.0%	0	0	0	4,046	959	321.9%	0	0	0.0%
SEP-DEC SOYBEAN MEAL CSC	0	0	0.0%	0	0	0	0	1,050	-100.0%	0	10	-100.0%
DEC-JUL SOYBEAN OIL CSO	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
MAY-NOV SOYBEAN CAL SPR	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
NOV-DEC SOYBEAN CSO	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
<b>Ags Futures</b>												
WHEAT	0	-	-	5,796	-	-	0	-	-	77,239	-	-
<b>Ags Options</b>												
WHEAT	0	-	-	0	-	-	0	-	-	409	-	-
<b>Foreign Exchange Futures</b>												
CHILEAN PESO	0	0	0.0%	0	2	-1	6	0	0.0%	4	73	-94.5%
<b>TOTAL FUTURES GROUP</b>												
Interest Rate Futures	748,491	834,000	-10.3%	109,977,306	87,474,070	25.7%	9,133,417	13,362,303	-31.6%	1,394,293,867	1,265,532,169	10.2%
Equity Index Futures	210,852	249,219	-15.4%	45,319,618	55,481,237	-18.3%	1,386,412	1,788,088	-22.5%	604,319,894	559,946,329	7.9%
Metals Futures	803	6,307	-87.3%	6,466,874	4,982,811	29.8%	110,249	655,538	-83.2%	100,057,391	74,238,895	34.8%
Energy Futures	725	5,050	-85.6%	41,318,921	34,194,477	20.8%	27,961	234,690	-88.1%	473,935,034	376,085,531	26.0%
FX Futures	376	3,426	-89.0%	16,871,470	17,572,580	-4.0%	17,238	234,537	-92.7%	194,948,470	197,017,265	-1.1%
Commodities and Alternative Inve	68,830	67,432	2.1%	17,398,263	17,966,647	-3.2%	1,218,305	3,276,795	-62.8%	262,049,185	245,973,910	6.5%
Ags Futures	0	-	-	5,796	-	-	0	-	-	77,239	-	-
Foreign Exchange Futures	0	0	0.0%	0	2	-100.0%	6	0	0.0%	4	73	-94.5%
<b>TOTAL FUTURES</b>	<b>1,030,077</b>	<b>1,165,434</b>	<b>-11.6%</b>	<b>237,358,248</b>	<b>217,671,824</b>	<b>9.0%</b>	<b>11,893,588</b>	<b>19,551,951</b>	<b>-39.2%</b>	<b>3,029,681,084</b>	<b>2,718,794,172</b>	<b>11.4%</b>

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2016	Open Outcry DEC 2015	% CHG	ELEC DEC 2016	ELEC DEC 2015	% CHG	Open Outcry Y.T.D 2016	Open Outcry Y.T.D 2015	% CHG	ELEC Y.T.D 2016	ELEC Y.T.D 2015	% CHG
<b>TOTAL OPTIONS GROUP</b>												
Equity Index Options	879,590	1,076,871	-18.3%	12,663,365	10,995,616	15.2%	13,281,673	11,949,237	11.2%	147,084,683	128,340,692	14.6%
Interest Rate Options	21,045,931	19,393,395	8.5%	16,023,382	12,109,513	32.3%	243,924,814	228,831,893	6.6%	177,110,985	138,569,793	27.8%
Metals Options	8,003	70,790	-88.7%	626,603	420,139	49.1%	713,334	1,166,945	-38.9%	8,621,375	6,088,860	41.6%
Energy Options	18,354	95,932	-80.9%	3,954,475	3,184,769	24.2%	299,906	1,660,308	-81.9%	44,607,831	31,045,924	43.7%
FX Options	10,283	43,320	-76.3%	1,285,274	1,588,025	-19.1%	271,323	639,493	-57.6%	17,475,994	20,305,120	-13.9%
Commodities and Alternative Inve	997,953	1,347,507	-25.9%	2,459,421	2,848,991	-13.7%	19,261,316	24,397,987	-21.1%	43,026,974	38,986,275	10.4%
Ags Options	0	-	-	0	-	-	0	-	-	409	-	-
<b>TOTAL OPTIONS</b>	<b>22,960,114</b>	<b>22,027,815</b>	<b>4.2%</b>	<b>37,012,520</b>	<b>31,147,053</b>	<b>18.8%</b>	<b>277,752,366</b>	<b>268,645,863</b>	<b>3.4%</b>	<b>437,928,251</b>	<b>363,336,664</b>	<b>20.5%</b>
<b>TOTAL COMBINED</b>												
Interest Rate	21,794,422	20,227,395	7.7%	126,000,688	99,583,583	26.5%	253,058,231	242,194,196	4.5%	1,571,404,852	1,404,101,962	11.9%
Equity Index	1,090,442	1,326,090	-17.8%	57,982,983	66,476,853	-12.8%	14,668,085	13,737,325	6.8%	751,404,577	688,287,021	9.2%
Metals	8,806	77,097	-88.6%	7,093,477	5,402,950	31.3%	823,583	1,822,483	-54.8%	108,678,766	80,327,755	35.3%
Energy	19,079	100,982	-81.1%	45,273,396	37,379,246	21.1%	327,867	1,894,998	-82.7%	518,542,865	407,131,455	27.4%
FX	10,659	46,746	-77.2%	18,156,744	19,160,605	-5.2%	288,561	874,030	-67.0%	212,424,464	217,322,385	-2.3%
Commodities and Alternative Inve	1,066,783	1,414,939	-24.6%	19,857,684	20,815,638	-4.6%	20,479,621	27,674,782	-26.0%	305,076,159	284,960,185	7.1%
Ags	0	-	-	5,796	-	-	0	-	-	77,648	-	-
Foreign Exchange	0	0	0.0%	0	2	-100.0%	6	0	0.0%	4	73	-94.5%
<b>GRAND TOTAL</b>	<b>23,990,191</b>	<b>23,193,249</b>	<b>3.4%</b>	<b>274,370,768</b>	<b>248,818,877</b>	<b>10.3%</b>	<b>289,645,954</b>	<b>288,197,814</b>	<b>0.5%</b>	<b>3,467,609,335</b>	<b>3,082,130,836</b>	<b>12.5%</b>

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