

NYMEX/COMEX Exchange Open Interest Report - Monthly

	Commodity	Open Interest NOV 2016	Open Interest NOV 2015	% CHG	Open Interest OCT 2016	% CHG
Commodities and Alternative Investments Futures						
COCOA TAS	CJ	7	72	-90.3%	25	-72.0%
COFFEE	KT	1	8	-87.5%	5	-80.0%
COTTON	TT	3	4	-25.0%	11	-72.7%
SUGAR 11	YO	1	19	-94.7%	0	0.0%
Energy Futures						
CRUDE OIL PHY	CL	2,104,270	1,655,962	27.1%	1,880,253	11.9%
CRUDE OIL	WS	1,471	7,201	-79.6%	5,361	-72.6%
MINY WTI CRUDE OIL	QM	6,177	5,480	12.7%	5,697	8.4%
BRENT OIL LAST DAY	BZ	109,250	167,581	-34.8%	123,994	-11.9%
HEATING OIL PHY	HO	392,740	350,425	12.1%	402,501	-2.4%
HTG OIL	BH	1,552	216	618.5%	2,004	-22.6%
MINY HTG OIL	QH	0	1	-100.0%	0	0.0%
RBOB PHY	RB	368,684	363,996	1.3%	395,571	-6.8%
MINY RBOB GAS	QU	0	0	0.0%	0	0.0%
NATURAL GAS	HP	107,510	92,959	15.7%	108,477	-0.9%
LTD NAT GAS	HH	296,075	313,546	-5.6%	281,617	5.1%
MINY NATURAL GAS	QG	2,648	2,685	-1.4%	2,794	-5.2%
PJM MONTHLY	JM	5,162	10,250	-49.6%	5,702	-9.5%
NATURAL GAS PHY	NG	1,157,192	1,008,247	14.8%	1,139,762	1.5%
RBOB GAS	RT	882	594	48.5%	2,749	-67.9%
3.5% FUEL OIL CID MED SWA	7D	800	153	422.9%	705	13.5%
3.5% FUEL OIL CIF BALMO S	8D	30	10	200.0%	67	-55.2%
AEP-DAYTON HUB DAILY	VD	258	303	-14.9%	272	-5.1%
AEP-DAYTON HUB MTHLY	VM	974	2,068	-52.9%	1,051	-7.3%
AEP-DAYTON HUB OFF-PEAK M	VP	734	2,124	-65.4%	801	-8.4%
ALGON CITY GATES NAT GAS	N7	3,040	0	-	3,164	-3.9%
ALGONQUIN CITYGATES BASIS	B4	3,131	450	595.8%	3,823	-18.1%
ANR LOUISIANA BASIS SWAP	ND	121	856	-85.9%	0	-
ANR OKLAHOMA	NE	3,811	6,925	-45.0%	3,931	-3.1%
APPALACHIAN COAL (PHY)	QL	0	120	-100.0%	5	-100.0%
ARGUS LLS VS. WTI (ARG) T	E5	12,294	18,298	-32.8%	11,523	6.7%
ARGUS PROPAN FAR EST INDE	7E	2,079	1,044	99.1%	2,178	-4.5%
ARGUS PROPAN(SAUDI ARAMCO	9N	571	674	-15.3%	799	-28.5%
AUSTRIALIAN COKE COAL	ALW	968	567	70.7%	912	6.1%
BRENT BALMO SWAP	J9	76	0	-	682	-88.9%
BRENT CALENDAR SWAP	CY	14,122	21,170	-33.3%	14,953	-5.6%
BRENT CFD(PLATTS) VS FRNT	1C	0	0	-	0	-
BRENT CFD SWAP	6W	0	0	-	0	-
BRENT FINANCIAL FUTURES	BB	941	5,734	-83.6%	6,204	-84.8%
BRENT FINANCIAL FUTURES	MBC	0	33	-100.0%	0	-
BRENT FINANCIAL FUTURES	MDB	700	120	483.3%	1,050	-33.3%
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	16,890	0	-	17,930	-5.8%
CAISO SP15 EZGNHUB5 PEAK	9Z	1,040	0	-	0	-
CANADIAN LIGHT SWEET OIL	CIL	10,140	6,021	68.4%	10,456	-3.0%
CARBON EUA EMISSIONS EURO	RC	0	0	-	0	-
CENTERPOINT BASIS SWAP	PW	20,939	16,390	27.8%	22,073	-5.1%
CENTERPOINT EAST INDEX	II	0	0	-	124	-100.0%
CENTER POINT NAT GAS FIXED PRICE	DAC	0	8	-100.0%	0	-

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Energy Futures						
CHICAGO ETHANOL SWAP	CU	58,744	40,803	44.0%	57,853	1.5%
CHICAGO ULSD (PLATTS) SWA	4C	6	47	-87.2%	9	-33.3%
CHICAGO ULSD PL VS HO SPR	5C	1,238	1,828	-32.3%	1,455	-14.9%
CHICAGO UNL GAS PL VS RBO	3C	42	78	-46.2%	180	-76.7%
CIG BASIS	CI	51,730	17,448	196.5%	52,641	-1.7%
CIG ROCKIES NG INDEX SWA	Z8	0	0	-	0	-
CINERGY HUB OFF-PEAK MONT	EJ	248	826	-70.0%	312	-20.5%
CINERGY HUB PEAK MONTH	EM	316	644	-50.9%	330	-4.2%
CIN HUB 5MW D AH O PK	K2	257,800	303,240	-15.0%	247,784	4.0%
CIN HUB 5MW D AH PK	H5	17,546	18,391	-4.6%	18,130	-3.2%
CIN HUB 5MW REAL TIME O P	H4	545,056	757,648	-28.1%	575,248	-5.2%
CIN HUB 5MW REAL TIME PK	H3	45,015	26,680	68.7%	45,605	-1.3%
COAL SWAP	ACM	343	490	-30.0%	398	-13.8%
COAL SWAP	SSI	20	409	-95.1%	30	-33.3%
COLUMB GULF MAINLINE NG B	5Z	21,754	39,344	-44.7%	23,192	-6.2%
COLUMBIA GULF MAIN NAT G	L2	0	1,829	-100.0%	372	-100.0%
COLUMBIA GULF NAT GAS FIXED PRICE	DCE	0	0	-	0	-
COLUMBIA GULF ONSHORE	GL	17,713	29,419	-39.8%	18,253	-3.0%
CONWAY NATURAL GASOLINE (OPIS) SWAP	8L	587	335	75.2%	740	-20.7%
CONWAY NORMAL BUTANE (OPIS) SWAP	8M	1,291	795	62.4%	1,430	-9.7%
CONWAY PROPANE 5 DECIMALS SWAP	8K	17,606	12,953	35.9%	16,855	4.5%
CRUDE OIL	CHB	0	0	-	0	-
CRUDE OIL	LPS	20,740	9,650	114.9%	20,474	1.3%
CRUDE OIL LAST DAY	26	0	0	-	0	-
CRUDE OIL OUTRIGHTS	37	0	0	-	0	-
CRUDE OIL OUTRIGHTS	42	30	89	-66.3%	0	-
CRUDE OIL OUTRIGHTS	CSW	1,690	0	-	1,230	37.4%
CRUDE OIL OUTRIGHTS	DBL	0	4,285	-100.0%	200	-100.0%
CRUDE OIL OUTRIGHTS	FE	0	0	-	0	-
CRUDE OIL OUTRIGHTS	GSW	80	0	-	0	-
CRUDE OIL OUTRIGHTS	HTT	9,395	0	-	10,340	-9.1%
CRUDE OIL OUTRIGHTS	WCC	10,820	14,520	-25.5%	11,615	-6.8%
CRUDE OIL PHY	CLL	0	0	0.0%	0	0.0%
CRUDE OIL SPRDS	38	250	200	25.0%	250	0.0%
CRUDE OIL SPRDS	KE	0	0	-	0	-
CRUDE OIL SPRDS	WTT	24,465	5,088	380.8%	21,155	15.6%
CRUDE OIL TRADE AT MARKER SINGAPORE	CLS	0	0	0.0%	0	0.0%
DAILY PJM	AOR	14,160	31,752	-55.4%	10,368	36.6%
DAILY PJM	IDO	15,416	27,512	-44.0%	15,136	1.8%
DAILY PJM	NOC	21,720	12,432	74.7%	17,376	25.0%
DAILY PJM	PAP	780	1,651	-52.8%	780	0.0%
DAILY PJM	PEO	13,000	36,928	-64.8%	12,265	6.0%
DAILY PJM	PNO	37,888	23,224	63.1%	35,860	5.7%
DAILY PJM	PNP	1,953	996	96.1%	2,134	-8.5%
DAILY PJM	PWO	72,280	27,544	162.4%	63,987	13.0%
DAILY PJM	PWP	3,094	1,344	130.2%	2,974	4.0%
DAILY PJM	WOR	59,280	34,440	72.1%	46,464	27.6%
DAILY PJM	ZAO	24,440	34,600	-29.4%	23,815	2.6%
DAILY PJM	ZGO	17,000	37,776	-55.0%	29,260	-41.9%
DAILY PJM	ZJO	8,760	12,144	-27.9%	23,540	-62.8%
DATED BRENT (PLATTS) DAILY SWAP	7G	0	0	-	0	-
DATED TO FRONTLINE BRENT	FY	16,495	11,917	38.4%	11,900	38.6%
DEMARC INDEX FUTURE	DI	0	0	-	0	-

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Energy Futures						
DEMARCO SWING SWAP	DT	0	0	-	8	-100.0%
DIESEL 10P BRG FOB RDM VS	7X	0	0	-	0	-
DIESEL 10PPM BARGES FOB B	U7	0	0	-	0	-
DIESEL10PPM BARG VS ICE LS	LSE	0	0	-	0	-
DLY GAS EURO-BOB OXY	GBR	0	0	-	0	-
DOMINION TRAN INC - APP I	IH	4,511	2,561	76.1%	5,534	-18.5%
DOMINION TRANSMISSION INC	PG	59,888	30,119	98.8%	61,219	-2.2%
DUBAI CRUDE OIL BALMO	BI	0	0	-	0	-
DUBAI CRUDE OIL CALENDAR	DC	6,167	8,090	-23.8%	2,989	106.3%
DY EURO 3.5% FUEL OI RDA	FOR	0	0	-	0	-
EASTERN RAIL DELIVERY CSX	QX	2,400	3,128	-23.3%	2,755	-12.9%
EAST/WEST FUEL OIL SPREAD	EW	159	925	-82.8%	170	-6.5%
EIA FLAT TAX ONHWAY DIESE	A5	4,163	4,473	-6.9%	4,875	-14.6%
ELEC ERCOT DLY OFF PK	R4	0	3,696	-100.0%	0	-
ELEC ERCOT DLY PEAK	I7	42	186	-77.4%	42	0.0%
ELEC ERCOT DLY PEAK	I9	0	0	-	0	-
ELEC ERCOT DLY PEAK	N1	0	689	-100.0%	0	-
ELEC ERCOT DLY PEAK	R1	0	132	-100.0%	0	-
ELEC ERCOT OFF PEAK	ERU	0	0	-	0	-
ELEC ERCOT OFF PEAK	O1	0	8,624	-100.0%	0	-
ELEC FINSETTLED	47	2,804	1,576	77.9%	2,804	0.0%
ELEC FINSETTLED	49	210	1,275	-83.5%	315	-33.3%
ELEC MISO PEAK	4L	210	1,531	-86.3%	315	-33.3%
ELEC MISO PEAK	55	1,184	2,036	-41.8%	1,268	-6.6%
ELEC NYISO OFF-PEAK	4M	3,965	28,156	-85.9%	6,005	-34.0%
ELEC NYISO OFF-PEAK	58	21,956	37,600	-41.6%	23,588	-6.9%
ELECTRICITY ERCOT PEAK	ERE	0	0	-	0	-
ELECTRICITY OFF PEAK	46	51,544	28,857	78.6%	51,544	0.0%
ELECTRICITY OFF PEAK	4P	0	1,586	-100.0%	0	-
ELECTRICITY OFF PEAK	50	3,965	23,520	-83.1%	6,005	-34.0%
ELEC WEST POWER OFF-PEAK	MDA	0	0	-	400	-100.0%
ELEC WEST POWER PEAK	MDC	5,390	0	-	5,390	0.0%
EL PASO PERMIAN INDEX SWA	IL	0	0	-	0	-
EMMISSIONS	CPL	0	250	-100.0%	0	-
ERCOT NORTH ZMCPE 5MW OFFPEAK	I8	600	2,520	-76.2%	480	25.0%
ERCOT NORTH ZMCPE 5MW OFFPEAK SWAP	I6	2,040	29,400	-93.1%	3,965	-48.5%
ERCOT NORTH ZMCPE 5MW PEAK	I5	147	2,672	-94.5%	294	-50.0%
ETHANOL T2 FOB ROTT INCL DUTY SWAP	Z1	3,601	3,049	18.1%	2,501	44.0%
EU LOW SULPHUR GASOIL CRACK	LSC	0	0	-	0	-
EURO 1% FUEL OIL NEW BALM	KX	10	15	-33.3%	5	100.0%
EURO 3.5% FUEL OIL M CRK	FL	0	0	-	0	-
EURO 3.5% FUEL OIL RDM B	KR	345	308	12.0%	294	17.3%
EURO 3.5% FUEL OIL SPREAD	FK	3,070	1,440	113.2%	832	269.0%
EURO-DENOMINATED PETRO PROD	IBE	0	0	-	0	-
EURO-DENOMINATED PETRO PROD	MFE	0	0	-	0	-
EURO-DENOMINATED PETRO PROD	NCP	198	250	-20.8%	0	-
EURO GASOIL 10 CAL SWAP	GT	0	5	-100.0%	0	-
EURO GASOIL 10PPM VS ICE	ET	295	761	-61.2%	380	-22.4%
EUROPE 1% FUEL OIL NWE CA	UF	422	326	29.4%	549	-23.1%
EUROPE 1% FUEL OIL RDM C	UH	34	86	-60.5%	51	-33.3%
EUROPE 3.5% FUEL OIL MED	UI	1,012	277	265.3%	751	34.8%
EUROPE 3.5% FUEL OIL RDM	UV	12,074	9,503	27.1%	10,600	13.9%
EUROPEAN GASOIL (ICE)	7F	3,179	3,890	-18.3%	3,289	-3.3%

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Energy Futures						
EUROPEAN NAPHTHA BALMO	KZ	273	46	493.5%	247	10.5%
EUROPEAN NAPHTHA CRACK SPR	EN	11,815	11,354	4.1%	10,169	16.2%
EUROPE DATED BRENT SWAP	UB	840	11,926	-93.0%	1,150	-27.0%
EUROPE JET KERO NWE CALSW	UJ	6	17	-64.7%	9	-33.3%
EUROPE NAPHTHA CALSWAP	UN	1,954	1,012	93.1%	1,966	-0.6%
EURO PROPANE CIF ARA SWA	PS	1,940	932	108.2%	1,776	9.2%
FL GAS ZONE 3 NAT GAS IND	Q9	0	0	-	1,860	-100.0%
FLORIDA GAS ZONE3 BASIS S	FP	3,506	3,814	-8.1%	4,286	-18.2%
FREIGHT MARKETS	FLP	1,315	408	222.3%	1,167	12.7%
FREIGHT MARKETS	FRC	0	0	-	0	-
FUEL OIL CRACK VS ICE	FO	19,666	17,086	15.1%	20,183	-2.6%
FUEL OIL NWE CRACK VS ICE	FI	38	258	-85.3%	57	-33.3%
FUEL OIL (PLATS) CAR CM	1W	441	82	437.8%	646	-31.7%
FUEL OIL (PLATS) CAR CN	1X	24	82	-70.7%	36	-33.3%
FUELOIL SWAP:CARGOES VS.B	FS	1,108	1,432	-22.6%	943	17.5%
GAS EURO-BOB OXY NWE BARGES	7H	5,285	5,507	-4.0%	5,081	4.0%
GAS EURO-BOB OXY NWE BARGES CRK	7K	23,902	33,763	-29.2%	22,141	8.0%
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	20	50	-60.0%	0	-
GASOIL 0.1CIF MED VS ICE	Z5	80	89	-10.1%	85	-5.9%
GASOIL 0.1 CIF NWE VS ISE	TU	30	0	-	35	-14.3%
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	49	107	-54.2%	51	-3.9%
GASOIL 0.1 ROTTERDAM BARG	VL	20	0	-	30	-33.3%
GASOIL 10P CRG CIF NW VS	3V	0	0	-	0	-
GASOIL 10PPM CARGOES CIF	TY	0	15	-100.0%	0	-
GASOIL 10PPM VS ICE SWAP	TP	639	196	226.0%	652	-2.0%
GASOIL BULLET SWAP	BG	0	0	-	0	-
GASOIL CALENDAR SWAP	GX	96	33	190.9%	115	-16.5%
GASOIL CRACK SPREAD CALEN	GZ	13,316	9,877	34.8%	12,595	5.7%
GASOIL MINI CALENDAR SWAP	QA	550	1,228	-55.2%	602	-8.6%
GASOLINE UP-DOWN (ARGUS)	UZ	0	0	-	0	-
GASOLINE UP-DOWN BALMO SW	1K	0	235	-100.0%	0	-
GC ULSD VS GC JET SPREAD	VV	0	0	-	0	-
GROUP THREE ULSD (PLATTS)	A7	300	0	-	300	0.0%
GRP THREE ULSD(PLT)VS HEA	A6	5,840	5,610	4.1%	7,067	-17.4%
GRP THREE UNL GS (PLT) VS	A8	4,829	4,699	2.8%	5,009	-3.6%
GULF COAST 3% FUEL OIL BA	VZ	1,469	833	76.4%	593	147.7%
GULF COAST GASOLINE CLNDR	GS	0	902	-100.0%	0	-
GULF COAST JET FUEL CLNDR	GE	1,301	1,391	-6.5%	1,260	3.3%
GULF COAST JET VS NYM 2 H	ME	36,224	33,401	8.5%	38,907	-6.9%
GULF COAST NO.6 FUEL OIL	MF	57,462	64,129	-10.4%	56,341	2.0%
GULF COAST NO.6 FUEL OIL	MG	5,272	8,701	-39.4%	5,112	3.1%
GULF COAST ULSD CALENDAR	LY	3,926	4,705	-16.6%	4,470	-12.2%
GULF COAST ULSD CRACK SPR	GY	3,777	9,117	-58.6%	4,299	-12.1%
HEATING OIL BALMO CLNDR S	1G	19	100	-81.0%	125	-84.8%
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	47,005	59,782	-21.4%	53,075	-11.4%

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HENRY HUB INDEX SWAP FUTU	IN	24,027	28,549	-15.8%	27,380	-12.2%
HENRY HUB SWAP	NN	1,331,857	1,480,978	-10.1%	1,355,050	-1.7%
HENRY HUB SWING FUTURE	SN	0	0	-	0	-
HOUSTON SHIP CHANNEL BASI	NH	25,526	22,815	11.9%	26,666	-4.3%
HOUSTON SHIP CHANNEL INDE	IP	0	0	-	0	-
HUSTN SHIP CHNL PIPE SWP	XJ	3,425	3,587	-4.5%	3,425	0.0%
ICE BRENT DUBAI SWAP	DB	22,011	1,055	1,986.4%	15,923	38.2%
ICE GASOIL BALMO SWAP	U9	0	0	-	0	-
IN DELIVERY MONTH EUA	6T	49,000	84,537	-42.0%	48,650	0.7%
INDIANA MISO	FAD	17,424	12,320	41.4%	15,840	10.0%
INDIANA MISO	FDM	0	0	-	0	-
INDIANA MISO	FTD	8,160	8,904	-8.4%	6,528	25.0%
INDIANA MISO	FTM	7,930	62,900	-87.4%	12,010	-34.0%
INDIANA MISO	PDD	909	396	129.5%	1,074	-15.4%
INDIANA MISO	PDM	0	1,946	-100.0%	0	-
INDIANA MISO	PTD	357	336	6.3%	306	16.7%
INDIANA MISO	PTM	0	1,050	-100.0%	0	-
INDONESIAN COAL	MCC	5	255	-98.0%	15	-66.7%
ISO NEW ENGLAND OFF-PEAK	KI	244	744	-67.2%	282	-13.5%
ISO NEW ENGLAND PK LMP	NI	294	856	-65.7%	329	-10.6%
JAPAN C&F NAPHTHA CRACK S	JB	708	682	3.8%	1,042	-32.1%
JAPAN C&F NAPHTHA SWAP	JA	1,565	1,626	-3.8%	1,487	5.2%
JAPAN NAPHTHA BALMO SWAP	E6	30	0	-	5	500.0%
JET AV FUEL (P) CAR FM ICE GAS SWAP	1V	57	66	-13.6%	81	-29.6%
JET BARGES VS ICE GASOIL	JR	0	15	-100.0%	0	-
JET CIF NWE VS ICE	JC	377	338	11.5%	461	-18.2%
JET FUEL BRG FOB RDM VS I	9Q	0	0	-	0	-
JET FUEL CARGOES CIF NEW	F3	0	0	-	0	-
JET FUEL CRG CIF NEW VS I	6X	0	0	-	0	-
JET FUEL UP-DOWN BALMO CL	1M	5,950	6,300	-5.6%	6,880	-13.5%
LA CARB DIESEL (OPIS)	LX	104	208	-50.0%	117	-11.1%
LA CARB DIESEL (OPIS) SWA	KL	550	499	10.2%	815	-32.5%
LA CARBOB GASOLINE(OPIS)S	JL	0	225	-100.0%	50	-100.0%
LA JET FUEL VS NYM NO 2 H	MQ	130	220	-40.9%	300	-56.7%
LA JET (OPIS) SWAP	JS	1,630	1,090	49.5%	2,060	-20.9%
LLS (ARGUS) CALENDAR SWAP	XA	0	0	-	0	-
LLS (ARGUS) VS WTI SWAP	WJ	29,617	54,217	-45.4%	32,071	-7.7%
MARS (ARGUS) VS WTI SWAP	YX	13,388	18,246	-26.6%	11,314	18.3%
MARS (ARGUS) VS WTI TRD M	YV	15,447	2,443	532.3%	17,929	-13.8%
MARS BLEND CRUDE OIL	MB	2,706	0	-	1,550	74.6%
MCCLOSKEY ARA ARGS COAL	MTF	77,596	152,500	-49.1%	87,715	-11.5%
MCCLOSKEY RCH BAY COAL	MFF	16,042	43,159	-62.8%	20,122	-20.3%
MGF FUT	MGF	0	55	-100.0%	0	-
MGN1 SWAP FUT	MGN	481	486	-1.0%	581	-17.2%
MICHCON NG INDEX SWAP	Y8	360	0	-	980	-63.3%
MICHIGAN BASIS	NF	15,305	6,998	118.7%	15,761	-2.9%
MICHIGAN HUB OFF-PEAK MON	HJ	0	0	-	0	-
MICHIGAN HUB PEAK MONTH S	HM	0	0	-	0	-
MICHIGAN MISO	HMO	167,664	146,504	14.4%	176,640	-5.1%
MICHIGAN MISO	HMW	11,594	10,461	10.8%	12,056	-3.8%
MINI GAS EUROBOB OXY NWE ARGS BALMO	MEB	488	128	281.3%	387	26.1%
MINI RBOB V. EBOBARG NWE BRGS BALMO	MXR	1,375	280	391.1%	220	525.0%
MINI RBOB V. EBOB(ARGUS) NWE BRGS	MXB	2,983	1,062	180.9%	3,230	-7.6%

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Energy Futures						
MISO 5MW OFF PEAK	4R	0	0	-	0	-
MISO 5MW PEAK	4Q	0	0	-	0	-
MJB FUT	MJB	0	0	-	0	-
MJC FUT	MJC	325	220	47.7%	428	-24.1%
MNC FUT	MNC	4,574	5,567	-17.8%	3,246	40.9%
MONT BELVIEU ETHANE 5 DECIMAL	C0	105,409	23,099	356.3%	100,182	5.2%
MONT BELVIEU ETHANE OPIS BALMO	8C	75	0	-	420	-82.1%
MONT BELVIEU LDH PROPANE 5 DECIMAL	B0	144,047	89,813	60.4%	140,296	2.7%
MONT BELVIEU LDH PROPANE OPIS BALMO	8O	603	675	-10.7%	1,489	-59.5%
MONT BELVIEU NATURAL GASOLINE 5 DEC	7Q	16,755	9,032	85.5%	17,125	-2.2%
MONT BELVIEU NATURAL GASOLINE BALMO	R0	20	90	-77.8%	25	-20.0%
MONT BELVIEU NORMAL BUTANE 5 DECIMAL	D0	37,635	33,618	11.9%	37,334	0.8%
MONT BELVIEU NORMAL BUTANE BALMO	8J	337	202	66.8%	268	25.7%
NAT GAS BASIS SWAP	SGW	0	0	-	0	-
NAT GAS BASIS SWAP	TZ6	13,763	3,118	341.4%	13,204	4.2%
NATURAL GAS	HBI	0	0	-	0	0.0%
NATURAL GAS	XAC	0	0	-	0	-
NATURAL GAS	XSC	0	0	-	0	-
NATURAL GAS FIXED PRICE SWAP FUTURES	CFS	124	1,960	-93.7%	244	-49.2%
NATURAL GAS FIXED PRICE SWAP FUTURES	DSF	1,924	5,548	-65.3%	2,224	-13.5%
NATURAL GAS FIXED PRICE SWAP FUTURES	MFS	124	1,464	-91.5%	244	-49.2%
NATURAL GAS FIXED PRICE SWAP FUTURES	PFS	22	323	-93.2%	44	-50.0%
NATURAL GAS FIXED PRICE SWAP FUTURES	WFS	28	391	-92.8%	55	-49.1%
NATURAL GAS FIXED PRICE SWAP FUTURES	Z5P	0	114	-100.0%	0	-
NATURAL GAS FIXED PRICE SWAP FUTURES	ZTS	4	48	-91.7%	8	-50.0%
NATURAL GAS INDEX	TZI	2,668	0	-	2,668	0.0%
NATURAL GAS PEN SWP	NP	292,150	343,780	-15.0%	282,753	3.3%
NEPOOL CNCTCT 5MW D AH O	P3	8,661	6,282	37.9%	10,701	-19.1%
NEPOOL CONECTIC 5MW D AH	P2	464	338	37.3%	569	-18.5%
NEPOOL INTR HUB 5MW D AH	H2	580,360	382,296	51.8%	563,502	3.0%
NEPOOL INTR HUB 5MW D AH	U6	38,667	18,692	106.9%	39,357	-1.8%
NEPOOL MAINE 5MW D AH O E	W2	0	0	-	0	-
NEPOOL MAINE 5MW D AH PK	P9	0	0	-	0	-
NEPOOL NE MASS 5MW D AH O	P8	0	3,172	-100.0%	0	-
NEPOOL NE MASS 5MW D AH P	P7	0	168	-100.0%	105	-100.0%
NEPOOL NEW HAMP 5MW D AH	U2	0	84	-100.0%	0	-
NEPOOL NEW HAMP 5MW D AH	U3	0	1,586	-100.0%	0	-
NEPOOL RHD ISLD 5MW D AH	U4	2,936	13,713	-78.6%	3,545	-17.2%
NEPOOL RHODE IL 5MW D AH	U5	48,871	193,461	-74.7%	57,847	-15.5%
NEPOOL SE MASS 5MW D AH O	P5	0	793	-100.0%	0	-
NEPOOL SE MASS 5MW D AH P	P4	0	42	-100.0%	0	-
NEPOOL W CNT MASS 5MW D A	L9	12,564	43,728	-71.3%	14,196	-11.5%
NEPOOL W CNTR M 5MW D AH	R6	1,348	2,643	-49.0%	1,558	-13.5%
NEW ENGLAND HUB PEAK DAIL	CE	1,440	2,673	-46.1%	1,550	-7.1%
NEW YORK ETHANOL SWAP	EZ	2,600	2,290	13.5%	2,430	7.0%
NEW YORK HUB ZONE G PEAK	GN	3,546	1,617	119.3%	2,386	48.6%
NEW YORK HUB ZONE J PEAK	JN	2,257	759	197.4%	1,312	72.0%
NGPL MID-CONTINENT	NL	34,840	38,863	-10.4%	35,207	-1.0%
NGPL MIDCONTINENT INDEX	IW	180	0	-	1,048	-82.8%
NGPL MIDCONTINENT SWING S	PX	0	0	-	0	-
NGPL TEX/OK	PD	40,651	68,075	-40.3%	43,087	-5.7%
NGPL TEXOK INDEX	OI	0	480	-100.0%	0	-
NGPL TEXOK SWING SWAP	OX	0	0	-	0	-

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Energy Futures						
N ILLINOIS HUB DAILY	UD	198	123	61.0%	178	11.2%
N ILLINOIS HUB MTHLY	UM	280	712	-60.7%	300	-6.7%
NO 2 UP-DOWN SPREAD CALEN	UT	278	1,104	-74.8%	187	48.7%
NORTHERN NATURAL GAS DEMAR	PE	3,521	2,702	30.3%	3,613	-2.5%
NORTHERN NATURAL GAS VENTU	PF	5,925	2,689	120.3%	6,320	-6.2%
NORTHERN ILLINOIS OFF-PEA	UO	160	1,238	-87.1%	240	-33.3%
NORTHWEST ROCKIES BASIS S	NR	78,129	56,077	39.3%	78,142	0.0%
N ROCKIES PIPE SWAP	XR	608	790	-23.0%	668	-9.0%
NY1% VS GC SPREAD SWAP	VR	5,214	6,235	-16.4%	4,926	5.8%
NY 2.2% FUEL OIL (PLATTS	Y3	300	640	-53.1%	300	0.0%
NY 3.0% FUEL OIL (PLATTS	H1	775	1,525	-49.2%	750	3.3%
NY HARBOR 1% FUEL OIL BAL	VK	0	34	-100.0%	0	-
NY HARBOR HEAT OIL SWP	MP	11,884	18,111	-34.4%	11,706	1.5%
NY HARBOR LOW SULPUR GAS 1000MBBL	NLS	1,856	1,075	72.7%	2,206	-15.9%
NY HARBOR LOW SULPUR GASOIL 1000MT	SLS	0	0	-	0	-
NY HARBOR RESIDUAL FUEL 1	MM	7,143	7,433	-3.9%	7,158	-0.2%
NY HARBOR RESIDUAL FUEL C	ML	0	0	-	0	-
NYH NO 2 CRACK SPREAD CAL	HK	12,418	15,123	-17.9%	13,621	-8.8%
NY H OIL PLATTS VS NYMEX	YH	0	38	-100.0%	0	-
NYISO A	KA	840	6,130	-86.3%	1,260	-33.3%
NYISO A OFF-PEAK	KB	270	1,942	-86.1%	400	-32.5%
NYISO CAPACITY	LHV	290	0	-	168	72.6%
NYISO CAPACITY	NNC	1,706	2,224	-23.3%	1,796	-5.0%
NYISO CAPACITY	NRS	2,044	3,358	-39.1%	2,106	-2.9%
NYISO G	KG	84	1,265	-93.4%	126	-33.3%
NYISO G OFF-PEAK	KH	40	482	-91.7%	60	-33.3%
NYISO J	KJ	2,243	6,410	-65.0%	2,600	-13.7%
NYISO J OFF-PEAK	KK	444	1,014	-56.2%	496	-10.5%
NYISO ZONE A 5MW D AH O P	K4	164,280	362,480	-54.7%	183,456	-10.5%
NYISO ZONE A 5MW D AH PK	K3	7,335	17,017	-56.9%	9,702	-24.4%
NYISO ZONE C 5MW D AH O P	A3	18,239	25,106	-27.4%	27,623	-34.0%
NYISO ZONE C 5MW D AH PK	Q5	966	1,359	-28.9%	1,449	-33.3%
NYISO ZONE G 5MW D AH O P	D2	302,176	220,750	36.9%	303,200	-0.3%
NYISO ZONE G 5MW D AH PK	T3	18,557	21,829	-15.0%	20,219	-8.2%
NYISO ZONE J 5MW D AH O P	D4	193,096	58,994	227.3%	156,536	23.4%
NYISO ZONE J 5MW D AH PK	D3	11,832	9,429	25.5%	12,778	-7.4%
NY JET FUEL (ARGUS) VS HEATING OIL	5U	0	0	-	0	-
NY JET FUEL (PLATTS) HEAT OIL SWAP	1U	0	50	-100.0%	0	-
NYMEX ALUMINUM FUTURES	AN	1,549	2,409	-35.7%	1,531	1.2%
NYMEX ULSD VS NYMEX HO	UY	60	1,051	-94.3%	90	-33.3%
NY ULSD (ARGUS) VS HEATING OIL	7Y	5,081	5,093	-0.2%	5,071	0.2%
ONEOK OKLAHOMA NG BASIS	8X	2,323	2,932	-20.8%	2,361	-1.6%
ONTARIO POWER SWAPS	OFD	2,760	2,352	17.3%	2,208	25.0%
ONTARIO POWER SWAPS	OFM	56,344	181,331	-68.9%	65,199	-13.6%
ONTARIO POWER SWAPS	OPD	130	216	-39.8%	155	-16.1%
ONTARIO POWER SWAPS	OPM	1,690	8,120	-79.2%	2,110	-19.9%
PANHANDLE BASIS SWAP FUTU	PH	44,453	49,783	-10.7%	46,129	-3.6%
PANHANDLE INDEX SWAP FUTU	IV	0	496	-100.0%	992	-100.0%
PANHANDLE PIPE SWAP	XH	0	0	-	0	-
PERMIAN BASIS SWAP	PM	22,429	10,961	104.6%	22,720	-1.3%
PETROCHEMICALS	22	77	39	97.4%	47	63.8%
PETROCHEMICALS	32	60	37	62.2%	63	-4.8%
PETROCHEMICALS	51	0	0	-	0	-

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Energy Futures					
PETROCHEMICALS 81	0	0	-	0	-
PETROCHEMICALS 8I	1,979	2,972	-33.4%	2,113	-6.3%
PETROCHEMICALS 91	371	59	528.8%	436	-14.9%
PETROCHEMICALS HPE	8	50	-84.0%	12	-33.3%
PETROCHEMICALS LPE	0	40	-100.0%	0	-
PETROCHEMICALS MAC	0	0	-	0	-
PETROCHEMICALS MAE	80	30	166.7%	90	-11.1%
PETROCHEMICALS MAS	20	71	-71.8%	60	-66.7%
PETROCHEMICALS MBE	2,785	3,573	-22.1%	2,775	0.4%
PETROCHEMICALS MNB	3,575	1,766	102.4%	4,262	-16.1%
PETRO CRCKS & SPRDS ASIA STI	0	462	-100.0%	0	-
PETRO CRCKS & SPRDS ASIA STR	0	380	-100.0%	0	-
PETRO CRCKS & SPRDS ASIA STS	190	52	265.4%	60	216.7%
PETRO CRCKS & SPRDS NA CBA	0	0	-	0	-
PETRO CRCKS & SPRDS NA CRB	453	1,162	-61.0%	556	-18.5%
PETRO CRCKS & SPRDS NA EXR	2,506	921	172.1%	1,849	35.5%
PETRO CRCKS & SPRDS NA FOC	2,940	2,025	45.2%	2,865	2.6%
PETRO CRCKS & SPRDS NA GBB	250	0	-	300	-16.7%
PETRO CRCKS & SPRDS NA GCC	675	0	-	525	28.6%
PETRO CRCKS & SPRDS NA GCI	3,912	3,587	9.1%	4,097	-4.5%
PETRO CRCKS & SPRDS NA GCM	0	0	-	31	-100.0%
PETRO CRCKS & SPRDS NA GCU	23,301	29,282	-20.4%	23,431	-0.6%
PETRO CRCKS & SPRDS NA GFC	250	0	-	0	-
PETRO CRCKS & SPRDS NA HOB	13,198	13,434	-1.8%	13,519	-2.4%
PETRO CRCKS & SPRDS NA KSD	0	390	-100.0%	0	-
PETRO CRCKS & SPRDS NA MFR	0	0	-	0	-
PETRO CRCKS & SPRDS NA NFC	0	0	-	0	-
PETRO CRCKS & SPRDS NA NFG	0	0	-	220	-100.0%
PETRO CRCKS & SPRDS NA NYF	350	1,025	-65.9%	375	-6.7%
PETRO CRCKS & SPRDS NA NYH	450	0	-	450	0.0%
PETRO CRCKS & SPRDS NA RBB	22,920	21,167	8.3%	24,924	-8.0%
PETRO CRCKS & SPRDS NA RVG	15,431	750	1,957.5%	14,928	3.4%
PETRO CRCKS & SPRDS NA SF3	30	0	-	0	-
PETRO CRK&SPRD EURO 1NB	3,568	3,391	5.2%	4,116	-13.3%
PETRO CRK&SPRD EURO 1ND	0	0	-	0	-
PETRO CRK&SPRD EURO 43	7	49	-85.7%	607	-98.8%
PETRO CRK&SPRD EURO BFR	10	120	-91.7%	15	-33.3%
PETRO CRK&SPRD EURO BOB	5,523	4,527	22.0%	5,182	6.6%
PETRO CRK&SPRD EURO EBF	0	0	-	0	-
PETRO CRK&SPRD EURO EOB	35	90	-61.1%	39	-10.3%
PETRO CRK&SPRD EURO EPN	632	164	285.4%	697	-9.3%
PETRO CRK&SPRD EURO EVC	6,721	3,426	96.2%	5,588	20.3%
PETRO CRK&SPRD EURO FBT	0	230	-100.0%	0	-
PETRO CRK&SPRD EURO FVB	0	27	-100.0%	0	-
PETRO CRK&SPRD EURO GCB	0	0	-	345	-100.0%
PETRO CRK&SPRD EURO GOC	130	190	-31.6%	111	17.1%
PETRO CRK&SPRD EURO GRB	0	0	-	0	-
PETRO CRK&SPRD EURO GRS	0	0	-	0	-
PETRO CRK&SPRD EURO LSU	0	0	-	0	-
PETRO CRK&SPRD EURO MGB	62	183	-66.1%	73	-15.1%
PETRO CRK&SPRD EURO MUD	273	250	9.2%	298	-8.4%
PETRO CRK&SPRD EURO NBB	0	0	-	10	-100.0%
PETRO CRK&SPRD EURO NOB	1,199	725	65.4%	1,144	4.8%

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Energy Futures						
PETRO CRK&SPRD EURO	NYG	0	0	-	0	-
PETRO CRK&SPRD EURO	SFB	0	0	-	50	-100.0%
PETRO CRK&SPRD EURO	SFC	0	0	-	0	-
PETROLEUM PRODUCTS	D43	0	0	-	0	-
PETROLEUM PRODUCTS	D44	0	0	-	0	-
PETROLEUM PRODUCTS	D45	0	10	-100.0%	0	-
PETROLEUM PRODUCTS	D46	0	0	-	0	-
PETROLEUM PRODUCTS	D63	0	0	-	0	-
PETROLEUM PRODUCTS	D64	0	0	-	0	-
PETROLEUM PRODUCTS	D65	0	0	-	0	-
PETROLEUM PRODUCTS	EWB	0	0	-	0	-
PETROLEUM PRODUCTS	EWG	7,146	0	-	6,167	15.9%
PETROLEUM PRODUCTS	MBS	0	0	-	8	-100.0%
PETROLEUM PRODUCTS	MHE	0	0	-	0	-
PETROLEUM PRODUCTS	MPE	0	0	-	0	-
PETROLEUM PRODUCTS	RMG	0	0	-	0	-
PETROLEUM PRODUCTS	RMK	0	0	-	0	-
PETROLEUM PRODUCTS	VU	129	0	-	1,172	-89.0%
PETROLEUM PRODUCTS ASIA	E6M	0	0	-	0	-
PETROLEUM PRODUCTS ASIA	MJN	2,206	1,995	10.6%	1,620	36.2%
PETRO OUTRIGHT EURO	0A	0	0	-	0	-
PETRO OUTRIGHT EURO	0B	120	100	20.0%	90	33.3%
PETRO OUTRIGHT EURO	0C	20	90	-77.8%	0	-
PETRO OUTRIGHT EURO	0D	9,600	8,607	11.5%	8,281	15.9%
PETRO OUTRIGHT EURO	0E	1,376	575	139.3%	1,160	18.6%
PETRO OUTRIGHT EURO	0F	2,142	1,344	59.4%	1,966	9.0%
PETRO OUTRIGHT EURO	1T	0	4	-100.0%	0	-
PETRO OUTRIGHT EURO	33	200	278	-28.1%	201	-0.5%
PETRO OUTRIGHT EURO	59	0	0	-	0	-
PETRO OUTRIGHT EURO	5L	266	45	491.1%	240	10.8%
PETRO OUTRIGHT EURO	63	160	128	25.0%	128	25.0%
PETRO OUTRIGHT EURO	6L	0	0	-	0	-
PETRO OUTRIGHT EURO	7I	0	279	-100.0%	97	-100.0%
PETRO OUTRIGHT EURO	7P	0	0	-	0	-
PETRO OUTRIGHT EURO	7R	471	160	194.4%	276	70.7%
PETRO OUTRIGHT EURO	88	0	52	-100.0%	0	-
PETRO OUTRIGHT EURO	CBB	30	0	-	0	-
PETRO OUTRIGHT EURO	CGB	0	0	-	0	-
PETRO OUTRIGHT EURO	CPB	281	52	440.4%	44	538.6%
PETRO OUTRIGHT EURO	EFF	33	10	230.0%	85	-61.2%
PETRO OUTRIGHT EURO	EFM	148	13	1,038.5%	215	-31.2%
PETRO OUTRIGHT EURO	ENS	341	139	145.3%	410	-16.8%
PETRO OUTRIGHT EURO	EWN	423	348	21.6%	398	6.3%
PETRO OUTRIGHT EURO	FBD	20	0	-	0	-
PETRO OUTRIGHT EURO	MBB	0	0	-	0	-
PETRO OUTRIGHT EURO	MBN	3,068	3,485	-12.0%	3,238	-5.3%
PETRO OUTRIGHT EURO	RBF	0	0	-	0	-
PETRO OUTRIGHT EURO	SMU	100	0	-	200	-50.0%
PETRO OUTRIGHT EURO	T0	766	256	199.2%	785	-2.4%
PETRO OUTRIGHT EURO	ULB	0	0	-	0	-
PETRO OUTRIGHT EURO	V0	230	300	-23.3%	180	27.8%
PETRO OUTRIGHT EURO	W0	0	0	-	0	-
PETRO OUTRIGHT EURO	X0	0	30	-100.0%	150	-100.0%

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Energy Futures						
PETRO OUTRIGHT EURO	Y0	0	0	-	0	-
PETRO OUTRIGHT NA	5Y	0	0	-	0	-
PETRO OUTRIGHT NA	DBB	0	0	-	0	-
PETRO OUTRIGHT NA	FCB	64	431	-85.2%	1,244	-94.9%
PETRO OUTRIGHT NA	FOB	0	0	-	0	-
PETRO OUTRIGHT NA	FOM	0	0	-	5	-100.0%
PETRO OUTRIGHT NA	GBA	0	0	-	0	-
PETRO OUTRIGHT NA	GUD	0	0	-	0	-
PETRO OUTRIGHT NA	JE	88	310	-71.6%	126	-30.2%
PETRO OUTRIGHT NA	JET	9,255	2,400	285.6%	10,490	-11.8%
PETRO OUTRIGHT NA	MBL	230	288	-20.1%	161	42.9%
PETRO OUTRIGHT NA	MEN	629	324	94.1%	388	62.1%
PETRO OUTRIGHT NA	MEO	10,170	7,336	38.6%	10,031	1.4%
PETRO OUTRIGHT NA	MFD	101	240	-57.9%	206	-51.0%
PETRO OUTRIGHT NA	MMF	519	266	95.1%	359	44.6%
PETRO OUTRIGHT NA	NYB	0	0	-	0	-
PETRO OUTRIGHT NA	NYT	125	0	-	0	-
PETRO OUTRIGHT NA	XER	0	60	-100.0%	0	-
PGE&E CITYGATE	PC	0	0	-	0	-
PJM AD HUB 5MW REAL TIME	V3	902,607	1,690,924	-46.6%	925,237	-2.4%
PJM AD HUB 5MW REAL TIME	Z9	43,394	76,657	-43.4%	47,440	-8.5%
PJM AEEO DA OFF-PEAK	X1	24,480	80,536	-69.6%	28,152	-13.0%
PJM AEEO DA PEAK	Y1	1,332	4,367	-69.5%	1,521	-12.4%
PJM APS ZONE DA OFF-PEAK	W4	2,379	16,491	-85.6%	3,603	-34.0%
PJM APS ZONE DA PEAK	S4	126	891	-85.9%	189	-33.3%
PJM ATSI ELEC	MOD	41,290	23,400	76.5%	15,640	164.0%
PJM ATSI ELEC	MPD	2,220	1,275	74.1%	845	162.7%
PJM BGE DA OFF-PEAK	R3	35,480	16,784	111.4%	35,888	-1.1%
PJM BGE DA PEAK	E3	1,933	955	102.4%	1,954	-1.1%
PJM COMED 5MW D AH O PK	D9	157,615	97,013	62.5%	182,095	-13.4%
PJM COMED 5MW D AH PK	D8	8,570	7,822	9.6%	9,830	-12.8%
PJM DAILY	JD	692	612	13.1%	704	-1.7%
PJM DAYTON DA OFF-PEAK	R7	117,000	164,520	-28.9%	99,510	17.6%
PJM DAYTON DA PEAK	D7	25,170	14,445	74.2%	27,280	-7.7%
PJM DPL DA OFF-PEAK	E8	0	0	-	0	-
PJM DPL DA PEAK	L8	0	0	-	0	-
PJM DUQUESNE 5MW D AH PK	D5	0	0	-	0	-
PJM DUQUS 5MW D AH O PK	D6	0	0	-	0	-
PJM EASTERNH DA PEAK	E9	0	0	-	0	-
PJM JCPL DA OFF-PEAK	F2	27,200	74,240	-63.4%	31,280	-13.0%
PJM JCPL DA PEAK	J2	1,480	4,030	-63.3%	1,690	-12.4%
PJM NI HUB 5MW REAL TIME	B3	44,525	47,517	-6.3%	46,089	-3.4%
PJM NI HUB 5MW REAL TIME	B6	804,385	1,281,006	-37.2%	886,153	-9.2%
PJM NILL DA OFF-PEAK	L3	1,014,827	437,404	132.0%	853,688	18.9%
PJM NILL DA PEAK	N3	46,796	21,455	118.1%	44,504	5.2%
PJM OFF-PEAK LMP SWAP FUT	JP	1,516	4,760	-68.2%	1,760	-13.9%
PJM PECO ZONE5MW PEAK CAL MO DAY AH	4N	0	84	-100.0%	0	-
PJM PEPKO DA OFF-PEAK	Q8	0	0	-	0	-
PJM PEPKO DA PEAK	R8	0	0	-	0	-
PJM PPL DA OFF-PEAK	F5	10,309	68,289	-84.9%	15,613	-34.0%
PJM PPL DA PEAK	L5	546	3,861	-85.9%	819	-33.3%
PJM PSEG DA OFF-PEAK	W6	130,600	1,960	6,563.3%	132,640	-1.5%
PJM PSEG DA PEAK	L6	5,100	110	4,536.4%	5,100	0.0%

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Energy Futures						
PJM WES HUB PEAK LMP 50 M	4S	0	42	-100.0%	0	-
PJM WESTH DA OFF-PEAK	E4	870,257	1,343,096	-35.2%	926,969	-6.1%
PJM WESTHDA PEAK	J4	49,654	72,089	-31.1%	52,153	-4.8%
PJM WESTH RT OFF-PEAK	N9	2,602,641	3,114,021	-16.4%	2,755,586	-5.6%
PJM WESTH RT PEAK	L1	166,548	173,627	-4.1%	177,911	-6.4%
PLASTICS	PGP	1,662	2,363	-29.7%	1,079	54.0%
PLASTICS	PPP	0	0	-	0	-
PREMIUM UNLD 10P FOB MED	3G	206	343	-39.9%	180	14.4%
PREMIUM UNLD 10PPM CARGOE	4G	0	0	-	0	-
PREMIUM UNLEAD 10PPM FOB	8G	5	0	-	61	-91.8%
PREM UNL GAS 10PPM RDAM FOB BALMO	7N	0	0	-	0	-
PREM UNL GAS 10PPM RDAM FOB SWAP	7L	11	35	-68.6%	16	-31.3%
PROPANE NON-LDH MB (OPIS) BALMO SWP	1S	112	748	-85.0%	368	-69.6%
PROPANE NON-LDH MT. BEL (OPIS) SWP	1R	39,012	27,166	43.6%	31,653	23.2%
RBOB CALENDAR SWAP	RL	13,650	15,263	-10.6%	15,773	-13.5%
RBOB CRACK SPREAD	RM	3,143	3,104	1.3%	3,016	4.2%
RBOB CRACK SPREAD BALMO S	1E	0	0	-	0	-
RBOB GASOLINE BALMO CLNDR	1D	1,343	1,697	-20.9%	245	448.2%
RBOB PHY	RBL	0	0	0.0%	0	0.0%
RBOB (PLATTS) CAL SWAP	RY	0	0	-	0	-
RBOB SPREAD (PLATTS) SWAP	RI	44	103	-57.3%	50	-12.0%
RBOB UP-DOWN CALENDAR SWA	RV	0	20,135	-100.0%	0	-
RBOB VS HEATING OIL SWAP	RH	3,268	2,700	21.0%	3,100	5.4%
ROCKIES KERN OPAL - NW IN	IR	0	1,880	-100.0%	0	-
SAN JUAN BASIS SWAP	NJ	40,511	12,535	223.2%	43,007	-5.8%
SAN JUAN PIPE SWAP	XX	0	0	-	0	-
SINGAPORE 180CST BALMO	BS	24	51	-52.9%	42	-42.9%
SINGAPORE 380CST BALMO	BT	397	109	264.2%	25	1,488.0%
SINGAPORE 380CST FUEL OIL	SE	13,398	6,783	97.5%	11,679	14.7%
SINGAPORE FUEL 180CST CAL	UA	1,636	1,965	-16.7%	1,547	5.8%
SINGAPORE FUEL OIL SPREAD	SD	1,682	1,024	64.3%	1,468	14.6%
SINGAPORE GASOIL	MTB	585	50	1,070.0%	98	496.9%
SINGAPORE GASOIL	MTS	7,146	4,915	45.4%	6,769	5.6%
SINGAPORE GASOIL	STF	0	0	-	0	-
SINGAPORE GASOIL	STL	0	0	-	0	-
SINGAPORE GASOIL	STZ	0	350	-100.0%	0	-
SINGAPORE GASOIL CALENDAR	MSG	6	100	-94.0%	36	-83.3%
SINGAPORE GASOIL SWAP	SG	21,304	4,285	397.2%	18,759	13.6%
SINGAPORE GASOIL VS ICE	GA	16,885	3,995	322.7%	11,201	50.7%
SINGAPORE JET KERO BALMO	BX	0	0	-	0	-
SINGAPORE JET KERO GASOIL	RK	3,810	1,145	232.8%	3,690	3.3%
SINGAPORE JET KEROSENE SW	KS	2,006	2,819	-28.8%	2,135	-6.0%
SINGAPORE JET KERO VS. GASOIL BALMO	Z0	0	0	-	50	-100.0%
SINGAPORE MOGAS 92 UNLEADED BALMO	1P	1,386	175	692.0%	874	58.6%
SINGAPORE MOGAS 92 UNLEADED SWP	1N	21,419	10,756	99.1%	13,609	57.4%
SINGAPORE NAPHTHA BALMO	KU	0	0	-	0	-
SINGAPORE NAPHTHA SWAP	SP	0	0	-	0	-
SING FUEL	MSD	35	0	-	0	-
SOCAL BASIS SWAP	NS	0	24	-100.0%	0	-
SOCAL PIPE SWAP	XN	2,952	124	2,280.6%	3,624	-18.5%
SONAT BASIS SWAP FUTURE	SZ	792	7,356	-89.2%	852	-7.0%
SOUTHERN NAT LA NAT GAS	M8	0	0	-	0	-
SOUTH STAR TEX OKLHM KNS	8Z	554	1,588	-65.1%	464	19.4%

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Energy Futures						
Sumas Basis Swap	NK	9,626	11,275	-14.6%	9,757	-1.3%
SUMAS NAT GAS PLATTS FIXED PRICE	DVS	823	1,830	-55.0%	913	-9.9%
TC2 ROTTERDAM TO USAC 37K	TM	0	0	-	0	-
TC5 RAS TANURA TO YOKOHAM	TH	0	0	-	0	-
TCO BASIS SWAP	TC	28,502	49,360	-42.3%	30,776	-7.4%
TCO NG INDEX SWAP	Q1	728	3,416	-78.7%	976	-25.4%
TD3 MEG TO JAPAN 250K MT	TL	0	0	-	0	-
TENN 800 LEG NAT GAS INDE	L4	0	2,373	-100.0%	0	-
TENNESSEE 500 LEG BASIS S	NM	1,029	2,258	-54.4%	1,599	-35.6%
TENNESSEE 500 LEG NG INDE	Y7	0	0	-	0	-
TENNESSEE 500 LEG NG SWIN	T7	0	0	-	0	-
TENNESSEE 800 LEG NG BASI	6Z	732	2,136	-65.7%	852	-14.1%
TENNESSEE ZONE 0 BASIS SW	NQ	2,000	604	231.1%	2,240	-10.7%
Tetco ELA Basis	TE	0	0	-	0	-
TETCO M-3 INDEX	IX	6,976	6,288	10.9%	7,596	-8.2%
Tetco STX Basis	TX	2,008	3,295	-39.1%	2,098	-4.3%
TEXAS EASTERN ZONE M-3 BA	NX	22,376	14,857	50.6%	22,615	-1.1%
TEXAS GAS ZONE1 NG BASIS	9F	14,103	16,088	-12.3%	14,253	-1.1%
TRANSCO ZONE 1 NG BASIS	8E	0	0	-	0	-
Transco Zone 3 Basis	CZ	7,300	10,716	-31.9%	7,540	-3.2%
TRANSCO ZONE4 BASIS SWAP	TR	21,267	42,592	-50.1%	22,651	-6.1%
TRANSCO ZONE 4 NAT GAS IN	B2	0	0	-	0	-
TRANSCO ZONE 6 BASIS SWAP	NZ	6,893	4,542	51.8%	6,254	10.2%
TRANSCO ZONE 6 INDEX	IT	2,124	0	-	2,558	-17.0%
TRANSCO ZONE 6 PIPE SWAP	XZ4	0	0	-	0	-
UCM FUT	UCM	72	130	-44.6%	87	-17.2%
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	45	238	-81.1%	46	-2.2%
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	8,458	6,135	37.9%	4,645	82.1%
UP DOWN GC ULSD VS NMX HO	LT	54,203	48,683	11.3%	55,322	-2.0%
USGC UNL 87 CRACK SPREAD	RU	0	1,125	-100.0%	0	-
VENTURA NAT GAS PLATTS FIXED PRICE	DVA	0	11	-100.0%	0	-
WAHA BASIS	NW	13,328	15,223	-12.4%	13,684	-2.6%
WAHA INDEX SWAP FUTURE	IY	1,268	1,712	-25.9%	1,764	-28.1%
WESTERN RAIL DELIVERY PRB	QP	1,500	3,715	-59.6%	1,865	-19.6%
WTI-BRENT BULLET SWAP	BY	500	0	-	0	-
WTI-BRENT CALENDAR SWAP	BK	50,789	107,383	-52.7%	51,413	-1.2%
WTI CALENDAR	CS	119,252	132,263	-9.8%	119,023	0.2%
WTS (ARGUS) VS WTI SWAP	FF	41,750	40,266	3.7%	42,210	-1.1%
WTS (ARGUS) VS WTI TRD MT	FH	2,670	5,592	-52.3%	3,242	-17.6%
Energy Options						
1 MO GASOIL CAL SWAP SPR	GXA	50	100	-50.0%	100	-50.0%
APPALACHIAN COAL	6K	0	0	-	0	-
BRENT 1 MONTH CAL	AA	0	0	-	0	-
BRENT CALENDAR SWAP	BA	24,041	135,778	-82.3%	27,305	-12.0%
BRENT OIL LAST DAY	BE	3,940	6,545	-39.8%	6,090	-35.3%
BRENT OIL LAST DAY	BZO	59,365	0	-	59,143	0.4%
BRENT OIL LAST DAY	OS	20,432	36,871	-44.6%	20,436	0.0%
COAL API2 INDEX	CLA	29,296	32,818	-10.7%	29,379	-0.3%

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Energy Options						
COAL API2 INDEX	CQA	100	47,095	-99.8%	100	0.0%
COAL API2 INDEX	MTC	0	0	-	0	-
COAL API4 INDEX	RLA	150	1,490	-89.9%	150	0.0%
COAL API4 INDEX	RQA	210	500	-58.0%	270	-22.2%
COAL SWAP	CPF	120	350	-65.7%	120	0.0%
COAL SWAP	RPF	1,080	3,545	-69.5%	1,080	0.0%
CRUDE OIL 1MO	WA	643,079	201,125	219.7%	640,901	0.3%
CRUDE OIL APO	AO	265,331	404,068	-34.3%	281,296	-5.7%
CRUDE OIL CALNDR STRIP	6F	0	110	-100.0%	0	-
CRUDE OIL OUTRIGHTS	AH	550	16,600	-96.7%	750	-26.7%
CRUDE OIL OUTRIGHTS	DBP	420	4,460	-90.6%	630	-33.3%
CRUDE OIL PHY	CD	0	0	0.0%	0	0.0%
CRUDE OIL PHY	LC	56,519	92,917	-39.2%	70,396	-19.7%
CRUDE OIL PHY	LO	2,688,852	2,354,324	14.2%	3,079,105	-12.7%
CRUDE OIL PHY	LO1	13,269	1,613	722.6%	2,285	480.7%
CRUDE OIL PHY	LO2	707	16	4,318.8%	125	465.6%
CRUDE OIL PHY	LO3	724	12	5,933.3%	52	1,292.3%
CRUDE OIL PHY	LO4	0	0	0.0%	0	0.0%
CRUDE OIL PHY	LO5	0	0	-	0	-
DAILY CRUDE OIL	DNM	0	0	-	0	-
ELEC FINSETTLED	PML	0	52	-100.0%	44	-100.0%
ELEC MISO PEAK	9T	0	2,520	-100.0%	420	-100.0%
ELEC MISO PEAK	OEM	0	0	-	0	-
ELECTRICITY OFF PEAK	N9P	0	0	-	0	-
ETHANOL	CE1	0	0	-	0	-
ETHANOL	CE3	0	0	-	0	-
ETHANOL SWAP	CVR	17,327	12,675	36.7%	16,183	7.1%
ETHANOL SWAP	GVR	3,262	6,444	-49.4%	3,189	2.3%
EURO-DENOMINATED PETRO PROD	EFB	0	0	-	0	-
EURO-DENOMINATED PETRO PROD	NWE	0	10	-100.0%	0	-
EUROPEAN JET KEROSENE NWE (PLATTS) AVG PRC	30	20	0	-	30	-33.3%
GASOIL CRACK SPREAD AVG PRICE OPTIONS	3U	0	0	-	0	-
GASOLINE	GCE	456	125	264.8%	456	0.0%
HEATING OIL CRK SPD AVG PRICE OPTIONS	3W	100	0	-	200	-50.0%
HEATING OIL PHY	LB	640	701	-8.7%	983	-34.9%
HEATING OIL PHY	OH	54,447	37,152	46.6%	76,750	-29.1%
HENRY HUB FINANCIAL LAST	E7	11,829	6,146	92.5%	11,104	6.5%
HO 1 MONTH CLNDR OPTIONS	FA	0	550	-100.0%	200	-100.0%
HUSTN SHIP CHNL PIPE SWP	PK	0	1,084	-100.0%	0	-
ISO NEW ENGLAND PK LMP	OE	0	0	-	0	-
LLS CRUDE OIL	WJO	9,290	4,080	127.7%	9,880	-6.0%
MCCLOSKEY ARA ARGS COAL	MTO	905	6,940	-87.0%	1,125	-19.6%
MCCLOSKEY RCH BAY COAL	MFO	75	1,285	-94.2%	325	-76.9%
NATURAL GAS	G10	0	0	-	0	-
NATURAL GAS 12 M CSO FIN	G7	0	1,700	-100.0%	0	-
NATURAL GAS 1 M CSO FIN	G4	43,550	22,600	92.7%	27,750	56.9%
NATURAL GAS 2 M CSO FIN	G2	1,380	3,000	-54.0%	1,000	38.0%
NATURAL GAS 3 M CSO FIN	G3	350	1,650	-78.8%	350	0.0%
NATURAL GAS 5 M CSO FIN	G5	0	0	-	0	-
NATURAL GAS 6 M CSO FIN	G6	5,100	3,000	70.0%	1,500	240.0%
NATURAL GAS OPTION ON CALENDAR STRP	6J	17,906	14,027	27.7%	18,686	-4.2%
NATURAL GAS PHY	KD	0	0	0.0%	0	0.0%
NATURAL GAS PHY	LN	2,352,528	2,799,812	-16.0%	2,380,289	-1.2%

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Energy Options						
NATURAL GAS PHY	ON	131,674	153,606	-14.3%	138,228	-4.7%
NATURAL GAS PHY	ON1	0	0	-	0	-
NATURAL GAS PHY	ON2	0	0	-	0	-
NATURAL GAS PHY	ON3	0	0	-	0	-
NATURAL GAS PHY	ON4	0	0	-	0	-
NATURAL GAS PHY	ON5	0	0	-	0	-
NATURAL GAS SUMMER STRIP	4D	0	0	-	0	-
NG HH 3 MONTH CAL	IC	0	0	-	0	-
N ROCKIES PIPE SWAP	ZR	9,780	9,337	4.7%	9,780	0.0%
NY HARBOR HEAT OIL SWP	AT	38,018	73,185	-48.1%	39,776	-4.4%
NYISO ZONE G 5MW PEAK OPTIONS	9U	10,660	0	-	420	2,438.1%
NYMEX EUROPEAN GASOIL APO	F7	30	1,283	-97.7%	30	0.0%
NYMEX EUROPEAN GASOIL OPT	F8	0	80	-100.0%	0	-
PETROCHEMICALS	4H	4,251	6,976	-39.1%	4,536	-6.3%
PETROCHEMICALS	4I	0	0	-	0	-
PETROCHEMICALS	4J	5,395	930	480.1%	5,300	1.8%
PETROCHEMICALS	4K	690	0	-	690	0.0%
PETROCHEMICALS	CPR	25	0	-	25	0.0%
PETRO OUTRIGHT EURO	8H	0	160	-100.0%	0	-
PGE CITYGATE PIPE SWAP	CW	0	600	-100.0%	0	-
PJM CALENDAR STRIP	6O	0	1,400	-100.0%	0	-
PJM ELECTRIC	6OO	0	6	-100.0%	0	-
PJM MONTHLY	JO	0	10	-100.0%	0	-
PJM WES HUB PEAK CAL MTH	6OA	1,050	200	425.0%	710	47.9%
PJM WES HUB PEAK CAL MTH	JOA	9,840	0	-	9,840	0.0%
PJM WES HUB PEAK LMP 50MW	PMA	11,439	0	-	8,963	27.6%
RBOB 1MO CAL SPD OPTIONS	ZA	0	0	-	50	-100.0%
RBOB CALENDAR SWAP	RA	1,325	5,106	-74.1%	2,453	-46.0%
RBOB PHY	OB	5,865	12,065	-51.4%	21,088	-72.2%
RBOB PHY	RF	40	0	-	0	-
ROTTERDAM 3.5%FUEL OIL CL	Q6	500	470	6.4%	510	-2.0%
SAN JUAN PIPE SWAP	PJ	8,616	4,732	82.1%	8,736	-1.4%
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 CRUDE OIL	C05	0	0	-	0	-
SHORT TERM NATURAL GAS	U01	600	200	200.0%	1,000	-40.0%
SHORT TERM NATURAL GAS	U02	0	0	-	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	-

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Energy Options					
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	-
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	300	300	0.0%	300	0.0%
SINGAPORE JET FUEL CALEND N2	980	1,500	-34.7%	840	16.7%
SOCAL PIPE SWAP ZN	6,000	800	650.0%	7,200	-16.7%
WTI 12 MONTH CALENDAR OPT WZ	0	0	-	0	-
WTI 6 MONTH CALENDAR OPTI WM	0	0	-	0	-
WTI-BRENT BULLET SWAP BV	21,050	20,750	1.4%	21,060	0.0%
WTI CRUDE OIL 12 M CSO F 7Z	0	0	-	0	-
WTI CRUDE OIL 1 M CSO FI 7A	384,314	336,924	14.1%	335,125	14.7%
Metals Futures					
COMEX GOLD GC	404,424	395,654	2.2%	511,276	-20.9%
NYMEX HOT ROLLED STEEL HR	17,151	22,896	-25.1%	16,863	1.7%
NYMEX PLATINUM PL	69,055	76,588	-9.8%	71,127	-2.9%
PALLADIUM PA	26,712	26,654	0.2%	22,825	17.0%
URANIUM UX	4,751	4,277	11.1%	5,151	-7.8%
COMEX SILVER SI	160,161	162,326	-1.3%	194,016	-17.4%
COMEX E-Mini GOLD QO	1,912	1,160	64.8%	2,343	-18.4%
E-MINI SILVER 6Q	0	0	-	0	-
COMEX E-Mini SILVER QI	143	115	24.3%	198	-27.8%
COMEX COPPER HG	240,760	179,464	34.2%	200,654	20.0%
COMEX MINY COPPER QC	132	97	36.1%	32	312.5%
Aluminium MW Trans Prem Platts AUP	34,446	21,003	64.0%	30,013	14.8%
ALUMINUM A38	41	0	-	62	-33.9%
ALUMINUM AEP	6,102	3,237	88.5%	6,266	-2.6%
ALUMINUM ALA	60	0	-	60	0.0%
ALUMINUM ALI	59	137	-56.9%	283	-79.2%
ALUMINUM EDP	6,859	0	-	5,019	36.7%
ALUMINUM MJP	4,606	0	-	3,101	48.5%
COPPER HGS	2,286	5,893	-61.2%	2,482	-7.9%
E-MICRO GOLD MGC	2,765	1,625	70.2%	3,097	-10.7%
FERROUS PRODUCTS BUS	452	77	487.0%	397	13.9%
FERROUS PRODUCTS SSF	0	0	-	0	-
GOLD GPS	0	0	-	0	-
Gold Kilo GCK	40	5	700.0%	144	-72.2%
IRON ORE 58 CHINA TSI FUTURES TIC	0	0	-	0	-
IRON ORE 62 CHINA PLATTS FUTURES PIO	1,106	240	360.8%	1,440	-23.2%
IRON ORE 62 CHINA TSI FUTURES TIO	20,103	20,572	-2.3%	20,388	-1.4%
LNDN ZINC ZNC	0	24	-100.0%	27	-100.0%
METALS LED	0	0	-	0	-

NYMEX/COMEX Exchange Open Interest Report - Monthly

	Commodity	Open Interest NOV 2016	Open Interest NOV 2015	% CHG	Open Interest OCT 2016	% CHG
Metals Futures						
SILVER	SIL	777	805	-3.5%	1,040	-25.3%
Metals Options						
COMEX COPPER	HX	3,185	3,881	-17.9%	5,389	-40.9%
COMEX GOLD	OG	951,832	953,913	-0.2%	1,120,493	-15.1%
COMEX SILVER	SO	101,204	94,670	6.9%	137,363	-26.3%
COPPER	H4E	0	0	-	0	-
GOLD	OG1	907	353	156.9%	1,185	-23.5%
GOLD	OG2	83	310	-73.2%	164	-49.4%
GOLD	OG3	300	250	20.0%	19	1,478.9%
GOLD	OG4	0	0	0.0%	21	-100.0%
GOLD	OG5	0	0	-	0	-
HOT ROLLED COIL STEEL CALL OPTION	HRO	0	0	-	0	-
HOT ROLLED COIL STEEL PUT OPTION	HRO	0	0	-	0	-
IRON ORE 62 CHINA TSI CALL OPTION	ICT	14,608	9,807	49.0%	13,333	9.6%
IRON ORE 62 CHINA TSI PUT OPTION	ICT	12,854	23,050	-44.2%	15,731	-18.3%
NYMEX PLATINUM	PO	6,814	3,482	95.7%	5,833	16.8%
PALLADIUM	PAO	1,939	4,474	-56.7%	3,569	-45.7%
SHORT TERM	L11	0	0	-	0	-
SHORT TERM GOLD	L02	0	0	-	0	-
SHORT TERM GOLD	L18	0	0	-	0	-
SILVER	SO1	0	0	-	68	-100.0%
SILVER	SO2	0	0	-	135	-100.0%
SILVER	SO3	0	0	-	3	-100.0%
SILVER	SO4	0	0	-	0	0.0%
SILVER	SO5	0	0	-	0	-
TOTAL FUTURES GROUP						
Commodities and Alternative Investments Futures		12	103	-88.3%	41	-70.7%
Energy Futures		18,679,629	20,400,702	-8.4%	18,713,303	-0.2%
Metals Futures		1,004,903	922,849	8.9%	1,098,304	-8.5%
TOTAL FUTURES		19,684,544	21,323,654	-7.7%	19,811,648	-0.6%



NYMEX/COMEX Exchange Open Interest Report - Monthly

Commodity	Open Interest NOV 2016	Open Interest NOV 2015	% CHG	Open Interest OCT 2016	% CHG
TOTAL OPTIONS GROUP					
Energy Options	6,979,842	6,896,510	1.2%	7,386,837	-5.5%
Metals Options	1,093,726	1,094,190	0.0%	1,303,306	-16.1%
TOTAL OPTIONS	8,073,568	7,990,700	1.0%	8,690,143	-7.1%
TOTAL COMBINED					
Commodities and Alternative Investments	12	103	-88.3%	41	-70.7%
Energy	25,659,471	27,297,212	-6.0%	26,100,140	-1.7%
Metals	2,098,629	2,017,039	4.0%	2,401,610	-12.6%
GRAND TOTAL	27,758,112	29,314,354	-5.3%	28,501,791	-2.6%