

## CME Group Exchange Open Interest Report - Monthly

	Open Interest NOV 2018	Open Interest NOV 2017	% CHG	Open Interest OCT 2018	% CHG
<b>Interest Rate Futures</b>					
10-YR NOTE	4,197,603	3,473,364	20.9%	4,236,569	-0.9%
10-YR SWAP RATE	30,890	27,909	10.7%	31,871	-3.1%
1-MONTH EURODOLLAR	141	4,938	-97.1%	141	0.0%
2-YR NOTE	2,698,882	1,747,558	54.4%	2,437,599	10.7%
2-YR SWAP RATE	0	0	-	0	-
30-YR BOND	999,208	793,217	26.0%	913,788	9.3%
30-YR SWAP RATE	0	124	-100.0%	0	-
5-YR NOTE	4,954,993	3,236,108	53.1%	4,743,124	4.5%
5-YR SWAP RATE	17,579	23,089	-23.9%	16,569	6.1%
7-YR SWAP	0	0	-	0	-
EURODOLLARS	14,275,452	13,859,549	3.0%	14,393,939	-0.8%
FED FUND	2,051,535	1,540,290	33.2%	1,991,747	3.0%
SOFR	55,832	0	-	50,343	10.9%
SONIA	7,448	0	-	4,523	64.7%
Ultra 10-Year Note	686,869	503,125	36.5%	661,884	3.8%
ULTRA T-BOND	1,121,760	898,665	24.8%	1,062,689	5.6%
<b>Interest Rate Options</b>					
10-YR NOTE	3,615,812	2,485,753	45.5%	4,125,459	-12.4%
2-YR NOTE	141,463	182,790	-22.6%	196,487	-28.0%
30-YR BOND	845,854	473,180	78.8%	1,082,187	-21.8%
5-YR NOTE	1,911,759	870,027	119.7%	2,074,123	-7.8%
EURODOLLARS	31,291,739	27,105,149	15.4%	29,968,923	4.4%
EURO MIDCURVE	18,090,323	19,395,803	-6.7%	16,932,479	6.8%
FED FUND	905	6,675	-86.4%	1,600	-43.4%
Ultra 10-Year Note	60	0	-	40	50.0%
ULTRA T-BOND	23,174	3,140	638.0%	16,179	43.2%

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<b>Equity Index Futures</b>					
BITCOIN FUTURES	3,401	0	-	2,917	16.6%
DJ US REAL ESTATE	28,451	22,088	28.8%	26,546	7.2%
E-mini (\$5) Dow	78,302	154,698	-49.4%	87,210	-10.2%
E-mini FTSE 100 (USD)	20	0	0.0%	10	100.0%
E-mini FTSE China 50	338	182	85.7%	228	48.2%
E-MINI MIDCAP	64,158	93,376	-31.3%	72,563	-11.6%
E-MINI NASDAQ 100	239,000	301,627	-20.8%	244,628	-2.3%
E-MINI RUSSELL 1000	8,733	9,683	-9.8%	8,943	-2.3%
E-MINI RUSSELL 1000 GROWTH	2,513	9,375	-73.2%	1,597	57.4%
E-MINI RUSSELL 1000 VALUE	7,509	12,531	-40.1%	5,063	48.3%
E-MINI RUSSELL 2000	469,334	584,774	-19.7%	477,726	-1.8%
E-MINI S&P500	3,054,193	3,483,606	-12.3%	2,969,116	2.9%
E-MINI S&P REAL ESTATE SELE	4,471	3,079	45.2%	3,637	22.9%
FT-SE 100	93	221	-57.9%	49	89.8%
FTSE Emerging	86	10	760.0%	211	-59.2%
IBOVESPA INDEX	203	407	-50.1%	191	6.3%
NASDAQ BIOTECH	656	410	60.0%	656	0.0%
NIFTY 50	0	620	-100.0%	0	-
NIKKEI 225 (\$) STOCK	32,640	41,757	-21.8%	29,228	11.7%
NIKKEI 225 (YEN) STOCK	66,635	59,998	11.1%	63,344	5.2%
S&P 500	306,516	130,244	135.3%	269,924	13.6%
S&P 500/GI	10	22	-54.5%	10	0.0%
S&P 500/VALUE	114,310	98,925	15.6%	115,316	-0.9%
S&P 600 SMALLCAP EMINI	0	0	-	0	-
S&P CONSUMER DSCRTNRY SE	5,318	3,679	44.6%	4,949	7.5%
S&P CONSUMER STAPLES SECT	12,690	22,352	-43.2%	13,264	-4.3%
S&P ENERGY SECTOR	15,822	12,495	26.6%	11,984	32.0%
S&P FINANCIAL SECTOR	30,445	32,139	-5.3%	28,820	5.6%
S&P HEALTH CARE SECTOR	19,404	8,575	126.3%	16,095	20.6%
S&P INDUSTRIAL SECTOR	16,559	4,623	258.2%	11,176	48.2%
S&P MATERIALS SECTOR	11,453	6,295	81.9%	12,797	-10.5%
S&P TECHNOLOGY SECTOR	12,755	9,289	37.3%	12,198	4.6%
S&P UTILITIES SECTOR	15,468	21,625	-28.5%	15,768	-1.9%
YEN DENOMINATED TOPIX	242	0	-	177	36.7%

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<b>Equity Index Options</b>					
E-mini (\$5) Dow	11,490	12,580	-8.7%	9,116	26.0%
E-MINI MIDCAP	0	0	-	0	-
E-MINI NASDAQ 100	79,246	121,576	-34.8%	75,690	4.7%
E-MINI RUSSELL 2000	16,486	10,843	52.0%	13,972	18.0%
E-MINI S&P500	2,797,851	2,556,706	9.4%	2,181,584	28.2%
EOM E-MINI RUSSELL 2000 END	2,722	1,825	49.2%	3,193	-14.8%
EOM EMINI S&P	650,116	907,367	-28.4%	929,050	-30.0%
EOM S&P 500	46,503	118,122	-60.6%	64,852	-28.3%
EOW1 E-MINI RUSSELL 2000 WE	760	513	48.1%	659	15.3%
EOW1 E-MINI RUSSELL 2000 WE	1,237	621	99.2%	1,489	-16.9%
EOW1 EMINI S&P 500	344,476	453,421	-24.0%	326,378	5.5%
EOW1 S&P 500	12,525	90,265	-86.1%	48,011	-73.9%
EOW2 E-MINI RUSSELL 2000 WE	751	1,096	-31.5%	904	-16.9%
EOW2 EMINI S&P 500	145,789	298,746	-51.2%	195,329	-25.4%
EOW2 S&P 500	3,816	40,052	-90.5%	7,049	-45.9%
EOW3 E-MINI RUSSELL 2000 WE	4,805	4,457	7.8%	9,476	-49.3%
EOW3 EMINI S&P 500	488,645	739,271	-33.9%	1,098,888	-55.5%
EOW3 S&P 500	53,292	144,270	-63.1%	84,872	-37.2%
EOW4 E-MINI RUSSELL 2000 WE	82	685	-88.0%	10	720.0%
EOW4 EMINI S&P 500	41,735	98,154	-57.5%	88,358	-52.8%
S&P 500	186,661	246,996	-24.4%	86,823	115.0%
<b>Metals Futures</b>					
ALUMINUM	68,109	64,446	5.7%	63,875	6.6%
COMEX COPPER	215,249	265,886	-19.0%	259,850	-17.2%
COMEX E-Mini GOLD	1,000	716	39.7%	2,430	-58.8%
COMEX E-Mini SILVER	143	95	50.5%	276	-48.2%
COMEX GOLD	388,430	485,509	-20.0%	492,606	-21.1%
COMEX MINY COPPER	37	208	-82.2%	48	-22.9%
COMEX SILVER	184,700	187,033	-1.2%	211,879	-12.8%
COPPER	13,325	3,971	235.6%	12,980	2.7%
E-MICRO GOLD	9,130	7,405	23.3%	14,150	-35.5%
FERROUS PRODUCTS	4,096	735	457.3%	3,988	2.7%
GOLD	0	0	-	0	-
Gold Kilo	0	3	-100.0%	0	-
IRON ORE 62 CHINA PLATTS FU	160	3,560	-95.5%	240	-33.3%
IRON ORE 62 CHINA TSI FUTURE	9,478	12,898	-26.5%	8,800	7.7%
LNDN ZINC	25	10	150.0%	42	-40.5%
METALS	0	0	-	0	-
NYMEX HOT ROLLED STEEL	15,800	15,059	4.9%	18,075	-12.6%
NYMEX PLATINUM	74,698	78,561	-4.9%	75,566	-1.1%
PALLADIUM	24,971	34,697	-28.0%	27,454	-9.0%
SILVER	2,118	1,618	30.9%	2,274	-6.9%
URANIUM	4,782	4,015	19.1%	4,670	2.4%

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<b>Metals Options</b>					
COMEX COPPER	15,787	7,352	114.7%	30,540	-48.3%
COMEX GOLD	1,080,006	794,099	36.0%	1,369,304	-21.1%
COMEX SILVER	210,531	93,564	125.0%	245,758	-14.3%
COPPER	115	0	-	17	576.5%
GOLD	9,112	7,082	28.7%	12,824	-28.9%
HOT ROLLED COIL STEEL CALL	400	330	21.2%	300	33.3%
IRON ORE 62 CHINA TSI CALL O	536	7,230	-92.6%	766	-30.0%
IRON ORE 62 CHINA TSI PUT OP	80	4,980	-98.4%	90	-11.1%
NYMEX PLATINUM	5,945	4,837	22.9%	5,980	-0.6%
PALLADIUM	834	3,010	-72.3%	2,150	-61.2%
SILVER	1,113	8	13,812.5%	1,049	6.1%
<b>Energy Futures</b>					
3.5% FUEL OIL CID MED SWA	133	225	-40.9%	148	-10.1%
3.5% FUEL OIL CIF BALMO S	0	0	-	0	-
AEP-DAYTON HUB DAILY	68	164	-58.5%	68	0.0%
AEP-DAYTON HUB MTHLY	0	140	-100.0%	0	-
AEP-DAYTON HUB OFF-PEAK M	0	100	-100.0%	0	-
ALGON CITY GATES NAT GAS	0	0	-	0	-
ALGONQUIN CITYGATES BASIS	0	276	-100.0%	0	-
ANR LOUISIANA BASIS SWAP	0	0	-	0	-
ANR OKLAHOMA	273	1,734	-84.3%	363	-24.8%
APPALACHIAN COAL (PHY)	0	0	-	0	-
ARGUS LLS VS. WTI (ARG) T	39,993	53,921	-25.8%	40,755	-1.9%
ARGUS PROPAN FAR EST INDE	5,290	3,277	61.4%	5,654	-6.4%
ARGUS PROPAN(SAUDI ARAMC	2,448	905	170.5%	2,431	0.7%
AUSTRIALIAN COKE COAL	96	484	-80.2%	120	-20.0%
BRENT BALMO SWAP	0	0	-	0	-
BRENT CALENDAR SWAP	21,164	17,250	22.7%	21,510	-1.6%
BRENT CFD SWAP	0	0	-	0	-
BRENT FINANCIAL FUTURES	1,158	4,022	-71.2%	3,892	-70.2%
BRENT OIL LAST DAY	221,956	151,897	46.1%	218,768	1.5%
CAISO SP15 EZGNHUB5 MW P	0	0	-	0	-
CAISO SP15 EZGNHUB5 PEAK	0	0	-	0	-
CANADIAN LIGHT SWEET OIL	0	84	-100.0%	7	-100.0%
CENTERPOINT BASIS SWAP	2,769	10,293	-73.1%	3,303	-16.2%
CENTERPOINT EAST INDEX	0	0	-	0	-
CEU ENERGY	426	0	-	312	36.5%
CHICAGO ETHANOL SWAP	52,410	56,465	-7.2%	51,437	1.9%
CHICAGO ULSD (PLATTS) SWA	0	0	-	0	-
CHICAGO ULSD PL VS HO SPR	1,657	501	230.7%	1,408	17.7%
CHICAGO UNL GAS PL VS RBO	0	6	-100.0%	100	-100.0%
CIG BASIS	7,938	24,695	-67.9%	9,163	-13.4%
CIG ROCKIES NG INDEX SWA	0	0	-	0	-
CINERGY HUB OFF-PEAK MONT	20	120	-83.3%	30	-33.3%
CINERGY HUB PEAK MONTH	48	288	-83.3%	72	-33.3%
CIN HUB 5MW D AH O PK	0	163,800	-100.0%	14,840	-100.0%
CIN HUB 5MW D AH PK	2,411	8,680	-72.2%	2,902	-16.9%
CIN HUB 5MW REAL TIME O P	179,384	499,128	-64.1%	206,264	-13.0%

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<b>Energy Futures</b>					
CIN HUB 5MW REAL TIME PK	20,034	40,014	-49.9%	21,777	-8.0%
COAL SWAP	80	130	-38.5%	20	300.0%
COLUMB GULF MAINLINE NG B	615	5,766	-89.3%	670	-8.2%
COLUMBIA GULF MAIN NAT G	0	0	-	0	-
COLUMBIA GULF ONSHORE	0	1,457	-100.0%	0	-
CONWAY NATURAL GASOLINE (	1,356	1,248	8.7%	719	88.6%
CONWAY NORMAL BUTANE (OPI	1,309	2,712	-51.7%	1,524	-14.1%
CONWAY PROPANE 5 DECIMALS	24,158	17,860	35.3%	25,507	-5.3%
CRUDE OIL	24,016	19,130	25.5%	24,052	-0.1%
CRUDE OIL OUTRIGHTS	133,572	91,797	45.5%	145,730	-8.3%
CRUDE OIL PHY	2,061,069	2,524,205	-18.3%	2,092,811	-1.5%
CRUDE OIL SPRDS	144,976	70,917	104.4%	151,792	-4.5%
CRUDE OIL TRADE AT MARKER	0	0	0.0%	0	0.0%
DAILY PJM	166,447	399,928	-58.4%	152,436	9.2%
DATED BRENT (PLATTS) DAILY S	0	0	-	0	-
DATED TO FRONTLINE BRENT	3,565	11,105	-67.9%	3,715	-4.0%
DEMARC INDEX FUTURE	0	0	-	0	-
DEMARC SWING SWAP	0	0	-	0	-
DIESEL 10P BRG FOB RDM VS	0	0	-	0	-
DIESEL 10PPM BARGES FOB B	0	0	-	0	-
DLY GAS EURO-BOB OXY	0	0	-	0	-
DOMINION TRAN INC - APP I	488	2,920	-83.3%	736	-33.7%
DOMINION TRANSMISSION INC	13,799	31,795	-56.6%	14,609	-5.5%
DUBAI CRUDE OIL BALMO	0	0	-	0	-
DUBAI CRUDE OIL CALENDAR	40,608	12,220	232.3%	39,415	3.0%
DY EURO 3.5% FUEL OI RDA	0	0	-	0	-
EASTERN RAIL DELIVERY CSX	0	255	-100.0%	30	-100.0%
EAST/WEST FUEL OIL SPREAD	42	115	-63.5%	42	0.0%
EIA FLAT TAX ONHWAY DIESE	1,785	3,088	-42.2%	1,898	-6.0%
ELEC ERCOT DLY OFF PK	0	0	-	0	-
ELEC ERCOT DLY PEAK	0	0	-	0	-
ELEC ERCOT OFF PEAK	0	0	-	0	-
ELEC FINSETTLED	1,106	1,739	-36.4%	1,152	-4.0%
ELEC MISO PEAK	615	3,989	-84.6%	960	-35.9%
ELEC NYISO OFF-PEAK	12,135	73,436	-83.5%	17,775	-31.7%
ELECTRICITY ERCOT PEAK	0	0	-	0	-
ELECTRICITY OFF PEAK	75,702	32,109	135.8%	21,074	259.2%
ELEC WEST POWER OFF-PEAK	0	0	-	0	-
ELEC WEST POWER PEAK	0	0	-	0	-
EL PASO PERMIAN INDEX SWA	0	0	-	0	-
ERCOT DAILY 5MW PEAK	0	0	-	0	-
ERCOT HOUSTON Z MCPE 5MW	0	3,880	-100.0%	0	-
ERCOT NORTH ZMCPE 5MW OF	0	0	-	0	-
ERCOT NORTH ZMCPE 5MW OF	0	100,400	-100.0%	0	-
ERCOT NORTH ZMCPE 5MW PE	0	5,980	-100.0%	0	-
ETHANOL	2,879	1,843	56.2%	2,639	9.1%
ETHANOL SWAP	390	0	-	120	225.0%
ETHANOL T2 FOB ROTT INCL DU	6,224	6,396	-2.7%	5,832	6.7%
EURO 1% FUEL OIL NEW BALM	0	0	-	0	-
EURO 3.5% FUEL OIL RDAM B	235	740	-68.2%	162	45.1%
EURO 3.5% FUEL OIL SPREAD	46	543	-91.5%	86	-46.5%

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<b>Energy Futures</b>					
EURO-DENOMINATED PETRO P	0	0	-	0	-
EURO GASOIL 10 CAL SWAP	0	0	-	0	-
EURO GASOIL 10PPM VS ICE	104	275	-62.2%	126	-17.5%
EUROPE 1% FUEL OIL NWE CA	258	29	789.7%	177	45.8%
EUROPE 1% FUEL OIL RDAM C	3	0	-	3	0.0%
EUROPE 3.5% FUEL OIL MED	186	615	-69.8%	198	-6.1%
EUROPE 3.5% FUEL OIL RDAM	9,559	10,660	-10.3%	9,984	-4.3%
EUROPEAN GASOIL (ICE)	222	787	-71.8%	203	9.4%
EUROPEAN NAPHTHA BALMO	184	107	72.0%	420	-56.2%
EUROPEAN NAPHTHA CRACK SP	18,168	12,484	45.5%	19,417	-6.4%
EUROPE DATED BRENT SWAP	4,720	962	390.6%	2,200	114.5%
EUROPE JET KERO NWE CALSW	30	54	-44.4%	33	-9.1%
EUROPE NAPHTHA CALSWAP	4,144	2,482	67.0%	4,114	0.7%
EURO PROPANE CIF ARA SWA	2,160	1,520	42.1%	2,028	6.5%
FL GAS ZONE 3 NAT GAS IND	0	0	-	0	-
FLORIDA GAS ZONE3 BASIS S	0	0	-	0	-
FREIGHT MARKETS	4,183	744	462.2%	3,489	19.9%
FUEL OIL CRACK VS ICE	9,823	14,264	-31.1%	11,113	-11.6%
FUEL OIL NWE CRACK VS ICE	171	0	-	171	0.0%
FUEL OIL (PLATS) CAR CM	28	26	7.7%	42	-33.3%
FUEL OIL (PLATS) CAR CN	50	0	-	75	-33.3%
FUELOIL SWAP:CARGOES VS.B	674	957	-29.6%	784	-14.0%
GAS EURO-BOB OXY NWE BARG	5,919	3,514	68.4%	6,389	-7.4%
GAS EURO-BOB OXY NWE BARG	33,497	27,777	20.6%	33,505	0.0%
GASOIL 0.1 BRGS FOB VS IC	0	0	-	0	-
GASOIL 0.1 CIF MED SWAP	0	0	-	0	-
GASOIL 0.1CIF MED VS ICE	0	10	-100.0%	0	-
GASOIL 0.1 CIF NWE VS ISE	0	0	-	0	-
GASOIL 0.1 CIF VS ICE GAS	0	0	-	0	-
GASOIL 0.1 CRG CIF NW VS	0	0	-	0	-
GASOIL 0.1 RDAM BRGS VS I	24	144	-83.3%	39	-38.5%
GASOIL 0.1 ROTTERDAM BARG	71	55	29.1%	100	-29.0%
GASOIL 10P CRG CIF NW VS	0	0	-	0	-
GASOIL 10PPM CARGOES CIF	0	0	-	0	-
GASOIL 10PPM VS ICE SWAP	97	702	-86.2%	144	-32.6%
GASOIL BULLET SWAP	0	130	-100.0%	0	-
GASOIL CALENDAR SWAP	10	17	-41.2%	12	-16.7%
GASOIL CRACK SPREAD CALEN	16,830	20,125	-16.4%	18,257	-7.8%
GASOIL MINI CALENDAR SWAP	1,382	461	199.8%	876	57.8%
GASOLINE UP-DOWN BALMO SW	0	0	-	0	-
GROUP THREE ULSD (PLATTS)	70	50	40.0%	58	20.7%
GROUP THREE UNLEAD GAS (P	175	0	-	225	-22.2%
GRP THREE ULSD(PLT)VS HEA	7,474	13,948	-46.4%	7,171	4.2%
GRP THREE UNL GS (PLT) VS	4,759	4,865	-2.2%	5,904	-19.4%
GULF COAST 3% FUEL OIL BA	703	1,058	-33.6%	1,067	-34.1%
GULF COAST GASOLINE CLNDR	0	0	-	0	-
GULF COAST JET FUEL CLNDR	869	746	16.5%	819	6.1%
GULF COAST JET VS NYM 2 H	28,964	27,030	7.2%	35,418	-18.2%
GULF COAST NO.6 FUEL OIL	39,293	49,389	-20.4%	43,775	-10.2%
GULF COAST ULSD CALENDAR	1,638	2,330	-29.7%	1,871	-12.5%
GULF COAST ULSD CRACK SPR	685	920	-25.5%	615	11.4%

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest NOV 2018	Open Interest NOV 2017	% CHG	Open Interest OCT 2018	% CHG
<b>Energy Futures</b>					
HEATING OIL BALMO CLNDR S	0	0	-	0	-
HEATING OIL CRCK SPRD BAL	0	0	-	0	-
HEATING OIL PHY	364,275	428,932	-15.1%	414,863	-12.2%
HENRY HUB BASIS SWAP	10,244	5,559	84.3%	16,844	-39.2%
HENRY HUB FINANCIAL LAST	3	4	-25.0%	6	-50.0%
HENRY HUB INDEX SWAP FUTU	16,720	2,139	681.7%	24,904	-32.9%
HENRY HUB SWAP	1,034,914	1,194,164	-13.3%	1,052,697	-1.7%
HENRY HUB SWING FUTURE	0	0	-	0	-
HOUSTON SHIP CHANNEL BASI	11,789	19,485	-39.5%	12,239	-3.7%
HOUSTON SHIP CHANNEL INDE	0	0	-	0	-
HTG OIL	180	288	-37.5%	175	2.9%
HUSTN SHIP CHNL PIPE SWP	0	0	-	0	-
ICE BRENT DUBAI SWAP	40,144	47,089	-14.7%	42,577	-5.7%
ICE GASOIL BALMO SWAP	0	0	-	0	-
IN DELIVERY MONTH EUA	2,450	10,598	-76.9%	2,450	0.0%
INDIANA MISO	26,712	54,279	-50.8%	26,456	1.0%
INDONESIAN COAL	0	0	-	0	-
INDONESIAN COAL ICI4	260	0	-	210	23.8%
ISO NEW ENGLAND OFF-PEAK	0	28	-100.0%	0	-
ISO NEW ENGLAND PK LMP	0	34	-100.0%	0	-
JAPAN C&F NAPHTHA CRACK S	251	1,838	-86.3%	175	43.4%
JAPAN C&F NAPHTHA SWAP	2,656	2,002	32.7%	2,798	-5.1%
JAPAN NAPHTHA BALMO SWAP	20	0	-	82	-75.6%
JET AV FUEL (P) CAR FM ICE GA	4	34	-88.2%	6	-33.3%
JET BARGES VS ICE GASOIL	0	0	-	0	-
JET CIF NWE VS ICE	360	587	-38.7%	378	-4.8%
JET FUEL BRG FOB RDM VS I	0	0	-	0	-
JET FUEL CRG CIF NEW VS I	0	2	-100.0%	0	-
JET FUEL UP-DOWN BALMO CL	5,075	3,505	44.8%	5,565	-8.8%
LA CARB DIESEL (OPIS)	0	0	-	0	-
LA CARB DIESEL (OPIS) SWA	340	225	51.1%	525	-35.2%
LA CARBOB GASOLINE(OPIS)S	810	225	260.0%	550	47.3%
LA JET FUEL VS NYM NO 2 H	0	0	-	0	-
LA JET (OPIS) SWAP	1,689	1,785	-5.4%	1,819	-7.1%
LLS (ARGUS) CALENDAR SWAP	542	0	-	563	-3.7%
LLS (ARGUS) VS WTI SWAP	32,865	19,113	72.0%	34,346	-4.3%
LOS ANGELES CARB GASOLINE	10	0	-	0	-
LTD NAT GAS	489,683	396,152	23.6%	467,999	4.6%
MARS (ARGUS) VS WTI SWAP	5,990	9,910	-39.6%	6,420	-6.7%
MARS (ARGUS) VS WTI TRD M	20,520	22,190	-7.5%	16,600	23.6%
MARS BLEND CRUDE OIL	0	1,720	-100.0%	0	-
MCCLOSKEY ARA ARGS COAL	28,906	44,875	-35.6%	28,811	0.3%
MCCLOSKEY RCH BAY COAL	3,467	4,846	-28.5%	3,034	14.3%
MGF FUT	50	54	-7.4%	40	25.0%
MGN1 SWAP FUT	374	294	27.2%	336	11.3%
MICHCON NG INDEX SWAP	0	0	-	0	-
MICHIGAN BASIS	2,413	5,851	-58.8%	2,693	-10.4%
MICHIGAN MISO	5,943	73,160	-91.9%	8,736	-32.0%
MINI GAS EUROBOB OXY NWE A	347	175	98.3%	247	40.5%
MINI RBOB V. EBOBARG NWE BF	0	90	-100.0%	0	-
MINI RBOB V. EBOB(ARGUS) NW	3,172	1,822	74.1%	3,646	-13.0%

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## CME Group Exchange Open Interest Report - Monthly

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<b>Energy Futures</b>					
MINY HTG OIL	0	0	-	2	-100.0%
MINY NATURAL GAS	2,815	1,811	55.4%	2,139	31.6%
MINY RBOB GAS	0	0	-	0	-
MINY WTI CRUDE OIL	5,664	4,390	29.0%	4,519	25.3%
MJC FUT	365	680	-46.3%	330	10.6%
MNC FUT	7,315	3,725	96.4%	6,345	15.3%
MONT BELVIEU ETHANE 5 DECI	40,260	64,127	-37.2%	42,299	-4.8%
MONT BELVIEU ETHANE OPIS B	80	180	-55.6%	125	-36.0%
MONT BELVIEU LDH PROPANE 5	127,330	111,680	14.0%	127,903	-0.4%
MONT BELVIEU LDH PROPANE C	1,806	1,103	63.7%	1,427	26.6%
MONT BELVIEU NATURAL GASO	20,996	14,028	49.7%	20,488	2.5%
MONT BELVIEU NATURAL GASO	40	450	-91.1%	225	-82.2%
MONT BELVIEU NORMAL BUTAN	48,111	44,713	7.6%	54,119	-11.1%
MONT BELVIEU NORMAL BUTAN	790	529	49.3%	1,487	-46.9%
NAT GAS BASIS SWAP	2,803	6,021	-53.4%	3,043	-7.9%
NATURAL GAS	102,224	107,752	-5.1%	79,915	27.9%
NATURAL GAS FIXED PRICE SW	0	0	-	0	-
NATURAL GAS INDEX	0	0	-	0	-
NATURAL GAS PEN SWP	165,463	196,520	-15.8%	158,372	4.5%
NATURAL GAS PHY	1,264,167	1,447,093	-12.6%	1,522,351	-17.0%
NEPOOL CNCTCT 5MW D AH O	0	809	-100.0%	0	-
NEPOOL CONECTIC 5MW D AH	0	41	-100.0%	0	-
NEPOOL INTR HUB 5MW D AH	464,564	555,614	-16.4%	485,972	-4.4%
NEPOOL NE MASS 5MW D AH O	14,040	14,040	0.0%	14,040	0.0%
NEPOOL NE MASS 5MW D AH P	765	765	0.0%	765	0.0%
NEPOOL NEW HAMP 5MW D AH	0	0	-	0	-
NEPOOL RHD ISLD 5MW D AH	0	205	-100.0%	0	-
NEPOOL RHODE IL 5MW D AH	0	4,045	-100.0%	0	-
NEPOOL SE MASS 5MW D AH O	0	0	-	0	-
NEPOOL SE MASS 5MW D AH P	0	0	-	0	-
NEPOOL W CNT MASS 5MW D A	0	1,618	-100.0%	0	-
NEPOOL W CNTR M 5MW D AH	0	82	-100.0%	0	-
NEW ENGLAND HUB PEAK DAIL	2,239	1,116	100.6%	2,098	6.7%
NEW YORK ETHANOL SWAP	1,002	1,305	-23.2%	1,130	-11.3%
NEW YORK HUB ZONE G PEAK	2,232	837	166.7%	2,304	-3.1%
NEW YORK HUB ZONE J PEAK	620	341	81.8%	640	-3.1%
NGPL MID-CONTINENT	16,527	24,362	-32.2%	16,757	-1.4%
NGPL MIDCONTINENT INDEX	0	0	-	0	-
NGPL MIDCONTINENT SWING S	0	0	-	0	-
NGPL TEX/OK	28,866	23,410	23.3%	31,076	-7.1%
NGPL TEXOK INDEX	0	0	-	0	-
N ILLINOIS HUB DAILY	178	220	-19.1%	178	0.0%
N ILLINOIS HUB MTHLY	0	40	-100.0%	0	-
NO 2 UP-DOWN SPREAD CALEN	0	0	-	350	-100.0%
NORTHERN NATURAL GAS DEMA	436	2,082	-79.1%	444	-1.8%
NORTHERN NATURAL GAS VENTL	1,364	1,692	-19.4%	1,384	-1.4%
NORTHERN ILLINOIS OFF-PEA	0	0	-	0	-
NORTHWEST ROCKIES BASIS S	18,346	41,457	-55.7%	20,056	-8.5%
N ROCKIES PIPE SWAP	59	212	-72.2%	59	0.0%
NY1% VS GC SPREAD SWAP	2,070	4,723	-56.2%	2,060	0.5%
NY 2.2% FUEL OIL (PLATTS)	0	0	-	0	-

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest NOV 2018	Open Interest NOV 2017	% CHG	Open Interest OCT 2018	% CHG
<b>Energy Futures</b>					
NY 3.0% FUEL OIL (PLATTS)	100	0	-	295	-66.1%
NY HARBOR 1% FUEL OIL BAL	0	0	-	0	-
NY HARBOR HEAT OIL SWP	13,450	7,661	75.6%	11,640	15.5%
NY HARBOR LOW SULPUR GAS	815	600	35.8%	330	147.0%
NY HARBOR RESIDUAL FUEL 1	1,883	3,348	-43.8%	1,522	23.7%
NY HARBOR RESIDUAL FUEL C	50	0	-	0	-
NYH NO 2 CRACK SPREAD CAL	3,777	6,713	-43.7%	3,762	0.4%
NY H OIL PLATTS VS NYMEX	0	0	-	0	-
NYISO A	0	0	-	0	-
NYISO A OFF-PEAK	0	0	-	0	-
NYISO CAPACITY	1,425	3,883	-63.3%	1,616	-11.8%
NYISO G	0	0	-	0	-
NYISO G OFF-PEAK	0	0	-	0	-
NYISO J	0	205	-100.0%	0	-
NYISO J OFF-PEAK	0	60	-100.0%	0	-
NYISO ZONE A 5MW D AH O P	38,451	74,880	-48.6%	50,747	-24.2%
NYISO ZONE A 5MW D AH PK	4,165	7,650	-45.6%	4,825	-13.7%
NYISO ZONE C 5MW D AH O P	0	0	-	0	-
NYISO ZONE C 5MW D AH PK	0	0	-	0	-
NYISO ZONE G 5MW D AH O P	563,195	550,425	2.3%	587,403	-4.1%
NYISO ZONE G 5MW D AH PK	21,167	24,826	-14.7%	23,242	-8.9%
NYISO ZONE J 5MW D AH O P	154,416	271,416	-43.1%	165,016	-6.4%
NYISO ZONE J 5MW D AH PK	12,051	18,016	-33.1%	12,451	-3.2%
NY JET FUEL (PLATTS) HEAT OIL	0	0	-	0	-
NYMEX ALUMINUM FUTURES	1,023	620	65.0%	891	14.8%
NYMEX ULSD VS NYMEX HO	0	0	-	0	-
NY ULSD (ARGUS) VS HEATING	129	680	-81.0%	178	-27.5%
ONEOK OKLAHOMA NG BASIS	62	761	-91.9%	122	-49.2%
ONTARIO POWER SWAPS	0	5,570	-100.0%	0	-
PANHANDLE BASIS SWAP FUTU	5,478	15,051	-63.6%	6,182	-11.4%
PANHANDLE INDEX SWAP FUTU	0	0	-	0	-
PANHANDLE PIPE SWAP	197	2,868	-93.1%	394	-50.0%
PERMIAN BASIS SWAP	5,060	10,226	-50.5%	5,300	-4.5%
PETROCHEMICALS	16,999	11,619	46.3%	17,389	-2.2%
PETRO CRCKS & SPRDS ASIA	694	768	-9.6%	501	38.5%
PETRO CRCKS & SPRDS NA	70,925	77,302	-8.2%	74,218	-4.4%
PETRO CRK&SPRD EURO	16,942	16,720	1.3%	16,552	2.4%
PETROLEUM PRODUCTS	9,852	7,240	36.1%	9,633	2.3%
PETROLEUM PRODUCTS ASIA	2,464	1,816	35.7%	2,274	8.4%
PETRO OUTRIGHT EURO	10,429	9,896	5.4%	10,965	-4.9%
PETRO OUTRIGHT NA	7,866	7,054	11.5%	10,820	-27.3%
PJM AD HUB 5MW REAL TIME	260,431	398,574	-34.7%	247,410	5.3%
PJM AECO DA OFF-PEAK	0	0	-	0	-
PJM AECO DA PEAK	0	0	-	0	-
PJM APS ZONE DA OFF-PEAK	0	0	-	0	-
PJM APS ZONE DA PEAK	0	0	-	0	-
PJM ATSI ELEC	0	37,180	-100.0%	0	-
PJM BGE DA OFF-PEAK	1,618	22,960	-93.0%	2,370	-31.7%
PJM BGE DA PEAK	82	1,250	-93.4%	128	-35.9%
PJM COMED 5MW D AH O PK	4,045	27,445	-85.3%	5,925	-31.7%
PJM COMED 5MW D AH PK	205	1,480	-86.1%	320	-35.9%

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## CME Group Exchange Open Interest Report - Monthly

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<b>Energy Futures</b>					
PJM DAILY	622	662	-6.0%	822	-24.3%
PJM DAYTON DA OFF-PEAK	70,120	132,403	-47.0%	73,512	-4.6%
PJM DAYTON DA PEAK	5,120	10,746	-52.4%	5,620	-8.9%
PJM JCPL DA OFF-PEAK	0	0	-	0	-
PJM JCPL DA PEAK	0	0	-	0	-
PJM MONTHLY	620	1,698	-63.5%	690	-10.1%
PJM NI HUB 5MW REAL TIME	155,326	791,763	-80.4%	206,860	-24.9%
PJM NILL DA OFF-PEAK	159,120	546,894	-70.9%	178,624	-10.9%
PJM NILL DA PEAK	9,945	29,771	-66.6%	11,045	-10.0%
PJM OFF-PEAK LMP SWAP FUT	80	580	-86.2%	120	-33.3%
PJM PECO ZONE5MW PEAK CAL	2,960	0	-	0	-
PJM PPL DA OFF-PEAK	0	0	-	0	-
PJM PPL DA PEAK	0	0	-	0	-
PJM PSEG DA OFF-PEAK	92,380	77,800	18.7%	38,880	137.6%
PJM PSEG DA PEAK	4,235	2,960	43.1%	1,275	232.2%
PJM WES HUB PEAK LMP 50 M	0	0	-	0	-
PJM WESTH DA OFF-PEAK	198,124	396,127	-50.0%	218,052	-9.1%
PJM WESTHDA PEAK	10,794	22,360	-51.7%	11,734	-8.0%
PJM WESTH RT OFF-PEAK	1,057,700	2,164,794	-51.1%	1,123,150	-5.8%
PJM WESTH RT PEAK	62,667	116,634	-46.3%	67,455	-7.1%
PLASTICS	1,984	1,205	64.6%	1,600	24.0%
PREMIUM UNLD 10P FOB MED	537	348	54.3%	402	33.6%
PREMIUM UNLEAD 10PPM FOB	5	10	-50.0%	0	-
PREM UNL GAS 10PPM RDAM F	3	0	-	0	-
PREM UNL GAS 10PPM RDAM F	104	0	-	201	-48.3%
PROPANE NON-LDH MB (OPIS) B	7	0	-	170	-95.9%
PROPANE NON-LDH MT. BEL (OF	60,778	26,984	125.2%	61,370	-1.0%
RBOB CALENDAR SWAP	17,042	14,927	14.2%	20,140	-15.4%
RBOB CRACK SPREAD	4,477	6,218	-28.0%	4,895	-8.5%
RBOB CRACK SPREAD BALMO S	0	0	-	0	-
RBOB GAS	96	1,732	-94.5%	103	-6.8%
RBOB GASOLINE BALMO CLNDR	396	815	-51.4%	530	-25.3%
RBOB PHY	394,224	406,613	-3.0%	387,094	1.8%
RBOB (PLATTS) CAL SWAP	0	0	-	0	-
RBOB SPREAD (PLATTS) SWAP	0	4	-100.0%	0	-
RBOB UP-DOWN CALENDAR SW	0	0	-	0	-
RBOB VS HEATING OIL SWAP	110	2,608	-95.8%	165	-33.3%
ROCKIES KERN OPAL - NW IN	0	0	-	0	-
SAN JUAN BASIS SWAP	8,642	21,084	-59.0%	9,542	-9.4%
SAN JUAN PIPE SWAP	288	0	-	360	-20.0%
SINGAPORE 180CST BALMO	10	100	-90.0%	20	-50.0%
SINGAPORE 380CST BALMO	85	373	-77.2%	246	-65.4%
SINGAPORE 380CST FUEL OIL	10,526	10,630	-1.0%	10,269	2.5%
SINGAPORE FUEL 180CST CAL	699	1,253	-44.2%	693	0.9%
SINGAPORE FUEL OIL SPREAD	635	1,038	-38.8%	789	-19.5%
SINGAPORE GASOIL	10,498	7,133	47.2%	8,701	20.7%
SINGAPORE GASOIL CALENDAR	408	726	-43.8%	313	30.4%
SINGAPORE GASOIL SWAP	6,750	11,749	-42.5%	7,305	-7.6%
SINGAPORE GASOIL VS ICE	35,703	4,014	789.5%	39,241	-9.0%
SINGAPORE JET KERO BALMO	0	0	-	0	-
SINGAPORE JET KERO GASOIL	9,500	1,615	488.2%	9,885	-3.9%

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<b>Energy Futures</b>					
SINGAPORE JET KEROSENE SW	3,625	2,333	55.4%	4,475	-19.0%
SINGAPORE JET KERO VS. GAS	0	0	-	0	-
SINGAPORE MOGAS 92 UNLEAD	50	531	-90.6%	375	-86.7%
SINGAPORE MOGAS 92 UNLEAD	15,286	13,446	13.7%	15,690	-2.6%
SINGAPORE NAPHTHA BALMO	0	0	-	0	-
SINGAPORE NAPHTHA SWAP	0	0	-	0	-
SING FUEL	0	50	-100.0%	5	-100.0%
SOCAL PIPE SWAP	0	0	-	0	-
SONAT BASIS SWAP FUTURE	0	62	-100.0%	0	-
SOUTHERN NAT LA NAT GAS	0	0	-	0	-
SOUTH STAR TEX OKLHM KNS	10	136	-92.6%	20	-50.0%
Sumas Basis Swap	2,977	6,459	-53.9%	3,187	-6.6%
SUMAS NAT GAS PLATTS FIXED	0	62	-100.0%	0	-
TC2 ROTTERDAM TO USAC 37K	365	80	356.3%	329	10.9%
TC5 RAS TANURA TO YOKOHAM	825	0	-	725	13.8%
TCO BASIS SWAP	4,479	13,391	-66.6%	4,869	-8.0%
TCO NG INDEX SWAP	0	0	-	0	-
TD3 MEG TO JAPAN 250K MT	7,886	30	26,186.7%	5,861	34.6%
TENN 800 LEG NAT GAS INDE	0	0	-	0	-
TENNESSEE 500 LEG BASIS S	0	0	-	0	-
TENNESSEE 800 LEG NG BASI	0	0	-	0	-
TENNESSEE ZONE 0 BASIS SW	0	484	-100.0%	0	-
TETCO M-3 INDEX	0	0	-	0	-
Tetco STX Basis	62	823	-92.5%	122	-49.2%
TEXAS EASTERN ZONE M-3 BA	2,643	6,626	-60.1%	2,913	-9.3%
TEXAS GAS ZONE1 NG BASIS	484	6,448	-92.5%	960	-49.6%
Transco Zone 3 Basis	279	3,868	-92.8%	549	-49.2%
TRANSCO ZONE 3 NG INDEX S	0	0	-	0	-
TRANSCO ZONE4 BASIS SWAP	3,513	10,278	-65.8%	3,843	-8.6%
TRANSCO ZONE 4 NAT GAS IN	0	0	-	0	-
TRANSCO ZONE 6 BASIS SWAP	242	2,591	-90.7%	302	-19.9%
TRANSCO ZONE 6 INDEX	0	0	-	0	-
UCM FUT	0	86	-100.0%	0	-
ULSD 10PPM CIF MED BALMO	0	0	-	0	-
ULSD 10PPM CIF MED SWAP	0	0	-	0	-
ULSD 10PPM CIF MED VS ICE	0	49	-100.0%	0	-
ULSD 10PPM CIF NW BALMO S	0	0	-	0	-
ULSD 10PPM CIF VS ICE GAS	0	0	-	0	-
ULSD UP-DOWN BALMO SWP	7,571	6,671	13.5%	6,550	15.6%
UP DOWN GC ULSD VS NMX HO	45,156	49,279	-8.4%	45,003	0.3%
USGC UNL 87 CRACK SPREAD	0	0	-	0	-
WAHA BASIS	2,855	7,417	-61.5%	3,095	-7.8%
WAHA INDEX SWAP FUTURE	0	0	-	0	-
WESTERN RAIL DELIVERY PRB	0	255	-100.0%	120	-100.0%
WTI-BRENT BULLET SWAP	5,979	404	1,380.0%	6,504	-8.1%
WTI-BRENT CALENDAR SWAP	137,707	82,698	66.5%	134,191	2.6%
WTI CALENDAR	171,656	149,325	15.0%	180,676	-5.0%
WTS (ARGUS) VS WTI SWAP	57,623	48,914	17.8%	60,714	-5.1%
WTS (ARGUS) VS WTI TRD MT	4,848	4,851	-0.1%	5,353	-9.4%

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest NOV 2018	Open Interest NOV 2017	% CHG	Open Interest OCT 2018	% CHG
<b>Energy Options</b>					
12 MO GASOIL CAL SWAP SPR	0	430	-100.0%	0	-
1 MO GASOIL CAL SWAP SPR	0	0	-	0	-
BRENT 1 MONTH CAL	0	0	-	0	-
BRENT CALENDAR SWAP	10,543	4,923	114.2%	10,560	-0.2%
BRENT CRUDE OIL 12 M CSO	0	0	-	0	-
BRENT CRUDE OIL 1 M CSO	33,000	0	-	38,300	-13.8%
BRENT CRUDE OIL 6 M CSO	0	0	-	0	-
BRENT OIL LAST DAY	319,898	115,963	175.9%	224,566	42.5%
COAL API2 INDEX	195	5,984	-96.7%	4,735	-95.9%
COAL API4 INDEX	0	30	-100.0%	25	-100.0%
COAL SWAP	0	560	-100.0%	0	-
CRUDE OIL 1MO	409,475	398,667	2.7%	330,810	23.8%
CRUDE OIL APO	329,762	394,658	-16.4%	350,831	-6.0%
CRUDE OIL CALNDR STRIP	170	0	-	170	0.0%
CRUDE OIL OUTRIGHTS	6,390	8,220	-22.3%	7,060	-9.5%
CRUDE OIL PHY	3,120,478	2,636,361	18.4%	3,223,802	-3.2%
ELEC FINSETTLED	0	0	-	0	-
ELEC MISO PEAK	0	0	-	0	-
ETHANOL	0	0	-	0	-
ETHANOL SWAP	9,153	15,890	-42.4%	8,544	7.1%
EURO-DENOMINATED PETRO P	0	0	-	0	-
EUROPEAN JET KEROSENE NW	0	0	-	0	-
GASOLINE	0	0	-	0	-
HEATING OIL CRACK OPTIONS	0	0	-	0	-
HEATING OIL CRK SPD AVG PRI	0	0	-	0	-
HEATING OIL PHY	50,738	52,428	-3.2%	45,944	10.4%
HENRY HUB FINANCIAL LAST	5,237	6,333	-17.3%	5,262	-0.5%
HO 1 MONTH CLNDR OPTIONS	2,600	0	0.0%	100	2,500.0%
HUSTN SHIP CHNL PIPE SWP	0	0	-	0	-
LLS CRUDE OIL	300	6,275	-95.2%	600	-50.0%
MCCLOSKEY ARA ARGS COAL	90	850	-89.4%	90	0.0%
MCCLOSKEY RCH BAY COAL	340	0	-	270	25.9%
NATURAL GAS	0	0	-	0	-
NATURAL GAS 1 M CSO FIN	72,510	135,799	-46.6%	81,730	-11.3%
NATURAL GAS 2 M CSO FIN	0	6,150	-100.0%	0	-
NATURAL GAS 3 M CSO FIN	0	22,900	-100.0%	0	-
NATURAL GAS 5 M CSO FIN	0	0	-	0	-
NATURAL GAS 6 M CSO FIN	17,100	15,800	8.2%	13,300	28.6%
NATURAL GAS OPTION ON CALE	20,502	12,070	69.9%	14,342	43.0%
NATURAL GAS PHY	2,393,529	2,442,563	-2.0%	2,391,050	0.1%
NATURAL GAS WINTER STRIP	0	0	-	0	-
NG HH 3 MONTH CAL	0	0	-	0	-
N ROCKIES PIPE SWAP	3,408	6,754	-49.5%	2,986	14.1%
NY HARBOR HEAT OIL SWP	16,468	16,845	-2.2%	14,747	11.7%
NYISO ZONE G 5MW PEAK OPTI	0	5,880	-100.0%	0	-
NYMEX EUROPEAN GASOIL APO	0	0	-	0	-
NYMEX EUROPEAN GASOIL OPT	0	0	-	0	-
PANHANDLE PIPE SWAP	480	7,440	-93.5%	960	-50.0%
PETROCHEMICALS	6,850	7,643	-10.4%	8,142	-15.9%
PETRO OUTRIGHT EURO	0	100	-100.0%	0	-
PETRO OUTRIGHT NA	564	72	683.3%	210	168.6%

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest NOV 2018	Open Interest NOV 2017	% CHG	Open Interest OCT 2018	% CHG
<b>Energy Options</b>					
PJM MONTHLY	0	0	-	0	-
PJM WES HUB PEAK CAL MTH	2,110	3,420	-38.3%	2,030	3.9%
PJM WES HUB PEAK LMP 50MW	2,579	14,330	-82.0%	3,895	-33.8%
RBOB 1MO CAL SPD OPTIONS	0	100	-100.0%	0	-
RBOB CALENDAR SWAP	300	571	-47.5%	385	-22.1%
RBOB CRACK	2	0	-	2	0.0%
RBOB PHY	11,565	11,687	-1.0%	12,039	-3.9%
ROTTERDAM 3.5%FUEL OIL CL	0	80	-100.0%	0	-
SAN JUAN PIPE SWAP	2,347	5,548	-57.7%	2,527	-7.1%
SHORT TERM	0	0	-	0	-
SHORT TERM NATURAL GAS	750	401	87.0%	1,350	-44.4%
SINGAPORE GASOIL CALENDAR	0	50	-100.0%	0	-
SINGAPORE JET FUEL CALEND	0	80	-100.0%	0	-
SOCAL PIPE SWAP	0	0	-	0	-
WTI-BRENT BULLET SWAP	105,044	206,990	-49.3%	90,814	15.7%
WTI CRUDE OIL 1 M CSO FI	142,400	273,275	-47.9%	141,975	0.3%
<b>FX Futures</b>					
AD/CD CROSS RATES	0	2	-100.0%	0	-
AD/JY CROSS RATES	1,133	1,232	-8.0%	842	34.6%
AD/NE CROSS RATES	20	19	5.3%	21	-4.8%
AUSTRALIAN DOLLAR	142,647	134,131	6.3%	159,529	-10.6%
BDI	0	0	-	0	-
BP/JY CROSS RATES	504	402	25.4%	470	7.2%
BP/SF CROSS RATES	91	51	78.4%	125	-27.2%
BRAZIL REAL	14,611	28,374	-48.5%	40,451	-63.9%
BRITISH POUND	230,046	198,278	16.0%	229,134	0.4%
CANADIAN DOLLAR	150,491	147,617	1.9%	119,997	25.4%
CD/JY CROSS RATES	100	0	-	100	0.0%
CHINESE RENMINBI (CNH)	1,487	988	50.5%	2,059	-27.8%
CZECK KORUNA (EC)	0	0	-	2	-100.0%
CZECK KORUNA (US)	0	0	-	0	-
EC/AD CROSS RATES	2,759	1,880	46.8%	2,958	-6.7%
EC/CD CROSS RATES	1,927	1,756	9.7%	1,793	7.5%
EC/NOK CROSS RATES	126	126	0.0%	205	-38.5%
EC/SEK CROSS RATES	712	622	14.5%	681	4.6%
EFX/BP CROSS RATES	36,775	40,001	-8.1%	35,985	2.2%
EFX/JY CROSS RATES	27,791	25,890	7.3%	27,388	1.5%
EFX/SF CROSS RATES	10,459	14,133	-26.0%	12,287	-14.9%
E-MICRO AUD/USD	2,151	2,249	-4.4%	3,223	-33.3%
E-MICRO CAD/USD	2,043	2,862	-28.6%	1,543	32.4%
E-MICRO CHF/USD	591	130	354.6%	670	-11.8%
E-MICRO EUR/USD	11,592	7,342	57.9%	10,078	15.0%
E-MICRO GBP/USD	2,688	3,430	-21.6%	2,470	8.8%
E-MICRO INR/USD	361	168	114.9%	138	161.6%
E-MICRO JPY/USD	1,263	1,844	-31.5%	1,096	15.2%
E-MICRO USD/CAD	0	0	-	0	-
E-MICRO USD/CHF	0	0	-	0	-
E-MICRO USD/CNH	0	0	-	0	-

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest NOV 2018	Open Interest NOV 2017	% CHG	Open Interest OCT 2018	% CHG
<b>FX Futures</b>					
E-MICRO USD/JPY	0	0	-	0	-
E-MINI EURO FX	15,535	13,836	12.3%	14,206	9.4%
E-MINI JAPANESE YEN	844	1,377	-38.7%	807	4.6%
EURO FX	551,482	496,954	11.0%	506,414	8.9%
HUNGARIAN FORINT (EC)	0	0	-	40	-100.0%
HUNGARIAN FORINT (US)	0	0	-	0	-
INDIAN RUPEE	1,133	665	70.4%	882	28.5%
JAPANESE YEN	225,250	238,625	-5.6%	205,368	9.7%
KOREAN WON	426	68	526.5%	425	0.2%
MEXICAN PESO	183,910	174,771	5.2%	189,220	-2.8%
NEW ZEALND DOLLAR	54,924	62,162	-11.6%	58,542	-6.2%
NKR/USD CROSS RATE	1,939	789	145.8%	1,806	7.4%
POLISH ZLOTY (EC)	9	16	-43.8%	1	800.0%
POLISH ZLOTY (US)	80	118	-32.2%	66	21.2%
RMB USD	5	19	-73.7%	5	0.0%
RUSSIAN RUBLE	33,945	50,750	-33.1%	30,168	12.5%
S.AFRICAN RAND	11,681	22,267	-47.5%	11,870	-1.6%
SF/JY CROSS RATES	7	0	-	7	0.0%
SHEKEL	0	486	-100.0%	0	-
SKR/USD CROSS RATES	1,540	1,954	-21.2%	1,697	-9.3%
SWISS FRANC	78,600	81,139	-3.1%	75,939	3.5%
TURKISH LIRA	1,025	4,116	-75.1%	1,251	-18.1%
USDZAR	0	0	-	0	-
<b>FX Options</b>					
AUD/USD PQO 2pm Fix	76,755	76,405	0.5%	74,809	2.6%
AUSTRALIAN DLR (EU)	0	0	-	0	-
AUSTRALIAN DOLLAR	0	0	-	0	-
BRITISH POUND	0	0	-	0	-
BRITISH POUND (EU)	37	1,599	-97.7%	36	2.8%
CAD/USD PQO 2pm Fix	67,754	100,032	-32.3%	79,233	-14.5%
CANADIAN DOLLAR	0	0	-	0	-
CANADIAN DOLLAR (EU)	0	26	-100.0%	0	-
CHF/USD PQO 2pm Fix	2,635	15,139	-82.6%	4,167	-36.8%
EFX/JY CROSS RATES	0	0	-	0	-
EURO FX	0	0	-	0	-
EURO FX (EU)	10	40	-75.0%	10	0.0%
EUR/USD PQO 2pm Fix	267,681	399,165	-32.9%	287,748	-7.0%
GBP/USD PQO 2pm Fix	223,945	185,508	20.7%	216,292	3.5%
JAPANESE YEN	0	0	-	0	-
JAPANESE YEN (EU)	0	18	-100.0%	0	-
JPY/USD PQO 2pm Fix	124,525	158,195	-21.3%	142,550	-12.6%
MEXICAN PESO	3,561	9,231	-61.4%	3,605	-1.2%
NEW ZEALND DOLLAR	1,006	0	-	10	9,960.0%
RUSSIAN RUBLE	0	0	-	0	-
SWISS FRANC	0	0	-	0	-
SWISS FRANC (EU)	0	1	-100.0%	0	-

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## CME Group Exchange Open Interest Report - Monthly

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<b>Foreign Exchange Futures</b>					
CHILEAN PESO	95	2,900	-96.7%	2,748	-96.5%
<b>Foreign Exchange Options</b>					
AUD/USD PQO 2pm Fix	24	19	26.3%	35	-31.4%
<b>Ags Futures</b>					
FERTILIZER PRODUCTS	2,320	1,400	65.7%	1,215	90.9%

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## CME Group Exchange Open Interest Report - Monthly

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<b>Ag Products Futures</b>					
BUTTER CS	7,200	4,322	66.6%	7,264	-0.9%
CASH-SETTLED CHEESE	27,540	24,366	13.0%	28,520	-3.4%
CAT EURO SEASONAL STRIP	0	0	-	0	-
CATTLE	339,935	377,923	-10.1%	348,501	-2.5%
CDD SEASONAL STRIP	0	0	-	0	-
CDD WEATHER	0	0	-	0	-
CHI WHEAT	442,960	499,190	-11.3%	563,176	-21.3%
CLASS IV MILK	3,596	1,736	107.1%	2,165	66.1%
COCOA TAS	0	1	-100.0%	0	-
COFFEE	0	0	-	0	-
CORN	1,550,230	1,505,922	2.9%	1,701,816	-8.9%
COTTON	0	1	-100.0%	2	-100.0%
DJ_UBS ROLL SELECT INDEX FU	1,917	660	190.5%	1,917	0.0%
DOW-UBS COMMOD INDEX	39,131	86,462	-54.7%	32,163	21.7%
DRY WHEY	4,483	3,369	33.1%	4,858	-7.7%
FEEDER CATTLE	49,763	58,022	-14.2%	49,035	1.5%
FERTILIZER PRODUCTS	3,605	3,130	15.2%	2,720	32.5%
GOLDMAN SACHS	15,433	14,526	6.2%	15,033	2.7%
GSCI EXCESS RETURN FUT	55,509	56,302	-1.4%	52,667	5.4%
HDD EURO SEASONAL STRIP	0	0	-	0	-
HDD SEASONAL STRIP	50	0	-	50	0.0%
HDD WEATHER	4,700	550	754.5%	9,250	-49.2%
HDD WEATHER EUROPEAN	10,900	0	-	18,000	-39.4%
HOGS	219,219	254,517	-13.9%	225,040	-2.6%
HOUSING INDEX	32	34	-5.9%	49	-34.7%
Intercommodity Spread	0	0	-	0	-
KC WHEAT	285,592	309,965	-7.9%	335,102	-14.8%
LUMBER	3,941	6,315	-37.6%	4,528	-13.0%
MALAYSIAN PALM SWAP	21,348	23,412	-8.8%	22,704	-6.0%
MILK	30,657	24,559	24.8%	31,968	-4.1%
MINI CORN	6,854	6,762	1.4%	8,929	-23.2%
MINI SOYBEAN	11,649	13,126	-11.3%	7,481	55.7%
MINI WHEAT	1,936	1,831	5.7%	2,605	-25.7%
MLK MID OPTIONS	0	0	0.0%	14	-100.0%
NFD MILK	6,911	6,384	8.3%	7,022	-1.6%
OATS	5,886	7,029	-16.3%	6,995	-15.9%
PALM OIL	0	0	-	0	-
ROUGH RICE	7,962	10,180	-21.8%	8,448	-5.8%
SOYBEAN	726,553	751,833	-3.4%	763,877	-4.9%
SOYBEAN MEAL	465,140	412,301	12.8%	535,433	-13.1%
SOYBEAN OIL	524,252	465,890	12.5%	545,719	-3.9%
S&P GSCI ENHANCED ER SWAP	3,762	15,028	-75.0%	3,762	0.0%
SUGAR 11	0	0	-	0	-
USD CRUDE PALM OIL	3,310	3,640	-9.1%	4,020	-17.7%
WHEAT	27,815	697	3,890.7%	30,818	-9.7%
<b>Ag Products Options</b>					
AUG-DEC SOYBEAN MEAL CSO	0	0	-	0	-
AUG-NOV SOYBEAN CAL SPRD	0	0	-	0	-

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## CME Group Exchange Open Interest Report - Monthly

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<b>Ag Products Options</b>					
BUTTER CS	11,993	7,943	51.0%	10,007	19.8%
CASH-SETTLED CHEESE	32,915	41,402	-20.5%	28,302	16.3%
CATTLE	186,007	202,503	-8.1%	173,454	7.2%
CDD SEASONAL STRIP	0	0	-	0	-
CDD WEATHER	0	0	-	0	-
CHI WHEAT	261,364	245,001	6.7%	460,005	-43.2%
CLASS IV MILK	5,430	4,145	31.0%	4,339	25.1%
CORN	921,935	968,317	-4.8%	1,459,944	-36.9%
CORN NEARBY+2 CAL SPRD	1,050	0	-	10,450	-90.0%
DEC-DEC CORN CAL SPRD	0	0	-	9,051	-100.0%
DEC-JULY CORN CAL SPRD	0	0	-	10,374	-100.0%
DEC-JULY WHEAT CAL SPRD	0	0	-	980	-100.0%
DRY WHEY	2,741	3,105	-11.7%	2,685	2.1%
FEEDER CATTLE	23,992	26,811	-10.5%	24,105	-0.5%
HDD EURO SEASONAL STRIP	500	2,500	-80.0%	0	-
HDD SEASONAL STRIP	9,000	14,000	-35.7%	9,000	0.0%
HDD WEATHER	350	0	-	250	40.0%
HDD WEATHER EUROPEAN	0	0	-	0	-
HOGS	267,900	181,771	47.4%	244,406	9.6%
HOUSING INDEX	0	17	-100.0%	2	-100.0%
Intercommodity Spread	0	0	-	1,240	-100.0%
JAN-MAY SOYBEAN CAL SPRD	0	36	-100.0%	0	-
JULY-DEC CORN CAL SPRD	1,025	0	-	820	25.0%
JULY-DEC SOYMEAL CAL SPRD	1,200	0	-	1,200	0.0%
JULY-DEC SOY OIL CAL SPRD	0	0	-	0	-
JULY-DEC WHEAT CAL SPRD	200	0	-	0	-
JULY-JULY WHEAT CAL SPRD	0	0	-	0	-
JULY-NOV SOYBEAN CAL SPRD	4,857	10	48,470.0%	4,405	10.3%
KC WHEAT	51,387	32,248	59.3%	90,155	-43.0%
LUMBER	2,394	2,350	1.9%	1,871	28.0%
LV CATL CSO	203	5	3,960.0%	189	7.4%
MAR-JULY CORN CAL SPRD	0	70	-100.0%	0	-
MAR-JULY WHEAT CAL SPRD	0	200	-100.0%	0	-
MILK	84,106	72,531	16.0%	70,827	18.7%
MLK MID OPTIONS	235	327	-28.1%	228	3.1%
NFD MILK	15,589	12,892	20.9%	11,387	36.9%
NOV-JULY SOYBEAN CAL SPRD	0	0	-	0	-
NOV-MAR SOYBEAN CSO	0	0	-	0	-
NOV-NOV SOYBEAN CAL SPRD	0	0	-	0	-
OATS	742	1,062	-30.1%	1,519	-51.2%
ROUGH RICE	2,542	2,860	-11.1%	2,763	-8.0%
SEP-DEC SOYBEAN MEAL CSO	0	0	-	0	-
SOYBEAN	574,655	447,922	28.3%	402,343	42.8%
SOYBEAN CRUSH	20	151	-86.8%	20	0.0%
SOYBEAN MEAL	109,818	88,153	24.6%	189,477	-42.0%
SOYBEAN OIL	67,041	90,526	-25.9%	97,206	-31.0%
SOYBN NEARBY+2 CAL SPRD	0	0	-	0	-
SOYMEAL NEARBY+2 CAL SPRD	240	0	-	4,615	-94.8%
WHEAT	3,562	100	3,462.0%	1,822	95.5%
WHEAT-CORN ICSSO	595	926	-35.7%	1,555	-61.7%
WHEAT NEARBY+2 CAL SPRD	252	4,900	-94.9%	1,952	-87.1%

**\*\*\* Note - KC HRW Wheat monthly and YTD volume comparatives to prior year is not using a complete year, since collection of 2013 volume data did not start until April 15, 2013.**

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest NOV 2018	Open Interest NOV 2017	% CHG	Open Interest OCT 2018	% CHG
<b>TOTAL FUTURES GROUP</b>					
Interest Rate Futures	31,098,192	26,107,936	19.1%	30,544,786	1.8%
Equity Index Futures	4,621,728	5,128,705	-9.9%	4,506,341	2.6%
Metals Futures	1,016,251	1,166,425	-12.9%	1,199,203	-15.3%
Energy Futures	12,029,622	16,563,062	-27.4%	12,567,569	-4.3%
FX Futures	1,804,703	1,763,639	2.3%	1,751,959	3.0%
Foreign Exchange Futures	95	2,900	-96.7%	2,748	-96.5%
Ags Futures	2,320	1,400	65.7%	1,215	90.9%
Ag Products Futures	4,909,771	4,949,985	-0.8%	5,381,651	-8.8%
<b>TOTAL FUTURES</b>	<b>55,482,682</b>	<b>55,684,052</b>	<b>-0.4%</b>	<b>55,955,472</b>	<b>-0.8%</b>
<b>TOTAL OPTIONS GROUP</b>					
Interest Rate Options	55,921,089	50,522,517	10.7%	54,397,477	2.8%
Equity Index Options	4,888,988	5,847,566	-16.4%	5,225,703	-6.4%
Metals Options	1,324,459	922,492	43.6%	1,668,778	-20.6%
Energy Options	7,096,877	6,844,120	3.7%	7,034,153	0.9%
FX Options	767,909	945,359	-18.8%	808,460	-5.0%
Foreign Exchange Options	24	19	26.3%	35	-31.4%
Ag Products Options	2,645,840	2,454,784	7.8%	3,332,948	-20.6%
<b>TOTAL OPTIONS</b>	<b>72,645,186</b>	<b>67,536,857</b>	<b>7.6%</b>	<b>72,467,554</b>	<b>0.2%</b>
<b>TOTAL COMBINED</b>					
Interest Rate	87,019,281	76,630,453	13.6%	84,942,263	2.4%
Equity Index	9,510,716	10,976,271	-13.4%	9,732,044	-2.3%
Metals	2,340,710	2,088,917	12.1%	2,867,981	-18.4%
Energy	19,126,499	23,407,182	-18.3%	19,601,722	-2.4%
FX	2,572,612	2,708,998	-5.0%	2,560,419	0.5%
Foreign Exchange	119	2,919	-95.9%	2,783	-95.7%
Ags	2,320	1,400	65.7%	1,215	90.9%
Ag Products	7,555,611	7,404,769	2.0%	8,714,599	-13.3%
<b>GRAND TOTAL</b>	<b>128,127,868</b>	<b>123,220,909</b>	<b>4.0%</b>	<b>128,423,026</b>	<b>-0.2%</b>

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