



## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2016	Open Outcry NOV 2015	% CHG	ELEC NOV 2016	ELEC NOV 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	17,413	23,341	-25.4%	8,531,294	5,485,579	0.56	216,724	784,185	-72.4%	64,269,620	64,744,365	-0.7%
10-YR NOTE	221,533	115,120	92.4%	44,712,789	27,721,733	0.61	1,605,115	3,047,135	-47.3%	317,433,791	296,990,441	6.9%
5-YR NOTE	31,807	18,735	69.8%	28,645,723	19,492,526	0.47	318,057	1,704,599	-81.3%	178,886,502	168,986,669	5.9%
2-YR NOTE	450	1,713	-73.7%	10,934,664	7,623,356	0.43	9,553	895,575	-98.9%	72,518,730	73,317,970	-1.1%
FED FUND	0	0	0.0%	3,350,142	1,322,870	1.53	225	8,456	-97.3%	31,048,058	17,806,854	74.4%
EUROYEN	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
EURODOLLARS	918,116	540,507	69.9%	82,265,871	38,469,649	1.14	6,234,448	5,661,394	10.1%	579,549,134	529,464,044	9.5%
5-YR SWAP RATE	0	0	0.0%	76,395	34,647	1.2	0	0	0.0%	643,229	570,291	12.8%
2-YR SWAP RATE	0	0	0.0%	4	559	-0.99	0	35	-100.0%	4,418	26,120	-83.1%
10-YR SWAP RATE	0	0	0.0%	42,887	31,405	0.37	0	2,652	-100.0%	492,749	546,010	-9.8%
7-YR SWAP	0	0	0.0%	0	2,451	-1	0	0	0.0%	3,052	3,855	-20.8%
1-MONTH EURODOLLAR	0	0	0.0%	2,171	7,115	-0.69	0	0	0.0%	12,883	55,964	-77.0%
ULTRA T-BOND	279	0	0.0%	3,837,392	3,005,664	0.28	776	424,211	-99.8%	24,991,953	25,513,815	-2.0%
Ultra 10-Year Note	0	-	-	3,009,991	-		28	-	-	14,444,181	-	-
30-YR SWAP RATE	0	0	0.0%	1,711	727	1.35	0	61	-100.0%	18,261	30,900	-40.9%
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	346,682	238,728	45.2%	2,001,421	1,023,904	0.95	3,318,532	5,290,812	-37.3%	16,347,862	14,243,256	14.8%
10-YR NOTE	3,569,065	2,059,416	73.3%	9,622,596	3,641,964	1.64	25,710,783	32,996,224	-22.1%	61,324,747	56,867,775	7.8%
5-YR NOTE	806,749	804,013	0.3%	1,981,280	1,411,222	0.4	7,078,604	6,961,530	1.7%	14,739,404	12,814,742	15.0%
2-YR NOTE	42,807	86,294	-50.4%	97,948	90,887	0.08	484,683	956,546	-49.3%	1,109,408	1,345,469	-17.5%
FED FUND	8,452	26,900	-68.6%	1,312	9	144.78	78,803	308,616	-74.5%	14,631	26,600	-45.0%
FLEX 30-YR BOND	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
EURODOLLARS	9,676,460	6,002,281	61.2%	5,076,847	1,750,229	1.9	110,543,177	76,201,196	45.1%	34,237,463	16,520,989	107.2%
EURO MIDCURVE	12,137,615	8,168,168	48.6%	4,774,237	3,170,582	0.51	75,624,393	86,676,279	-12.8%	33,239,085	24,588,153	35.2%
ULTRA T-BOND	3,137	2,433	28.9%	6,314	1,047	5.03	29,233	47,295	-38.2%	54,265	53,296	1.8%
Ultra 10-Year Note	1,200	-	-	2,922	-		10,675	-	-	20,738	-	-

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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%	3,883,979	2,547,767	0.52	0	0	0.0%	39,515,397	36,802,582	7.4%
E-MINI S&P500	0	0	0.0%	38,107,532	28,574,323	0.33	0	0	0.0%	435,379,174	385,673,807	12.9%
S&P 500	61,717	72,355	-14.7%	9,162	11,527	-0.21	1,175,560	1,505,345	-21.9%	108,496	175,185	-38.1%
S&P 600 SMALLCAP EMINI	0	0	0.0%	0	1	-1	0	0	0.0%	0	1	-100.0%
E-MINI MIDCAP	0	0	0.0%	342,132	317,887	0.08	0	0	0.0%	4,669,093	4,650,977	0.4%
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%	11	15	-0.27	0	0	0.0%	231	347	-33.4%
S&P 500/VALUE	0	0	0.0%	3,042	193	14.76	0	0	0.0%	30,544	487	6,171.9%
E-MINI RUSSELL 1000	0	0	0.0%	75	629	-0.88	0	0	0.0%	4,229	785	438.7%
E-MINI NASDAQ 100	0	0	0.0%	5,328,024	4,382,438	0.22	0	0	0.0%	60,610,735	60,628,928	0.0%
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%	292,242	209,405	0.4	0	0	0.0%	3,978,936	3,818,862	4.2%
NIKKEI 225 (YEN) STOCK	0	0	0.0%	1,322,841	876,705	0.51	0	0	0.0%	13,725,302	12,079,376	13.6%
DJ US REAL ESTATE	0	0	0.0%	12,595	8,994	0.4	0	0	0.0%	127,092	105,385	20.6%
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%	8,527	1,587	4.37	0	0	0.0%	83,540	37,404	123.3%
S&P HEALTH CARE SECTOR	0	0	0.0%	14,794	9,547	0.55	0	0	0.0%	89,449	105,647	-15.3%
S&P TECHNOLOGY SECTOR	0	0	0.0%	4,886	2,636	0.85	0	0	0.0%	52,821	30,173	75.1%
S&P INDUSTRIAL SECTOR	0	0	0.0%	7,036	3,576	0.97	0	0	0.0%	34,543	30,407	13.6%
S&P CONSUMER DSCRTNRY S	0	0	0.0%	8,101	5,791	0.4	0	0	0.0%	58,127	63,151	-8.0%
S&P UTILITIES SECTOR	0	0	0.0%	17,540	7,746	1.26	0	0	0.0%	136,825	96,161	42.3%
S&P FINANCIAL SECTOR	0	0	0.0%	13,642	3,399	3.01	0	0	0.0%	83,014	28,106	195.4%
S&P ENERGY SECTOR	0	0	0.0%	16,589	9,464	0.75	0	0	0.0%	110,418	76,087	45.1%
S&P MATERIALS SECTOR	0	0	0.0%	8,053	2,825	1.85	0	0	0.0%	52,934	34,245	54.6%
E-MINI RUSSELL 1000 GROWT	0	0	0.0%	120	369	-0.67	0	0	0.0%	2,746	455	503.5%
FT-SE 100	0	0	0.0%	2,253	1,374	0.64	0	0	0.0%	19,068	2,555	646.3%
IBOVESPA INDEX	0	0	0.0%	729	282	1.59	0	0	0.0%	7,931	4,455	78.0%
E-MINI RUSSELL 1000 VALUE	0	0	0.0%	90	437	-0.79	0	0	0.0%	4,444	525	746.5%
NIFTY 50	0	0	0.0%	11,098	1,894	4.86	0	0	0.0%	115,169	14,448	697.1%

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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%	9,245	11,906	-0.22	0	0	0.0%	117,018	128,290	-8.8%
E-MINI S&P500	0	33,135	-100.0%	5,434,665	5,710,189	-0.05	110,315	226,100	-51.2%	53,975,060	70,911,217	-23.9%
S&P 500	375,320	612,742	-38.7%	0	0	0	5,403,463	8,234,316	-34.4%	0	106	-100.0%
E-MINI MIDCAP	0	0	0.0%	0	7	-1	0	0	0.0%	17	37	-54.1%
E-MINI NASDAQ 100	0	0	0.0%	200,488	160,865	0.25	0	0	0.0%	2,405,403	1,321,028	82.1%
NASDAQ	0	0	0.0%	0	0	0	0	30	-100.0%	0	0	0.0%
EOM S&P 500	160,586	100,567	59.7%	0	0	0	1,897,310	1,178,713	61.0%	0	0	0.0%
EOM EMINI S&P	0	0	0.0%	2,216,164	656,907	2.37	0	1,500	-100.0%	18,614,562	11,992,306	55.2%
EOW1 S&P 500	44,233	45,466	-2.7%	0	0	0	669,450	374,674	78.7%	0	0	0.0%
EOW1 EMINI S&P 500	0	0	0.0%	1,038,385	1,016,657	0.02	0	3,000	-100.0%	10,996,213	10,953,932	0.4%
EOW2 S&P 500	134,589	87,264	54.2%	0	0	0	1,425,200	849,501	67.8%	0	0	0.0%
EOW2 EMINI S&P 500	0	0	0.0%	1,907,664	954,863	1	0	0	0.0%	12,106,035	11,263,488	7.5%
EOW4 EMINI S&P 500	0	0	0.0%	746,612	632,307	0.18	0	4,500	-100.0%	11,943,035	10,774,672	10.8%
EOW3 S&P 500	396,502	-	-	0	-	-	2,869,345	-	-	0	-	-
EOW3 EMINI S&P 500	0	-	-	4,197,884	-	-	27,000	-	-	24,263,975	-	-

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<b>Metals Futures</b>												
COMEX GOLD	6,816	8,340	-18.3%	6,770,550	3,791,390	0.79	97,593	307,222	-68.2%	51,164,656	36,765,877	39.2%
E-MINI SILVER	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
COMEX MINY COPPER	0	0	0.0%	1,073	770	0.39	0	0	0.0%	6,116	8,788	-30.4%
COMEX SILVER	663	947	-30.0%	2,160,823	1,239,219	0.74	10,338	80,493	-87.2%	16,631,951	12,110,138	37.3%
COMEX COPPER	420	0	0.0%	3,495,610	1,814,153	0.93	1,342	260,899	-99.5%	19,876,582	15,521,047	28.1%
NYMEX HOT ROLLED STEEL	0	0	0.0%	219	0	0	0	0	0.0%	4,812	1,234	290.0%
NYMEX PLATINUM	40	0	0.0%	350,006	249,496	0.4	78	235	-66.8%	3,422,373	3,079,408	11.1%
URANIUM	0	0	0.0%	2	0	0	0	0	0.0%	995	1,950	-49.0%
PALLADIUM	32	3	966.7%	185,119	149,265	0.24	95	382	-75.1%	1,256,729	1,198,799	4.8%
E-MICRO GOLD	0	0	0.0%	96,161	42,679	1.25	0	0	0.0%	917,670	355,839	157.9%
GOLD	0	-	-	2	-		0	-	-	2	-	-
ALUMINUM	0	0	0.0%	1,319	793	0.66	0	0	0.0%	11,718	4,208	178.5%
COPPER	0	0	0.0%	0	0	0	0	0	0.0%	0	1	-100.0%
SILVER	0	0	0.0%	11,856	6,053	0.96	0	0	0.0%	95,462	85,365	11.8%
Gold Kilo	0	0	0.0%	4,786	5,519	-0.13	0	0	0.0%	52,432	43,740	19.9%
COMEX E-Mini SILVER	0	0	0.0%	1,695	787	1.15	0	0	0.0%	13,974	9,300	50.3%
COMEX E-Mini GOLD	0	0	0.0%	17,592	6,330	1.78	0	0	0.0%	122,924	62,522	96.6%
Aluminium MW Trans Prem Platts	0	0	0.0%	291	574	-0.49	0	0	0.0%	5,225	6,581	-20.6%
LNDN ZINC	0	0	0.0%	0	48	-1	0	0	0.0%	227	386	-41.2%
METALS	0	-	-	0	-		0	-	-	25	-	-
FERROUS PRODUCTS	0	0	0.0%	10	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%	1,328	590	1.25	0	0	0.0%	6,634	893	642.9%
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	20,472	64,271	-68.1%	1,063,545	436,926	1.43	613,331	945,843	-35.2%	6,795,738	4,707,371	44.4%
COMEX SILVER	7,194	8,147	-11.7%	114,235	68,718	0.66	86,989	135,002	-35.6%	1,107,396	916,478	20.8%
COMEX COPPER	206	408	-49.5%	4,442	3,971	0.12	1,394	8,495	-83.6%	28,264	17,172	64.6%
NYMEX PLATINUM	175	4	4,275.0%	478	962	-0.5	2,429	2,261	7.4%	8,123	6,340	28.1%
PALLADIUM	200	14	1,328.6%	897	296	2.03	522	1,216	-57.1%	3,443	3,242	6.2%
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	775	-100.0%	11,210	1,148	8.76	666	3,328	-80.0%	49,581	16,962	192.3%
COPPER	0	0	0.0%	0	0	0	0	0	0.0%	0	10	-100.0%
SILVER	0	0	0.0%	658	4	163.5	0	10	-100.0%	2,227	1,146	94.3%
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%	0	0	0	0	0	0.0%	1,102	61	1,706.6%
NORTHWEST ROCKIES BASIS	0	0	0.0%	1,033	0	0	0	0	0.0%	3,848	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%	23,156	13,216	0.75	800	1,013	-21.0%	223,518	60,522	269.3%
HTG OIL	0	0	0.0%	0	0	0	36	0	0.0%	0	0	0.0%
LTD NAT GAS	0	0	0.0%	70,146	63,003	0.11	0	549	-100.0%	799,231	712,889	12.1%
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 NOV 2016	Open Outcry NOV 2015	% CHG	ELEC NOV 2016	ELEC NOV 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%	2,521,208	1,858,201	0.36	344	0	0.0%	21,410,183	23,915,629	-10.5%
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%	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 NOV 2016	Open Outcry NOV 2015	% CHG	ELEC NOV 2016	ELEC NOV 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 PEPKO DA PEAK	-	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%	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 NOV 2016	Open Outcry NOV 2015	% CHG	ELEC NOV 2016	ELEC NOV 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	30	107	-72.0%	3,268,193	2,467,343	0.32	998	4,993	-80.0%	33,189,627	30,435,149	9.1%
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	7	-0.29	0	0	0.0%	100	88	13.6%
WAHA BASIS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
MINY NATURAL GAS	0	0	0.0%	36,825	28,820	0.28	0	0	0.0%	290,589	297,347	-2.3%
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 NOV 2016	Open Outcry NOV 2015	% CHG	ELEC NOV 2016	ELEC NOV 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

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<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	22	11	100.0%	3,552,076	2,926,576	0.21	595	3,167	-81.2%	39,132,639	33,918,636	15.4%
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%	303,394	175,396	0.73	0	0	0.0%	3,152,321	2,920,121	8.0%
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	82	2,115	-96.1%	8,797,379	6,043,284	0.46	1,672	47,509	-96.5%	85,171,829	70,870,374	20.2%
APPALACHIAN COAL (PHY)	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
WTI CALENDAR	0	0	0.0%	0	0	0	1,069	105	918.1%	0	0	0.0%
HENRY HUB BASIS SWAP	0	0	0.0%	1,007	0	0	0	0	0.0%	1,038	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	20	14,728	-99.9%	26,678,821	15,588,602	0.71	20,113	150,938	-86.7%	245,687,589	177,730,129	38.2%
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 NOV 2016	Open Outcry NOV 2015	% CHG	ELEC NOV 2016	ELEC NOV 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%	202	380	-0.47	0	0	0.0%	11,013	8,631	27.6%
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%
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%	4	4	0	0	0	0.0%	49	51	-3.9%
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	6	0	0.0%	0	0	0	45	170	-73.5%	12	11	9.1%
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%	273	0	0	0	0	0.0%	1,039	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 NOV 2016	Open Outcry NOV 2015	% CHG	ELEC NOV 2016	ELEC NOV 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%	56	0	0	0	0	0.0%	1,002	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 NOV 2016	Open Outcry NOV 2015	% CHG	ELEC NOV 2016	ELEC NOV 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	0	0.0%	0	2	-1	92	20,948	-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%	1,284	0	0	0	0	0.0%	1,930	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 NOV 2016	Open Outcry NOV 2015	% CHG	ELEC NOV 2016	ELEC NOV 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%	100,506	112,979	-0.11	1,472	236	523.7%	2,050,941	601,475	241.0%
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%	0	2	-1	0	0	0.0%	158	139	13.7%
EUROPEAN GASOIL (ICE)	0	0	0.0%	11,141	220,363	-0.95	0	0	0.0%	1,485,608	418,543	254.9%
ERCOT NORTH ZMCPE 5MW O	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ERCOT NORTH ZMCPE 5MW O	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
ERCOT NORTH ZMCPE 5MW P	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2016	Open Outcry NOV 2015	% CHG	ELEC NOV 2016	ELEC NOV 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 NOV 2016	Open Outcry NOV 2015	% CHG	ELEC NOV 2016	ELEC NOV 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%
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%	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 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%
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 NOV 2016	Open Outcry NOV 2015	% CHG	ELEC NOV 2016	ELEC NOV 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>												
EMISSIONS	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 NOV 2016	Open Outcry NOV 2015	% CHG	ELEC NOV 2016	ELEC NOV 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	7	-100.0%	7,304	0	0	9,909	2,302	330.5%	32,612	12	271,666.7%
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	591	1,196	-50.6%	7,511	4,233	0.77	7,605	25,247	-69.9%	72,673	61,865	17.5%
HENRY HUB FINANCIAL LAST	0	0	0.0%	0	0	0	68	69	-1.4%	0	0	0.0%
RBOB PHY	93	558	-83.3%	10,011	5,772	0.73	8,599	15,657	-45.1%	85,756	71,289	20.3%
NATURAL GAS PHY	713	41,297	-98.3%	1,072,990	425,902	1.52	22,451	304,216	-92.6%	8,102,755	2,786,490	190.8%
CRUDE OIL APO	39	5	680.0%	0	0	0	7,290	767	850.5%	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	50	-1	200	1,162	-82.8%	0	150	-100.0%
WTI CRUDE OIL 1 M CSO FI	0	0	0.0%	2,250	1,000	1.25	0	3,000	-100.0%	28,376	1,000	2,737.6%
CRUDE OIL PHY	2,495	77,846	-96.8%	3,769,254	2,061,449	0.83	222,903	1,205,416	-81.5%	31,689,678	24,858,755	27.5%
RBOB CALENDAR SWAP	0	0	0.0%	0	0	0	50	9	455.6%	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	55	27	103.7%	9	0	0	1,627	1,806	-9.9%	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%	0	0	0	0	0	0.0%	0	2,000	-100.0%
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	0	0.0%	50,567	5,300	8.54	100	4,600	-97.8%	641,476	79,537	706.5%
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

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<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%	5	0	0	0	0	0.0%	15	41	-63.4%
NATURAL GAS SUMMER STRIF	-	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 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%	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 NOV 2016	Open Outcry NOV 2015	% CHG	ELEC NOV 2016	ELEC NOV 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	108	30	260.0%	2,303,056	1,594,955	0.44	1,841	6,064	-69.6%	23,489,308	21,434,545	9.6%
BRITISH POUND	67	12	458.3%	2,677,083	1,497,924	0.79	1,480	10,905	-86.4%	26,469,227	22,058,277	20.0%
BRAZIL REAL	0	0	0.0%	58,624	53,230	0.1	0	30	-100.0%	534,524	422,992	26.4%
CANADIAN DOLLAR	85	70	21.4%	1,611,566	1,034,216	0.56	1,062	7,592	-86.0%	17,244,874	15,585,889	10.6%
E-MINI EURO FX	0	0	0.0%	91,063	80,516	0.13	0	0	0.0%	840,483	1,352,276	-37.8%
EURO FX	322	1,657	-80.6%	4,571,421	4,219,543	0.08	8,124	56,521	-85.6%	44,109,337	58,994,950	-25.2%
E-MINI JAPANESE YEN	0	0	0.0%	35,894	8,967	3	0	0	0.0%	361,925	191,889	88.6%
JAPANESE YEN	393	18	2,083.3%	3,878,864	2,195,401	0.77	4,349	26,649	-83.7%	33,320,955	32,866,747	1.4%
MEXICAN PESO	0	0	0.0%	1,440,561	677,523	1.13	0	120,694	-100.0%	12,935,728	9,650,429	34.0%
NEW ZEALND DOLLAR	0	0	0.0%	567,708	342,176	0.66	0	732	-100.0%	5,317,752	4,575,436	16.2%
NKR/USD CROSS RATE	0	0	0.0%	1,413	583	1.42	0	0	0.0%	17,810	10,922	63.1%
RUSSIAN RUBLE	0	0	0.0%	27,231	11,209	1.43	0	4	-100.0%	287,750	173,894	65.5%
S.AFRICAN RAND	0	0	0.0%	28,531	15,570	0.83	0	806	-100.0%	204,041	169,803	20.2%
SWISS FRANC	0	0	0.0%	601,140	455,448	0.32	0	1,073	-100.0%	5,299,008	4,957,551	6.9%
AD/CD CROSS RATES	0	0	0.0%	5	6	-0.17	0	0	0.0%	59	218	-72.9%
AD/JY CROSS RATES	0	0	0.0%	3,499	2,969	0.18	0	0	0.0%	40,952	38,836	5.4%
AD/NE CROSS RATES	0	0	0.0%	11	9	0.22	0	0	0.0%	690	541	27.5%
BP/JY CROSS RATES	0	0	0.0%	1,711	882	0.94	0	0	0.0%	20,162	12,060	67.2%
BP/SF CROSS RATES	0	0	0.0%	46	3	14.33	0	0	0.0%	477	1,488	-67.9%
CD/JY CROSS RATES	0	0	0.0%	4	0	0	0	0	0.0%	15	244	-93.9%
EC/AD CROSS RATES	0	0	0.0%	925	796	0.16	0	0	0.0%	17,760	18,537	-4.2%
EC/CD CROSS RATES	0	0	0.0%	2,407	1,233	0.95	0	0	0.0%	27,181	25,038	8.6%
EC/NOK CROSS RATES	0	0	0.0%	0	4	-1	0	21	-100.0%	9	38	-76.3%
EC/SEK CROSS RATES	0	0	0.0%	162	3	53	0	0	0.0%	870	684	27.2%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2016	Open Outcry NOV 2015	% CHG	ELEC NOV 2016	ELEC NOV 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%	53,570	41,082	0.3	0	0	0.0%	762,247	626,929	21.6%
EFX/JY CROSS RATES	0	0	0.0%	37,254	29,017	0.28	0	0	0.0%	423,588	459,252	-7.8%
EFX/SF CROSS RATES	0	0	0.0%	25,644	19,568	0.31	0	0	0.0%	329,492	315,474	4.4%
SF/JY CROSS RATES	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
SKR/USD CROSS RATES	0	0	0.0%	999	892	0.12	0	20	-100.0%	15,974	12,211	30.8%
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%	1,790	51	34.1	0	0	0.0%	7,169	1,146	525.6%
POLISH ZLOTY (EC)	0	0	0.0%	42	0	0	0	0	0.0%	4,678	2	233,800.0%
SHEKEL	0	0	0.0%	0	0	0	0	0	0.0%	0	6	-100.0%
RMB USD	0	0	0.0%	81	192	-0.58	6	0	0.0%	1,863	4,811	-61.3%
KOREAN WON	0	0	0.0%	5	35	-0.86	0	0	0.0%	172	299	-42.5%
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%	323,163	250,981	0.29	0	0	0.0%	3,067,884	3,974,638	-22.8%
E-MICRO GBP/USD	0	0	0.0%	134,410	28,447	3.72	0	0	0.0%	975,460	456,295	113.8%
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	2	-1	0	0	0.0%	1	5	-80.0%
E-MICRO USD/JPY	0	0	0.0%	0	1	-1	0	0	0.0%	4	103	-96.1%
E-MICRO AUD/USD	0	0	0.0%	125,748	43,773	1.87	0	0	0.0%	1,148,407	601,426	90.9%
MICRO CHF/USD	0	0	0.0%	1,707	1,687	0.01	0	0	0.0%	20,500	25,725	-20.3%
E-MICRO JPY/USD	0	0	0.0%	58,401	7,000	7.34	0	0	0.0%	345,773	141,437	144.5%
E-MICRO INR/USD	0	0	0.0%	5,760	59	96.63	0	0	0.0%	26,663	2,504	964.8%
FCXRX	0	-	-	8,186	-	-	0	-	-	12,499	-	-
E-MICRO USD/CNH	0	0	0.0%	0	14	-1	0	0	0.0%	61	324	-81.2%
CHINESE RENMINBI (CNH)	0	0	0.0%	2,824	2,207	0.28	0	0	0.0%	16,279	10,865	49.8%
E-MICRO CAD/USD	0	0	0.0%	20,779	9,498	1.19	0	0	0.0%	232,407	144,025	61.4%
INDIAN RUPEE	0	0	0.0%	24,514	9,053	1.71	0	0	0.0%	144,954	123,335	17.5%
USDZAR	0	0	0.0%	0	40	-1	0	0	0.0%	6	549	-98.9%
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 NOV 2016	Open Outcry NOV 2015	% CHG	ELEC NOV 2016	ELEC NOV 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	936	573	63.4%	89,905	109,152	-0.18	13,722	25,161	-45.5%	1,393,354	1,397,461	-0.3%
BRITISH POUND	271	5,475	-95.1%	144,797	154,000	-0.06	34,381	111,802	-69.2%	2,139,269	2,296,364	-6.8%
BRAZIL REAL	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
CANADIAN DOLLAR	674	750	-10.1%	51,216	85,845	-0.4	25,484	26,022	-2.1%	1,373,371	1,233,362	11.4%
EURO FX	3,456	11,343	-69.5%	593,784	848,861	-0.3	105,880	300,709	-64.8%	7,046,340	11,039,731	-36.2%
JAPANESE YEN	3,016	6,307	-52.2%	268,149	175,508	0.53	65,684	124,263	-47.1%	3,124,964	2,512,958	24.4%
MEXICAN PESO	3,017	420	618.3%	9,074	797	10.39	7,750	3,360	130.7%	42,176	12,397	240.2%
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	680	-100.0%	6,761	24,227	-0.72	272	4,846	-94.4%	68,534	156,951	-56.3%
JAPANESE YEN (EU)	0	0	0.0%	38	218	-0.83	0	3	-100.0%	5,937	4,332	37.0%
EURO FX (EU)	0	0	0.0%	110	4,477	-0.98	5	5	0.0%	28,568	54,286	-47.4%
SWISS FRANC (EU)	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%
CANADIAN DOLLAR (EU)	0	0	0.0%	7	66	-0.89	0	0	0.0%	1,811	1,439	25.9%
BRITISH POUND (EU)	0	0	0.0%	13	335	-0.96	0	2	-100.0%	9,164	6,534	40.3%
AUSTRALIAN DLR (EU)	0	0	0.0%	0	72	-1	0	0	0.0%	1,146	1,267	-9.6%
EUR/USD PQO 2pm Fix	968	-	-	248,305	-	-	2,670	-	-	398,256	-	-
CAD/USD PQO 2pm Fix	0	-	-	49,668	-	-	510	-	-	101,657	-	-
JPY/USD PQO 2pm Fix	1,300	-	-	144,436	-	-	1,319	-	-	211,513	-	-
AUD/USD PQO 2pm Fix	60	-	-	64,920	-	-	2,040	-	-	101,357	-	-
GBP/USD PQO 2pm Fix	0	-	-	59,550	-	-	1,323	-	-	135,426	-	-
CHF/USD PQO 2pm Fix	0	-	-	5,420	-	-	0	-	-	7,877	-	-

### Commodities and Alternative Investments

<b>Futures</b>												
CORN	29,909	25,318	18.1%	7,896,174	8,308,881	-0.05	454,247	1,192,994	-61.9%	78,432,294	74,667,714	5.0%
SOYBEAN	12,786	13,742	-7.0%	3,933,697	3,171,032	0.24	319,643	600,899	-46.8%	54,258,154	46,335,005	17.1%
SOYBEAN MEAL	3,976	7,831	-49.2%	2,033,105	2,036,104	0	51,109	164,073	-68.8%	22,939,006	21,113,587	8.6%
SOYBEAN OIL	8,559	5,440	57.3%	3,060,894	2,593,561	0.18	54,316	143,566	-62.2%	26,123,642	25,202,902	3.7%
OATS	136	15	806.7%	19,654	21,816	-0.1	196	568	-65.5%	200,736	162,236	23.7%
ROUGH RICE	0	7	-100.0%	12,769	18,463	-0.31	0	1,003	-100.0%	261,481	269,544	-3.0%
MINI CORN	0	0	0.0%	15,869	11,331	0.4	0	1,409	-100.0%	135,232	123,784	9.2%

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## CME Group Exchange Volume Comparison Report - Monthly

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<b>Commodities and Alternative Investments</b>												
<b>Futures</b>												
MINI SOYBEAN	0	0	0.0%	31,174	12,266	1.54	0	3,129	-100.0%	274,922	210,333	30.7%
MINI WHEAT	0	0	0.0%	6,232	6,424	-0.03	0	489	-100.0%	70,422	78,029	-9.7%
LIVE CATTLE	1,599	6,134	-73.9%	1,254,423	1,207,315	0.04	35,810	401,332	-91.1%	12,006,318	11,846,499	1.3%
FEEDER CATTLE	11	14	-21.4%	191,036	192,210	-0.01	291	42,744	-99.3%	2,336,306	2,219,534	5.3%
LEAN HOGS	2,273	4,137	-45.1%	911,411	832,536	0.09	25,199	317,850	-92.1%	8,316,822	8,682,832	-4.2%
LUMBER	0	0	0.0%	13,377	11,341	0.18	0	1,357	-100.0%	160,759	182,973	-12.1%
MILK	318	0	0.0%	27,816	22,449	0.24	1,475	3,228	-54.3%	281,704	246,317	14.4%
MLK MID	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%
NFD MILK	0	0	0.0%	4,104	5,259	-0.22	13	399	-96.7%	51,460	42,873	20.0%
BUTTER CS	0	0	0.0%	2,763	2,085	0.33	0	0	0.0%	35,409	27,901	26.9%
CLASS IV MILK	0	0	0.0%	1,418	673	1.11	70	149	-53.0%	12,652	9,912	27.6%
DRY WHEY	0	0	0.0%	1,821	1,970	-0.08	0	0	0.0%	14,187	18,360	-22.7%
GSCI EXCESS RETURN FUT	0	0	0.0%	0	0	0	0	0	0.0%	1,119	255	338.8%
GOLDMAN SACHS	0	0	0.0%	38,412	28,918	0.33	0	6,135	-100.0%	323,770	314,882	2.8%
ETHANOL	0	0	0.0%	16,030	11,211	0.43	0	0	0.0%	153,655	173,536	-11.5%
HDD WEATHER	0	0	0.0%	251	1,125	-0.78	0	0	0.0%	579	1,352	-57.2%
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	75	-1	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	50	-1	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%	46	17	1.71	0	0	0.0%	139	83	67.5%
DOW-UBS COMMOD INDEX	0	0	0.0%	32,468	23,912	0.36	0	0	0.0%	354,748	308,853	14.9%
COTTON	0	0	0.0%	2	18	-0.89	0	0	0.0%	577	570	1.2%
COCOA TAS	0	0	0.0%	14	498	-0.97	0	0	0.0%	2,594	1,691	53.4%
COFFEE	0	0	0.0%	1	37	-0.97	0	0	0.0%	169	621	-72.8%
SUGAR 11	0	0	0.0%	3	177	-0.98	0	0	0.0%	418	1,352	-69.1%
USD CRUDE PALM OIL	0	-	-	0	-		0	-	-	0	-	-
CASH-SETTLED CHEESE	0	0	0.0%	7,325	11,756	-0.38	6	0	0.0%	108,406	101,778	6.5%
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 NOV 2016	Open Outcry NOV 2015	% CHG	ELEC NOV 2016	ELEC NOV 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	25,344	11,067	129.0%	3,215,144	3,106,064	0.04	194,471	306,790	-36.6%	29,073,604	28,941,254	0.5%
DJ_UBS ROLL SELECT INDEX	0	0	0.0%	0	0	0	0	0	0.0%	0	6	-100.0%
KC WHEAT	304	2,252	-86.5%	1,083,946	884,221	0.23	12,629	21,249	-40.6%	8,719,088	6,720,129	29.7%
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	401,479	497,671	-19.3%	904,319	914,058	-0.01	7,532,508	9,077,540	-17.0%	14,159,870	13,686,402	3.5%
SOYBEAN	307,965	265,826	15.9%	925,912	774,471	0.2	4,756,070	6,011,623	-20.9%	14,256,658	11,236,536	26.9%
SOYBEAN MEAL	51,408	91,393	-43.8%	98,554	153,897	-0.36	687,873	1,079,319	-36.3%	1,443,849	1,619,723	-10.9%
SOYBEAN OIL	92,131	118,877	-22.5%	108,749	73,208	0.49	1,037,535	1,167,972	-11.2%	1,096,112	667,151	64.3%
SOYBEAN CRUSH	20	463	-95.7%	0	0	0	4,793	2,102	128.0%	0	0	0.0%
OATS	2,050	1,013	102.4%	1,093	582	0.88	8,116	13,366	-39.3%	9,219	6,324	45.8%
ROUGH RICE	320	253	26.5%	1,193	1,210	-0.01	2,733	6,027	-54.7%	16,449	14,569	12.9%
WHEAT	0	25	-100.0%	0	50	-1	0	510	-100.0%	0	50	-100.0%
LIVE CATTLE	49,258	187,591	-73.7%	208,829	239,517	-0.13	1,192,939	1,195,589	-0.2%	2,596,173	2,304,220	12.7%
FEEDER CATTLE	4,147	4,105	1.0%	27,088	28,052	-0.03	50,004	40,906	22.2%	333,066	350,721	-5.0%
LEAN HOGS	21,607	62,004	-65.2%	133,110	239,183	-0.44	398,658	638,010	-37.5%	1,611,709	1,970,910	-18.2%
LUMBER	2	0	0.0%	1,116	772	0.45	112	18	522.2%	11,384	12,322	-7.6%
MILK	13,659	9,062	50.7%	18,506	9,599	0.93	139,403	109,217	27.6%	190,147	133,610	42.3%
MLK MID	168	48	250.0%	0	0	0	750	471	59.2%	0	0	0.0%
NFD MILK	381	3,122	-87.8%	956	998	-0.04	20,360	36,611	-44.4%	13,223	5,133	157.6%
BUTTER CS	510	153	233.3%	749	48	14.6	10,062	9,621	4.6%	3,302	2,014	64.0%
CLASS IV MILK	130	62	109.7%	943	328	1.88	2,968	5,382	-44.9%	9,027	2,467	265.9%
DRY WHEY	39	20	95.0%	36	0	0	941	2,552	-63.1%	91	316	-71.2%
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 NOV 2016	Open Outcry NOV 2015	% CHG	ELEC NOV 2016	ELEC NOV 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	2,428	9,904	-75.5%	0	11	-1	35,161	48,646	-27.7%	82	2,178	-96.2%
SOYBN NEARBY+2 CAL SPRD	0	0	0.0%	0	0	0	1,401	280	400.4%	0	0	0.0%
WHEAT NEARBY+2 CAL SPRD	7,096	6,309	12.5%	568	163	2.48	51,582	125,047	-58.7%	2,359	5,829	-59.5%
JULY-DEC CORN CAL SPRD	0	1,096	-100.0%	0	0	0	36,609	31,647	15.7%	175	827	-78.8%
DEC-JULY WHEAT CAL SPRD	75	0	0.0%	0	0	0	590	35	1,585.7%	0	0	0.0%
JULY-NOV SOYBEAN CAL SPR	3,166	2,223	42.4%	0	0	0	65,192	36,968	76.3%	263	198	32.8%
JULY-DEC WHEAT CAL SPRD	100	0	0.0%	0	0	0	33,474	10,404	221.7%	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	5	0	0.0%	0	0	0	270	81	233.3%	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	1,000	0	0.0%	0	0	0	1,000	45	2,122.2%	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	5,009	9,087	-44.9%	1,407	2,036	-0.31	57,561	50,842	13.2%	24,524	17,116	43.3%
DEC-JULY CORN CAL SPRD	6,330	35	17,985.7%	0	0	0	26,533	9,610	176.1%	10	460	-97.8%
WHEAT-CORN ICSCO	1,800	360	400.0%	0	0	0	17,452	15,610	11.8%	0	0	0.0%
DEC-DEC CORN CAL SPRD	17	735	-97.7%	0	0	0	17,868	4,240	321.4%	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	184,062	147,393	24.9%	372,469	302,685	0.23	1,902,015	2,996,939	-36.5%	4,619,471	3,956,726	16.7%
MAR-JULY CORN CAL SPRD	0	300	-100.0%	0	0	0	2,416	300	705.3%	4	0	0.0%
KC WHEAT	5,704	28,639	-80.1%	13,470	10,458	0.29	155,346	307,486	-49.5%	170,195	139,169	22.3%
MAR-JULY WHEAT CAL SPRD	700	1,705	-58.9%	0	3	-1	2,350	7,310	-67.9%	0	11	-100.0%
AUG-DEC SOYBEAN MEAL CS	0	-	-	0	-		5	-	-	0	-	-

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2016	Open Outcry NOV 2015	% CHG	ELEC NOV 2016	ELEC NOV 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 Options</b>												
Intercommodity Spread	51	0	0.0%	0	0	0	3,446	959	259.3%	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	-	-	6,345	-		0	-	-	71,443	-	-
<b>Ags Options</b>												
WHEAT	0	-	-	52	-		0	-	-	409	-	-
<b>Foreign Exchange Futures</b>												
CHILEAN PESO	0	0	0.0%	0	0	0	6	0	0.0%	4	71	-94.4%
<b>TOTAL FUTURES GROUP</b>												
Interest Rate Futures	1,189,598	699,416	70.1%	185,411,034	103,198,281	79.7%	8,384,926	12,528,303	-33.1%	1,284,316,561	1,178,058,099	9.0%
Equity Index Futures	61,717	72,355	-14.7%	49,415,093	36,980,811	33.6%	1,175,560	1,538,869	-23.6%	559,000,276	504,465,092	10.8%
Metals Futures	7,971	9,290	-14.2%	13,098,442	7,307,666	79.2%	109,446	649,231	-83.1%	93,590,517	69,256,084	35.1%
Energy Futures	160	16,961	-99.1%	45,366,709	29,498,178	53.8%	27,236	229,640	-88.1%	432,616,113	341,891,054	26.5%
FX Futures	975	1,787	-45.4%	18,727,802	12,636,765	48.2%	16,862	231,111	-92.7%	178,077,000	179,444,685	-0.8%
Commodities and Alternative Inve	85,215	75,957	12.2%	23,811,379	22,523,795	5.7%	1,149,475	3,209,363	-64.2%	244,650,922	228,007,263	7.3%
Ags Futures	0	-	-	6,345	-		0	-	-	71,443	-	-
Foreign Exchange Futures	0	0	0.0%	0	0	0.0%	6	0	0.0%	4	71	-94.4%
<b>TOTAL FUTURES</b>	<b>1,345,636</b>	<b>875,766</b>	<b>53.7%</b>	<b>335,836,804</b>	<b>212,145,496</b>	<b>58.3%</b>	<b>10,863,511</b>	<b>18,386,517</b>	<b>-40.9%</b>	<b>2,792,322,836</b>	<b>2,501,122,348</b>	<b>11.6%</b>

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## CME Group Exchange Volume Comparison Report - Monthly

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<b>TOTAL OPTIONS GROUP</b>												
Equity Index Options	1,111,230	879,174	26.4%	15,751,107	9,143,701	72.3%	12,402,083	10,872,366	14.1%	134,421,318	117,345,076	14.6%
Interest Rate Options	26,592,167	17,388,233	52.9%	23,564,877	11,089,844	112.5%	222,878,883	209,438,498	6.4%	161,087,603	126,460,280	27.4%
Metals Options	28,247	73,619	-61.6%	1,195,465	512,025	133.5%	705,331	1,096,155	-35.7%	7,994,772	5,668,721	41.0%
Energy Options	3,986	120,936	-96.7%	4,919,901	2,503,706	96.5%	281,552	1,564,376	-82.0%	40,653,356	27,861,155	45.9%
FX Options	13,698	25,548	-46.4%	1,736,153	1,403,558	23.7%	261,040	596,173	-56.2%	16,190,720	18,717,095	-13.5%
Commodities and Alternative Inve	1,162,817	1,449,474	-19.8%	2,819,067	2,751,329	2.5%	18,263,363	23,050,480	-20.8%	40,567,553	36,137,284	12.3%
Ags Options	0	-	-	52	-	-	0	-	-	409	-	-
<b>TOTAL OPTIONS</b>	<b>28,912,145</b>	<b>19,936,984</b>	<b>45.0%</b>	<b>49,986,622</b>	<b>27,404,163</b>	<b>82.4%</b>	<b>254,792,252</b>	<b>246,618,048</b>	<b>3.3%</b>	<b>400,915,731</b>	<b>332,189,611</b>	<b>20.7%</b>
<b>TOTAL COMBINED</b>												
Interest Rate	27,781,765	18,087,649	53.6%	208,975,911	114,288,125	82.9%	231,263,809	221,966,801	4.2%	1,445,404,164	1,304,518,379	10.8%
Equity Index	1,172,947	951,529	23.3%	65,166,200	46,124,512	41.3%	13,577,643	12,411,235	9.4%	693,421,594	621,810,168	11.5%
Metals	36,218	82,909	-56.3%	14,293,907	7,819,691	82.8%	814,777	1,745,386	-53.3%	101,585,289	74,924,805	35.6%
Energy	4,146	137,897	-97.0%	50,286,610	32,001,884	57.1%	308,788	1,794,016	-82.8%	473,269,469	369,752,209	28.0%
FX	14,673	27,335	-46.3%	20,463,955	14,040,323	45.8%	277,902	827,284	-66.4%	194,267,720	198,161,780	-2.0%
Commodities and Alternative Inve	1,248,032	1,525,431	-18.2%	26,630,446	25,275,124	5.4%	19,412,838	26,259,843	-26.1%	285,218,475	264,144,547	8.0%
Ags	0	-	-	6,397	-	-	0	-	-	71,852	-	-
Foreign Exchange	0	0	0.0%	0	0	0.0%	6	0	0.0%	4	71	-94.4%
<b>GRAND TOTAL</b>	<b>30,257,781</b>	<b>20,812,750</b>	<b>45.4%</b>	<b>385,823,426</b>	<b>239,549,659</b>	<b>61.1%</b>	<b>265,655,763</b>	<b>265,004,565</b>	<b>0.2%</b>	<b>3,193,238,567</b>	<b>2,833,311,959</b>	<b>12.7%</b>

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