

## NYMEX/COMEX Exchange Open Interest Report - Monthly

	Commodity	Open Interest JUL 2017	Open Interest JUL 2016	% CHG	Open Interest JUN 2017	% CHG
Commodities and Alternative Investments Futures						
COCOA TAS	CJ	1	47	-97.9%	1	0.0%
COFFEE	KT	0	3	-100.0%	0	-
COTTON	TT	2	22	-90.9%	2	0.0%
SUGAR 11	YO	1	9	-88.9%	2	-50.0%
Energy Futures						
CRUDE OIL PHY	CL	2,242,008	1,776,158	26.2%	2,182,905	2.7%
CRUDE OIL	WS	7,396	4,964	49.0%	1,693	336.9%
MINY WTI CRUDE OIL	QM	5,473	4,866	12.5%	6,289	-13.0%
BRENT OIL LAST DAY	BZ	143,699	155,521	-7.6%	133,961	7.3%
HEATING OIL PHY	HO	396,631	384,183	3.2%	418,127	-5.1%
HTG OIL	BH	292	3,334	-91.2%	275	6.2%
MINY HTG OIL	QH	0	1	-100.0%	1	-100.0%
RBOB PHY	RB	391,992	393,880	-0.5%	404,791	-3.2%
MINY RBOB GAS	QU	0	1	-100.0%	0	-
NATURAL GAS	HP	118,086	123,423	-4.3%	128,697	-8.2%
LTD NAT GAS	HH	371,914	276,046	34.7%	372,587	-0.2%
MINY NATURAL GAS	QG	1,580	2,545	-37.9%	1,578	0.1%
PJM MONTHLY	JM	2,486	8,884	-72.0%	2,668	-6.8%
NATURAL GAS PHY	NG	1,333,496	996,494	33.8%	1,340,513	-0.5%
RBOB GAS	RT	3,588	3,000	19.6%	1,678	113.8%
3.5% FUEL OIL CID MED SWA	7D	404	882	-54.2%	487	-17.0%
3.5% FUEL OIL CIF BALMO S	8D	0	0	-	0	-
AEP-DAYTON HUB DAILY	VD	170	302	-43.7%	168	1.2%
AEP-DAYTON HUB MTHLY	VM	420	1,302	-67.7%	490	-14.3%
AEP-DAYTON HUB OFF-PEAK M	VP	300	1,002	-70.1%	350	-14.3%
ALGON CITY GATES NAT GAS	N7	984	3,664	-73.1%	1,224	-19.6%
ALGONQUIN CITYGATES BASIS	B4	1,068	3,403	-68.6%	1,254	-14.8%
ANR LOUISIANA BASIS SWAP	ND	0	368	-100.0%	0	-
ANR OKLAHOMA	NE	2,408	5,345	-54.9%	2,625	-8.3%
APPALACHIAN COAL (PHY)	QL	0	20	-100.0%	0	-
ARGUS LLS VS. WTI (ARG) T	E5	7,934	12,535	-36.7%	9,354	-15.2%
ARGUS PROPAN FAR EST INDE	7E	2,409	2,307	4.4%	1,794	34.3%
ARGUS PROPAN(SAUDI ARAMCO	9N	879	1,085	-19.0%	856	2.7%
AUSTRIALIAN COKE COAL	ALW	630	1,000	-37.0%	678	-7.1%
BRENT BALMO SWAP	J9	190	40	375.0%	150	26.7%
BRENT CALENDAR SWAP	CY	17,580	17,812	-1.3%	16,069	9.4%
BRENT CFD SWAP	6W	0	0	-	0	-
BRENT FINANCIAL FUTURES	BB	7,027	7,093	-0.9%	6,462	8.7%
BRENT FINANCIAL FUTURES	MBC	0	30	-100.0%	0	-
BRENT FINANCIAL FUTURES	MDB	20	105	-81.0%	60	-66.7%
BRENT OIL LAST DAY	BZL	0	0	0.0%	0	0.0%
BRENT OIL LAST DAY	BZS	0	0	0.0%	0	0.0%
CAISO SP15 EZGNHUB5 MW P	9X	1,250	0	-	2,600	-51.9%
CAISO SP15 EZGNHUB5 PEAK	9Z	1,900	0	-	1,750	8.6%
CANADIAN LIGHT SWEET OIL	CIL	2,919	10,425	-72.0%	3,639	-19.8%
CENTERPOINT BASIS SWAP	PW	13,332	22,294	-40.2%	14,112	-5.5%
CENTERPOINT EAST INDEX	II	0	740	-100.0%	0	-
CENTER POINT NAT GAS FIXED PRICE	DAC	0	0	-	0	-
CHICAGO ETHANOL SWAP	CU	42,579	52,308	-18.6%	42,037	1.3%
CHICAGO ULSD (PLATTS) SWA	4C	0	18	-100.0%	0	-

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CHICAGO ULSD PL VS HO SPR	5C	1,179	1,501	-21.5%	1,234	-4.5%
CHICAGO UNL GAS PL VS RBO	3C	18	54	-66.7%	21	-14.3%
CIG BASIS	CI	33,113	53,998	-38.7%	35,794	-7.5%
CIG ROCKIES NG INDEX SWA	Z8	0	124	-100.0%	0	-
CINERGY HUB OFF-PEAK MONT	EJ	120	464	-74.1%	120	0.0%
CINERGY HUB PEAK MONTH	EM	288	372	-22.6%	288	0.0%
CIN HUB 5MW D AH O PK	K2	322,600	260,120	24.0%	319,280	1.0%
CIN HUB 5MW D AH PK	H5	14,059	19,111	-26.4%	15,971	-12.0%
CIN HUB 5MW REAL TIME O P	H4	597,264	617,912	-3.3%	575,992	3.7%
CIN HUB 5MW REAL TIME PK	H3	45,483	47,493	-4.2%	46,653	-2.5%
COAL SWAP	ACM	95	120	-20.8%	175	-45.7%
COAL SWAP	SSI	0	50	-100.0%	0	-
COLUMB GULF MAINLINE NG B	5Z	10,401	29,702	-65.0%	11,718	-11.2%
COLUMBIA GULF MAIN NAT G	L2	0	1,476	-100.0%	0	-
COLUMBIA GULF NAT GAS FIXED PRICE	DCE	0	0	-	0	-
COLUMBIA GULF ONSHORE	GL	7,439	21,867	-66.0%	8,648	-14.0%
CONWAY NATURAL GASOLINE (OPIS) SWAP	8L	1,068	709	50.6%	1,001	6.7%
CONWAY NORMAL BUTANE (OPIS) SWAP	8M	3,832	255	1,402.7%	4,012	-4.5%
CONWAY PROPANE 5 DECIMALS SWAP	8K	18,055	15,229	18.6%	17,475	3.3%
CRUDE OIL	CHB	0	0	-	0	-
CRUDE OIL	LPS	18,435	19,901	-7.4%	17,100	7.8%
CRUDE OIL OUTRIGHTS	37	0	0	-	0	-
CRUDE OIL OUTRIGHTS	42	86	180	-52.2%	110	-21.8%
CRUDE OIL OUTRIGHTS	CC5	270	0	-	360	-25.0%
CRUDE OIL OUTRIGHTS	CSN	0	0	-	0	-
CRUDE OIL OUTRIGHTS	CSW	875	0	-	820	6.7%
CRUDE OIL OUTRIGHTS	DBL	100	0	-	150	-33.3%
CRUDE OIL OUTRIGHTS	FE	230	0	-	0	-
CRUDE OIL OUTRIGHTS	GSW	0	30	-100.0%	0	-
CRUDE OIL OUTRIGHTS	HTT	33,110	6,500	409.4%	31,310	5.7%
CRUDE OIL OUTRIGHTS	LSW	120	0	-	210	-42.9%
CRUDE OIL OUTRIGHTS	SSW	270	0	-	90	200.0%
CRUDE OIL OUTRIGHTS	WCC	5,105	11,920	-57.2%	6,305	-19.0%
CRUDE OIL OUTRIGHTS	WCW	12,990	0	-	10,345	25.6%
CRUDE OIL PHY	CLL	0	0	0.0%	0	0.0%
CRUDE OIL SPRDS	38	0	0	-	0	-
CRUDE OIL SPRDS	WTT	26,688	11,200	138.3%	29,183	-8.5%
CRUDE OIL TRADE AT MARKER SINGAPORE	CLS	0	0	0.0%	0	0.0%
DAILY PJM	AOR	10,656	14,112	-24.5%	10,656	0.0%
DAILY PJM	IDO	16,704	29,184	-42.8%	16,968	-1.6%
DAILY PJM	NOC	22,176	20,304	9.2%	24,192	-8.3%
DAILY PJM	PAP	1,260	980	28.6%	1,125	12.0%
DAILY PJM	PEO	11,600	23,040	-49.7%	12,800	-9.4%
DAILY PJM	PNO	126,208	61,544	105.1%	140,320	-10.1%
DAILY PJM	PNP	6,155	3,029	103.2%	5,485	12.2%
DAILY PJM	PWO	81,200	83,968	-3.3%	89,600	-9.4%
DAILY PJM	PWP	7,868	4,900	60.6%	6,550	20.1%
DAILY PJM	WOR	24,576	82,368	-70.2%	24,384	0.8%
DAILY PJM	ZAO	13,920	33,280	-58.2%	15,360	-9.4%
DAILY PJM	ZGO	18,560	17,408	6.6%	18,808	-1.3%
DAILY PJM	ZJO	11,600	2,560	353.1%	11,040	5.1%
DATED BRENT (PLATTS) DAILY SWAP	7G	0	0	-	0	-
DATED TO FRONTLINE BRENT	FY	10,685	11,095	-3.7%	10,515	1.6%

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<b>Energy Futures</b>						
DEMARCO INDEX FUTURE	DI	0	620	-100.0%	0	-
DEMARCO SWING SWAP	DT	0	0	-	0	-
DIESEL 10P BRG FOB RDM VS	7X	0	0	-	0	-
DIESEL 10PPM BARGES FOB B	U7	3	0	-	0	-
DIESEL10PPM BARG VS ICE LS	LSE	0	0	-	0	-
DLY GAS EURO-BOB OXY	GBR	0	40	-100.0%	0	-
DOMINION TRAN INC - APP I	IH	2,920	8,303	-64.8%	2,920	0.0%
DOMINION TRANSMISSION INC	PG	46,650	47,462	-1.7%	50,272	-7.2%
DUBAI CRUDE OIL BALMO	BI	0	275	-100.0%	0	-
DUBAI CRUDE OIL CALENDAR	DC	12,740	4,650	174.0%	19,015	-33.0%
DY EURO 3.5% FUEL OI RDA	FOR	0	0	-	0	-
EASTERN RAIL DELIVERY CSX	QX	593	2,205	-73.1%	691	-14.2%
EAST/WEST FUEL OIL SPREAD	EW	564	325	73.5%	714	-21.0%
EIA FLAT TAX ONHWAY DIESE	A5	3,840	5,200	-26.2%	4,212	-8.8%
ELEC ERCOT DLY OFF PK	R4	0	0	-	0	-
ELEC ERCOT DLY PEAK	I7	0	42	-100.0%	0	-
ELEC ERCOT DLY PEAK	N1	0	0	-	0	-
ELEC ERCOT DLY PEAK	R1	0	0	-	0	-
ELEC ERCOT OFF PEAK	O1	0	0	-	0	-
ELEC FINSETTLED	47	2,164	2,804	-22.8%	2,274	-4.8%
ELEC FINSETTLED	49	0	635	-100.0%	0	-
ELEC MISO PEAK	4L	4,040	635	536.2%	4,040	0.0%
ELEC MISO PEAK	55	504	1,524	-66.9%	592	-14.9%
ELEC NYISO OFF-PEAK	4M	70,200	11,925	488.7%	70,200	0.0%
ELEC NYISO OFF-PEAK	58	9,604	28,324	-66.1%	11,076	-13.3%
ELECTRICITY ERCOT PEAK	ERE	0	0	-	0	-
ELECTRICITY OFF PEAK	46	40,069	51,544	-22.3%	41,909	-4.4%
ELECTRICITY OFF PEAK	4P	0	0	-	0	-
ELECTRICITY OFF PEAK	50	0	11,925	-100.0%	0	-
ELEC WEST POWER OFF-PEAK	MDA	0	0	-	200	-100.0%
ELEC WEST POWER PEAK	MDC	0	0	-	0	-
EL PASO PERMIAN INDEX SWA	IL	0	1,240	-100.0%	0	-
EMMISSIONS	CPL	0	0	-	0	-
ERCOT DAILY 5MW PEAK	ERW	690	0	-	0	-
ERCOT HOUSTON Z MCPE 5MW PEAK SWAP	I1	1,680	0	-	1,680	0.0%
ERCOT NORTH ZMCPE 5MW OFFPEAK	I8	0	720	-100.0%	3,840	-100.0%
ERCOT NORTH ZMCPE 5MW OFFPEAK SWAP	I6	0	9,805	-100.0%	0	-
ERCOT NORTH ZMCPE 5MW PEAK	I5	1,680	749	124.3%	1,680	0.0%
ETHANOL T2 FOB ROTT INCL DUTY SWAP	Z1	4,984	2,643	88.6%	4,965	0.4%
EU LOW SULPHUR GASOIL CRACK	LSC	0	0	-	0	-
EURO 1% FUEL OIL NEW BALM	KX	0	0	-	0	-
EURO 3.5% FUEL OIL RDAM B	KR	141	182	-22.5%	336	-58.0%
EURO 3.5% FUEL OIL SPREAD	FK	1,330	780	70.5%	1,257	5.8%
EURO-DENOMINATED PETRO PROD	IBE	0	0	-	0	-
EURO-DENOMINATED PETRO PROD	NCP	0	88	-100.0%	0	-
EURO GASOIL 10 CAL SWAP	GT	0	0	-	0	-
EURO GASOIL 10PPM VS ICE	ET	281	594	-52.7%	298	-5.7%
EUROPE 1% FUEL OIL NWE CA	UF	73	749	-90.3%	133	-45.1%
EUROPE 1% FUEL OIL RDAM C	UH	10	71	-85.9%	10	0.0%
EUROPE 3.5% FUEL OIL MED	UI	428	963	-55.6%	530	-19.2%
EUROPE 3.5% FUEL OIL RDAM	UV	9,519	8,390	13.5%	11,162	-14.7%
EUROPEAN GASOIL (ICE)	7F	1,043	4,642	-77.5%	1,311	-20.4%
EUROPEAN NAPHTHA BALMO	KZ	245	128	91.4%	657	-62.7%

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<b>Energy Futures</b>						
EUROPEAN NAPHTHA CRACK SPR	EN	12,840	9,787	31.2%	11,947	7.5%
EUROPE DATED BRENT SWAP	UB	1,325	3,720	-64.4%	4	33,025.0%
EUROPE JET KERO NWE CALSW	UJ	48	18	166.7%	53	-9.4%
EUROPE NAPHTHA CALSWAP	UN	2,910	1,873	55.4%	2,652	9.7%
EURO PROPANE CIF ARA SWA	PS	1,233	1,689	-27.0%	1,247	-1.1%
FL GAS ZONE 3 NAT GAS IND	Q9	0	8,310	-100.0%	0	-
FLORIDA GAS ZONE3 BASIS S	FP	0	1,792	-100.0%	0	-
FREIGHT MARKETS	FLP	814	1,013	-19.6%	854	-4.7%
FUEL OIL CRACK VS ICE	FO	18,746	20,081	-6.6%	21,002	-10.7%
FUEL OIL NWE CRACK VS ICE	FI	0	114	-100.0%	0	-
FUEL OIL (PLATS) CAR CM	1W	20	1,029	-98.1%	31	-35.5%
FUEL OIL (PLATS) CAR CN	1X	0	72	-100.0%	0	-
FUELOIL SWAP:CARGOES VS.B	FS	1,123	1,164	-3.5%	1,320	-14.9%
GAS EURO-BOB OXY NWE BARGES	7H	5,143	6,385	-19.5%	6,022	-14.6%
GAS EURO-BOB OXY NWE BARGES CRK	7K	30,275	26,067	16.1%	32,729	-7.5%
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	15	-100.0%	0	-
GASOIL 0.1CIF MED VS ICE	Z5	30	40	-25.0%	35	-14.3%
GASOIL 0.1 CIF NWE VS ISE	TU	0	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	150	59	154.2%	155	-3.2%
GASOIL 0.1 ROTTERDAM BARG	VL	30	0	-	40	-25.0%
GASOIL 10P CRG CIF NW VS	3V	25	0	-	0	-
GASOIL 10PPM CARGOES CIF	TY	0	0	-	0	-
GASOIL 10PPM VS ICE SWAP	TP	826	552	49.6%	811	1.8%
GASOIL BULLET SWAP	BG	30	0	-	30	0.0%
GASOIL CALENDAR SWAP	GX	61	178	-65.7%	68	-10.3%
GASOIL CRACK SPREAD CALEN	GZ	22,818	15,208	50.0%	24,157	-5.5%
GASOIL MINI CALENDAR SWAP	QA	331	672	-50.7%	391	-15.3%
GASOLINE UP-DOWN BALMO SW	1K	0	0	-	0	-
GC ULSD VS GC JET SPREAD	VV	0	0	-	0	-
GROUP THREE ULSD (PLATTS)	A7	150	0	-	175	-14.3%
GRP THREE ULSD(PLT)VS HEA	A6	10,279	6,918	48.6%	8,542	20.3%
GRP THREE UNL GS (PLT) VS	A8	2,235	3,237	-31.0%	2,920	-23.5%
GULF COAST 3% FUEL OIL BA	VZ	735	242	203.7%	2,243	-67.2%
GULF COAST GASOLINE CLNDR	GS	0	0	-	0	-
GULF COAST JET FUEL CLNDR	GE	949	1,185	-19.9%	897	5.8%
GULF COAST JET VS NYM 2 H	ME	38,750	41,915	-7.6%	35,112	10.4%
GULF COAST NO.6 FUEL OIL	MF	46,941	54,380	-13.7%	49,079	-4.4%
GULF COAST NO.6 FUEL OIL	MG	4,097	7,155	-42.7%	4,212	-2.7%
GULF COAST ULSD CALENDAR	LY	2,777	4,444	-37.5%	3,159	-12.1%
GULF COAST ULSD CRACK SPR	GY	2,780	5,998	-53.7%	2,243	23.9%
HEATING OIL BALMO CLNDR S	1G	100	25	300.0%	150	-33.3%
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	20,745	55,279	-62.5%	22,392	-7.4%
HENRY HUB FINANCIAL LAST	NBP	24	0	-	0	-
HENRY HUB FINANCIAL LAST	TTE	3	0	-	0	-
HENRY HUB INDEX SWAP FUTU	IN	10,875	30,391	-64.2%	20,917	-48.0%

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HENRY HUB SWAP	NN	1,265,165	1,369,747	-7.6%	1,263,496	0.1%
HENRY HUB SWING FUTURE	SN	0	0	-	0	-
HOUSTON SHIP CHANNEL BASI	NH	21,894	30,326	-27.8%	22,052	-0.7%
HOUSTON SHIP CHANNEL INDE	IP	0	186	-100.0%	0	-
HUSTN SHIP CHNL PIPE SWP	XJ	719	3,425	-79.0%	1,087	-33.9%
ICE BRENT DUBAI SWAP	DB	46,008	1,080	4,160.0%	47,104	-2.3%
ICE GASOIL BALMO SWAP	U9	6	0	-	0	-
IN DELIVERY MONTH EUA	6T	10,598	48,850	-78.3%	10,598	0.0%
INDIANA MISO	FAD	25,960	13,000	99.7%	28,600	-9.2%
INDIANA MISO	FDM	0	0	-	0	-
INDIANA MISO	FTD	4,704	6,912	-31.9%	3,744	25.6%
INDIANA MISO	FTM	0	23,850	-100.0%	0	-
INDIANA MISO	PDD	2,655	1,015	161.6%	2,140	24.1%
INDIANA MISO	PDM	0	0	-	0	-
INDIANA MISO	PTD	444	1,113	-60.1%	448	-0.9%
INDIANA MISO	PTM	0	0	-	0	-
INDONESIAN COAL	MCC	0	60	-100.0%	0	-
ISO NEW ENGLAND OFF-PEAK	KI	84	396	-78.8%	98	-14.3%
ISO NEW ENGLAND PK LMP	NI	102	434	-76.5%	119	-14.3%
JAPAN C&F NAPHTHA CRACK S	JB	1,931	883	118.7%	2,182	-11.5%
JAPAN C&F NAPHTHA SWAP	JA	1,690	1,865	-9.4%	2,018	-16.3%
JAPAN NAPHTHA BALMO SWAP	E6	90	5	1,700.0%	98	-8.2%
JET AV FUEL (P) CAR FM ICE GAS SWAP	1V	30	68	-55.9%	31	-3.2%
JET BARGES VS ICE GASOIL	JR	0	0	-	0	-
JET CIF NWE VS ICE	JC	560	532	5.3%	533	5.1%
JET FUEL BRG FOB RDM VS I	9Q	0	0	-	0	-
JET FUEL CRG CIF NEW VS I	6X	42	0	-	0	-
JET FUEL UP-DOWN BALMO CL	1M	4,746	1,340	254.2%	6,349	-25.2%
LA CARB DIESEL (OPIS)	LX	0	104	-100.0%	13	-100.0%
LA CARB DIESEL (OPIS) SWA	KL	200	1,000	-80.0%	335	-40.3%
LA CARBOB GASOLINE(OPIS)S	JL	325	600	-45.8%	650	-50.0%
LA JET FUEL VS NYM NO 2 H	MQ	0	445	-100.0%	0	-
LA JET (OPIS) SWAP	JS	2,365	2,775	-14.8%	2,935	-19.4%
LLS (ARGUS) CALENDAR SWAP	XA	0	0	-	0	-
LLS (ARGUS) VS WTI SWAP	WJ	19,931	37,815	-47.3%	22,334	-10.8%
MARS (ARGUS) VS WTI SWAP	YX	10,549	13,082	-19.4%	8,033	31.3%
MARS (ARGUS) VS WTI TRD M	YV	16,349	10,316	58.5%	18,660	-12.4%
MARS BLEND CRUDE OIL	MB	1,700	3,099	-45.1%	1,700	0.0%
MCCLOSKEY ARA ARGS COAL	MTF	63,875	112,421	-43.2%	67,657	-5.6%
MCCLOSKEY RCH BAY COAL	MFF	9,509	18,791	-49.4%	10,943	-13.1%
MGF FUT	MGF	19	54	-64.8%	26	-26.9%
MGN1 SWAP FUT	MGN	584	574	1.7%	494	18.2%
MICHCON NG INDEX SWAP	Y8	0	1,840	-100.0%	0	-
MICHIGAN BASIS	NF	8,235	10,637	-22.6%	8,917	-7.6%
MICHIGAN MISO	HMO	117,360	202,688	-42.1%	133,920	-12.4%
MICHIGAN MISO	HMW	7,440	13,464	-44.7%	8,650	-14.0%
MINI GAS EUROBOB OXY NWE ARGS BALMO	MEB	608	341	78.3%	891	-31.8%
MINI RBOB V. EBOBARG NWE BRGS BALMO	MXR	402	200	101.0%	420	-4.3%
MINI RBOB V. EBOB(ARGUS) NWE BRGS	MXB	4,165	1,445	188.2%	3,704	12.4%
MJB FUT	MJB	0	0	-	0	-
MJC FUT	MJC	480	469	2.3%	605	-20.7%
MNC FUT	MNC	4,859	4,840	0.4%	5,213	-6.8%
MONT BELVIEU ETHANE 5 DECIMAL	C0	75,607	80,053	-5.6%	77,569	-2.5%

## NYMEX/COMEX Exchange Open Interest Report - Monthly

	Commodity	Open Interest JUL 2017	Open Interest JUL 2016	% CHG	Open Interest JUN 2017	% CHG
<b>Energy Futures</b>						
MONT BELVIEU ETHANE OPIS BALMO	8C	0	110	-100.0%	100	-100.0%
MONT BELVIEU LDH PROPANE 5 DECIMAL	B0	109,148	139,919	-22.0%	106,922	2.1%
MONT BELVIEU LDH PROPANE OPIS BALMO	8O	1,090	765	42.5%	1,074	1.5%
MONT BELVIEU NATURAL GASOLINE 5 DEC	7Q	9,563	18,724	-48.9%	10,733	-10.9%
MONT BELVIEU NATURAL GASOLINE BALMO	R0	145	82	76.8%	217	-33.2%
MONT BELVIEU NORMAL BUTANE 5 DECIMAL	D0	42,090	33,732	24.8%	40,184	4.7%
MONT BELVIEU NORMAL BUTANE BALMO	8J	275	626	-56.1%	347	-20.7%
NAT GAS BASIS SWAP	SGW	0	0	-	0	-
NAT GAS BASIS SWAP	TZ6	9,049	13,823	-34.5%	9,793	-7.6%
NATURAL GAS	HBI	0	0	-	0	-
NATURAL GAS	XIC	32	0	-	36	-11.1%
NATURAL GAS	XSC	0	0	-	0	-
NATURAL GAS FIXED PRICE SWAP FUTURES	CFS	0	612	-100.0%	0	-
NATURAL GAS FIXED PRICE SWAP FUTURES	DSF	360	3,132	-88.5%	540	-33.3%
NATURAL GAS FIXED PRICE SWAP FUTURES	MFS	0	612	-100.0%	0	-
NATURAL GAS FIXED PRICE SWAP FUTURES	PFS	0	110	-100.0%	0	-
NATURAL GAS FIXED PRICE SWAP FUTURES	WFS	0	138	-100.0%	0	-
NATURAL GAS FIXED PRICE SWAP FUTURES	Z5P	0	0	-	0	-
NATURAL GAS FIXED PRICE SWAP FUTURES	ZTS	0	20	-100.0%	0	-
NATURAL GAS INDEX	TZI	492	3,128	-84.3%	612	-19.6%
NATURAL GAS PEN SWP	NP	228,484	312,835	-27.0%	239,811	-4.7%
NEPOOL CNCTCT 5MW D AH O	P3	2,401	16,621	-85.6%	2,769	-13.3%
NEPOOL CONECTIC 5MW D AH	P2	126	889	-85.8%	148	-14.9%
NEPOOL INTR HUB 5MW D AH	H2	587,977	340,161	72.9%	601,513	-2.3%
NEPOOL INTR HUB 5MW D AH	U6	42,259	21,739	94.4%	43,616	-3.1%
NEPOOL NE MASS 5MW D AH O	P8	0	0	-	0	-
NEPOOL NE MASS 5MW D AH P	P7	0	425	-100.0%	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	630	6,041	-89.6%	740	-14.9%
NEPOOL RHODE IL 5MW D AH	U5	12,005	95,735	-87.5%	13,845	-13.3%
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	4,802	34,772	-86.2%	5,538	-13.3%
NEPOOL W CNTR M 5MW D AH	R6	252	3,253	-92.3%	296	-14.9%
NEW ENGLAND HUB PEAK DAIL	CE	2,236	2,728	-18.0%	1,499	49.2%
NEW YORK ETHANOL SWAP	EZ	1,510	1,250	20.8%	995	51.8%
NEW YORK HUB ZONE G PEAK	GN	3,463	3,107	11.5%	2,537	36.5%
NEW YORK HUB ZONE J PEAK	JN	2,210	2,244	-1.5%	1,531	44.4%
NGPL MID-CONTINENT	NL	26,844	41,343	-35.1%	27,036	-0.7%
NGPL MIDCONTINENT INDEX	IW	0	3,297	-100.0%	0	-
NGPL MIDCONTINENT SWING S	PX	0	80	-100.0%	0	-
NGPL TEX/OK	PD	28,980	51,863	-44.1%	31,155	-7.0%
NGPL TEXOK INDEX	OI	0	0	-	0	-
N ILLINOIS HUB DAILY	UD	294	178	65.2%	294	0.0%
N ILLINOIS HUB MTHLY	UM	120	360	-66.7%	140	-14.3%
NO 2 UP-DOWN SPREAD CALEN	UT	1,890	203	831.0%	1,960	-3.6%
NORTHERN NATURAL GAS DEMAR	PE	2,470	2,143	15.3%	2,540	-2.8%
NORTHERN NATURAL GAS VENTU	PF	3,012	5,633	-46.5%	3,412	-11.7%
NORTHERN ILLINOIS OFF-PEA	UO	0	480	-100.0%	0	-
NORTHWEST ROCKIES BASIS S	NR	53,078	88,092	-39.7%	55,234	-3.9%
N ROCKIES PIPE SWAP	XR	334	668	-50.0%	365	-8.5%
NY1% VS GC SPREAD SWAP	VR	4,807	6,511	-26.2%	5,264	-8.7%



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Commodity		Open Interest JUL 2017	Open Interest JUL 2016	% CHG	Open Interest JUN 2017	% CHG
<b>Energy Futures</b>						
NY 2.2% FUEL OIL (PLATTS	Y3	0	220	-100.0%	0	-
NY 3.0% FUEL OIL (PLATTS	H1	575	550	4.5%	1,125	-48.9%
NY HARBOR 1% FUEL OIL BAL	VK	0	0	-	0	-
NY HARBOR HEAT OIL SWP	MP	11,633	14,168	-17.9%	9,994	16.4%
NY HARBOR LOW SULPUR GAS 1000MBBL	NLS	910	2,651	-65.7%	1,135	-19.8%
NY HARBOR RESIDUAL FUEL 1	MM	3,390	5,374	-36.9%	4,160	-18.5%
NY HARBOR RESIDUAL FUEL C	ML	0	0	-	0	-
NYH NO 2 CRACK SPREAD CAL	HK	7,180	13,718	-47.7%	7,823	-8.2%
NY H OIL PLATTS VS NYMEX	YH	0	0	-	0	-
NYISO A	KA	0	2,560	-100.0%	0	-
NYISO A OFF-PEAK	KB	0	790	-100.0%	0	-
NYISO CAPACITY	LHV	333	114	192.1%	294	13.3%
NYISO CAPACITY	NNC	1,198	2,036	-41.2%	1,322	-9.4%
NYISO CAPACITY	NRS	1,583	2,549	-37.9%	1,538	2.9%
NYISO G	KG	0	254	-100.0%	0	-
NYISO G OFF-PEAK	KH	0	150	-100.0%	0	-
NYISO J	KJ	931	3,882	-76.0%	1,041	-10.6%
NYISO J OFF-PEAK	KK	180	722	-75.1%	210	-14.3%
NYISO ZONE A 5MW D AH O P	K4	122,910	253,031	-51.4%	110,790	10.9%
NYISO ZONE A 5MW D AH PK	K3	9,530	10,191	-6.5%	9,990	-4.6%
NYISO ZONE C 5MW D AH O P	A3	0	40,455	-100.0%	0	-
NYISO ZONE C 5MW D AH PK	Q5	0	2,147	-100.0%	110	-100.0%
NYISO ZONE G 5MW D AH O P	D2	502,461	393,340	27.7%	517,501	-2.9%
NYISO ZONE G 5MW D AH PK	T3	24,626	24,119	2.1%	26,012	-5.3%
NYISO ZONE J 5MW D AH O P	D4	279,421	132,437	111.0%	288,821	-3.3%
NYISO ZONE J 5MW D AH PK	D3	15,254	10,127	50.6%	15,474	-1.4%
NY JET FUEL (PLATTS) HEAT OIL SWAP	1U	0	0	-	0	-
NYMEX ALUMINUM FUTURES	AN	680	1,462	-53.5%	730	-6.8%
NYMEX ULSD VS NYMEX HO	UY	0	285	-100.0%	0	-
NY ULSD (ARGUS) VS HEATING OIL	7Y	1,207	1,213	-0.5%	1,265	-4.6%
ONEOK OKLAHOMA NG BASIS	8X	1,011	3,015	-66.5%	1,106	-8.6%
ONTARIO POWER SWAPS	OFD	960	3,312	-71.0%	960	0.0%
ONTARIO POWER SWAPS	OFM	19,770	92,063	-78.5%	24,010	-17.7%
ONTARIO POWER SWAPS	OPD	55	120	-54.2%	140	-60.7%
ONTARIO POWER SWAPS	OPM	530	3,410	-84.5%	630	-15.9%
PANHANDLE BASIS SWAP FUTU	PH	24,856	45,394	-45.2%	28,458	-12.7%
PANHANDLE INDEX SWAP FUTU	IV	0	1,922	-100.0%	0	-
PANHANDLE PIPE SWAP	XH	792	0	-	864	-8.3%
PERMIAN BASIS SWAP	PM	14,114	16,928	-16.6%	15,567	-9.3%
PETROCHEMICALS	22	38	15	153.3%	32	18.8%
PETROCHEMICALS	32	62	45	37.8%	90	-31.1%
PETROCHEMICALS	8I	3,831	1,577	142.9%	3,764	1.8%
PETROCHEMICALS	91	492	465	5.8%	437	12.6%
PETROCHEMICALS	HPE	0	24	-100.0%	0	-
PETROCHEMICALS	LPE	0	0	-	0	-
PETROCHEMICALS	MAC	0	0	-	0	-
PETROCHEMICALS	MAE	50	150	-66.7%	20	150.0%
PETROCHEMICALS	MAS	30	65	-53.8%	10	200.0%
PETROCHEMICALS	MBE	1,210	3,550	-65.9%	1,315	-8.0%
PETROCHEMICALS	MNB	3,142	3,325	-5.5%	3,309	-5.0%
PETROCHEMICALS	MPS	0	0	-	10	-100.0%
PETRO CRCKS & SPRDS ASIA	STI	32	0	-	32	0.0%
PETRO CRCKS & SPRDS ASIA	STR	0	0	-	0	-

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Commodity		Open Interest JUL 2017	Open Interest JUL 2016	% CHG	Open Interest JUN 2017	% CHG
<b>Energy Futures</b>						
PETRO CRCKS & SPRDS ASIA	STS	1,310	0	-	890	47.2%
PETRO CRCKS & SPRDS NA	CRB	293	592	-50.5%	206	42.2%
PETRO CRCKS & SPRDS NA	EXR	1,761	1,618	8.8%	2,162	-18.5%
PETRO CRCKS & SPRDS NA	FOC	1,978	3,900	-49.3%	2,518	-21.4%
PETRO CRCKS & SPRDS NA	GBB	985	30	3,183.3%	1,180	-16.5%
PETRO CRCKS & SPRDS NA	GCC	0	225	-100.0%	25	-100.0%
PETRO CRCKS & SPRDS NA	GCI	3,871	3,759	3.0%	4,281	-9.6%
PETRO CRCKS & SPRDS NA	GCM	42	38	10.5%	42	0.0%
PETRO CRCKS & SPRDS NA	GCU	18,140	26,244	-30.9%	19,145	-5.2%
PETRO CRCKS & SPRDS NA	GFC	0	104	-100.0%	0	-
PETRO CRCKS & SPRDS NA	HOB	17,297	14,840	16.6%	14,797	16.9%
PETRO CRCKS & SPRDS NA	KSD	75	0	-	75	0.0%
PETRO CRCKS & SPRDS NA	MFR	0	30	-100.0%	0	-
PETRO CRCKS & SPRDS NA	NFG	0	0	-	23	-100.0%
PETRO CRCKS & SPRDS NA	NYF	525	250	110.0%	225	133.3%
PETRO CRCKS & SPRDS NA	NYH	0	300	-100.0%	0	-
PETRO CRCKS & SPRDS NA	RBB	14,749	19,439	-24.1%	15,563	-5.2%
PETRO CRCKS & SPRDS NA	RVG	15,770	16,122	-2.2%	15,777	0.0%
PETRO CRCKS & SPRDS NA	SF3	9	15	-40.0%	11	-18.2%
PETRO CRK&SPRD EURO	1NB	2,931	3,915	-25.1%	3,299	-11.2%
PETRO CRK&SPRD EURO	1ND	0	0	-	0	-
PETRO CRK&SPRD EURO	43	224	45	397.8%	258	-13.2%
PETRO CRK&SPRD EURO	BFR	0	30	-100.0%	0	-
PETRO CRK&SPRD EURO	BOB	5,036	5,030	0.1%	5,381	-6.4%
PETRO CRK&SPRD EURO	EGN	18	0	-	0	-
PETRO CRK&SPRD EURO	EOB	39	83	-53.0%	49	-20.4%
PETRO CRK&SPRD EURO	EPN	607	505	20.2%	596	1.8%
PETRO CRK&SPRD EURO	EVC	6,011	4,626	29.9%	6,105	-1.5%
PETRO CRK&SPRD EURO	FBT	0	110	-100.0%	0	-
PETRO CRK&SPRD EURO	FVB	0	0	-	0	-
PETRO CRK&SPRD EURO	GCB	0	0	-	64	-100.0%
PETRO CRK&SPRD EURO	GOC	78	114	-31.6%	106	-26.4%
PETRO CRK&SPRD EURO	LSU	0	0	-	0	-
PETRO CRK&SPRD EURO	MGB	0	66	-100.0%	10	-100.0%
PETRO CRK&SPRD EURO	MUD	299	206	45.1%	390	-23.3%
PETRO CRK&SPRD EURO	NBB	5	23	-78.3%	20	-75.0%
PETRO CRK&SPRD EURO	NOB	1,416	1,106	28.0%	1,481	-4.4%
PETRO CRK&SPRD EURO	SFB	0	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	30	-100.0%	0	-
PETROLEUM PRODUCTS	D64	0	0	-	0	-
PETROLEUM PRODUCTS	D65	0	0	-	0	-
PETROLEUM PRODUCTS	EWB	0	0	-	0	-
PETROLEUM PRODUCTS	EWG	3,326	1,694	96.3%	4,316	-22.9%
PETROLEUM PRODUCTS	MBS	0	0	-	0	-
PETROLEUM PRODUCTS	MGS	0	0	-	0	-
PETROLEUM PRODUCTS	MHE	0	30	-100.0%	0	-
PETROLEUM PRODUCTS	MME	0	0	-	20	-100.0%
PETROLEUM PRODUCTS	MPE	0	0	-	100	-100.0%
PETROLEUM PRODUCTS	VU	233	755	-69.1%	262	-11.1%
PETROLEUM PRODUCTS ASIA	E6M	30	0	-	26	15.4%



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Commodity	Open Interest JUL 2017	Open Interest JUL 2016	% CHG	Open Interest JUN 2017	% CHG
<b>Energy Futures</b>					
PETROLEUM PRODUCTS ASIA MJN	2,398	1,995	20.2%	2,587	-7.3%
PETROLEUM PRODUCTS ASIA MSB	0	0	-	0	-
PETRO OUTRIGHT EURO 0A	0	0	-	0	-
PETRO OUTRIGHT EURO 0B	105	387	-72.9%	85	23.5%
PETRO OUTRIGHT EURO 0C	0	0	-	0	-
PETRO OUTRIGHT EURO 0D	6,814	7,495	-9.1%	6,585	3.5%
PETRO OUTRIGHT EURO 0E	265	503	-47.3%	394	-32.7%
PETRO OUTRIGHT EURO 0F	1,747	2,377	-26.5%	2,352	-25.7%
PETRO OUTRIGHT EURO 1T	48	0	-	53	-9.4%
PETRO OUTRIGHT EURO 33	72	135	-46.7%	94	-23.4%
PETRO OUTRIGHT EURO 5L	0	597	-100.0%	80	-100.0%
PETRO OUTRIGHT EURO 63	35	130	-73.1%	0	-
PETRO OUTRIGHT EURO 6L	0	0	-	0	-
PETRO OUTRIGHT EURO 7I	203	506	-59.9%	100	103.0%
PETRO OUTRIGHT EURO 7P	0	0	-	0	-
PETRO OUTRIGHT EURO 7R	311	401	-22.4%	463	-32.8%
PETRO OUTRIGHT EURO 88	5	0	-	0	-
PETRO OUTRIGHT EURO CBB	0	0	-	0	-
PETRO OUTRIGHT EURO CGB	0	0	-	0	-
PETRO OUTRIGHT EURO CPB	44	15	193.3%	118	-62.7%
PETRO OUTRIGHT EURO EFF	0	0	-	10	-100.0%
PETRO OUTRIGHT EURO EFM	59	570	-89.6%	43	37.2%
PETRO OUTRIGHT EURO ENS	85	649	-86.9%	95	-10.5%
PETRO OUTRIGHT EURO ESB	63	0	-	0	-
PETRO OUTRIGHT EURO EWN	1,108	565	96.1%	1,228	-9.8%
PETRO OUTRIGHT EURO FBD	0	0	-	0	-
PETRO OUTRIGHT EURO MBB	100	0	-	230	-56.5%
PETRO OUTRIGHT EURO MBN	3,711	3,911	-5.1%	3,342	11.0%
PETRO OUTRIGHT EURO SMU	0	40	-100.0%	40	-100.0%
PETRO OUTRIGHT EURO T0	463	318	45.6%	473	-2.1%
PETRO OUTRIGHT EURO ULB	0	400	-100.0%	0	-
PETRO OUTRIGHT EURO V0	150	150	0.0%	235	-36.2%
PETRO OUTRIGHT EURO W0	0	0	-	0	-
PETRO OUTRIGHT EURO X0	0	0	-	0	-
PETRO OUTRIGHT EURO Y0	0	0	-	0	-
PETRO OUTRIGHT NA FCB	496	19	2,510.5%	96	416.7%
PETRO OUTRIGHT NA FOB	0	0	-	0	-
PETRO OUTRIGHT NA FOM	0	0	-	10	-100.0%
PETRO OUTRIGHT NA GBA	0	0	-	0	-
PETRO OUTRIGHT NA GUD	0	0	-	0	-
PETRO OUTRIGHT NA JE	420	240	75.0%	420	0.0%
PETRO OUTRIGHT NA JET	3,369	4,765	-29.3%	3,201	5.2%
PETRO OUTRIGHT NA JTB	550	0	-	0	-
PETRO OUTRIGHT NA MBL	128	137	-6.6%	158	-19.0%
PETRO OUTRIGHT NA MEN	290	791	-63.3%	371	-21.8%
PETRO OUTRIGHT NA MEO	6,156	11,801	-47.8%	8,953	-31.2%
PETRO OUTRIGHT NA MFD	74	419	-82.3%	62	19.4%
PETRO OUTRIGHT NA MMF	95	227	-58.1%	122	-22.1%
PETRO OUTRIGHT NA NYT	0	0	-	0	-
PETRO OUTRIGHT NA XER	0	0	-	0	-
PJM AD HUB 5MW REAL TIME V3	537,818	1,057,994	-49.2%	580,202	-7.3%
PJM AD HUB 5MW REAL TIME Z9	28,771	55,624	-48.3%	30,216	-4.8%
PJM AECO DA OFF-PEAK X1	0	38,808	-100.0%	0	-

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	Commodity	Open Interest JUL 2017	Open Interest JUL 2016	% CHG	Open Interest JUN 2017	% CHG
<b>Energy Futures</b>						
PJM AECO DA PEAK	Y1	0	2,097	-100.0%	0	-
PJM APS ZONE DA OFF-PEAK	W4	0	7,155	-100.0%	0	-
PJM APS ZONE DA PEAK	S4	0	381	-100.0%	0	-
PJM ATSI ELEC	MOD	67,130	21,560	211.4%	74,490	-9.9%
PJM ATSI ELEC	MPD	3,590	1,165	208.2%	4,030	-10.9%
PJM BGE DA OFF-PEAK	R3	30,920	37,072	-16.6%	32,760	-5.6%
PJM BGE DA PEAK	E3	1,675	2,018	-17.0%	1,785	-6.2%
PJM COMED 5MW D AH O PK	D9	35,405	234,025	-84.9%	37,245	-4.9%
PJM COMED 5MW D AH PK	D8	1,905	13,880	-86.3%	2,015	-5.5%
PJM DAILY	JD	946	900	5.1%	1,054	-10.2%
PJM DAYTON DA OFF-PEAK	R7	172,428	144,785	19.1%	181,828	-5.2%
PJM DAYTON DA PEAK	D7	13,743	24,290	-43.4%	14,778	-7.0%
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	43,120	-100.0%	0	-
PJM JCPL DA PEAK	J2	0	2,330	-100.0%	0	-
PJM NI HUB 5MW REAL TIME	B3	46,126	39,788	15.9%	50,341	-8.4%
PJM NI HUB 5MW REAL TIME	B6	1,147,848	1,020,968	12.4%	1,213,032	-5.4%
PJM NILL DA OFF-PEAK	L3	1,012,349	601,370	68.3%	1,114,621	-9.2%
PJM NILL DA PEAK	N3	48,012	32,407	48.2%	53,072	-9.5%
PJM OFF-PEAK LMP SWAP FUT	JP	748	2,560	-70.8%	790	-5.3%
PJM PECO ZONE5MW PEAK CAL MO DAY AH	4N	0	0	-	0	-
PJM PEPCO DA OFF-PEAK	Q8	0	0	-	0	-
PJM PPL DA OFF-PEAK	F5	0	31,005	-100.0%	0	-
PJM PPL DA PEAK	L5	0	1,651	-100.0%	0	-
PJM PSEG DA OFF-PEAK	W6	109,640	138,560	-20.9%	117,000	-6.3%
PJM PSEG DA PEAK	L6	4,660	5,100	-8.6%	5,100	-8.6%
PJM WES HUB PEAK LMP 50 M	4S	0	0	-	0	-
PJM WESTH DA OFF-PEAK	E4	629,502	1,121,692	-43.9%	695,302	-9.5%
PJM WESTHDA PEAK	J4	35,248	60,595	-41.8%	41,711	-15.5%
PJM WESTH RT OFF-PEAK	N9	2,506,248	3,156,559	-20.6%	2,630,382	-4.7%
PJM WESTH RT PEAK	L1	141,417	178,855	-20.9%	149,835	-5.6%
PLASTICS	PGP	1,392	1,603	-13.2%	1,441	-3.4%
PREMIUM UNLND 10P FOB MED	3G	67	284	-76.4%	115	-41.7%
PREMIUM UNLEAD 10PPM FOB	8G	32	17	88.2%	20	60.0%
PREM UNL GAS 10PPM RDAM FOB BALMO	7N	0	0	-	0	-
PREM UNL GAS 10PPM RDAM FOB SWAP	7L	0	70	-100.0%	5	-100.0%
PROPANE NON-LDH MB (OPIS) BALMO SWP	1S	100	225	-55.6%	311	-67.8%
PROPANE NON-LDH MT. BEL (OPIS) SWP	1R	23,482	28,106	-16.5%	25,383	-7.5%
RBOB CALENDAR SWAP	RL	12,558	14,622	-14.1%	10,821	16.1%
RBOB CRACK SPREAD	RM	1,610	2,528	-36.3%	1,648	-2.3%
RBOB CRACK SPREAD BALMO S	1E	0	0	-	0	-
RBOB GASOLINE BALMO CLNDR	1D	785	785	0.0%	619	26.8%
RBOB PHY	RBL	0	0	0.0%	0	0.0%
RBOB (PLATTS) CAL SWAP	RY	0	0	-	0	-
RBOB SPREAD (PLATTS) SWAP	RI	16	65	-75.4%	19	-15.8%
RBOB UP-DOWN CALENDAR SWA	RV	0	0	-	0	-
RBOB VS HEATING OIL SWAP	RH	3,684	2,741	34.4%	2,848	29.4%
ROCKIES KERN OPAL - NW IN	IR	0	798	-100.0%	0	-
SAN JUAN BASIS SWAP	NJ	26,340	38,929	-32.3%	28,440	-7.4%
SAN JUAN PIPE SWAP	XX	0	0	-	0	-
SINGAPORE 180CST BALMO	BS	50	15	233.3%	60	-16.7%
SINGAPORE 380CST BALMO	BT	146	125	16.8%	116	25.9%

## NYMEX/COMEX Exchange Open Interest Report - Monthly

Commodity		Open Interest JUL 2017	Open Interest JUL 2016	% CHG	Open Interest JUN 2017	% CHG
<b>Energy Futures</b>						
SINGAPORE 380CST FUEL OIL	SE	11,217	8,572	30.9%	12,636	-11.2%
SINGAPORE FUEL 180CST CAL	UA	1,801	1,816	-0.8%	1,831	-1.6%
SINGAPORE FUEL OIL SPREAD	SD	1,516	1,792	-15.4%	1,596	-5.0%
SINGAPORE GASOIL	MTB	270	166	62.7%	30	800.0%
SINGAPORE GASOIL	MTS	9,927	6,001	65.4%	10,002	-0.7%
SINGAPORE GASOIL	STL	0	0	-	0	-
SINGAPORE GASOIL	STZ	700	180	288.9%	700	0.0%
SINGAPORE GASOIL CALENDAR	MSG	312	0	-	379	-17.7%
SINGAPORE GASOIL SWAP	SG	18,477	13,255	39.4%	17,975	2.8%
SINGAPORE GASOIL VS ICE	GA	15,594	8,031	94.2%	20,035	-22.2%
SINGAPORE JET KERO BALMO	BX	100	0	-	24	316.7%
SINGAPORE JET KERO GASOIL	RK	5,515	2,170	154.1%	6,090	-9.4%
SINGAPORE JET KEROSENE SW	KS	3,568	1,676	112.9%	2,488	43.4%
SINGAPORE JET KERO VS. GASOIL BALMO	ZO	0	0	-	0	-
SINGAPORE MOGAS 92 UNLEADED BALMO	1P	57	0	-	0	-
SINGAPORE MOGAS 92 UNLEADED SWP	1N	11,269	11,132	1.2%	13,320	-15.4%
SINGAPORE NAPHTHA BALMO	KU	0	0	-	0	-
SINGAPORE NAPHTHA SWAP	SP	0	0	-	0	-
SING FUEL	MSD	0	5	-100.0%	0	-
SOCAL BASIS SWAP	NS	0	0	-	0	-
SOCAL PIPE SWAP	XN	0	3,360	-100.0%	0	-
SONAT BASIS SWAP FUTURE	SZ	306	2,600	-88.2%	368	-16.8%
SOUTHERN NAT LA NAT GAS	M8	0	0	-	0	-
SOUTH STAR TEX OKLHM KNS	8Z	200	1,736	-88.5%	216	-7.4%
Sumas Basis Swap	NK	8,299	11,230	-26.1%	8,754	-5.2%
SUMAS NAT GAS PLATTS FIXED PRICE	DVS	306	1,251	-75.5%	368	-16.8%
TC2 ROTTERDAM TO USAC 37K	TM	0	0	-	0	-
TC5 RAS TANURA TO YOKOHAM	TH	0	0	-	0	-
TCO BASIS SWAP	TC	19,818	31,606	-37.3%	21,082	-6.0%
TCO NG INDEX SWAP	Q1	0	1,472	-100.0%	0	-
TENN 800 LEG NAT GAS INDE	L4	0	248	-100.0%	0	-
TENNESSEE 500 LEG BASIS S	NM	184	1,519	-87.9%	246	-25.2%
TENNESSEE 800 LEG NG BASI	6Z	184	796	-76.9%	246	-25.2%
TENNESSEE ZONE 0 BASIS SW	NQ	788	2,180	-63.9%	850	-7.3%
Tetco ELA Basis	TE	0	0	-	0	-
TETCO M-3 INDEX	IX	3,444	10,074	-65.8%	4,284	-19.6%
Tetco STX Basis	TX	1,189	3,018	-60.6%	1,282	-7.3%
TEXAS EASTERN ZONE M-3 BA	NX	13,030	25,895	-49.7%	15,199	-14.3%
TEXAS GAS ZONE1 NG BASIS	9F	9,176	14,713	-37.6%	9,864	-7.0%
TRANSCO ZONE 1 NG BASIS	8E	0	0	-	0	-
Transco Zone 3 Basis	CZ	5,270	7,852	-32.9%	5,611	-6.1%
TRANSCO ZONE 3 NG INDEX S	Y6	4,182	0	-	5,202	-19.6%
TRANSCO ZONE4 BASIS SWAP	TR	15,535	30,394	-48.9%	18,370	-15.4%
TRANSCO ZONE 4 NAT GAS IN	B2	0	961	-100.0%	0	-
TRANSCO ZONE 6 BASIS SWAP	NZ	5,073	5,223	-2.9%	5,879	-13.7%
TRANSCO ZONE 6 INDEX	IT	984	3,294	-70.1%	1,224	-19.6%
TRANSCO ZONE 6 PIPE SWAP	XZ4	0	0	-	0	-
UCM FUT	UCM	174	111	56.8%	152	14.5%
ULSD 10PPM CIF MED BALMO	X7	0	0	-	0	-
ULSD 10PPM CIF MED SWAP	Z6	0	0	-	0	-
ULSD 10PPM CIF MED VS ICE	Z7	60	98	-38.8%	66	-9.1%
ULSD 10PPM CIF NW BALMO S	B1	6	0	-	0	-
ULSD 10PPM CIF VS ICE GAS	7V	0	0	-	0	-

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	Commodity	Open Interest JUL 2017	Open Interest JUL 2016	% CHG	Open Interest JUN 2017	% CHG
Energy Futures						
ULSD UP-DOWN BALMO SWP	1L	2,525	9,602	-73.7%	1,690	49.4%
UP DOWN GC ULSD VS NMX HO	LT	52,234	65,747	-20.6%	45,726	14.2%
USGC UNL 87 CRACK SPREAD	RU	0	0	-	0	-
VENTURA NAT GAS PLATTS FIXED PRICE	DVA	0	0	-	0	-
WAHA BASIS	NW	7,779	17,994	-56.8%	8,699	-10.6%
WAHA INDEX SWAP FUTURE	IY	0	3,804	-100.0%	0	-
WESTERN RAIL DELIVERY PRB	QP	525	3,065	-82.9%	645	-18.6%
WTI-BRENT BULLET SWAP	BY	904	0	-	904	0.0%
WTI-BRENT CALENDAR SWAP	BK	39,124	71,060	-44.9%	37,091	5.5%
WTI CALENDAR	CS	122,858	122,346	0.4%	122,965	-0.1%
WTS (ARGUS) VS WTI SWAP	FF	49,383	23,260	112.3%	49,875	-1.0%
WTS (ARGUS) VS WTI TRD MT	FH	2,084	2,840	-26.6%	1,280	62.8%
Energy Options						
12 MO GASOIL CAL SWAP SPR	GXZ	230	0	-	230	0.0%
1 MO GASOIL CAL SWAP SPR	GXA	0	100	-100.0%	0	-
APPALACHIAN COAL	6K	0	0	-	0	-
BRENT CALENDAR SWAP	BA	10,460	34,332	-69.5%	11,706	-10.6%
BRENT OIL LAST DAY	BE	9,514	9,509	0.1%	2,735	247.9%
BRENT OIL LAST DAY	BZO	56,706	42,510	33.4%	61,909	-8.4%
BRENT OIL LAST DAY	OS	21,324	38,414	-44.5%	21,324	0.0%
COAL API2 INDEX	CLA	5,443	25,164	-78.4%	4,972	9.5%
COAL API2 INDEX	CQA	20	34,625	-99.9%	20	0.0%
COAL API2 INDEX	MTC	0	150	-100.0%	0	-
COAL API4 INDEX	RLA	0	100	-100.0%	0	-
COAL API4 INDEX	RQA	0	120	-100.0%	0	-
COAL SWAP	CPF	0	425	-100.0%	0	-
COAL SWAP	RPF	335	947	-64.6%	335	0.0%
CRUDE OIL 1MO	WA	665,923	698,671	-4.7%	659,030	1.0%
CRUDE OIL APO	AO	293,611	276,861	6.0%	285,317	2.9%
CRUDE OIL CALNDR STRIP	6F	0	0	-	0	-
CRUDE OIL OUTRIGHTS	AH	150	150	0.0%	150	0.0%
CRUDE OIL OUTRIGHTS	DBP	0	1,260	-100.0%	0	-
CRUDE OIL PHY	CD	0	0	0.0%	0	0.0%
CRUDE OIL PHY	LC	57,096	76,399	-25.3%	67,673	-15.6%
CRUDE OIL PHY	LO	2,996,573	2,890,050	3.7%	2,913,760	2.8%
CRUDE OIL PHY	LO1	4,637	1,755	164.2%	3,027	53.2%
CRUDE OIL PHY	LO2	766	77	894.8%	734	4.4%
CRUDE OIL PHY	LO3	15	0	-	123	-87.8%
CRUDE OIL PHY	LO4	10	0	-	0	-
CRUDE OIL PHY	LO5	0	0	0.0%	0	0.0%
DAILY CRUDE OIL	DNM	0	0	-	0	-
ELEC FINSETTLED	PML	0	52	-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	300	0	0.0%	300	0.0%
ETHANOL SWAP	CVR	10,346	12,201	-15.2%	10,297	0.5%
ETHANOL SWAP	GVR	2,204	2,980	-26.0%	2,443	-9.8%
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	60	-100.0%	0	-
GASOIL CRACK SPREAD AVG PRICE OPTIONS	3U	0	0	-	0	-

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	Commodity	Open Interest JUL 2017	Open Interest JUL 2016	% CHG	Open Interest JUN 2017	% CHG
<b>Energy Options</b>						
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	0	-	0	-
HEATING OIL PHY	LB	1,040	980	6.1%	1,145	-9.2%
HEATING OIL PHY	OH	57,014	67,450	-15.5%	61,482	-7.3%
HENRY HUB FINANCIAL LAST	E7	8,706	11,207	-22.3%	9,549	-8.8%
HO 1 MONTH CLNDR OPTIONS	FA	0	600	-100.0%	0	-
HUSTN SHIP CHNL PIPE SWP	PK	0	0	-	0	-
LLS CRUDE OIL	WJO	7,375	11,350	-35.0%	8,850	-16.7%
MCCLOSKEY ARA ARGS COAL	MTO	1,305	900	45.0%	1,400	-6.8%
MCCLOSKEY RCH BAY COAL	MFO	0	1,260	-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	126,875	6,750	1,779.6%	124,650	1.8%
NATURAL GAS 2 M CSO FIN	G2	2,150	0	-	2,150	0.0%
NATURAL GAS 3 M CSO FIN	G3	40,600	53,415	-24.0%	40,075	1.3%
NATURAL GAS 5 M CSO FIN	G5	0	0	-	0	-
NATURAL GAS 6 M CSO FIN	G6	2,950	0	-	700	321.4%
NATURAL GAS OPTION ON CALENDAR STRP	6J	8,238	15,786	-47.8%	7,578	8.7%
NATURAL GAS PHY	KD	0	0	0.0%	0	0.0%
NATURAL GAS PHY	LN	2,209,555	2,818,476	-21.6%	2,397,867	-7.9%
NATURAL GAS PHY	ON	100,057	151,013	-33.7%	105,236	-4.9%
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	5,580	6,750	-17.3%	5,220	6.9%
NY HARBOR HEAT OIL SWP	AT	25,577	43,842	-41.7%	28,284	-9.6%
NYISO ZONE G 5MW PEAK OPTIONS	9U	5,880	420	1,300.0%	10,710	-45.1%
NYMEX EUROPEAN GASOIL APO	F7	0	0	0.0%	0	-
NYMEX EUROPEAN GASOIL OPT	F8	0	0	-	0	-
PANHANDLE PIPE SWAP	PU	2,640	0	-	2,880	-8.3%
PETROCHEMICALS	4H	2,781	7,341	-62.1%	2,608	6.6%
PETROCHEMICALS	4I	0	0	-	0	-
PETROCHEMICALS	4J	3,135	4,305	-27.2%	3,730	-16.0%
PETROCHEMICALS	4K	200	0	-	0	-
PETROCHEMICALS	CPR	18	495	-96.4%	18	0.0%
PETRO OUTRIGHT EURO	8H	300	0	-	300	0.0%
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	3,180	384	728.1%	2,930	8.5%
PJM WES HUB PEAK CAL MTH	JOA	0	9,840	-100.0%	0	-
PJM WES HUB PEAK LMP 50MW	PMA	15,958	1,910	735.5%	16,590	-3.8%
RBOB 1MO CAL SPD OPTIONS	ZA	1,908	0	-	550	246.9%
RBOB CALENDAR SWAP	RA	1,539	3,251	-52.7%	1,560	-1.3%
RBOB PHY	OB	26,763	30,465	-12.2%	26,759	0.0%
RBOB PHY	RF	25	0	-	25	0.0%
ROTTERDAM 3.5%FUEL OIL CL	Q6	240	390	-38.5%	300	-20.0%
SAN JUAN PIPE SWAP	PJ	4,640	6,300	-26.3%	4,548	2.0%
SHORT TERM	U11	0	0	-	0	-
SHORT TERM	U12	0	0	-	0	-
SHORT TERM	U13	0	0	-	0	-

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	Commodity	Open Interest JUL 2017	Open Interest JUL 2016	% CHG	Open Interest JUN 2017	% CHG
<b>Energy Options</b>						
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	250	300	-16.7%	0	-
SHORT TERM NATURAL GAS	U02	0	0	-	0	-
SHORT TERM NATURAL GAS	U03	0	0	-	750	-100.0%
SHORT TERM NATURAL GAS	U04	0	0	-	0	-
SHORT TERM NATURAL GAS	U05	0	0	-	300	-100.0%
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	-
SHORT TERM NATURAL GAS	U29	0	0	0.0%	0	0.0%
SHORT TERM NATURAL GAS	U30	0	0	-	0	0.0%
SHORT TERM NATURAL GAS	U31	0	0	-	0	-
SINGAPORE FUEL OIL 180 CS	C5	0	0	-	0	-
SINGAPORE GASOIL CALENDAR	M2	150	300	-50.0%	175	-14.3%
SINGAPORE JET FUEL CALEND	N2	240	900	-73.3%	370	-35.1%
SOCAL PIPE SWAP	ZN	0	6,000	-100.0%	0	-
WTI 12 MONTH CALENDAR OPT	WZ	0	0	-	0	-
WTI-BRENT BULLET SWAP	BV	141,670	17,450	711.9%	144,280	-1.8%
WTI CRUDE OIL 1 M CSO FI	7A	310,718	372,295	-16.5%	342,592	-9.3%
<b>Metals Futures</b>						
COMEX GOLD	GC	438,762	572,243	-23.3%	461,608	-4.9%
NYMEX HOT ROLLED STEEL	HR	12,328	18,028	-31.6%	13,205	-6.6%
NYMEX PLATINUM	PL	72,357	78,954	-8.4%	71,239	1.6%
PALLADIUM	PA	34,726	28,178	23.2%	34,584	0.4%
URANIUM	UX	4,412	5,551	-20.5%	4,988	-11.5%
COMEX SILVER	SI	208,072	224,453	-7.3%	201,430	3.3%
COMEX E-Mini GOLD	QO	512	2,393	-78.6%	637	-19.6%
COMEX E-Mini SILVER	QI	116	133	-12.8%	90	28.9%
COMEX COPPER	HG	316,003	184,521	71.3%	265,240	19.1%
COMEX MINY COPPER	QC	299	65	360.0%	242	23.6%
Aluminium MW Trans Prem Platts	AUP	28,544	31,613	-9.7%	31,724	-10.0%
ALUMINUM	A38	0	50	-100.0%	10	-100.0%
ALUMINUM	AEP	13,539	6,387	112.0%	14,092	-3.9%
ALUMINUM	ALA	250	0	-	10	2,400.0%



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	Commodity	Open Interest JUL 2017	Open Interest JUL 2016	% CHG	Open Interest JUN 2017	% CHG
<b>Metals Futures</b>						
ALUMINUM	ALI	363	291	24.7%	292	24.3%
ALUMINUM	EDP	7,556	1,395	441.6%	7,942	-4.9%
ALUMINUM	MJP	6,720	2,545	164.0%	5,122	31.2%
COPPER	HGS	767	4,134	-81.4%	923	-16.9%
E-MICRO GOLD	MGC	4,502	2,369	90.0%	5,054	-10.9%
FERROUS PRODUCTS	BUS	250	360	-30.6%	255	-2.0%
FERROUS PRODUCTS	SSF	0	0	-	0	-
GOLD	GPS	0	0	-	0	-
Gold Kilo	GCK	10	176	-94.3%	16	-37.5%
IRON ORE 58 CHINA TSI FUTURES	TIC	0	0	-	0	-
IRON ORE 62 CHINA PLATTS FUTURES	PIO	5,652	1,130	400.2%	1,752	222.6%
IRON ORE 62 CHINA TSI FUTURES	TIO	18,505	22,154	-16.5%	17,669	4.7%
LNDN ZINC	ZNC	5	35	-85.7%	50	-90.0%
METALS	LED	0	0	-	0	-
SILVER	SIL	1,150	848	35.6%	885	29.9%
<b>Metals Options</b>						
COMEX COPPER	HX	5,177	5,711	-9.4%	2,819	83.6%
COMEX GOLD	OG	976,100	1,045,922	-6.7%	962,264	1.4%
COMEX SILVER	SO	115,501	131,943	-12.5%	102,991	12.1%
COPPER	H4E	0	0	-	0	-
GOLD	OG1	1,467	177	728.8%	1,888	-22.3%
GOLD	OG2	627	0	-	473	32.6%
GOLD	OG3	45	0	-	201	-77.6%
GOLD	OG4	0	0	-	0	-
GOLD	OG5	0	0	0.0%	0	0.0%
IRON ORE 62 CHINA TSI CALL OPTION	ICT	8,301	15,126	-45.1%	10,241	-18.9%
IRON ORE 62 CHINA TSI PUT OPTION	ICT	4,950	18,760	-73.6%	4,590	7.8%
NYMEX PLATINUM	PO	3,146	4,327	-27.3%	2,839	10.8%
PALLADIUM	PAO	7,955	6,946	14.5%	6,461	23.1%
SILVER	SO1	14	0	-	0	-
SILVER	SO2	0	0	-	0	-
SILVER	SO3	0	0	-	0	-
SILVER	SO4	0	0	-	0	-
SILVER	SO5	0	0	-	0	0.0%
<b>TOTAL FUTURES GROUP</b>						
Commodities and Alternative Investments Futures		4	81	-95.1%	5	-20.0%
Energy Futures		18,283,873	19,529,667	-6.4%	18,862,986	-3.1%
Metals Futures		1,175,400	1,188,006	-1.1%	1,139,059	3.2%
<b>TOTAL FUTURES</b>		<b>19,459,277</b>	<b>20,717,754</b>	<b>-6.1%</b>	<b>20,002,050</b>	<b>-2.7%</b>



## NYMEX/COMEX Exchange Open Interest Report - Monthly

Commodity	Open Interest JUL 2017	Open Interest JUL 2016	% CHG	Open Interest JUN 2017	% CHG
<b>TOTAL OPTIONS GROUP</b>					
Energy Options	7,255,020	7,799,913	-7.0%	7,402,346	-2.0%
Metals Options	1,123,283	1,228,912	-8.6%	1,094,767	2.6%
<b>TOTAL OPTIONS</b>	<b>8,378,303</b>	<b>9,028,825</b>	<b>-7.2%</b>	<b>8,497,113</b>	<b>-1.4%</b>
<b>TOTAL COMBINED</b>					
Commodities and Alternative Investments	4	81	-95.1%	5	-20.0%
Energy	25,538,893	27,329,580	-6.6%	26,265,332	-2.8%
Metals	2,298,683	2,416,918	-4.9%	2,233,826	2.9%
<b>GRAND TOTAL</b>	<b>27,837,580</b>	<b>29,746,579</b>	<b>-6.4%</b>	<b>28,499,163</b>	<b>-2.3%</b>