



## NYMEX/COMEX Exchange Open Interest Report - Monthly

Commodity	Open Interest APR 2017	Open Interest APR 2016	% CHG	Open Interest MAR 2017	% CHG
<b>Commodities and Alternative Investments Futures</b>					
COCOA TAS	0	33	-100.0%	7	-100.0%
COFFEE	20	2	900.0%	0	-
COTTON	2	13	-84.6%	4	-50.0%
SUGAR 11	1	12	-91.7%	1	0.0%
<b>Energy Futures</b>					
CRUDE OIL PHY	2,208,206	1,762,348	25.3%	2,240,224	-1.4%
CRUDE OIL	3,931	5,338	-26.4%	3,932	0.0%
MINY WTI CRUDE OIL	4,150	4,715	-12.0%	4,375	-5.1%
BRENT OIL LAST DAY	133,694	159,379	-16.1%	131,625	1.6%
HEATING OIL PHY	419,910	388,421	8.1%	421,066	-0.3%
HTG OIL	229	3,362	-93.2%	200	14.5%
MINY HTG OIL	1	2	-50.0%	0	-
RBOB PHY	404,800	387,773	4.4%	389,241	4.0%
MINY RBOB GAS	0	0	-	0	-
NATURAL GAS	122,799	104,005	18.1%	124,269	-1.2%
LTD NAT GAS	372,418	270,780	37.5%	377,909	-1.5%
MINY NATURAL GAS	1,364	2,765	-50.7%	1,308	4.3%
PJM MONTHLY	3,092	10,748	-71.2%	3,324	-7.0%
NATURAL GAS PHY	1,493,066	1,100,826	35.6%	1,383,409	7.9%
RBOB GAS	1,224	2,561	-52.2%	1,174	4.3%
3.5% FUEL OIL CID MED SWA	607	1,117	-45.7%	732	-17.1%
3.5% FUEL OIL CIF BALMO S	50	20	150.0%	5	900.0%
AEP-DAYTON HUB DAILY	150	282	-46.8%	212	-29.2%
AEP-DAYTON HUB MTHLY	630	1,541	-59.1%	700	-10.0%
AEP-DAYTON HUB OFF-PEAK M	450	1,275	-64.7%	500	-10.0%
ALGON CITY GATES NAT GAS	1,712	1,712	0.0%	1,960	-12.7%
ALGONQUIN CITYGATES BASIS	1,620	2,259	-28.3%	1,800	-10.0%
ANR LOUISIANA BASIS SWAP	0	736	-100.0%	0	-
ANR OKLAHOMA	3,052	6,293	-51.5%	3,262	-6.4%
APPALACHIAN COAL (PHY)	0	60	-100.0%	0	-
ARGUS LLS VS. WTI (ARG) T	12,872	12,675	1.6%	11,737	9.7%
ARGUS PROPAN FAR EST INDE	1,677	1,842	-9.0%	1,747	-4.0%
ARGUS PROPAN(SAUDI ARAMCO	812	903	-10.1%	781	4.0%
AUSTRIALIAN COKE COAL	806	820	-1.7%	896	-10.0%
BRENT BALMO SWAP	113	0	-	0	-
BRENT CALENDAR SWAP	16,387	16,964	-3.4%	17,106	-4.2%
BRENT CFD SWAP	0	0	-	0	-
BRENT FINANCIAL FUTURES	1,131	7,023	-83.9%	1,101	2.7%
BRENT FINANCIAL FUTURES	0	0	-	0	-
BRENT FINANCIAL FUTURES	0	146	-100.0%	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	5,150	0	-	6,450	-20.2%
CAISO SP15 EZGNHUB5 PEAK	1,850	0	-	1,250	48.0%
CANADIAN LIGHT SWEET OIL	6,564	3,835	71.2%	7,480	-12.2%
CENTERPOINT BASIS SWAP	15,644	21,836	-28.4%	16,400	-4.6%
CENTERPOINT EAST INDEX	0	0	-	0	-
CENTER POINT NAT GAS FIXED PRICE	0	0	-	0	-
CHICAGO ETHANOL SWAP	54,394	46,546	16.9%	56,875	-4.4%
CHICAGO ULSD (PLATTS) SWA	0	27	-100.0%	0	-

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<b>Energy Futures</b>						
CHICAGO ULSD PL VS HO SPR	5C	1,512	2,227	-32.1%	1,519	-0.5%
CHICAGO UNL GAS PL VS RBO	3C	27	1,413	-98.1%	30	-10.0%
CIG BASIS	CI	40,111	42,010	-4.5%	42,327	-5.2%
CIG ROCKIES NG INDEX SWA	Z8	720	0	-	720	0.0%
CINERGY HUB OFF-PEAK MONT	EJ	128	608	-78.9%	132	-3.0%
CINERGY HUB PEAK MONTH	EM	288	414	-30.4%	288	0.0%
CIN HUB 5MW D AH O PK	K2	362,840	350,680	3.5%	337,000	7.7%
CIN HUB 5MW D AH PK	H5	18,395	22,080	-16.7%	16,931	8.6%
CIN HUB 5MW REAL TIME O P	H4	583,048	950,600	-38.7%	622,688	-6.4%
CIN HUB 5MW REAL TIME PK	H3	48,821	51,571	-5.3%	48,540	0.6%
COAL SWAP	ACM	345	390	-11.5%	275	25.5%
COAL SWAP	SSI	0	84	-100.0%	5	-100.0%
COLUMB GULF MAINLINE NG B	5Z	14,152	37,926	-62.7%	15,350	-7.8%
COLUMBIA GULF MAIN NAT G	L2	0	2,208	-100.0%	0	-
COLUMBIA GULF NAT GAS FIXED PRICE	DCE	0	0	-	0	-
COLUMBIA GULF ONSHORE	GL	11,515	24,627	-53.2%	12,925	-10.9%
CONWAY NATURAL GASOLINE (OPIS) SWAP	8L	905	695	30.2%	933	-3.0%
CONWAY NORMAL BUTANE (OPIS) SWAP	8M	3,057	405	654.8%	2,410	26.8%
CONWAY PROPANE 5 DECIMALS SWAP	8K	13,750	17,524	-21.5%	14,340	-4.1%
CRUDE OIL	CHB	0	0	-	0	-
CRUDE OIL	LPS	18,700	20,329	-8.0%	19,250	-2.9%
CRUDE OIL OUTRIGHTS	37	0	0	-	0	-
CRUDE OIL OUTRIGHTS	42	1,892	44	4,200.0%	60	3,053.3%
CRUDE OIL OUTRIGHTS	CC5	30	0	-	90	-66.7%
CRUDE OIL OUTRIGHTS	CSN	0	0	-	30	-100.0%
CRUDE OIL OUTRIGHTS	CSW	1,035	0	-	1,315	-21.3%
CRUDE OIL OUTRIGHTS	DBL	100	50	100.0%	0	-
CRUDE OIL OUTRIGHTS	FE	0	0	-	0	-
CRUDE OIL OUTRIGHTS	GSW	30	0	-	70	-57.1%
CRUDE OIL OUTRIGHTS	HTT	25,930	2,192	1,082.9%	20,070	29.2%
CRUDE OIL OUTRIGHTS	LSW	30	0	-	0	-
CRUDE OIL OUTRIGHTS	SSW	105	0	-	15	600.0%
CRUDE OIL OUTRIGHTS	WCC	8,983	14,495	-38.0%	11,121	-19.2%
CRUDE OIL OUTRIGHTS	WCW	3,070	0	-	120	2,458.3%
CRUDE OIL PHY	CLL	0	0	0.0%	0	0.0%
CRUDE OIL SPRDS	38	0	0	-	0	-
CRUDE OIL SPRDS	WTT	28,612	5,768	396.0%	24,920	14.8%
CRUDE OIL TRADE AT MARKER SINGAPORE	CLS	0	0	0.0%	0	0.0%
DAILY PJM	AOR	15,264	17,640	-13.5%	10,176	50.0%
DAILY PJM	IDO	15,312	16,640	-8.0%	14,504	5.6%
DAILY PJM	NOC	20,304	17,280	17.5%	14,400	41.0%
DAILY PJM	PAP	1,755	780	125.0%	1,635	7.3%
DAILY PJM	PEO	13,200	15,600	-15.4%	13,960	-5.4%
DAILY PJM	PNO	100,624	30,200	233.2%	95,656	5.2%
DAILY PJM	PNP	4,786	770	521.6%	3,855	24.2%
DAILY PJM	PWO	87,120	52,000	67.5%	84,304	3.3%
DAILY PJM	PWP	5,362	2,470	117.1%	4,365	22.8%
DAILY PJM	WOR	26,352	43,080	-38.8%	26,208	0.5%
DAILY PJM	ZAO	15,840	41,400	-61.7%	14,640	8.2%
DAILY PJM	ZGO	11,088	18,200	-39.1%	10,248	8.2%
DAILY PJM	ZJO	2,640	5,720	-53.8%	2,440	8.2%
DATED BRENT (PLATTS) DAILY SWAP	7G	0	0	-	0	-
DATED TO FRONTLINE BRENT	FY	8,605	9,463	-9.1%	8,745	-1.6%



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<b>Energy Futures</b>					
DEMARC INDEX FUTURE	0	0	-	0	-
DEMARC SWING SWAP	0	0	-	0	-
DIESEL 10P BRG FOB RDM VS	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	8,136	-64.1%	2,920	0.0%
DOMINION TRANSMISSION INC	57,756	42,256	36.7%	60,943	-5.2%
DUBAI CRUDE OIL BALMO	0	0	-	0	-
DUBAI CRUDE OIL CALENDAR	18,275	2,336	682.3%	21,377	-14.5%
DY EURO 3.5% FUEL OI RDA	0	0	-	0	-
EASTERN RAIL DELIVERY CSX	1,229	2,742	-55.2%	1,301	-5.5%
EAST/WEST FUEL OIL SPREAD	964	360	167.8%	876	10.0%
EIA FLAT TAX ONHWAY DIESE	3,986	5,524	-27.8%	4,351	-8.4%
ELEC ERCOT DLY OFF PK	0	0	-	0	-
ELEC ERCOT DLY PEAK	120	42	185.7%	60	100.0%
ELEC ERCOT DLY PEAK	0	0	-	0	-
ELEC ERCOT DLY PEAK	0	0	-	0	-
ELEC ERCOT OFF PEAK	0	0	-	0	-
ELEC FINSETTLED	2,484	2,804	-11.4%	2,599	-4.4%
ELEC FINSETTLED	0	955	-100.0%	0	-
ELEC MISO PEAK	215	955	-77.5%	215	0.0%
ELEC MISO PEAK	760	1,780	-57.3%	852	-10.8%
ELEC NYISO OFF-PEAK	0	17,725	-100.0%	0	-
ELEC NYISO OFF-PEAK	58	32,964	-56.8%	15,744	-9.5%
ELECTRICITY OFF PEAK	45,869	51,544	-11.0%	47,744	-3.9%
ELECTRICITY OFF PEAK	0	0	-	0	-
ELECTRICITY OFF PEAK	0	17,725	-100.0%	0	-
ELEC WEST POWER OFF-PEAK	1,550	0	-	1,250	24.0%
ELEC WEST POWER PEAK	1,300	0	-	2,600	-50.0%
EL PASO PERMIAN INDEX SWA	0	0	-	0	-
EMMISSIONS	0	0	-	0	-
ERCOT NORTH ZMCPE 5MW OFFPEAK	0	600	-100.0%	0	-
ERCOT NORTH ZMCPE 5MW OFFPEAK SWAP	0	15,805	-100.0%	0	-
ERCOT NORTH ZMCPE 5MW PEAK	0	1,190	-100.0%	400	-100.0%
ETHANOL T2 FOB ROTT INCL DUTY SWAP	4,100	3,600	13.9%	4,183	-2.0%
EU LOW SULPHUR GASOIL CRACK	0	0	-	0	-
EURO 1% FUEL OIL NEW BALM	5	0	-	0	-
EURO 3.5% FUEL OIL RDAM B	345	562	-38.6%	499	-30.9%
EURO 3.5% FUEL OIL SPREAD	1,907	846	125.4%	2,219	-14.1%
EURO-DENOMINATED PETRO PROD	0	0	-	0	-
EURO-DENOMINATED PETRO PROD	440	0	-	0	-
EURO GASOIL 10 CAL SWAP	0	0	-	0	-
EURO GASOIL 10PPM VS ICE	252	823	-69.4%	263	-4.2%
EUROPE 1% FUEL OIL NWE CA	209	430	-51.4%	260	-19.6%
EUROPE 1% FUEL OIL RDAM C	16	137	-88.3%	10	60.0%
EUROPE 3.5% FUEL OIL MED	711	1,309	-45.7%	907	-21.6%
EUROPE 3.5% FUEL OIL RDAM	10,941	8,444	29.6%	12,219	-10.5%
EUROPEAN GASOIL (ICE)	2,504	2,905	-13.8%	2,852	-12.2%
EUROPEAN NAPHTHA BALMO	351	152	130.9%	398	-11.8%
EUROPEAN NAPHTHA CRACK SPR	10,481	9,977	5.1%	10,726	-2.3%
EUROPE DATED BRENT SWAP	362	6,355	-94.3%	369	-1.9%
EUROPE JET KERO NWE CALSW	48	38	26.3%	36	33.3%
EUROPE NAPHTHA CALSWAP	2,901	1,468	97.6%	2,914	-0.4%

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<b>Energy Futures</b>						
EURO PROPANE CIF ARA SWA	PS	1,139	1,546	-26.3%	1,323	-13.9%
FL GAS ZONE 3 NAT GAS IND	Q9	0	0	-	0	-
FLORIDA GAS ZONE3 BASIS S	FP	0	1,105	-100.0%	0	-
FREIGHT MARKETS	FLP	934	822	13.6%	998	-6.4%
FUEL OIL CRACK VS ICE	FO	20,392	19,710	3.5%	20,445	-0.3%
FUEL OIL NWE CRACK VS ICE	FI	0	171	-100.0%	0	-
FUEL OIL (PLATS) CAR CM	1W	52	146	-64.4%	105	-50.5%
FUEL OIL (PLATS) CAR CN	1X	0	81	-100.0%	0	-
FUELOIL SWAP:CARGOES VS.B	FS	914	1,483	-38.4%	1,013	-9.8%
GAS EURO-BOB OXY NWE BARGES	7H	6,065	8,067	-24.8%	5,723	6.0%
GAS EURO-BOB OXY NWE BARGES CRK	7K	33,101	34,432	-3.9%	29,810	11.0%
GASOIL 0.1 BRGS FOB VS IC	6V	0	5	-100.0%	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	20	-100.0%	0	-
GASOIL 0.1CIF MED VS ICE	Z5	45	5	800.0%	50	-10.0%
GASOIL 0.1 CIF NWE VS ISE	TU	0	0	-	0	-
GASOIL 0.1 CIF VS ICE GAS	8W	0	5	-100.0%	0	-
GASOIL 0.1 CRG CIF NW VS	4V	0	0	-	0	-
GASOIL 0.1 RDAM BRGS VS I	WQ	135	78	73.1%	25	440.0%
GASOIL 0.1 ROTTERDAM BARG	VL	25	0	-	30	-16.7%
GASOIL 10P CRG CIF NW VS	3V	0	0	-	0	-
GASOIL 10PPM CARGOES CIF	TY	0	0	-	0	-
GASOIL 10PPM VS ICE SWAP	TP	905	176	414.2%	954	-5.1%
GASOIL BULLET SWAP	BG	0	0	-	0	-
GASOIL CALENDAR SWAP	GX	75	187	-59.9%	65	15.4%
GASOIL CRACK SPREAD CALEN	GZ	21,056	7,190	192.9%	20,581	2.3%
GASOIL MINI CALENDAR SWAP	QA	348	787	-55.8%	402	-13.4%
GASOLINE UP-DOWN BALMO SW	1K	0	0	-	0	-
GC ULSD VS GC JET SPREAD	VV	0	0	-	0	-
GROUP THREE ULSD (PLATTS)	A7	225	0	-	250	-10.0%
GRP THREE ULSD(PLT)VS HEA	A6	7,272	6,090	19.4%	5,303	37.1%
GRP THREE UNL GS (PLT) VS	A8	3,485	4,656	-25.2%	3,775	-7.7%
GULF COAST 3% FUEL OIL BA	VZ	1,226	980	25.1%	543	125.8%
GULF COAST GASOLINE CLNDR	GS	0	0	-	0	-
GULF COAST JET FUEL CLNDR	GE	1,081	894	20.9%	1,071	0.9%
GULF COAST JET VS NYM 2 H	ME	33,118	34,763	-4.7%	36,351	-8.9%
GULF COAST NO.6 FUEL OIL	MF	48,173	62,714	-23.2%	50,723	-5.0%
GULF COAST NO.6 FUEL OIL	MG	5,180	8,595	-39.7%	5,221	-0.8%
GULF COAST ULSD CALENDAR	LY	3,024	4,804	-37.1%	3,176	-4.8%
GULF COAST ULSD CRACK SPR	GY	2,248	7,926	-71.6%	2,473	-9.1%
HEATING OIL BALMO CLNDR S	1G	195	45	333.3%	175	11.4%
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	38,846	71,902	-46.0%	43,535	-10.8%
HENRY HUB INDEX SWAP FUTU	IN	30,126	46,620	-35.4%	30,153	-0.1%
HENRY HUB SWAP	NN	1,267,805	1,390,417	-8.8%	1,278,678	-0.9%
HENRY HUB SWING FUTURE	SN	0	0	-	0	-
HOUSTON SHIP CHANNEL BASI	NH	22,299	24,808	-10.1%	22,471	-0.8%
HOUSTON SHIP CHANNEL INDE	IP	0	0	-	0	-
HUSTN SHIP CHNL PIPE SWP	XJ	1,839	3,425	-46.3%	2,225	-17.3%
ICE BRENT DUBAI SWAP	DB	31,233	2,235	1,297.4%	20,433	52.9%



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IN DELIVERY MONTH EUA	6T	10,598	47,750	-77.8%	10,748	-1.4%
INDIANA MISO	FAD	26,080	21,960	18.8%	21,840	19.4%
INDIANA MISO	FDM	0	0	-	0	-
INDIANA MISO	FTD	4,464	8,160	-45.3%	3,936	13.4%
INDIANA MISO	FTM	0	35,450	-100.0%	0	-
INDIANA MISO	PDD	1,596	792	101.5%	1,560	2.3%
INDIANA MISO	PDM	0	463	-100.0%	0	-
INDIANA MISO	PTD	504	287	75.6%	336	50.0%
INDIANA MISO	PTM	0	0	-	0	-
INDONESIAN COAL	MCC	0	45	-100.0%	0	-
ISO NEW ENGLAND OFF-PEAK	KI	126	510	-75.3%	140	-10.0%
ISO NEW ENGLAND PK LMP	NI	153	539	-71.6%	170	-10.0%
JAPAN C&F NAPHTHA CRACK S	JB	1,347	1,279	5.3%	1,095	23.0%
JAPAN C&F NAPHTHA SWAP	JA	2,407	1,516	58.8%	1,801	33.6%
JAPAN NAPHTHA BALMO SWAP	E6	607	20	2,935.0%	30	1,923.3%
JET AV FUEL (P) CAR FM ICE GAS SWAP	1V	21	19	10.5%	27	-22.2%
JET BARGES VS ICE GASOIL	JR	0	14	-100.0%	0	-
JET CIF NWE VS ICE	JC	486	400	21.5%	452	7.5%
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	5,893	4,073	44.7%	10,656	-44.7%
LA CARB DIESEL (OPIS)	LX	39	143	-72.7%	52	-25.0%
LA CARB DIESEL (OPIS) SWA	KL	160	1,645	-90.3%	227	-29.5%
LA CARBOB GASOLINE(OPIS)S	JL	150	1,100	-86.4%	200	-25.0%
LA JET FUEL VS NYM NO 2 H	MQ	0	612	-100.0%	25	-100.0%
LA JET (OPIS) SWAP	JS	2,315	2,342	-1.2%	2,070	11.8%
LLS (ARGUS) CALENDAR SWAP	XA	0	0	-	0	-
LLS (ARGUS) VS WTI SWAP	WJ	27,433	39,236	-30.1%	26,860	2.1%
MARS (ARGUS) VS WTI SWAP	YX	12,199	14,925	-18.3%	13,403	-9.0%
MARS (ARGUS) VS WTI TRD M	YV	23,416	7,732	202.8%	23,852	-1.8%
MARS BLEND CRUDE OIL	MB	2,559	1,215	110.6%	2,144	19.4%
MCCLOSKEY ARA ARGS COAL	MTF	71,156	130,144	-45.3%	72,640	-2.0%
MCCLOSKEY RCH BAY COAL	MFF	12,545	29,214	-57.1%	13,771	-8.9%
MGF FUT	MGF	163	100	63.0%	148	10.1%
MGN1 SWAP FUT	MGN	494	641	-22.9%	474	4.2%
MICHCON NG INDEX SWAP	Y8	0	0	-	0	-
MICHIGAN BASIS	NF	10,259	11,956	-14.2%	10,919	-6.0%
MICHIGAN MISO	HMO	169,560	220,288	-23.0%	186,480	-9.1%
MICHIGAN MISO	HMW	10,960	14,452	-24.2%	12,225	-10.3%
MINI GAS EUROBOB OXY NWE ARGS BALMO	MEB	479	375	27.7%	438	9.4%
MINI RBOB V. EBOBARG NWE BRGS BALMO	MXR	188	0	-	0	-
MINI RBOB V. EBOB(ARGUS) NWE BRGS	MXB	3,097	1,833	69.0%	2,688	15.2%
MJB FUT	MJB	0	0	-	0	-
MJC FUT	MJC	285	353	-19.3%	323	-11.8%
MNC FUT	MNC	5,211	5,046	3.3%	4,871	7.0%
MONT BELVIEU ETHANE 5 DECIMAL	C0	84,937	62,272	36.4%	87,457	-2.9%
MONT BELVIEU ETHANE OPIS BALMO	8C	200	65	207.7%	75	166.7%
MONT BELVIEU LDH PROPANE 5 DECIMAL	B0	104,772	122,510	-14.5%	109,507	-4.3%
MONT BELVIEU LDH PROPANE OPIS BALMO	8O	1,366	107	1,176.6%	774	76.5%
MONT BELVIEU NATURAL GASOLINE 5 DEC	7Q	10,909	16,356	-33.3%	12,686	-14.0%
MONT BELVIEU NATURAL GASOLINE BALMO	R0	155	168	-7.7%	210	-26.2%
MONT BELVIEU NORMAL BUTANE 5 DECIMAL	D0	38,968	33,085	17.8%	38,437	1.4%
MONT BELVIEU NORMAL BUTANE BALMO	8J	405	165	145.5%	1,635	-75.2%



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Commodity	Open Interest APR 2017	Open Interest APR 2016	% CHG	Open Interest MAR 2017	% CHG
<b>Energy Futures</b>					
NAT GAS BASIS SWAP	0	0	-	0	-
NAT GAS BASIS SWAP	11,257	7,933	41.9%	11,855	-5.0%
NATURAL GAS	0	0	-	0	-
NATURAL GAS	44	0	-	44	0.0%
NATURAL GAS	0	0	-	0	-
NATURAL GAS FIXED PRICE SWAP FUTURES	0	980	-100.0%	0	-
NATURAL GAS FIXED PRICE SWAP FUTURES	900	4,040	-77.7%	1,080	-16.7%
NATURAL GAS FIXED PRICE SWAP FUTURES	0	980	-100.0%	0	-
NATURAL GAS FIXED PRICE SWAP FUTURES	0	176	-100.0%	0	-
NATURAL GAS FIXED PRICE SWAP FUTURES	0	221	-100.0%	0	-
NATURAL GAS FIXED PRICE SWAP FUTURES	0	0	-	0	-
NATURAL GAS FIXED PRICE SWAP FUTURES	0	32	-100.0%	0	-
NATURAL GAS INDEX	1,336	610	119.0%	1,708	-21.8%
NATURAL GAS PEN SWP	244,427	313,044	-21.9%	277,555	-11.9%
NEPOOL CNCTCT 5MW D AH O	3,561	16,621	-78.6%	3,936	-9.5%
NEPOOL CONECTIC 5MW D AH	190	889	-78.6%	213	-10.8%
NEPOOL INTR HUB 5MW D AH	627,449	331,017	89.6%	608,905	3.0%
NEPOOL INTR HUB 5MW D AH	44,105	16,416	168.7%	43,258	2.0%
NEPOOL NE MASS 5MW D AH O	0	0	-	0	-
NEPOOL NE MASS 5MW D AH P	0	640	-100.0%	0	-
NEPOOL NEW HAMP 5MW D AH	0	0	-	0	-
NEPOOL NEW HAMP 5MW D AH	0	0	-	0	-
NEPOOL RHD ISLD 5MW D AH	950	7,897	-88.0%	1,226	-22.5%
NEPOOL RHODE IL 5MW D AH	17,805	121,255	-85.3%	22,305	-20.2%
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	7,122	43,092	-83.5%	7,872	-9.5%
NEPOOL W CNTR M 5MW D AH	480	4,008	-88.0%	641	-25.1%
NEW ENGLAND HUB PEAK DAIL	1,122	1,545	-27.4%	1,331	-15.7%
NEW YORK ETHANOL SWAP	645	3,075	-79.0%	730	-11.6%
NEW YORK HUB ZONE G PEAK	1,364	2,342	-41.8%	1,550	-12.0%
NEW YORK HUB ZONE J PEAK	803	971	-17.3%	851	-5.6%
NGPL MID-CONTINENT	28,344	42,149	-32.8%	29,184	-2.9%
NGPL MIDCONTINENT INDEX	0	4,280	-100.0%	0	-
NGPL MIDCONTINENT SWING S	0	0	-	0	-
NGPL TEX/OK	33,156	58,142	-43.0%	35,586	-6.8%
NGPL TEXOK INDEX	0	0	-	0	-
N ILLINOIS HUB DAILY	244	168	45.2%	186	31.2%
N ILLINOIS HUB MTHLY	180	420	-57.1%	200	-10.0%
NO 2 UP-DOWN SPREAD CALEN	1,560	276	465.2%	1,535	1.6%
NORTHEN NATURAL GAS DEMAR	2,686	2,051	31.0%	2,758	-2.6%
NORTHEN NATURAL GAS VENTU	4,116	4,206	-2.1%	4,504	-8.6%
NORTHERN ILLINOIS OFF-PEA	0	740	-100.0%	0	-
NORTHWEST ROCKIES BASIS S	60,325	81,415	-25.9%	63,077	-4.4%
N ROCKIES PIPE SWAP	426	729	-41.6%	456	-6.6%
NY1% VS GC SPREAD SWAP	6,165	6,061	1.7%	7,825	-21.2%
NY 2.2% FUEL OIL (PLATTS	0	0	-	0	-
NY 3.0% FUEL OIL (PLATTS	885	800	10.6%	535	65.4%
NY HARBOR 1% FUEL OIL BAL	25	0	-	0	-
NY HARBOR HEAT OIL SWP	10,595	14,488	-26.9%	11,124	-4.8%
NY HARBOR LOW SULPUR GAS 1000MBBL	1,440	1,275	12.9%	1,522	-5.4%
NY HARBOR RESIDUAL FUEL 1	5,147	7,253	-29.0%	5,380	-4.3%
NY HARBOR RESIDUAL FUEL C	0	0	-	0	-

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<b>Energy Futures</b>						
NYH NO 2 CRACK SPREAD CAL	HK	9,397	13,672	-31.3%	9,433	-0.4%
NY H OIL PLATTS VS NYMEX	YH	0	4	-100.0%	0	-
NYISO A	KA	0	3,882	-100.0%	0	-
NYISO A OFF-PEAK	KB	0	1,180	-100.0%	0	-
NYISO CAPACITY	LHV	336	0	-	340	-1.2%
NYISO CAPACITY	NNC	1,646	2,036	-19.2%	1,903	-13.5%
NYISO CAPACITY	NRS	1,398	2,572	-45.6%	1,647	-15.1%
NYISO G	KG	0	382	-100.0%	0	-
NYISO G OFF-PEAK	KH	0	210	-100.0%	0	-
NYISO J	KJ	1,251	4,950	-74.7%	1,366	-8.4%
NYISO J OFF-PEAK	KK	270	858	-68.5%	300	-10.0%
NYISO ZONE A 5MW D AH O P	K4	134,550	331,159	-59.4%	146,310	-8.0%
NYISO ZONE A 5MW D AH PK	K3	10,940	12,336	-11.3%	11,380	-3.9%
NYISO ZONE C 5MW D AH O P	A3	0	17,725	-100.0%	0	-
NYISO ZONE C 5MW D AH PK	Q5	0	955	-100.0%	0	-
NYISO ZONE G 5MW D AH O P	D2	363,509	352,349	3.2%	348,341	4.4%
NYISO ZONE G 5MW D AH PK	T3	22,771	22,883	-0.5%	22,310	2.1%
NYISO ZONE J 5MW D AH O P	D4	301,261	140,485	114.4%	279,821	7.7%
NYISO ZONE J 5MW D AH PK	D3	18,311	13,867	32.0%	17,498	4.6%
NY JET FUEL (PLATTS) HEAT OIL SWAP	1U	0	0	-	0	-
NYMEX ALUMINUM FUTURES	AN	880	1,182	-25.5%	1,064	-17.3%
NYMEX ULSD VS NYMEX HO	UY	0	375	-100.0%	0	-
NY ULSD (ARGUS) VS HEATING OIL	7Y	1,630	1,577	3.4%	2,601	-37.3%
ONEOK OKLAHOMA NG BASIS	8X	1,295	4,021	-67.8%	1,325	-2.3%
ONTARIO POWER SWAPS	OFD	1,440	2,760	-47.8%	960	50.0%
ONTARIO POWER SWAPS	OFM	31,610	119,663	-73.6%	35,610	-11.2%
ONTARIO POWER SWAPS	OPD	30	120	-75.0%	40	-25.0%
ONTARIO POWER SWAPS	OPM	1,070	4,880	-78.1%	1,060	0.9%
PANHANDLE BASIS SWAP FUTU	PH	32,822	42,899	-23.5%	34,969	-6.1%
PANHANDLE INDEX SWAP FUTU	IV	0	0	-	0	-
PANHANDLE PIPE SWAP	XH	864	0	-	864	0.0%
PERMIAN BASIS SWAP	PM	17,946	18,161	-1.2%	18,902	-5.1%
PETROCHEMICALS	22	64	93	-31.2%	94	-31.9%
PETROCHEMICALS	32	85	19	347.4%	102	-16.7%
PETROCHEMICALS	8I	3,423	1,981	72.8%	3,487	-1.8%
PETROCHEMICALS	91	523	328	59.5%	594	-12.0%
PETROCHEMICALS	HPE	0	0	-	0	-
PETROCHEMICALS	LPE	0	0	-	0	-
PETROCHEMICALS	MAC	10	80	-87.5%	50	-80.0%
PETROCHEMICALS	MAE	10	90	-88.9%	10	0.0%
PETROCHEMICALS	MAS	20	40	-50.0%	10	100.0%
PETROCHEMICALS	MBE	1,715	3,235	-47.0%	2,070	-17.1%
PETROCHEMICALS	MNB	2,493	1,760	41.6%	2,195	13.6%
PETRO CRCKS & SPRDS ASIA	STI	0	225	-100.0%	105	-100.0%
PETRO CRCKS & SPRDS ASIA	STR	64	0	-	164	-61.0%
PETRO CRCKS & SPRDS ASIA	STS	0	0	-	50	-100.0%
PETRO CRCKS & SPRDS NA	CRB	74	148	-50.0%	937	-92.1%
PETRO CRCKS & SPRDS NA	EXR	3,124	1,916	63.0%	3,020	3.4%
PETRO CRCKS & SPRDS NA	FOC	2,875	3,525	-18.4%	2,120	35.6%
PETRO CRCKS & SPRDS NA	GBB	815	175	365.7%	740	10.1%
PETRO CRCKS & SPRDS NA	GCC	225	675	-66.7%	325	-30.8%
PETRO CRCKS & SPRDS NA	GCI	3,820	3,337	14.5%	3,657	4.5%
PETRO CRCKS & SPRDS NA	GCM	0	35	-100.0%	0	-



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<b>Energy Futures</b>						
PETRO CRCKS & SPRDS NA	GCU	18,574	29,368	-36.8%	20,293	-8.5%
PETRO CRCKS & SPRDS NA	GFC	0	0	-	200	-100.0%
PETRO CRCKS & SPRDS NA	HOB	14,485	18,044	-19.7%	13,123	10.4%
PETRO CRCKS & SPRDS NA	KSD	75	0	-	75	0.0%
PETRO CRCKS & SPRDS NA	MFR	0	0	-	0	-
PETRO CRCKS & SPRDS NA	NFG	0	200	-100.0%	86	-100.0%
PETRO CRCKS & SPRDS NA	NYF	300	475	-36.8%	100	200.0%
PETRO CRCKS & SPRDS NA	NYH	0	300	-100.0%	150	-100.0%
PETRO CRCKS & SPRDS NA	RBB	14,769	16,299	-9.4%	15,884	-7.0%
PETRO CRCKS & SPRDS NA	RVG	24,411	13,719	77.9%	21,131	15.5%
PETRO CRCKS & SPRDS NA	SF3	6	0	-	16	-62.5%
PETRO CRK&SPRD EURO	1NB	3,705	4,741	-21.9%	3,809	-2.7%
PETRO CRK&SPRD EURO	1ND	0	0	-	0	-
PETRO CRK&SPRD EURO	43	296	158	87.3%	201	47.3%
PETRO CRK&SPRD EURO	BFR	0	75	-100.0%	0	-
PETRO CRK&SPRD EURO	BOB	5,239	6,302	-16.9%	5,159	1.6%
PETRO CRK&SPRD EURO	EOB	72	104	-30.8%	79	-8.9%
PETRO CRK&SPRD EURO	EPN	593	336	76.5%	689	-13.9%
PETRO CRK&SPRD EURO	EVC	6,887	4,069	69.3%	7,492	-8.1%
PETRO CRK&SPRD EURO	FBT	0	150	-100.0%	0	-
PETRO CRK&SPRD EURO	FVB	0	0	-	0	-
PETRO CRK&SPRD EURO	GCB	0	0	-	200	-100.0%
PETRO CRK&SPRD EURO	GOC	109	135	-19.3%	117	-6.8%
PETRO CRK&SPRD EURO	LSU	0	0	-	0	-
PETRO CRK&SPRD EURO	MGB	30	99	-69.7%	30	0.0%
PETRO CRK&SPRD EURO	MUD	614	178	244.9%	517	18.8%
PETRO CRK&SPRD EURO	NBB	26	5	420.0%	0	-
PETRO CRK&SPRD EURO	NOB	1,351	740	82.6%	1,338	1.0%
PETRO CRK&SPRD EURO	SFB	25	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	5,721	50	11,342.0%	6,649	-14.0%
PETROLEUM PRODUCTS	MBS	0	0	-	0	-
PETROLEUM PRODUCTS	MHE	0	0	-	0	-
PETROLEUM PRODUCTS	MPE	0	530	-100.0%	0	-
PETROLEUM PRODUCTS	VU	100	12	733.3%	15	566.7%
PETROLEUM PRODUCTS ASIA	E6M	47	205	-77.1%	0	-
PETROLEUM PRODUCTS ASIA	MJN	2,333	1,841	26.7%	2,190	6.5%
PETROLEUM PRODUCTS ASIA	MSB	0	0	-	20	-100.0%
PETRO OUTRIGHT EURO	0A	0	0	-	0	-
PETRO OUTRIGHT EURO	0B	65	476	-86.3%	70	-7.1%
PETRO OUTRIGHT EURO	0C	0	10	-100.0%	0	-
PETRO OUTRIGHT EURO	0D	7,379	8,384	-12.0%	7,923	-6.9%
PETRO OUTRIGHT EURO	0E	471	1,209	-61.0%	576	-18.2%
PETRO OUTRIGHT EURO	0F	2,767	1,543	79.3%	2,515	10.0%
PETRO OUTRIGHT EURO	1T	48	20	140.0%	36	33.3%
PETRO OUTRIGHT EURO	33	138	159	-13.2%	182	-24.2%
PETRO OUTRIGHT EURO	5L	30	105	-71.4%	85	-64.7%

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<b>Energy Futures</b>						
PETRO OUTRIGHT EURO	63	105	195	-46.2%	5	2,000.0%
PETRO OUTRIGHT EURO	6L	0	0	-	0	-
PETRO OUTRIGHT EURO	7I	50	270	-81.5%	17	194.1%
PETRO OUTRIGHT EURO	7P	0	0	-	0	-
PETRO OUTRIGHT EURO	7R	119	270	-55.9%	322	-63.0%
PETRO OUTRIGHT EURO	88	0	15	-100.0%	0	-
PETRO OUTRIGHT EURO	CBB	0	0	-	0	-
PETRO OUTRIGHT EURO	CGB	0	0	-	0	-
PETRO OUTRIGHT EURO	CPB	50	107	-53.3%	391	-87.2%
PETRO OUTRIGHT EURO	EFF	50	75	-33.3%	45	11.1%
PETRO OUTRIGHT EURO	EFM	155	65	138.5%	114	36.0%
PETRO OUTRIGHT EURO	ENS	115	363	-68.3%	155	-25.8%
PETRO OUTRIGHT EURO	ESB	0	0	-	0	-
PETRO OUTRIGHT EURO	EWN	1,167	382	205.5%	885	31.9%
PETRO OUTRIGHT EURO	FBD	0	0	-	10	-100.0%
PETRO OUTRIGHT EURO	MBB	0	0	-	30	-100.0%
PETRO OUTRIGHT EURO	MBN	2,871	4,098	-29.9%	3,092	-7.1%
PETRO OUTRIGHT EURO	SMU	0	0	-	0	-
PETRO OUTRIGHT EURO	T0	598	220	171.8%	741	-19.3%
PETRO OUTRIGHT EURO	ULB	0	0	-	0	-
PETRO OUTRIGHT EURO	V0	405	225	80.0%	405	0.0%
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	32	89	-64.0%	209	-84.7%
PETRO OUTRIGHT NA	FOB	0	0	-	0	-
PETRO OUTRIGHT NA	FOM	30	0	-	10	200.0%
PETRO OUTRIGHT NA	GBA	0	0	-	0	-
PETRO OUTRIGHT NA	GUD	0	0	-	0	-
PETRO OUTRIGHT NA	JE	18	340	-94.7%	18	0.0%
PETRO OUTRIGHT NA	JET	4,660	2,120	119.8%	5,331	-12.6%
PETRO OUTRIGHT NA	MBL	203	77	163.6%	220	-7.7%
PETRO OUTRIGHT NA	MEN	695	753	-7.7%	803	-13.4%
PETRO OUTRIGHT NA	MEO	12,587	8,900	41.4%	13,218	-4.8%
PETRO OUTRIGHT NA	MFD	0	84	-100.0%	0	-
PETRO OUTRIGHT NA	MMF	142	274	-48.2%	227	-37.4%
PETRO OUTRIGHT NA	NYT	0	0	-	0	-
PETRO OUTRIGHT NA	XER	0	0	-	0	-
PJM AD HUB 5MW REAL TIME	V3	653,586	1,275,665	-48.8%	695,986	-6.1%
PJM AD HUB 5MW REAL TIME	Z9	33,472	76,224	-56.1%	34,403	-2.7%
PJM AECO DA OFF-PEAK	X1	7,128	53,208	-86.6%	10,503	-32.1%
PJM AECO DA PEAK	Y1	378	2,883	-86.9%	585	-35.4%
PJM APS ZONE DA OFF-PEAK	W4	0	10,635	-100.0%	0	-
PJM APS ZONE DA PEAK	S4	0	573	-100.0%	0	-
PJM ATSI ELEC	MOD	78,450	23,400	235.3%	80,325	-2.3%
PJM ATSI ELEC	MPD	4,240	1,275	232.5%	4,355	-2.6%
PJM BGE DA OFF-PEAK	R3	33,552	38,232	-12.2%	33,927	-1.1%
PJM BGE DA PEAK	E3	1,827	2,082	-12.2%	1,850	-1.2%
PJM COMED 5MW D AH O PK	D9	68,925	254,140	-72.9%	103,035	-33.1%
PJM COMED 5MW D AH PK	D8	3,695	15,530	-76.2%	5,685	-35.0%
PJM DAILY	JD	758	810	-6.4%	606	25.1%
PJM DAYTON DA OFF-PEAK	R7	201,628	193,665	4.1%	211,428	-4.6%
PJM DAYTON DA PEAK	D7	16,668	15,645	6.5%	18,098	-7.9%

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<b>Energy Futures</b>						
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	7,920	54,720	-85.5%	11,670	-32.1%
PJM JCPL DA PEAK	J2	420	2,970	-85.9%	650	-35.4%
PJM NI HUB 5MW REAL TIME	B3	59,301	43,076	37.7%	58,227	1.8%
PJM NI HUB 5MW REAL TIME	B6	1,348,473	1,287,606	4.7%	1,591,153	-15.3%
PJM NILL DA OFF-PEAK	L3	1,330,781	558,070	138.5%	993,883	33.9%
PJM NILL DA PEAK	N3	61,039	29,834	104.6%	50,615	20.6%
PJM OFF-PEAK LMP SWAP FUT	JP	888	3,292	-73.0%	944	-5.9%
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	46,085	-100.0%	0	-
PJM PPL DA PEAK	L5	0	2,483	-100.0%	0	-
PJM PSEG DA OFF-PEAK	W6	120,960	140,400	-13.8%	122,835	-1.5%
PJM PSEG DA PEAK	L6	5,100	5,100	0.0%	5,100	0.0%
PJM WES HUB PEAK LMP 50 M	4S	0	0	-	0	-
PJM WESTH DA OFF-PEAK	E4	833,902	1,345,764	-38.0%	898,582	-7.2%
PJM WESTHDA PEAK	J4	47,338	73,870	-35.9%	50,990	-7.2%
PJM WESTH RT OFF-PEAK	N9	2,486,980	3,968,290	-37.3%	2,167,840	14.7%
PJM WESTH RT PEAK	L1	146,990	224,367	-34.5%	153,990	-4.5%
PLASTICS	PGP	1,501	1,849	-18.8%	1,433	4.7%
PREMIUM UNLND 10P FOB MED	3G	110	617	-82.2%	150	-26.7%
PREMIUM UNLEAD 10PPM FOB	8G	14	53	-73.6%	5	180.0%
PREM UNL GAS 10PPM RDAM FOB BALMO	7N	0	0	-	7	-100.0%
PREM UNL GAS 10PPM RDAM FOB SWAP	7L	17	139	-87.8%	32	-46.9%
PROPANE NON-LDH MB (OPIS) BALMO SWP	1S	122	0	-	520	-76.5%
PROPANE NON-LDH MT. BEL (OPIS) SWP	1R	28,099	27,613	1.8%	31,842	-11.8%
RBOB CALENDAR SWAP	RL	10,847	12,122	-10.5%	10,643	1.9%
RBOB CRACK SPREAD	RM	2,079	5,246	-60.4%	2,034	2.2%
RBOB CRACK SPREAD BALMO S	1E	0	0	-	0	-
RBOB GASOLINE BALMO CLNDR	1D	471	24	1,862.5%	343	37.3%
RBOB PHY	RBL	0	0	0.0%	0	0.0%
RBOB (PLATTS) CAL SWAP	RY	0	0	-	0	-
RBOB SPREAD (PLATTS) SWAP	RI	24	80	-70.0%	27	-11.1%
RBOB UP-DOWN CALENDAR SWA	RV	0	0	-	0	-
RBOB VS HEATING OIL SWAP	RH	4,261	2,796	52.4%	4,750	-10.3%
ROCKIES KERN OPAL - NW IN	IR	0	736	-100.0%	0	-
SAN JUAN BASIS SWAP	NJ	32,405	28,197	14.9%	34,355	-5.7%
SAN JUAN PIPE SWAP	XX	0	0	-	0	-
SINGAPORE 180CST BALMO	BS	100	161	-37.9%	66	51.5%
SINGAPORE 380CST BALMO	BT	307	103	198.1%	158	94.3%
SINGAPORE 380CST FUEL OIL	SE	15,169	8,594	76.5%	16,232	-6.5%
SINGAPORE FUEL 180CST CAL	UA	2,147	2,024	6.1%	2,290	-6.2%
SINGAPORE FUEL OIL SPREAD	SD	1,694	1,058	60.1%	1,590	6.5%
SINGAPORE GASOIL	MTB	125	175	-28.6%	160	-21.9%
SINGAPORE GASOIL	MTS	10,036	5,475	83.3%	10,314	-2.7%
SINGAPORE GASOIL	STL	0	0	-	0	-
SINGAPORE GASOIL	STZ	300	0	-	300	0.0%
SINGAPORE GASOIL CALENDAR	MSG	970	140	592.9%	740	31.1%
SINGAPORE GASOIL SWAP	SG	18,743	7,528	149.0%	19,863	-5.6%
SINGAPORE GASOIL VS ICE	GA	27,361	4,815	468.2%	28,341	-3.5%
SINGAPORE JET KERO BALMO	BX	0	0	-	0	-
SINGAPORE JET KERO GASOIL	RK	6,230	3,280	89.9%	7,085	-12.1%

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Commodity		Open Interest APR 2017	Open Interest APR 2016	% CHG	Open Interest MAR 2017	% CHG
<b>Energy Futures</b>						
SINGAPORE JET KEROSENE SW	KS	3,035	2,044	48.5%	3,785	-19.8%
SINGAPORE JET KERO VS. GASOIL BALMO	Z0	0	0	-	0	-
SINGAPORE MOGAS 92 UNLEADED BALMO	1P	315	1,860	-83.1%	82	284.1%
SINGAPORE MOGAS 92 UNLEADED SWP	1N	16,556	13,613	21.6%	18,327	-9.7%
SINGAPORE NAPHTHA BALMO	KU	0	0	-	0	-
SINGAPORE NAPHTHA SWAP	SP	0	0	-	0	-
SING FUEL	MSD	10	5	100.0%	15	-33.3%
SOCAL BASIS SWAP	NS	0	0	-	0	-
SOCAL PIPE SWAP	XN	0	3,360	-100.0%	0	-
SONAT BASIS SWAP FUTURE	SZ	490	4,348	-88.7%	550	-10.9%
SOUTHERN NAT LA NAT GAS	M8	0	0	-	0	-
SOUTH STAR TEX OKLHM KNS	8Z	248	1,000	-75.2%	464	-46.6%
Sumas Basis Swap	NK	7,802	10,885	-28.3%	8,414	-7.3%
SUMAS NAT GAS PLATTS FIXED PRICE	DVS	490	1,527	-67.9%	550	-10.9%
TC2 ROTTERDAM TO USAC 37K	TM	0	0	-	0	-
TC5 RAS TANURA TO YOKOHAM	TH	0	15	-100.0%	0	-
TCO BASIS SWAP	TC	23,753	42,294	-43.8%	22,809	4.1%
TCO NG INDEX SWAP	Q1	0	2,200	-100.0%	0	-
TENN 800 LEG NAT GAS INDE	L4	0	1,037	-100.0%	0	-
TENNESSEE 500 LEG BASIS S	NM	734	1,774	-58.6%	1,094	-32.9%
TENNESSEE 800 LEG NG BASI	6Z	368	1,716	-78.6%	428	-14.0%
TENNESSEE ZONE 0 BASIS SW	NQ	972	1,520	-36.1%	1,032	-5.8%
Tetco ELA Basis	TE	0	0	-	0	-
TETCO M-3 INDEX	IX	5,992	10,098	-40.7%	5,992	0.0%
Tetco STX Basis	TX	1,465	3,388	-56.8%	1,555	-5.8%
TEXAS EASTERN ZONE M-3 BA	NX	19,167	23,857	-19.7%	21,027	-8.8%
TEXAS GAS ZONE1 NG BASIS	9F	11,228	15,173	-26.0%	11,904	-5.7%
TRANSCO ZONE 1 NG BASIS	8E	0	0	-	0	-
Transco Zone 3 Basis	CZ	6,282	8,404	-25.2%	6,310	-0.4%
TRANSCO ZONE 3 NG INDEX S	Y6	6,256	0	-	0	-
TRANSCO ZONE4 BASIS SWAP	TR	21,952	39,390	-44.3%	23,116	-5.0%
TRANSCO ZONE 4 NAT GAS IN	B2	465	496	-6.2%	0	-
TRANSCO ZONE 6 BASIS SWAP	NZ	7,465	5,697	31.0%	8,411	-11.2%
TRANSCO ZONE 6 INDEX	IT	1,712	3,082	-44.5%	1,960	-12.7%
TRANSCO ZONE 6 PIPE SWAP	XZ4	0	0	-	0	-
UCM FUT	UCM	55	75	-26.7%	41	34.1%
ULSD 10PPM CIF MED BALMO	X7	0	35	-100.0%	0	-
ULSD 10PPM CIF MED SWAP	Z6	5	42	-88.1%	0	-
ULSD 10PPM CIF MED VS ICE	Z7	33	84	-60.7%	21	57.1%
ULSD 10PPM CIF VS ICE GAS	7V	0	0	-	0	-
ULSD UP-DOWN BALMO SWP	1L	2,665	4,625	-42.4%	3,685	-27.7%
UP DOWN GC ULSD VS NMX HO	LT	44,727	68,126	-34.3%	42,543	5.1%
USGC UNL 87 CRACK SPREAD	RU	0	0	-	0	-
VENTURA NAT GAS PLATTS FIXED PRICE	DVA	0	0	-	0	-
WAHA BASIS	NW	9,715	14,532	-33.1%	10,229	-5.0%
WAHA INDEX SWAP FUTURE	IY	0	5,426	-100.0%	248	-100.0%
WESTERN RAIL DELIVERY PRB	QP	1,240	3,465	-64.2%	1,445	-14.2%
WTI-BRENT BULLET SWAP	BY	904	0	-	904	0.0%
WTI-BRENT CALENDAR SWAP	BK	40,393	70,783	-42.9%	41,192	-1.9%
WTI CALENDAR	CS	130,805	131,378	-0.4%	129,462	1.0%
WTS (ARGUS) VS WTI SWAP	FF	49,104	29,816	64.7%	47,802	2.7%
WTS (ARGUS) VS WTI TRD MT	FH	1,285	3,790	-66.1%	1,720	-25.3%



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Commodity		Open Interest APR 2017	Open Interest APR 2016	% CHG	Open Interest MAR 2017	% CHG
<b>Energy Options</b>						
1 MO GASOIL CAL SWAP SPR	GXA	0	100	-100.0%	0	-
APPALACHIAN COAL	6K	0	0	-	0	-
BRENT CALENDAR SWAP	BA	14,157	55,747	-74.6%	15,351	-7.8%
BRENT OIL LAST DAY	BE	2,885	14,227	-79.7%	6,652	-56.6%
BRENT OIL LAST DAY	BZO	36,337	4,041	799.2%	59,224	-38.6%
BRENT OIL LAST DAY	OS	21,228	37,655	-43.6%	21,276	-0.2%
COAL API2 INDEX	CLA	4,282	20,430	-79.0%	3,790	13.0%
COAL API2 INDEX	CQA	540	54,920	-99.0%	540	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	705	-100.0%	0	-
COAL SWAP	CPF	40	465	-91.4%	40	0.0%
COAL SWAP	RPF	625	1,774	-64.8%	625	0.0%
CRUDE OIL 1MO	WA	731,165	481,163	52.0%	775,585	-5.7%
CRUDE OIL APO	AO	299,347	305,926	-2.2%	290,847	2.9%
CRUDE OIL CALNDR STRIP	6F	0	0	-	0	-
CRUDE OIL OUTRIGHTS	AH	150	450	-66.7%	150	0.0%
CRUDE OIL OUTRIGHTS	DBP	0	1,890	-100.0%	0	-
CRUDE OIL PHY	CD	0	0	0.0%	0	-
CRUDE OIL PHY	LC	76,052	106,582	-28.6%	80,520	-5.5%
CRUDE OIL PHY	LO	3,082,391	3,041,774	1.3%	2,937,855	4.9%
CRUDE OIL PHY	LO1	2,914	1,048	178.1%	2,664	9.4%
CRUDE OIL PHY	LO2	1,480	38	3,794.7%	367	303.3%
CRUDE OIL PHY	LO3	513	63	714.3%	1,407	-63.5%
CRUDE OIL PHY	LO4	0	0	-	0	-
CRUDE OIL PHY	LO5	0	0	0.0%	0	0.0%
DAILY CRUDE OIL	DNM	0	0	-	0	-
ELEC FINSETTLED	PML	0	105	-100.0%	0	-
ELEC MISO PEAK	9T	0	420	-100.0%	0	-
ELECTRICITY OFF PEAK	N9P	0	0	-	0	-
ETHANOL	CE1	10	0	-	5	100.0%
ETHANOL	CE3	300	25	1,100.0%	300	0.0%
ETHANOL SWAP	CVR	9,391	12,059	-22.1%	10,118	-7.2%
ETHANOL SWAP	GVR	2,771	2,801	-1.1%	2,585	7.2%
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	-
GASOLINE	GCE	0	456	-100.0%	0	-
HEATING OIL CRK SPD AVG PRICE OPTIONS	3W	0	0	-	0	-
HEATING OIL PHY	LB	1,299	335	287.8%	1,356	-4.2%
HEATING OIL PHY	OH	53,431	75,305	-29.0%	49,719	7.5%
HENRY HUB FINANCIAL LAST	E7	10,569	5,914	78.7%	10,445	1.2%
HO 1 MONTH CLNDR OPTIONS	FA	1,300	800	62.5%	0	-
HUSTN SHIP CHNL PIPE SWP	PK	0	0	-	0	-
LLS CRUDE OIL	WJO	10,300	6,045	70.4%	11,025	-6.6%
MCCLOSKEY ARA ARGS COAL	MTO	1,020	4,320	-76.4%	1,070	-4.7%
MCCLOSKEY RCH BAY COAL	MFO	0	1,800	-100.0%	0	-
NATURAL GAS	G10	250	0	-	0	-
NATURAL GAS 12 M CSO FIN	G7	0	0	-	0	-
NATURAL GAS 1 M CSO FIN	G4	82,050	5,500	1,391.8%	30,600	168.1%
NATURAL GAS 2 M CSO FIN	G2	1,750	0	-	1,850	-5.4%
NATURAL GAS 3 M CSO FIN	G3	13,376	33,235	-59.8%	9,150	46.2%

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Commodity		Open Interest APR 2017	Open Interest APR 2016	% CHG	Open Interest MAR 2017	% CHG
<b>Energy Options</b>						
NATURAL GAS 5 M CSO FIN	G5	0	0	-	2,325	-100.0%
NATURAL GAS 6 M CSO FIN	G6	0	0	-	0	-
NATURAL GAS OPTION ON CALENDAR STRP	6J	6,078	14,186	-57.2%	5,958	2.0%
NATURAL GAS PHY	KD	0	0	0.0%	0	0.0%
NATURAL GAS PHY	LN	2,544,183	2,774,854	-8.3%	2,602,896	-2.3%
NATURAL GAS PHY	ON	82,267	116,629	-29.5%	86,158	-4.5%
NATURAL GAS PHY	ON1	0	0	-	0	-
NATURAL GAS PHY	ON5	0	0	-	0	-
NG HH 3 MONTH CAL	IC	0	250	-100.0%	0	-
N ROCKIES PIPE SWAP	ZR	4,230	4,590	-7.8%	3,780	11.9%
NY HARBOR HEAT OIL SWP	AT	28,852	46,151	-37.5%	28,920	-0.2%
NYISO ZONE G 5MW PEAK OPTIONS	9U	14,910	0	-	14,910	0.0%
NYMEX EUROPEAN GASOIL APO	F7	0	405	-100.0%	0	0.0%
NYMEX EUROPEAN GASOIL OPT	F8	0	0	-	0	-
PANHANDLE PIPE SWAP	PU	2,880	0	-	2,880	0.0%
PETROCHEMICALS	4H	3,036	8,120	-62.6%	3,420	-11.2%
PETROCHEMICALS	4I	0	0	-	0	-
PETROCHEMICALS	4J	4,715	1,950	141.8%	5,000	-5.7%
PETROCHEMICALS	4K	0	0	-	0	-
PETROCHEMICALS	CPR	18	495	-96.4%	0	-
PETRO OUTRIGHT EURO	8H	300	75	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	2,720	200	1,260.0%	2,340	16.2%
PJM WES HUB PEAK CAL MTH	JOA	0	10,300	-100.0%	0	-
PJM WES HUB PEAK LMP 50MW	PMA	16,606	1,364	1,117.4%	15,463	7.4%
RBOB 1MO CAL SPD OPTIONS	ZA	0	1,350	-100.0%	0	-
RBOB CALENDAR SWAP	RA	1,551	1,207	28.5%	1,179	31.6%
RBOB PHY	OB	28,225	41,317	-31.7%	17,684	59.6%
RBOB PHY	RF	14	8	75.0%	28	-50.0%
ROTTERDAM 3.5%FUEL OIL CL	Q6	420	270	55.6%	480	-12.5%
SAN JUAN PIPE SWAP	PJ	3,824	1,310	191.9%	3,642	5.0%
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	400	0	-	0	-
SHORT TERM NATURAL GAS	U02	0	800	-100.0%	0	-
SHORT TERM NATURAL GAS	U03	0	0	-	40	-100.0%
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	-



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<b>Energy Options</b>						
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	-
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	225	300	-25.0%	250	-10.0%
SINGAPORE JET FUEL CALENDAR	N2	630	1,200	-47.5%	760	-17.1%
SOCAL PIPE SWAP	ZN	0	6,000	-100.0%	0	-
WTI 12 MONTH CALENDAR OPT	WZ	0	0	-	0	-
WTI-BRENT BULLET SWAP	BV	146,400	10,500	1,294.3%	157,620	-7.1%
WTI CRUDE OIL 1 M CSO FI	7A	296,438	384,625	-22.9%	312,764	-5.2%
<b>Metals Futures</b>						
COMEX GOLD	GC	474,139	553,560	-14.3%	419,515	13.0%
NYMEX HOT ROLLED STEEL	HR	11,858	21,914	-45.9%	12,733	-6.9%
NYMEX PLATINUM	PL	67,693	64,072	5.7%	63,750	6.2%
PALLADIUM	PA	36,731	22,801	61.1%	33,076	11.1%
URANIUM	UX	4,516	7,273	-37.9%	5,049	-10.6%
COMEX SILVER	SI	200,033	201,872	-0.9%	217,076	-7.9%
COMEX E-Mini GOLD	QO	798	1,371	-41.8%	975	-18.2%
COMEX E-Mini SILVER	QI	93	75	24.0%	121	-23.1%
COMEX COPPER	HG	248,692	178,814	39.1%	276,851	-10.2%
COMEX MINY COPPER	QC	174	36	383.3%	130	33.8%
Aluminium MW Trans Prem Platts	AUP	33,811	27,328	23.7%	34,556	-2.2%
ALUMINUM	A38	30	0	-	50	-40.0%
ALUMINUM	AEP	15,818	6,571	140.7%	16,273	-2.8%
ALUMINUM	ALA	130	0	-	140	-7.1%
ALUMINUM	ALI	753	374	101.3%	1,004	-25.0%
ALUMINUM	EDP	6,129	240	2,453.8%	6,440	-4.8%
ALUMINUM	MJP	5,433	1,337	306.4%	5,975	-9.1%
COPPER	HGS	1,581	5,383	-70.6%	1,528	3.5%
E-MICRO GOLD	MGC	4,986	2,653	87.9%	4,499	10.8%
FERROUS PRODUCTS	BUS	255	360	-29.2%	321	-20.6%
FERROUS PRODUCTS	SSF	0	0	-	0	-
GOLD	GPS	0	0	-	0	-
Gold Kilo	GCK	17	143	-88.1%	6	183.3%
IRON ORE 58 CHINA TSI FUTURES	TIC	0	0	-	0	-
IRON ORE 62 CHINA PLATTS FUTURES	PIO	1,152	100	1,052.0%	1,312	-12.2%
IRON ORE 62 CHINA TSI FUTURES	TIO	19,025	24,071	-21.0%	18,448	3.1%
LNDN ZINC	ZNC	5	0	-	0	-
METALS	LED	0	0	-	0	-
SILVER	SIL	578	564	2.5%	409	41.3%

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<b>Metals Options</b>						
COMEX COPPER	HX	3,141	2,308	36.1%	2,646	18.7%
COMEX GOLD	OG	984,047	1,153,395	-14.7%	978,852	0.5%
COMEX SILVER	SO	105,294	131,206	-19.7%	108,239	-2.7%
COPPER	H4E	0	0	-	0	-
GOLD	OG1	1,341	232	478.0%	1,314	2.1%
GOLD	OG2	389	156	149.4%	355	9.6%
GOLD	OG3	701	0	-	208	237.0%
GOLD	OG4	0	0	-	0	-
GOLD	OG5	0	0	0.0%	0	0.0%
IRON ORE 62 CHINA TSI CALL OPTION	ICT	13,201	18,616	-29.1%	12,006	10.0%
IRON ORE 62 CHINA TSI PUT OPTION	ICT	8,400	18,597	-54.8%	9,400	-10.6%
NYMEX PLATINUM	PO	4,790	5,902	-18.8%	2,748	74.3%
PALLADIUM	PAO	4,956	4,668	6.2%	3,496	41.8%
SILVER	SO1	11	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		23	60	-61.7%	12	91.7%
Energy Futures		19,592,764	21,740,938	-9.9%	19,319,775	1.4%
Metals Futures		1,134,430	1,120,912	1.2%	1,120,237	1.3%
<b>TOTAL FUTURES</b>		<b>20,727,217</b>	<b>22,861,910</b>	<b>-9.3%</b>	<b>20,440,024</b>	<b>1.4%</b>
<b>TOTAL OPTIONS GROUP</b>						
Energy Options		7,650,845	7,706,884	-0.7%	7,593,913	0.7%
Metals Options		1,126,271	1,335,080	-15.6%	1,119,264	0.6%
<b>TOTAL OPTIONS</b>		<b>8,777,116</b>	<b>9,041,964</b>	<b>-2.9%</b>	<b>8,713,177</b>	<b>0.7%</b>



## NYMEX/COMEX Exchange Open Interest Report - Monthly

Commodity	Open Interest APR 2017	Open Interest APR 2016	% CHG	Open Interest MAR 2017	% CHG
<b>TOTAL COMBINED</b>					
Commodities and Alternative Investments	23	60	-61.7%	12	91.7%
Energy	27,243,609	29,447,822	-7.5%	26,913,688	1.2%
Metals	2,260,701	2,455,992	-8.0%	2,239,501	0.9%
<b>GRAND TOTAL</b>	<b>29,504,333</b>	<b>31,903,874</b>	<b>-7.5%</b>	<b>29,153,201</b>	<b>1.2%</b>