



NYMEX/COMEX Exchange Open Interest Report - Monthly

Commodity	Open Interest OCT 2017	Open Interest OCT 2016	% CHG	Open Interest SEP 2017	% CHG
Commodities and Alternative Investments Futures					
COCOA TAS	1	25	-96.0%	0	0.0%
COFFEE	0	5	-100.0%	0	-
COTTON	3	11	-72.7%	3	0.0%
SUGAR 11	0	0	0.0%	2	-100.0%
Energy Futures					
CRUDE OIL PHY	2,517,482	1,880,253	33.9%	2,466,177	2.1%
CRUDE OIL	2,427	5,361	-54.7%	3,226	-24.8%
MINY WTI CRUDE OIL	4,676	5,697	-17.9%	4,212	11.0%
BRENT OIL LAST DAY	147,913	123,994	19.3%	149,502	-1.1%
HEATING OIL PHY	434,221	402,501	7.9%	454,699	-4.5%
HTG OIL	357	2,004	-82.2%	354	0.8%
MINY HTG OIL	1	0	0.0%	0	-
RBOB PHY	403,652	395,571	2.0%	393,454	2.6%
MINY RBOB GAS	0	0	0.0%	0	-
NATURAL GAS	117,730	108,477	8.5%	110,400	6.6%
LTD NAT GAS	397,158	281,617	41.0%	393,372	1.0%
MINY NATURAL GAS	1,921	2,794	-31.2%	1,118	71.8%
PJM MONTHLY	1,940	5,702	-66.0%	2,122	-8.6%
NATURAL GAS PHY	1,384,396	1,139,762	21.5%	1,334,262	3.8%
RBOB GAS	2,330	2,749	-15.2%	2,488	-6.4%
3.5% FUEL OIL CID MED SWA	258	705	-63.4%	313	-17.6%
3.5% FUEL OIL CIF BALMO S	0	67	-100.0%	0	-
AEP-DAYTON HUB DAILY	164	272	-39.7%	180	-8.9%
AEP-DAYTON HUB MTHLY	210	1,051	-80.0%	280	-25.0%
AEP-DAYTON HUB OFF-PEAK M	150	801	-81.3%	200	-25.0%
ALGON CITY GATES NAT GAS	248	3,164	-92.2%	488	-49.2%
ALGONQUIN CITYGATES BASIS	516	3,823	-86.5%	702	-26.5%
ANR LOUISIANA BASIS SWAP	0	0	-	0	-
ANR OKLAHOMA	1,764	3,931	-55.1%	1,981	-11.0%
APPALACHIAN COAL (PHY)	0	5	-100.0%	0	-
ARGUS LLS VS. WTI (ARG) T	31,923	11,523	177.0%	26,810	19.1%
ARGUS PROPAN FAR EST INDE	3,115	2,178	43.0%	2,839	9.7%
ARGUS PROPAN(SAUDI ARAMCO	830	799	3.9%	1,010	-17.8%
AUSTRIALIAN COKE COAL	468	912	-48.7%	522	-10.3%
BRENT BALMO SWAP	0	682	-100.0%	100	-100.0%
BRENT CALENDAR SWAP	17,813	14,953	19.1%	18,451	-3.5%
BRENT CFD SWAP	0	0	-	0	-
BRENT FINANCIAL FUTURES	6,327	6,204	2.0%	6,327	0.0%
BRENT FINANCIAL FUTURES	0	0	-	0	-
BRENT FINANCIAL FUTURES	39	1,050	-96.3%	39	0.0%
BRENT OIL LAST DAY	0	0	0.0%	0	0.0%
BRENT OIL LAST DAY	0	0	0.0%	0	0.0%
CAISO SP15 EZGNHUB5 MW P	0	17,930	-100.0%	0	-
CAISO SP15 EZGNHUB5 PEAK	0	0	-	550	-100.0%
CANADIAN LIGHT SWEET OIL	699	10,456	-93.3%	1,314	-46.8%
CENTERPOINT BASIS SWAP	11,017	22,073	-50.1%	11,797	-6.6%
CENTERPOINT EAST INDEX	0	124	-100.0%	0	-
CENTER POINT NAT GAS FIXED PRICE	0	0	-	0	-
CHICAGO ETHANOL SWAP	51,041	57,853	-11.8%	50,827	0.4%
CHICAGO ULSD (PLATTS) SWA	0	9	-100.0%	0	-

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Energy Futures						
CHICAGO ULSD PL VS HO SPR	5C	846	1,455	-41.9%	1,132	-25.3%
CHICAGO UNL GAS PL VS RBO	3C	9	180	-95.0%	12	-25.0%
CIG BASIS	CI	26,739	52,641	-49.2%	28,887	-7.4%
CIG ROCKIES NG INDEX SWA	Z8	0	0	-	0	-
CINERGY HUB OFF-PEAK MONT	EJ	120	312	-61.5%	120	0.0%
CINERGY HUB PEAK MONTH	EM	288	330	-12.7%	288	0.0%
CIN HUB 5MW D AH O PK	K2	198,568	247,784	-19.9%	230,056	-13.7%
CIN HUB 5MW D AH PK	H5	9,843	18,130	-45.7%	11,121	-11.5%
CIN HUB 5MW REAL TIME O P	H4	522,936	575,248	-9.1%	547,240	-4.4%
CIN HUB 5MW REAL TIME PK	H3	41,211	45,605	-9.6%	42,145	-2.2%
COAL SWAP	ACM	255	398	-35.9%	210	21.4%
COAL SWAP	SSI	0	30	-100.0%	0	-
COLUMB GULF MAINLINE NG B	5Z	6,813	23,192	-70.6%	8,022	-15.1%
COLUMBIA GULF MAIN NAT G	L2	0	372	-100.0%	0	-
COLUMBIA GULF NAT GAS FIXED PRICE	DCE	0	0	-	0	-
COLUMBIA GULF ONSHORE	GL	2,867	18,253	-84.3%	4,324	-33.7%
CONWAY NATURAL GASOLINE (OPIS) SWAP	8L	1,421	740	92.0%	1,320	7.7%
CONWAY NORMAL BUTANE (OPIS) SWAP	8M	3,217	1,430	125.0%	3,780	-14.9%
CONWAY PROPANE 5 DECIMALS SWAP	8K	17,699	16,855	5.0%	18,892	-6.3%
CRUDE OIL	CHB	0	0	-	0	-
CRUDE OIL	LPS	17,895	20,474	-12.6%	18,090	-1.1%
CRUDE OIL OUTRIGHTS	37	0	0	-	0	-
CRUDE OIL OUTRIGHTS	42	0	0	-	1,578	-100.0%
CRUDE OIL OUTRIGHTS	CC5	60	0	-	120	-50.0%
CRUDE OIL OUTRIGHTS	CSN	0	0	-	0	-
CRUDE OIL OUTRIGHTS	CSW	755	1,230	-38.6%	720	4.9%
CRUDE OIL OUTRIGHTS	DBL	0	200	-100.0%	100	-100.0%
CRUDE OIL OUTRIGHTS	FE	0	0	-	0	-
CRUDE OIL OUTRIGHTS	GSW	45	0	-	0	-
CRUDE OIL OUTRIGHTS	HTT	54,745	10,340	429.4%	43,092	27.0%
CRUDE OIL OUTRIGHTS	LSW	1,845	0	-	915	101.6%
CRUDE OIL OUTRIGHTS	SSW	120	0	-	75	60.0%
CRUDE OIL OUTRIGHTS	WCC	2,810	11,615	-75.8%	3,490	-19.5%
CRUDE OIL OUTRIGHTS	WCW	19,071	0	-	15,480	23.2%
CRUDE OIL PHY	CLL	0	0	0.0%	0	0.0%
CRUDE OIL SPRDS	38	0	250	-100.0%	0	-
CRUDE OIL SPRDS	WTT	52,108	21,155	146.3%	35,343	47.4%
CRUDE OIL TRADE AT MARKER SINGAPORE	CLS	0	0	0.0%	0	0.0%
DAILY PJM	AOR	10,656	10,368	2.8%	13,320	-20.0%
DAILY PJM	IDO	15,873	15,136	4.9%	18,144	-12.5%
DAILY PJM	NOC	24,192	17,376	39.2%	29,040	-16.7%
DAILY PJM	PAP	792	780	1.5%	1,215	-34.8%
DAILY PJM	PEO	11,825	12,265	-3.6%	12,600	-6.2%
DAILY PJM	PNO	139,502	35,860	289.0%	147,784	-5.6%
DAILY PJM	PNP	5,704	2,134	167.3%	5,962	-4.3%
DAILY PJM	PWO	82,775	63,987	29.4%	88,200	-6.2%
DAILY PJM	PWP	4,836	2,974	62.6%	5,022	-3.7%
DAILY PJM	WOR	25,344	46,464	-45.5%	26,880	-5.7%
DAILY PJM	ZAO	14,190	23,815	-40.4%	15,120	-6.2%
DAILY PJM	ZGO	9,933	29,260	-66.1%	10,584	-6.2%
DAILY PJM	ZJO	2,365	23,540	-90.0%	2,520	-6.2%
DATED BRENT (PLATTS) DAILY SWAP	7G	0	0	-	0	-
DATED TO FRONTLINE BRENT	FY	11,920	11,900	0.2%	12,065	-1.2%

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DEMARC INDEX FUTURE	0	0	-	0	-
DEMARC SWING SWAP	0	8	-100.0%	0	-
DIESEL 10P BRG FOB RDM VS	0	0	-	0	-
DIESEL 10PPM BARGES FOB B	0	0	-	0	-
DIESEL10PPM BARG VS ICE LS	0	0	-	0	-
DLY GAS EURO-BOB OXY	0	0	-	0	-
DOMINION TRAN INC - APP I	2,920	5,534	-47.2%	2,920	0.0%
DOMINION TRANSMISSION INC	36,182	61,219	-40.9%	39,591	-8.6%
DUBAI CRUDE OIL BALMO	0	0	-	0	-
DUBAI CRUDE OIL CALENDAR	10,680	2,989	257.3%	7,870	35.7%
DY EURO 3.5% FUEL OI RDA	0	0	-	0	-
EASTERN RAIL DELIVERY CSX	280	2,755	-89.8%	380	-26.3%
EAST/WEST FUEL OIL SPREAD	165	170	-2.9%	328	-49.7%
EIA FLAT TAX ONHWAY DIESE	3,555	4,875	-27.1%	3,708	-4.1%
ELEC ERCOT DLY OFF PK	0	0	-	0	-
ELEC ERCOT DLY PEAK	0	42	-100.0%	0	-
ELEC ERCOT DLY PEAK	0	0	-	0	-
ELEC ERCOT DLY PEAK	0	0	-	0	-
ELEC ERCOT OFF PEAK	0	0	-	0	-
ELEC FINSETTLED	1,849	2,804	-34.1%	1,949	-5.1%
ELEC FINSETTLED	0	315	-100.0%	0	-
ELEC MISO PEAK	3,825	315	1,114.3%	3,825	0.0%
ELEC MISO PEAK	252	1,268	-80.1%	332	-24.1%
ELEC NYISO OFF-PEAK	70,200	6,005	1,069.0%	70,200	0.0%
ELEC NYISO OFF-PEAK	4,804	23,588	-79.6%	6,404	-25.0%
ELECTRICITY ERCOT PEAK	0	0	-	0	-
ELECTRICITY OFF PEAK	34,069	51,544	-33.9%	36,069	-5.5%
ELECTRICITY OFF PEAK	0	0	-	0	-
ELECTRICITY OFF PEAK	0	6,005	-100.0%	0	-
ELEC WEST POWER OFF-PEAK	0	400	-100.0%	0	-
ELEC WEST POWER PEAK	0	5,390	-100.0%	0	-
EL PASO PERMIAN INDEX SWA	0	0	-	0	-
EMMISSIONS	0	0	-	0	-
ERCOT DAILY 5MW PEAK	0	0	-	0	-
ERCOT HOUSTON Z MCPE 5MW PEAK SWAP	3,880	0	-	3,880	0.0%
ERCOT NORTH ZMCPE 5MW OFFPEAK	0	480	-100.0%	0	-
ERCOT NORTH ZMCPE 5MW OFFPEAK SWAP	61,200	3,965	1,443.5%	21,200	188.7%
ERCOT NORTH ZMCPE 5MW PEAK	3,880	294	1,219.7%	3,880	0.0%
ETHANOL T2 FOB ROTT INCL DUTY SWAP	6,323	2,501	152.8%	5,492	15.1%
EU LOW SULPHUR GASOIL CRACK	0	0	-	0	-
EURO 1% FUEL OIL NEW BALM	0	5	-100.0%	0	-
EURO 3.5% FUEL OIL RDAM B	242	294	-17.7%	279	-13.3%
EURO 3.5% FUEL OIL SPREAD	562	832	-32.5%	929	-39.5%
EURO-DENOMINATED PETRO PROD	0	0	-	0	-
EURO-DENOMINATED PETRO PROD	0	0	-	150	-100.0%
EURO GASOIL 10 CAL SWAP	0	0	-	0	-
EURO GASOIL 10PPM VS ICE	342	380	-10.0%	347	-1.4%
EUROPE 1% FUEL OIL NWE CA	42	549	-92.3%	35	20.0%
EUROPE 1% FUEL OIL RDAM C	0	51	-100.0%	3	-100.0%
EUROPE 3.5% FUEL OIL MED	378	751	-49.7%	344	9.9%
EUROPE 3.5% FUEL OIL RDAM	9,042	10,600	-14.7%	9,000	0.5%
EUROPEAN GASOIL (ICE)	925	3,289	-71.9%	1,251	-26.1%
EUROPEAN NAPHTHA BALMO	187	247	-24.3%	250	-25.2%

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Energy Futures						
EUROPEAN NAPHTHA CRACK SPR	EN	11,087	10,169	9.0%	11,447	-3.1%
EUROPE DATED BRENT SWAP	UB	1,337	1,150	16.3%	1,537	-13.0%
EUROPE JET KERO NWE CALSW	UJ	54	9	500.0%	66	-18.2%
EUROPE NAPHTHA CALSWAP	UN	2,667	1,966	35.7%	2,686	-0.7%
EURO PROPANE CIF ARA SWA	PS	1,356	1,776	-23.6%	1,426	-4.9%
FL GAS ZONE 3 NAT GAS IND	Q9	0	1,860	-100.0%	0	-
FLORIDA GAS ZONE3 BASIS S	FP	0	4,286	-100.0%	0	-
FREIGHT MARKETS	FLP	844	1,167	-27.7%	852	-0.9%
FUEL OIL CRACK VS ICE	FO	15,901	20,183	-21.2%	15,985	-0.5%
FUEL OIL NWE CRACK VS ICE	FI	0	57	-100.0%	0	-
FUEL OIL (PLATS) CAR CM	1W	29	646	-95.5%	12	141.7%
FUEL OIL (PLATS) CAR CN	1X	0	36	-100.0%	0	-
FUELOIL SWAP:CARGOES VS.B	FS	984	943	4.3%	1,045	-5.8%
GAS EURO-BOB OXY NWE BARGES	7H	4,125	5,081	-18.8%	4,448	-7.3%
GAS EURO-BOB OXY NWE BARGES CRK	7K	28,345	22,141	28.0%	30,348	-6.6%
GASOIL 0.1 BRGS FOB VS IC	6V	0	0	-	0	-
GASOIL 0.1 CARGOES CIF NE	TW	0	0	-	0	-
GASOIL 0.1 CIF MED BALMO	X6	0	0	-	0	-
GASOIL 0.1 CIF MED SWAP	Z4	0	0	-	0	-
GASOIL 0.1CIF MED VS ICE	Z5	15	85	-82.4%	20	-25.0%
GASOIL 0.1 CIF NWE VS ISE	TU	0	35	-100.0%	0	-
GASOIL 0.1 CIF VS ICE GAS	8W	0	0	-	0	-
GASOIL 0.1 CRG CIF NW VS	4V	0	0	-	0	-
GASOIL 0.1 RDAM BRGS VS I	WQ	144	51	182.4%	130	10.8%
GASOIL 0.1 ROTTERDAM BARG	VL	25	30	-16.7%	35	-28.6%
GASOIL 10P CRG CIF NW VS	3V	0	0	-	0	-
GASOIL 10PPM CARGOES CIF	TY	0	0	-	0	-
GASOIL 10PPM VS ICE SWAP	TP	747	652	14.6%	801	-6.7%
GASOIL BULLET SWAP	BG	130	0	-	130	0.0%
GASOIL CALENDAR SWAP	GX	25	115	-78.3%	38	-34.2%
GASOIL CRACK SPREAD CALEN	GZ	21,341	12,595	69.4%	22,833	-6.5%
GASOIL MINI CALENDAR SWAP	QA	433	602	-28.1%	492	-12.0%
GASOLINE UP-DOWN BALMO SW	1K	0	0	-	0	-
GC ULSD VS GC JET SPREAD	VV	0	0	-	0	-
GROUP THREE ULSD (PLATTS)	A7	75	300	-75.0%	100	-25.0%
GRP THREE ULSD(PLT)VS HEA	A6	14,688	7,067	107.8%	14,023	4.7%
GRP THREE UNL GS (PLT) VS	A8	4,680	5,009	-6.6%	3,535	32.4%
GULF COAST 3% FUEL OIL BA	VZ	531	593	-10.5%	1,607	-67.0%
GULF COAST GASOLINE CLNDR	GS	0	0	-	0	-
GULF COAST JET FUEL CLNDR	GE	804	1,260	-36.2%	866	-7.2%
GULF COAST JET VS NYM 2 H	ME	30,549	38,907	-21.5%	32,055	-4.7%
GULF COAST NO.6 FUEL OIL	MF	43,991	56,341	-21.9%	42,415	3.7%
GULF COAST NO.6 FUEL OIL	MG	3,042	5,112	-40.5%	2,645	15.0%
GULF COAST ULSD CALENDAR	LY	2,729	4,470	-38.9%	2,718	0.4%
GULF COAST ULSD CRACK SPR	GY	1,080	4,299	-74.9%	1,960	-44.9%
HEATING OIL BALMO CLNDR S	1G	0	125	-100.0%	0	-
HEATING OIL CRCK SPRD BAL	1H	0	0	-	0	-
HEATING OIL PHY	HOL	0	0	0.0%	0	0.0%
HEATING OIL VS ICE GASOIL	HA	0	0	-	0	-
HENRY HUB BASIS SWAP	HB	7,869	53,075	-85.2%	10,404	-24.4%
HENRY HUB FINANCIAL LAST	NBP	6	0	-	18	-66.7%
HENRY HUB FINANCIAL LAST	TTE	88	0	-	8	1,000.0%
HENRY HUB INDEX SWAP FUTU	IN	4,030	27,380	-85.3%	4,148	-2.8%

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HENRY HUB SWAP	NN	1,195,259	1,355,050	-11.8%	1,200,606	-0.4%
HENRY HUB SWING FUTURE	SN	0	0	-	0	-
HOUSTON SHIP CHANNEL BASI	NH	20,145	26,666	-24.5%	20,796	-3.1%
HOUSTON SHIP CHANNEL INDE	IP	0	0	-	0	-
HUSTN SHIP CHNL PIPE SWP	XJ	0	3,425	-100.0%	0	-
ICE BRENT DUBAI SWAP	DB	44,066	15,923	176.7%	44,556	-1.1%
ICE GASOIL BALMO SWAP	U9	0	0	-	0	-
IN DELIVERY MONTH EUA	6T	10,598	48,650	-78.2%	10,598	0.0%
INDIANA MISO	FAD	39,360	15,840	148.5%	40,544	-2.9%
INDIANA MISO	FDM	0	0	-	0	-
INDIANA MISO	FTD	5,952	6,528	-8.8%	9,480	-37.2%
INDIANA MISO	FTM	0	12,010	-100.0%	0	-
INDIANA MISO	PDD	1,992	1,074	85.5%	2,198	-9.4%
INDIANA MISO	PDM	0	0	-	0	-
INDIANA MISO	PTD	364	306	19.0%	413	-11.9%
INDIANA MISO	PTM	0	0	-	0	-
INDONESIAN COAL	MCC	0	15	-100.0%	0	-
ISO NEW ENGLAND OFF-PEAK	KI	42	282	-85.1%	56	-25.0%
ISO NEW ENGLAND PK LMP	NI	51	329	-84.5%	68	-25.0%
JAPAN C&F NAPHTHA CRACK S	JB	1,579	1,042	51.5%	2,264	-30.3%
JAPAN C&F NAPHTHA SWAP	JA	1,749	1,487	17.6%	1,563	11.9%
JAPAN NAPHTHA BALMO SWAP	E6	10	5	100.0%	86	-88.4%
JET AV FUEL (P) CAR FM ICE GAS SWAP	1V	39	81	-51.9%	20	95.0%
JET BARGES VS ICE GASOIL	JR	0	0	-	0	-
JET CIF NWE VS ICE	JC	486	461	5.4%	473	2.7%
JET FUEL BRG FOB RDM VS I	9Q	0	0	-	0	-
JET FUEL CRG CIF NEW VS I	6X	0	0	-	0	-
JET FUEL UP-DOWN BALMO CL	1M	6,890	6,880	0.1%	5,324	29.4%
LA CARB DIESEL (OPIS)	LX	0	117	-100.0%	0	-
LA CARB DIESEL (OPIS) SWA	KL	350	815	-57.1%	600	-41.7%
LA CARBOB GASOLINE(OPIS)S	JL	475	50	850.0%	550	-13.6%
LA JET FUEL VS NYM NO 2 H	MQ	0	300	-100.0%	0	-
LA JET (OPIS) SWAP	JS	2,425	2,060	17.7%	2,660	-8.8%
LLS (ARGUS) CALENDAR SWAP	XA	0	0	-	0	-
LLS (ARGUS) VS WTI SWAP	WJ	16,669	32,071	-48.0%	17,958	-7.2%
MARS (ARGUS) VS WTI SWAP	YX	10,399	11,314	-8.1%	10,630	-2.2%
MARS (ARGUS) VS WTI TRD M	YV	22,594	17,929	26.0%	22,417	0.8%
MARS BLEND CRUDE OIL	MB	2,720	1,550	75.5%	2,220	22.5%
MCCLOSKEY ARA ARGS COAL	MTF	53,015	87,715	-39.6%	58,543	-9.4%
MCCLOSKEY RCH BAY COAL	MFF	7,193	20,122	-64.3%	8,542	-15.8%
MGF FUT	MGF	40	0	-	79	-49.4%
MGN1 SWAP FUT	MGN	309	581	-46.8%	409	-24.4%
MICHCON NG INDEX SWAP	Y8	0	980	-100.0%	0	-
MICHIGAN BASIS	NF	6,211	15,761	-60.6%	6,893	-9.9%
MICHIGAN MISO	HMO	86,760	176,640	-50.9%	104,760	-17.2%
MICHIGAN MISO	HMW	5,250	12,056	-56.5%	6,350	-17.3%
MINI GAS EUROBOB OXY NWE ARGS BALMO	MEB	321	387	-17.1%	93	245.2%
MINI RBOB V. EBOBARG NWE BRGS BALMO	MXR	554	220	151.8%	1,000	-44.6%
MINI RBOB V. EBOB(ARGUS) NWE BRGS	MXB	1,616	3,230	-50.0%	2,250	-28.2%
MJB FUT	MJB	0	0	-	0	-
MJC FUT	MJC	660	428	54.2%	620	6.5%
MNC FUT	MNC	3,860	3,246	18.9%	4,222	-8.6%
MONT BELVIEU ETHANE 5 DECIMAL	C0	70,148	100,182	-30.0%	74,617	-6.0%

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Energy Futures						
MONT BELVIEU ETHANE OPIS BALMO	8C	93	420	-77.9%	150	-38.0%
MONT BELVIEU LDH PROPANE 5 DECIMAL	B0	114,100	140,296	-18.7%	111,716	2.1%
MONT BELVIEU LDH PROPANE OPIS BALMO	8O	896	1,489	-39.8%	1,200	-25.3%
MONT BELVIEU NATURAL GASOLINE 5 DEC	7Q	11,258	17,125	-34.3%	10,997	2.4%
MONT BELVIEU NATURAL GASOLINE BALMO	R0	355	25	1,320.0%	557	-36.3%
MONT BELVIEU NORMAL BUTANE 5 DECIMAL	D0	43,526	37,334	16.6%	40,842	6.6%
MONT BELVIEU NORMAL BUTANE BALMO	8J	684	268	155.2%	246	178.0%
NAT GAS BASIS SWAP	SGW	0	0	-	0	-
NAT GAS BASIS SWAP	TZ6	6,413	13,204	-51.4%	7,157	-10.4%
NATURAL GAS	HBI	0	0	0.0%	0	-
NATURAL GAS	XIC	20	0	-	24	-16.7%
NATURAL GAS	XSC	0	0	-	0	-
NATURAL GAS FIXED PRICE SWAP FUTURES	CFS	0	244	-100.0%	0	-
NATURAL GAS FIXED PRICE SWAP FUTURES	DSF	0	2,224	-100.0%	0	-
NATURAL GAS FIXED PRICE SWAP FUTURES	MFS	0	244	-100.0%	0	-
NATURAL GAS FIXED PRICE SWAP FUTURES	PFS	0	44	-100.0%	0	-
NATURAL GAS FIXED PRICE SWAP FUTURES	WFS	0	55	-100.0%	0	-
NATURAL GAS FIXED PRICE SWAP FUTURES	Z5P	0	0	-	0	-
NATURAL GAS FIXED PRICE SWAP FUTURES	ZTS	0	8	-100.0%	0	-
NATURAL GAS INDEX	TZI	124	2,668	-95.4%	244	-49.2%
NATURAL GAS PEN SWP	NP	194,330	282,753	-31.3%	204,090	-4.8%
NEPOOL CNCTCT 5MW D AH O	P3	1,201	10,701	-88.8%	1,601	-25.0%
NEPOOL CONECTIC 5MW D AH	P2	63	569	-88.9%	83	-24.1%
NEPOOL INTR HUB 5MW D AH	H2	532,720	563,502	-5.5%	545,425	-2.3%
NEPOOL INTR HUB 5MW D AH	U6	37,606	39,357	-4.4%	38,362	-2.0%
NEPOOL NE MASS 5MW D AH O	P8	14,040	0	-	14,040	0.0%
NEPOOL NE MASS 5MW D AH P	P7	765	105	628.6%	765	0.0%
NEPOOL NEW HAMP 5MW D AH	U2	0	0	-	0	-
NEPOOL NEW HAMP 5MW D AH	U3	0	0	-	0	-
NEPOOL RHD ISLD 5MW D AH	U4	315	3,545	-91.1%	415	-24.1%
NEPOOL RHODE IL 5MW D AH	U5	6,005	57,847	-89.6%	8,005	-25.0%
NEPOOL SE MASS 5MW D AH O	P5	0	0	-	0	-
NEPOOL SE MASS 5MW D AH P	P4	0	0	-	0	-
NEPOOL W CNT MASS 5MW D A	L9	2,402	14,196	-83.1%	3,202	-25.0%
NEPOOL W CNTR M 5MW D AH	R6	126	1,558	-91.9%	166	-24.1%
NEW ENGLAND HUB PEAK DAIL	CE	1,152	1,550	-25.7%	1,848	-37.7%
NEW YORK ETHANOL SWAP	EZ	1,625	2,430	-33.1%	2,385	-31.9%
NEW YORK HUB ZONE G PEAK	GN	919	2,386	-61.5%	1,166	-21.2%
NEW YORK HUB ZONE J PEAK	JN	462	1,312	-64.8%	913	-49.4%
NGPL MID-CONTINENT	NL	25,592	35,207	-27.3%	26,592	-3.8%
NGPL MIDCONTINENT INDEX	IW	0	1,048	-100.0%	0	-
NGPL MIDCONTINENT SWING S	PX	0	0	-	0	-
NGPL TEX/OK	PD	24,420	43,087	-43.3%	26,207	-6.8%
NGPL TEXOK INDEX	OI	0	0	-	0	-
N ILLINOIS HUB DAILY	UD	220	178	23.6%	294	-25.2%
N ILLINOIS HUB MTHLY	UM	60	300	-80.0%	80	-25.0%
NO 2 UP-DOWN SPREAD CALEN	UT	26	187	-86.1%	674	-96.1%
NORTHEN NATURAL GAS DEMAR	PE	2,262	3,613	-37.4%	2,332	-3.0%
NORTHEN NATURAL GAS VENTU	PF	1,824	6,320	-71.1%	2,224	-18.0%
NORTHERN ILLINOIS OFF-PEA	UO	0	240	-100.0%	0	-
NORTHWEST ROCKIES BASIS S	NR	44,307	78,142	-43.3%	47,283	-6.3%
N ROCKIES PIPE SWAP	XR	242	668	-63.8%	273	-11.4%
NY1% VS GC SPREAD SWAP	VR	4,194	4,926	-14.9%	3,589	16.9%

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Energy Futures						
NY 2.2% FUEL OIL (PLATTS)	Y3	0	300	-100.0%	0	-
NY 3.0% FUEL OIL (PLATTS)	H1	75	750	-90.0%	150	-50.0%
NY HARBOR 1% FUEL OIL BAL	VK	0	0	-	0	-
NY HARBOR HEAT OIL SWP	MP	8,505	11,706	-27.3%	9,599	-11.4%
NY HARBOR LOW SULPUR GAS 1000MBBL	NLS	810	2,206	-63.3%	935	-13.4%
NY HARBOR RESIDUAL FUEL 1	MM	3,510	7,158	-51.0%	3,693	-5.0%
NY HARBOR RESIDUAL FUEL C	ML	0	0	-	0	-
NYH NO 2 CRACK SPREAD CAL	HK	7,779	13,621	-42.9%	7,285	6.8%
NY H OIL PLATTS VS NYMEX	YH	0	0	-	0	-
NYISO A	KA	0	1,260	-100.0%	0	-
NYISO A OFF-PEAK	KB	0	400	-100.0%	0	-
NYISO CAPACITY	LHV	423	168	151.8%	309	36.9%
NYISO CAPACITY	NNC	1,416	1,796	-21.2%	1,066	32.8%
NYISO CAPACITY	NRS	2,140	2,106	1.6%	1,607	33.2%
NYISO G	KG	0	126	-100.0%	0	-
NYISO G OFF-PEAK	KH	0	60	-100.0%	0	-
NYISO J	KJ	315	2,600	-87.9%	415	-24.1%
NYISO J OFF-PEAK	KK	90	496	-81.9%	120	-25.0%
NYISO ZONE A 5MW D AH O P	K4	87,600	183,456	-52.3%	99,150	-11.6%
NYISO ZONE A 5MW D AH PK	K3	8,050	9,702	-17.0%	8,470	-5.0%
NYISO ZONE C 5MW D AH O P	A3	0	27,623	-100.0%	0	-
NYISO ZONE C 5MW D AH PK	Q5	0	1,449	-100.0%	0	-
NYISO ZONE G 5MW D AH O P	D2	559,329	303,200	84.5%	567,414	-1.4%
NYISO ZONE G 5MW D AH PK	T3	23,871	20,219	18.1%	24,438	-2.3%
NYISO ZONE J 5MW D AH O P	D4	273,536	156,536	74.7%	275,461	-0.7%
NYISO ZONE J 5MW D AH PK	D3	16,421	12,778	28.5%	16,652	-1.4%
NY JET FUEL (PLATTS) HEAT OIL SWAP	1U	0	0	-	0	-
NYMEX ALUMINUM FUTURES	AN	750	1,531	-51.0%	880	-14.8%
NYMEX ULSD VS NYMEX HO	UY	0	90	-100.0%	0	-
NY ULSD (ARGUS) VS HEATING OIL	7Y	759	5,071	-85.0%	1,311	-42.1%
ONEOK OKLAHOMA NG BASIS	8X	1,391	2,361	-41.1%	1,814	-23.3%
ONTARIO POWER SWAPS	OFD	960	2,208	-56.5%	1,200	-20.0%
ONTARIO POWER SWAPS	OFM	8,090	65,199	-87.6%	12,010	-32.6%
ONTARIO POWER SWAPS	OPD	30	155	-80.6%	30	0.0%
ONTARIO POWER SWAPS	OPM	205	2,110	-90.3%	315	-34.9%
PANHANDLE BASIS SWAP FUTU	PH	18,625	46,129	-59.6%	20,732	-10.2%
PANHANDLE INDEX SWAP FUTU	IV	0	992	-100.0%	0	-
PANHANDLE PIPE SWAP	XH	2,940	0	-	648	353.7%
PERMIAN BASIS SWAP	PM	10,526	22,720	-53.7%	12,107	-13.1%
PETROCHEMICALS	22	44	47	-6.4%	109	-59.6%
PETROCHEMICALS	32	129	63	104.8%	37	248.6%
PETROCHEMICALS	8I	4,426	2,113	109.5%	4,147	6.7%
PETROCHEMICALS	91	554	436	27.1%	499	11.0%
PETROCHEMICALS	HPE	0	12	-100.0%	0	-
PETROCHEMICALS	JKM	540	0	-	480	12.5%
PETROCHEMICALS	LPE	0	0	-	0	-
PETROCHEMICALS	MAC	0	0	-	0	-
PETROCHEMICALS	MAE	200	90	122.2%	150	33.3%
PETROCHEMICALS	MAS	80	60	33.3%	100	-20.0%
PETROCHEMICALS	MBE	675	2,775	-75.7%	900	-25.0%
PETROCHEMICALS	MNB	3,608	4,262	-15.3%	3,545	1.8%
PETROCHEMICALS	MPS	20	0	-	30	-33.3%
PETRO CRCKS & SPRDS ASIA	JNC	150	0	-	150	0.0%



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Energy Futures						
PETRO CRCKS & SPRDS ASIA	STI	20	0	-	40	-50.0%
PETRO CRCKS & SPRDS ASIA	STR	0	0	-	0	-
PETRO CRCKS & SPRDS ASIA	STS	435	60	625.0%	560	-22.3%
PETRO CRCKS & SPRDS NA	CRB	959	556	72.5%	1,334	-28.1%
PETRO CRCKS & SPRDS NA	EXR	3,265	1,849	76.6%	2,731	19.6%
PETRO CRCKS & SPRDS NA	FOC	1,130	2,865	-60.6%	1,295	-12.7%
PETRO CRCKS & SPRDS NA	GBB	2,505	300	735.0%	1,855	35.0%
PETRO CRCKS & SPRDS NA	GCC	375	525	-28.6%	285	31.6%
PETRO CRCKS & SPRDS NA	GCI	3,260	4,097	-20.4%	3,138	3.9%
PETRO CRCKS & SPRDS NA	GCM	17	31	-45.2%	17	0.0%
PETRO CRCKS & SPRDS NA	GCU	16,068	23,431	-31.4%	15,590	3.1%
PETRO CRCKS & SPRDS NA	GFC	0	0	-	0	-
PETRO CRCKS & SPRDS NA	HOB	14,870	13,519	10.0%	15,710	-5.3%
PETRO CRCKS & SPRDS NA	KSD	0	0	-	25	-100.0%
PETRO CRCKS & SPRDS NA	MFR	0	0	-	0	-
PETRO CRCKS & SPRDS NA	NFG	0	220	-100.0%	0	-
PETRO CRCKS & SPRDS NA	NYF	375	375	0.0%	425	-11.8%
PETRO CRCKS & SPRDS NA	NYH	0	450	-100.0%	0	-
PETRO CRCKS & SPRDS NA	RBB	16,580	24,924	-33.5%	13,541	22.4%
PETRO CRCKS & SPRDS NA	RVG	15,768	14,928	5.6%	15,778	-0.1%
PETRO CRCKS & SPRDS NA	SF3	9	0	-	9	0.0%
PETRO CRK&SPRD EURO	1NB	2,463	4,116	-40.2%	2,833	-13.1%
PETRO CRK&SPRD EURO	1ND	425	0	-	225	88.9%
PETRO CRK&SPRD EURO	43	401	607	-33.9%	769	-47.9%
PETRO CRK&SPRD EURO	BFR	0	15	-100.0%	0	-
PETRO CRK&SPRD EURO	BOB	4,131	5,182	-20.3%	4,372	-5.5%
PETRO CRK&SPRD EURO	EGB	0	0	-	5	-100.0%
PETRO CRK&SPRD EURO	EGN	0	0	-	18	-100.0%
PETRO CRK&SPRD EURO	EOB	24	39	-38.5%	46	-47.8%
PETRO CRK&SPRD EURO	EPN	967	697	38.7%	981	-1.4%
PETRO CRK&SPRD EURO	EVC	5,917	5,588	5.9%	5,659	4.6%
PETRO CRK&SPRD EURO	FBT	0	0	-	0	-
PETRO CRK&SPRD EURO	FVB	0	0	-	0	-
PETRO CRK&SPRD EURO	GCB	0	345	-100.0%	0	-
PETRO CRK&SPRD EURO	GOC	54	111	-51.4%	67	-19.4%
PETRO CRK&SPRD EURO	LSU	0	0	-	0	-
PETRO CRK&SPRD EURO	MGB	0	73	-100.0%	0	-
PETRO CRK&SPRD EURO	MUD	290	298	-2.7%	350	-17.1%
PETRO CRK&SPRD EURO	NBB	0	10	-100.0%	10	-100.0%
PETRO CRK&SPRD EURO	NOB	2,009	1,144	75.6%	2,079	-3.4%
PETRO CRK&SPRD EURO	SFB	0	50	-100.0%	0	-
PETRO CRK&SPRD EURO	SFC	0	0	-	0	-
PETROLEUM PRODUCTS	D44	0	0	-	0	-
PETROLEUM PRODUCTS	D45	0	0	-	0	-
PETROLEUM PRODUCTS	D46	0	0	-	0	-
PETROLEUM PRODUCTS	D64	0	0	-	0	-
PETROLEUM PRODUCTS	D65	0	0	-	0	-
PETROLEUM PRODUCTS	EWB	0	0	-	0	-
PETROLEUM PRODUCTS	EWG	4,990	6,167	-19.1%	3,676	35.7%
PETROLEUM PRODUCTS	MBS	0	8	-100.0%	0	-
PETROLEUM PRODUCTS	MGS	0	0	-	0	-
PETROLEUM PRODUCTS	MHE	0	0	-	0	-
PETROLEUM PRODUCTS	MME	0	0	-	0	-

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Energy Futures						
PETROLEUM PRODUCTS	MPE	0	0	0	-	
PETROLEUM PRODUCTS	VU	190	1,172	-83.8%	200	-5.0%
PETROLEUM PRODUCTS ASIA	E6M	0	0	30	-100.0%	
PETROLEUM PRODUCTS ASIA	MJN	1,796	1,620	10.9%	1,872	-4.1%
PETROLEUM PRODUCTS ASIA	MSB	0	0	20	-100.0%	
PETRO OUTFRIGHT EURO	0A	0	0	0	-	
PETRO OUTFRIGHT EURO	0B	10	90	-88.9%	10	0.0%
PETRO OUTFRIGHT EURO	0C	20	0	10	100.0%	
PETRO OUTFRIGHT EURO	0D	5,521	8,281	-33.3%	5,934	-7.0%
PETRO OUTFRIGHT EURO	0E	56	1,160	-95.2%	90	-37.8%
PETRO OUTFRIGHT EURO	0F	1,061	1,966	-46.0%	1,361	-22.0%
PETRO OUTFRIGHT EURO	1T	54	0	66	-18.2%	
PETRO OUTFRIGHT EURO	33	36	201	-82.1%	48	-25.0%
PETRO OUTFRIGHT EURO	5L	163	240	-32.1%	55	196.4%
PETRO OUTFRIGHT EURO	63	0	128	-100.0%	30	-100.0%
PETRO OUTFRIGHT EURO	6L	0	0	0	-	
PETRO OUTFRIGHT EURO	7I	92	97	-5.2%	190	-51.6%
PETRO OUTFRIGHT EURO	7P	0	0	0	-	
PETRO OUTFRIGHT EURO	7R	175	276	-36.6%	109	60.6%
PETRO OUTFRIGHT EURO	88	25	0	0	-	
PETRO OUTFRIGHT EURO	CBB	0	0	0	-	
PETRO OUTFRIGHT EURO	CGB	25	0	25	0.0%	
PETRO OUTFRIGHT EURO	CPB	259	44	488.6%	221	17.2%
PETRO OUTFRIGHT EURO	EFF	20	85	-76.5%	0	-
PETRO OUTFRIGHT EURO	EFM	30	215	-86.0%	50	-40.0%
PETRO OUTFRIGHT EURO	ENS	60	410	-85.4%	70	-14.3%
PETRO OUTFRIGHT EURO	ESB	0	0	0	-	
PETRO OUTFRIGHT EURO	EWN	1,157	398	190.7%	947	22.2%
PETRO OUTFRIGHT EURO	FBD	0	0	0	-	
PETRO OUTFRIGHT EURO	MBB	50	0	20	150.0%	
PETRO OUTFRIGHT EURO	MBN	2,614	3,238	-19.3%	2,875	-9.1%
PETRO OUTFRIGHT EURO	SMU	0	200	-100.0%	0	-
PETRO OUTFRIGHT EURO	T0	303	785	-61.4%	357	-15.1%
PETRO OUTFRIGHT EURO	ULB	0	0	0	-	
PETRO OUTFRIGHT EURO	V0	75	180	-58.3%	100	-25.0%
PETRO OUTFRIGHT EURO	W0	0	0	0	-	
PETRO OUTFRIGHT EURO	X0	0	150	-100.0%	0	-
PETRO OUTFRIGHT EURO	Y0	0	0	0	-	
PETRO OUTFRIGHT NA	FCB	223	1,244	-82.1%	39	471.8%
PETRO OUTFRIGHT NA	FOB	0	0	0	-	
PETRO OUTFRIGHT NA	FOM	0	5	-100.0%	0	-
PETRO OUTFRIGHT NA	GBA	0	0	0	-	
PETRO OUTFRIGHT NA	GUD	0	0	0	-	
PETRO OUTFRIGHT NA	JE	390	126	209.5%	400	-2.5%
PETRO OUTFRIGHT NA	JET	2,328	10,490	-77.8%	3,473	-33.0%
PETRO OUTFRIGHT NA	JTB	1,363	0	850	60.4%	
PETRO OUTFRIGHT NA	MBL	130	161	-19.3%	160	-18.8%
PETRO OUTFRIGHT NA	MEN	368	388	-5.2%	494	-25.5%
PETRO OUTFRIGHT NA	MEO	5,955	10,031	-40.6%	7,140	-16.6%
PETRO OUTFRIGHT NA	MFD	0	206	-100.0%	13	-100.0%
PETRO OUTFRIGHT NA	MMF	113	359	-68.5%	120	-5.8%
PETRO OUTFRIGHT NA	NYT	0	0	0	-	
PETRO OUTFRIGHT NA	XER	0	0	0	-	



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Energy Futures						
PJM AD HUB 5MW REAL TIME	V3	408,170	925,237	-55.9%	451,682	-9.6%
PJM AD HUB 5MW REAL TIME	Z9	24,445	47,440	-48.5%	26,669	-8.3%
PJM AECO DA OFF-PEAK	X1	0	28,152	-100.0%	0	-
PJM AECO DA PEAK	Y1	0	1,521	-100.0%	0	-
PJM APS ZONE DA OFF-PEAK	W4	0	3,603	-100.0%	0	-
PJM APS ZONE DA PEAK	S4	0	189	-100.0%	0	-
PJM ATSI ELEC	MOD	43,130	15,640	175.8%	51,130	-15.6%
PJM ATSI ELEC	MPD	2,330	845	175.7%	2,730	-14.7%
PJM BGE DA OFF-PEAK	R3	24,920	35,888	-30.6%	26,920	-7.4%
PJM BGE DA PEAK	E3	1,360	1,954	-30.4%	1,460	-6.8%
PJM COMED 5MW D AH O PK	D9	29,405	182,095	-83.9%	31,405	-6.4%
PJM COMED 5MW D AH PK	D8	1,590	9,830	-83.8%	1,690	-5.9%
PJM DAILY	JD	796	704	13.1%	620	28.4%
PJM DAYTON DA OFF-PEAK	R7	143,003	99,510	43.7%	152,628	-6.3%
PJM DAYTON DA PEAK	D7	11,286	27,280	-58.6%	11,853	-4.8%
PJM DUQUESNE 5MW D AH PK	D5	0	0	-	0	-
PJM DUQUS 5MW D AH O PK	D6	0	0	-	0	-
PJM JCPL DA OFF-PEAK	F2	0	31,280	-100.0%	0	-
PJM JCPL DA PEAK	J2	0	1,690	-100.0%	0	-
PJM NI HUB 5MW REAL TIME	B3	35,895	46,089	-22.1%	38,315	-6.3%
PJM NI HUB 5MW REAL TIME	B6	853,398	886,153	-3.7%	952,182	-10.4%
PJM NILL DA OFF-PEAK	L3	671,942	853,688	-21.3%	785,941	-14.5%
PJM NILL DA PEAK	N3	34,111	44,504	-23.4%	38,750	-12.0%
PJM OFF-PEAK LMP SWAP FUT	JP	622	1,760	-64.7%	664	-6.3%
PJM PECO ZONE5MW PEAK CAL MO DAY AH	4N	0	0	-	0	-
PJM PEPKO DA OFF-PEAK	Q8	0	0	-	0	-
PJM PPL DA OFF-PEAK	F5	0	15,613	-100.0%	0	-
PJM PPL DA PEAK	L5	0	819	-100.0%	0	-
PJM PSEG DA OFF-PEAK	W6	85,640	132,640	-35.4%	93,640	-8.5%
PJM PSEG DA PEAK	L6	3,400	5,100	-33.3%	3,800	-10.5%
PJM WES HUB PEAK LMP 50 M	4S	0	0	-	0	-
PJM WESTH DA OFF-PEAK	E4	470,327	926,969	-49.3%	537,702	-12.5%
PJM WESTHDA PEAK	J4	26,080	52,153	-50.0%	29,986	-13.0%
PJM WESTH RT OFF-PEAK	N9	2,271,054	2,755,586	-17.6%	2,374,542	-4.4%
PJM WESTH RT PEAK	L1	121,676	177,911	-31.6%	130,274	-6.6%
PLASTICS	PGP	1,314	1,079	21.8%	1,535	-14.4%
PREMIUM UNLND 10P FOB MED	3G	183	180	1.7%	98	86.7%
PREMIUM UNLEAD 10PPM FOB	8G	0	61	-100.0%	0	-
PREM UNL GAS 10PPM RDAM FOB BALMO	7N	0	0	-	0	-
PREM UNL GAS 10PPM RDAM FOB SWAP	7L	0	16	-100.0%	0	-
PROPANE NON-LDH MB (OPIS) BALMO SWP	1S	63	368	-82.9%	600	-89.5%
PROPANE NON-LDH MT. BEL (OPIS) SWP	1R	25,116	31,653	-20.7%	21,563	16.5%
RBOB CALENDAR SWAP	RL	16,136	15,773	2.3%	18,564	-13.1%
RBOB CRACK SPREAD	RM	6,343	3,016	110.3%	3,980	59.4%
RBOB CRACK SPREAD BALMO S	1E	0	0	-	0	-
RBOB GASOLINE BALMO CLNDR	1D	2,176	245	788.2%	1,235	76.2%
RBOB PHY	RBL	0	0	0.0%	0	0.0%
RBOB (PLATTS) CAL SWAP	RY	0	0	-	0	-
RBOB SPREAD (PLATTS) SWAP	RI	7	50	-86.0%	10	-30.0%
RBOB UP-DOWN CALENDAR SWA	RV	0	0	-	0	-
RBOB VS HEATING OIL SWAP	RH	2,642	3,100	-14.8%	2,741	-3.6%
ROCKIES KERN OPAL - NW IN	IR	0	0	-	0	-
SAN JUAN BASIS SWAP	NJ	21,864	43,007	-49.2%	23,290	-6.1%

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Commodity		Open Interest OCT 2017	Open Interest OCT 2016	% CHG	Open Interest SEP 2017	% CHG
Energy Futures						
SAN JUAN PIPE SWAP	XX	0	0	-	0	-
SINGAPORE 180CST BALMO	BS	38	42	-9.5%	10	280.0%
SINGAPORE 380CST BALMO	BT	127	25	408.0%	346	-63.3%
SINGAPORE 380CST FUEL OIL	SE	11,159	11,679	-4.5%	10,231	9.1%
SINGAPORE FUEL 180CST CAL	UA	1,352	1,547	-12.6%	1,709	-20.9%
SINGAPORE FUEL OIL SPREAD	SD	1,357	1,468	-7.6%	1,420	-4.4%
SINGAPORE GASOIL	MTB	112	98	14.3%	65	72.3%
SINGAPORE GASOIL	MTS	8,026	6,769	18.6%	9,769	-17.8%
SINGAPORE GASOIL	STL	0	0	-	0	-
SINGAPORE GASOIL	STZ	150	0	-	300	-50.0%
SINGAPORE GASOIL CALENDAR	MSG	359	36	897.2%	150	139.3%
SINGAPORE GASOIL SWAP	SG	15,809	18,759	-15.7%	15,052	5.0%
SINGAPORE GASOIL VS ICE	GA	6,815	11,201	-39.2%	11,560	-41.0%
SINGAPORE JET KERO BALMO	BX	0	0	-	0	-
SINGAPORE JET KERO GASOIL	RK	2,640	3,690	-28.5%	4,190	-37.0%
SINGAPORE JET KEROSENE SW	KS	2,686	2,135	25.8%	2,992	-10.2%
SINGAPORE JET KERO VS. GASOIL BALMO	ZO	0	50	-100.0%	50	-100.0%
SINGAPORE MOGAS 92 UNLEADED BALMO	1P	266	874	-69.6%	0	-
SINGAPORE MOGAS 92 UNLEADED SWP	1N	11,144	13,609	-18.1%	11,358	-1.9%
SINGAPORE NAPHTHA BALMO	KU	0	0	-	0	-
SINGAPORE NAPHTHA SWAP	SP	0	0	-	0	-
SING FUEL	MSD	0	0	-	30	-100.0%
SOCAL BASIS SWAP	NS	0	0	-	0	-
SOCAL PIPE SWAP	XN	0	3,624	-100.0%	0	-
SONAT BASIS SWAP FUTURE	SZ	122	852	-85.7%	184	-33.7%
SOUTHERN NAT LA NAT GAS	M8	0	0	-	0	-
SOUTH STAR TEX OKLHM KNS	8Z	152	464	-67.2%	168	-9.5%
Sumas Basis Swap	NK	6,973	9,757	-28.5%	7,169	-2.7%
SUMAS NAT GAS PLATTS FIXED PRICE	DVS	122	913	-86.6%	184	-33.7%
TC2 ROTTERDAM TO USAC 37K	TM	0	0	-	0	-
TC5 RAS TANURA TO YOKOHAM	TH	0	0	-	0	-
TCO BASIS SWAP	TC	15,455	30,776	-49.8%	16,868	-8.4%
TCO NG INDEX SWAP	Q1	0	976	-100.0%	0	-
TD3 MEG TO JAPAN 250K MT	TL	30	0	-	0	-
TENN 800 LEG NAT GAS INDE	L4	0	0	-	0	-
TENNESSEE 500 LEG BASIS S	NM	0	1,599	-100.0%	62	-100.0%
TENNESSEE 800 LEG NG BASI	6Z	0	852	-100.0%	62	-100.0%
TENNESSEE ZONE 0 BASIS SW	NQ	604	2,240	-73.0%	666	-9.3%
Tetco ELA Basis	TE	0	0	-	0	-
TETCO M-3 INDEX	IX	868	7,596	-88.6%	1,708	-49.2%
Tetco STX Basis	TX	913	2,098	-56.5%	1,006	-9.2%
TEXAS EASTERN ZONE M-3 BA	NX	7,683	22,615	-66.0%	9,605	-20.0%
TEXAS GAS ZONE1 NG BASIS	9F	7,124	14,253	-50.0%	7,812	-8.8%
TRANSCO ZONE 1 NG BASIS	8E	0	0	-	0	-
Transco Zone 3 Basis	CZ	4,258	7,540	-43.5%	4,599	-7.4%
TRANSCO ZONE 3 NG INDEX S	Y6	1,054	0	-	2,074	-49.2%
TRANSCO ZONE4 BASIS SWAP	TR	11,119	22,651	-50.9%	13,165	-15.5%
TRANSCO ZONE 4 NAT GAS IN	B2	0	0	-	0	-
TRANSCO ZONE 6 BASIS SWAP	NZ	2,681	6,254	-57.1%	3,487	-23.1%
TRANSCO ZONE 6 INDEX	IT	248	2,558	-90.3%	488	-49.2%
TRANSCO ZONE 6 PIPE SWAP	XZ4	0	0	-	0	-
UCM FUT	UCM	69	87	-20.7%	114	-39.5%
ULSD 10PPM CIF MED BALMO	X7	0	0	-	0	-

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Energy Futures						
ULSD 10PPM CIF MED SWAP	Z6	0	0	-	0	-
ULSD 10PPM CIF MED VS ICE	Z7	51	46	10.9%	54	-5.6%
ULSD 10PPM CIF NW BALMO S	B1	0	0	-	0	-
ULSD 10PPM CIF VS ICE GAS	7V	0	0	-	0	-
ULSD UP-DOWN BALMO SWP	1L	8,995	4,645	93.6%	6,927	29.9%
UP DOWN GC ULSD VS NMX HO	LT	54,459	55,322	-1.6%	51,306	6.1%
USGC UNL 87 CRACK SPREAD	RU	0	0	-	0	-
VENTURA NAT GAS PLATTS FIXED PRICE	DVA	0	0	-	0	-
WAHA BASIS	NW	7,957	13,684	-41.9%	8,608	-7.6%
WAHA INDEX SWAP FUTURE	IY	0	1,764	-100.0%	0	-
WESTERN RAIL DELIVERY PRB	QP	345	1,865	-81.5%	330	4.5%
WTI-BRENT BULLET SWAP	BY	404	0	-	1,404	-71.2%
WTI-BRENT CALENDAR SWAP	BK	67,725	51,413	31.7%	57,703	17.4%
WTI CALENDAR	CS	146,655	119,023	23.2%	140,638	4.3%
WTS (ARGUS) VS WTI SWAP	FF	47,666	42,210	12.9%	45,787	4.1%
WTS (ARGUS) VS WTI TRD MT	FH	5,338	3,242	64.7%	3,658	45.9%
Energy Options						
12 MO GASOIL CAL SWAP SPR	GXZ	630	0	-	630	0.0%
1 MO GASOIL CAL SWAP SPR	GXA	0	100	-100.0%	0	-
APPALACHIAN COAL	6K	0	0	-	0	-
BRENT CALENDAR SWAP	BA	6,318	27,305	-76.9%	7,699	-17.9%
BRENT CRUDE OIL 12 M CSO	9Y	0	0	-	0	-
BRENT OIL LAST DAY	BE	11,842	6,090	94.4%	14,444	-18.0%
BRENT OIL LAST DAY	BZO	99,325	59,143	67.9%	124,129	-20.0%
BRENT OIL LAST DAY	OS	1,596	20,436	-92.2%	16,324	-90.2%
COAL API2 INDEX	CLA	5,669	29,379	-80.7%	5,528	2.6%
COAL API2 INDEX	CQA	145	100	45.0%	0	-
COAL API2 INDEX	MTC	0	0	-	0	-
COAL API4 INDEX	RLA	0	150	-100.0%	0	-
COAL API4 INDEX	RQA	0	270	-100.0%	0	-
COAL SWAP	CPF	40	120	-66.7%	40	0.0%
COAL SWAP	RPF	520	1,080	-51.9%	460	13.0%
CRUDE OIL 1MO	WA	479,814	640,901	-25.1%	578,334	-17.0%
CRUDE OIL APO	AO	376,410	281,296	33.8%	369,401	1.9%
CRUDE OIL CALNDR STRIP	6F	0	0	-	0	-
CRUDE OIL OUTRIGHTS	AH	150	750	-80.0%	150	0.0%
CRUDE OIL OUTRIGHTS	DBP	0	630	-100.0%	0	-
CRUDE OIL OUTRIGHTS	WCI	8,170	0	-	5,760	41.8%
CRUDE OIL PHY	CD	0	0	0.0%	0	0.0%
CRUDE OIL PHY	LC	61,773	70,396	-12.2%	59,546	3.7%
CRUDE OIL PHY	LO	3,073,824	3,079,105	-0.2%	2,981,313	3.1%
CRUDE OIL PHY	LO1	5,279	2,285	131.0%	3,483	51.6%
CRUDE OIL PHY	LO2	1,632	125	1,205.6%	655	149.2%
CRUDE OIL PHY	LO3	695	52	1,236.5%	685	1.5%
CRUDE OIL PHY	LO4	177	0	0.0%	0	-
CRUDE OIL PHY	LO5	0	0	-	0	0.0%
DAILY CRUDE OIL	DNM	0	0	-	0	-
ELEC FINSETTLED	PML	0	44	-100.0%	0	-
ELEC MISO PEAK	9T	0	420	-100.0%	0	-
ELECTRICITY OFF PEAK	N9P	0	0	-	0	-
ETHANOL	CE1	0	0	-	0	-
ETHANOL	CE3	0	0	-	0	-



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Energy Options						
ETHANOL SWAP	CVR	12,669	16,183	-21.7%	11,136	13.8%
ETHANOL SWAP	GVR	2,177	3,189	-31.7%	2,251	-3.3%
EURO-DENOMINATED PETRO PROD	EFB	0	0	-	0	-
EURO-DENOMINATED PETRO PROD	NWE	0	0	-	0	-
EUROPEAN JET KEROSENE NWE (PLATTS) AVG PRC	30	0	30	-100.0%	0	-
GASOIL CRACK SPREAD AVG PRICE OPTIONS	3U	0	0	-	0	-
GASOLINE	GCE	0	456	-100.0%	0	-
HEATING OIL CRACK OPTIONS	CH	100	0	-	100	0.0%
HEATING OIL CRK SPD AVG PRICE OPTIONS	3W	0	200	-100.0%	0	-
HEATING OIL PHY	LB	379	983	-61.4%	436	-13.1%
HEATING OIL PHY	OH	69,956	76,750	-8.9%	62,627	11.7%
HENRY HUB FINANCIAL LAST	E7	7,184	11,104	-35.3%	7,767	-7.5%
HO 1 MONTH CLNDR OPTIONS	FA	100	200	-50.0%	200	-50.0%
HUSTN SHIP CHNL PIPE SWP	PK	0	0	-	0	-
LLS CRUDE OIL	WJO	2,950	9,880	-70.1%	4,425	-33.3%
LLS CRUDE OIL	YVO	3,250	0	-	3,500	-7.1%
MCCLOSKEY ARA ARGS COAL	MTO	860	1,125	-23.6%	1,055	-18.5%
MCCLOSKEY RCH BAY COAL	MFO	0	325	-100.0%	0	-
NATURAL GAS	G10	0	0	-	0	-
NATURAL GAS 12 M CSO FIN	G7	0	0	-	0	-
NATURAL GAS 1 M CSO FIN	G4	120,684	27,750	334.9%	134,408	-10.2%
NATURAL GAS 2 M CSO FIN	G2	5,050	1,000	405.0%	3,550	42.3%
NATURAL GAS 3 M CSO FIN	G3	1,000	350	185.7%	0	-
NATURAL GAS 5 M CSO FIN	G5	0	0	-	0	-
NATURAL GAS 6 M CSO FIN	G6	11,200	1,500	646.7%	8,150	37.4%
NATURAL GAS OPTION ON CALENDAR STRP	6J	10,870	18,686	-41.8%	9,238	17.7%
NATURAL GAS PHY	KD	0	0	0.0%	0	0.0%
NATURAL GAS PHY	LN	2,158,881	2,380,289	-9.3%	1,931,687	11.8%
NATURAL GAS PHY	ON	102,629	138,228	-25.8%	93,900	9.3%
NATURAL GAS PHY	ON1	0	0	-	0	-
NATURAL GAS PHY	ON5	0	0	-	0	-
NG HH 3 MONTH CAL	IC	0	0	-	0	-
N ROCKIES PIPE SWAP	ZR	6,754	9,780	-30.9%	6,754	0.0%
NY HARBOR HEAT OIL SWP	AT	19,045	39,776	-52.1%	20,479	-7.0%
NYISO ZONE G 5MW PEAK OPTIONS	9U	5,880	420	1,300.0%	5,880	0.0%
NYMEX EUROPEAN GASOIL APO	F7	0	30	-100.0%	0	-
NYMEX EUROPEAN GASOIL OPT	F8	0	0	-	0	-
PANHANDLE PIPE SWAP	PU	7,680	0	-	2,160	255.6%
PETROCHEMICALS	4H	6,050	4,536	33.4%	5,593	8.2%
PETROCHEMICALS	4I	0	0	-	0	-
PETROCHEMICALS	4J	1,925	5,300	-63.7%	2,440	-21.1%
PETROCHEMICALS	4K	700	690	1.4%	700	0.0%
PETROCHEMICALS	CPR	18	25	-28.0%	18	0.0%
PETRO OUTRIGHT EURO	8H	150	0	-	200	-25.0%
PGE CITYGATE PIPE SWAP	CW	0	0	-	0	-
PJM CALENDAR STRIP	6O	0	0	-	0	-
PJM ELECTRIC	6OO	0	0	-	0	-
PJM MONTHLY	JO	0	0	-	0	-
PJM WES HUB PEAK CAL MTH	6OA	3,420	710	381.7%	3,400	0.6%
PJM WES HUB PEAK CAL MTH	JOA	0	9,840	-100.0%	0	-
PJM WES HUB PEAK LMP 50MW	PMA	15,908	8,963	77.5%	15,778	0.8%
RBOB 1MO CAL SPD OPTIONS	ZA	1,100	50	2,100.0%	750	46.7%
RBOB CALENDAR SWAP	RA	1,074	2,453	-56.2%	1,502	-28.5%

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Energy Options						
RBOB PHY	OB	17,395	21,088	-17.5%	20,238	-14.0%
RBOB PHY	RF	275	0	-	200	37.5%
ROTTERDAM 3.5%FUEL OIL CL	Q6	120	510	-76.5%	160	-25.0%
SAN JUAN PIPE SWAP	PJ	5,636	8,736	-35.5%	5,364	5.1%
SHORT TERM	U11	0	0	-	0	-
SHORT TERM	U12	0	0	-	0	-
SHORT TERM	U13	0	0	-	0	-
SHORT TERM	U14	0	0	-	0	-
SHORT TERM	U15	0	0	-	0	-
SHORT TERM	U22	0	0	-	0	-
SHORT TERM	U23	0	0	-	0	-
SHORT TERM	U24	0	0	-	0	-
SHORT TERM	U25	0	0	-	0	-
SHORT TERM	U26	0	0	-	0	-
SHORT TERM CRUDE OIL	C02	0	0	-	0	-
SHORT TERM NATURAL GAS	U01	0	1,000	-100.0%	0	-
SHORT TERM NATURAL GAS	U02	0	0	-	525	-100.0%
SHORT TERM NATURAL GAS	U03	0	0	-	0	-
SHORT TERM NATURAL GAS	U04	0	0	-	0	-
SHORT TERM NATURAL GAS	U05	0	0	-	0	-
SHORT TERM NATURAL GAS	U06	0	0	-	0	-
SHORT TERM NATURAL GAS	U07	0	0	-	0	-
SHORT TERM NATURAL GAS	U08	0	0	-	0	-
SHORT TERM NATURAL GAS	U09	0	0	-	0	-
SHORT TERM NATURAL GAS	U10	0	0	-	0	-
SHORT TERM NATURAL GAS	U16	0	0	-	0	-
SHORT TERM NATURAL GAS	U17	0	0	-	0	-
SHORT TERM NATURAL GAS	U18	0	0	-	0	-
SHORT TERM NATURAL GAS	U19	0	0	-	0	-
SHORT TERM NATURAL GAS	U20	0	0	-	0	-
SHORT TERM NATURAL GAS	U21	0	0	-	0	-
SHORT TERM NATURAL GAS	U27	0	0	-	0	-
SHORT TERM NATURAL GAS	U28	0	0	0.0%	0	0.0%
SHORT TERM NATURAL GAS	U29	0	0	-	0	0.0%
SHORT TERM NATURAL GAS	U30	0	0	-	0	-
SHORT TERM NATURAL GAS	U31	0	0	0.0%	0	-
SINGAPORE FUEL OIL 180 CS	C5	0	0	-	0	-
SINGAPORE GASOIL CALENDAR	M2	75	300	-75.0%	100	-25.0%
SINGAPORE JET FUEL CALEND	N2	120	840	-85.7%	160	-25.0%
SOCAL PIPE SWAP	ZN	0	7,200	-100.0%	0	-
WTI 12 MONTH CALENDAR OPT	WZ	0	0	-	0	-
WTI-BRENT BULLET SWAP	BV	200,363	21,060	851.4%	202,601	-1.1%
WTI CRUDE OIL 1 M CSO FI	7A	258,669	335,125	-22.8%	285,624	-9.4%
Metals Futures						
COMEX GOLD	GC	532,783	511,276	4.2%	531,843	0.2%
NYMEX HOT ROLLED STEEL	HR	13,110	16,863	-22.3%	13,332	-1.7%
NYMEX PLATINUM	PL	77,877	71,127	9.5%	71,236	9.3%
PALLADIUM	PA	34,083	22,825	49.3%	31,533	8.1%
URANIUM	UX	4,227	5,151	-17.9%	4,227	0.0%
COMEX SILVER	SI	198,775	194,016	2.5%	183,000	8.6%
COMEX E-Mini GOLD	QO	891	2,343	-62.0%	797	11.8%



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Metals Futures						
COMEX E-Mini SILVER	QI	105	198	-47.0%	105	0.0%
COMEX COPPER	HG	300,174	200,654	49.6%	272,255	10.3%
COMEX MINY COPPER	QC	305	32	853.1%	269	13.4%
ALUMINUM	A38	0	62	-100.0%	0	-
ALUMINUM	AEP	14,699	6,266	134.6%	14,515	1.3%
ALUMINUM	ALA	3,730	60	6,116.7%	3,900	-4.4%
ALUMINUM	ALI	62	283	-78.1%	188	-67.0%
ALUMINUM	AUP	26,811	30,013	-10.7%	26,298	2.0%
ALUMINUM	EDP	10,373	5,019	106.7%	10,709	-3.1%
ALUMINUM	MJP	8,374	3,101	170.0%	7,385	13.4%
COPPER	HGS	863	2,482	-65.2%	995	-13.3%
E-MICRO GOLD	MGC	8,813	3,097	184.6%	6,945	26.9%
FERROUS PRODUCTS	BUS	680	397	71.3%	365	86.3%
FERROUS PRODUCTS	SSF	0	0	-	0	-
GOLD	GPS	0	0	-	0	-
Gold Kilo	GCK	32	144	-77.8%	33	-3.0%
IRON ORE 58 CHINA TSI FUTURES	TIC	0	0	-	0	-
IRON ORE 62 CHINA PLATTS FUTURES	PIO	3,130	1,440	117.4%	3,724	-16.0%
IRON ORE 62 CHINA TSI FUTURES	TIO	12,795	20,388	-37.2%	13,784	-7.2%
LNDN ZINC	ZNC	30	27	11.1%	10	200.0%
METALS	LED	0	0	-	0	-
SILVER	SIL	1,531	1,040	47.2%	1,439	6.4%
Metals Options						
COMEX COPPER	HX	12,218	5,389	126.7%	7,471	63.5%
COMEX GOLD	OG	1,045,632	1,120,493	-6.7%	1,032,853	1.2%
COMEX SILVER	SO	126,957	137,363	-7.6%	109,781	15.6%
COPPER	H4E	0	0	-	0	-
GOLD	OG1	4,040	1,185	240.9%	2,163	86.8%
GOLD	OG2	1,410	164	759.8%	146	865.8%
GOLD	OG3	515	19	2,610.5%	79	551.9%
GOLD	OG4	151	21	619.0%	0	-
GOLD	OG5	0	0	-	0	0.0%
HOT ROLLED COIL STEEL CALL OPTION	HRO	330	0	-	0	-
IRON ORE 62 CHINA TSI CALL OPTION	ICT	8,756	13,333	-34.3%	9,831	-10.9%
IRON ORE 62 CHINA TSI PUT OPTION	ICT	7,160	15,731	-54.5%	8,860	-19.2%
NYMEX PLATINUM	PO	3,496	5,833	-40.1%	2,343	49.2%
PALLADIUM	PAO	5,640	3,569	58.0%	2,986	88.9%
SILVER	SO1	11	68	-83.8%	0	-
SILVER	SO2	16	135	-88.1%	0	-
SILVER	SO3	0	3	-100.0%	0	-
SILVER	SO4	0	0	0.0%	0	-
SILVER	SO5	0	0	-	0	0.0%



NYMEX/COMEX Exchange Open Interest Report - Monthly

Commodity	Open Interest OCT 2017	Open Interest OCT 2016	% CHG	Open Interest SEP 2017	% CHG
TOTAL FUTURES GROUP					
Commodities and Alternative Investments Futures	4	41	-90.2%	5	-20.0%
Energy Futures	17,011,087	18,713,303	-9.1%	17,518,205	-2.9%
Metals Futures	1,254,253	1,098,304	14.2%	1,198,887	4.6%
TOTAL FUTURES	18,265,344	19,811,648	-7.8%	18,717,097	-2.4%
TOTAL OPTIONS GROUP					
Energy Options	7,196,305	7,386,837	-2.6%	7,023,637	2.5%
Metals Options	1,216,332	1,303,306	-6.7%	1,176,513	3.4%
TOTAL OPTIONS	8,412,637	8,690,143	-3.2%	8,200,150	2.6%
TOTAL COMBINED					
Commodities and Alternative Investments	4	41	-90.2%	5	-20.0%
Energy	24,207,392	26,100,140	-7.3%	24,541,842	-1.4%
Metals	2,470,585	2,401,610	2.9%	2,375,400	4.0%
GRAND TOTAL	26,677,981	28,501,791	-6.4%	26,917,247	-0.9%