



NYMEX/COMEX Exchange Open Interest Report - Monthly

Commodity	Open Interest DEC 2016	Open Interest DEC 2015	% CHG	Open Interest NOV 2016	% CHG
Commodities and Alternative Investments Futures					
COCOA TAS	13	29	-55.2%	7	85.7%
COFFEE	1	3	-66.7%	1	0.0%
COTTON	4	5	-20.0%	3	33.3%
SUGAR 11	1	40	-97.5%	1	0.0%
Energy Futures					
CRUDE OIL PHY	2,068,877	1,674,783	23.5%	2,104,270	-1.7%
CRUDE OIL	1,443	7,005	-79.4%	1,471	-1.9%
MINY WTI CRUDE OIL	4,372	6,097	-28.3%	6,177	-29.2%
BRENT OIL LAST DAY	126,410	170,458	-25.8%	109,250	15.7%
HEATING OIL PHY	428,386	342,234	25.2%	392,740	9.1%
HTG OIL	1,033	2,128	-51.5%	1,552	-33.4%
MINY HTG OIL	1	1	0.0%	0	0.0%
RBOB PHY	403,123	355,344	13.4%	368,684	9.3%
MINY RBOB GAS	0	0	-	0	-
NATURAL GAS	106,281	97,496	9.0%	107,510	-1.1%
LTD NAT GAS	355,797	292,483	21.6%	296,075	20.2%
MINY NATURAL GAS	2,027	2,467	-17.8%	2,648	-23.5%
PJM MONTHLY	4,602	13,176	-65.1%	5,162	-10.8%
NATURAL GAS PHY	1,251,358	958,390	30.6%	1,157,192	8.1%
RBOB GAS	1,334	4,653	-71.3%	882	51.2%
3.5% FUEL OIL CID MED SWA	674	365	84.7%	800	-15.8%
3.5% FUEL OIL CIF BALMO S	90	0	-	30	200.0%
AEP-DAYTON HUB DAILY	248	252	-1.6%	258	-3.9%
AEP-DAYTON HUB MTHLY	907	1,922	-52.8%	974	-6.9%
AEP-DAYTON HUB OFF-PEAK M	667	1,854	-64.0%	734	-9.1%
ALGON CITY GATES NAT GAS	2,680	0	-	3,040	-11.8%
ALGONQUIN CITYGATES BASIS	2,821	359	685.8%	3,131	-9.9%
ANR LOUISIANA BASIS SWAP	214	856	-75.0%	121	76.9%
ANR OKLAHOMA	3,532	6,421	-45.0%	3,811	-7.3%
APPALACHIAN COAL (PHY)	0	115	-100.0%	0	-
ARGUS LLS VS. WTI (ARG) T	11,079	14,017	-21.0%	12,294	-9.9%
ARGUS PROPAN FAR EST INDE	1,654	1,174	40.9%	2,079	-20.4%
ARGUS PROPAN(SAUDI ARAMCO	608	681	-10.7%	571	6.5%
AUSTRIALIAN COKE COAL	900	499	80.4%	968	-7.0%
BRENT BALMO SWAP	250	100	150.0%	76	228.9%
BRENT CALENDAR SWAP	14,834	20,620	-28.1%	14,122	5.0%
BRENT CFD(PLATTS) VS FRNT	0	0	-	0	-
BRENT CFD SWAP	0	0	-	0	-
BRENT FINANCIAL FUTURES	1,089	7,756	-86.0%	941	15.7%
BRENT FINANCIAL FUTURES	0	1,114	-100.0%	0	-
BRENT FINANCIAL FUTURES	350	120	191.7%	700	-50.0%
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	15,640	0	-	16,890	-7.4%
CAISO SP15 EZGNHUB5 PEAK	1,690	0	-	1,040	62.5%
CANADIAN LIGHT SWEET OIL	9,410	6,422	46.5%	10,140	-7.2%
CARBON EUA EMISSIONS EURO	0	0	-	0	-
CENTERPOINT BASIS SWAP	19,799	17,021	16.3%	20,939	-5.4%
CENTERPOINT EAST INDEX	0	0	-	0	-
CENTER POINT NAT GAS FIXED PRICE	0	0	-	0	-



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Energy Futures						
CHICAGO ETHANOL SWAP	CU	56,560	42,429	33.3%	58,744	-3.7%
CHICAGO ULSD (PLATTS) SWA	4C	3	41	-92.7%	6	-50.0%
CHICAGO ULSD PL VS HO SPR	5C	1,102	1,698	-35.1%	1,238	-11.0%
CHICAGO UNL GAS PL VS RBO	3C	39	75	-48.0%	42	-7.1%
CIG BASIS	CI	48,622	32,131	51.3%	51,730	-6.0%
CIG ROCKIES NG INDEX SWA	Z8	0	0	-	0	-
CINERGY HUB OFF-PEAK MONT	EJ	194	762	-74.5%	248	-21.8%
CINERGY HUB PEAK MONTH	EM	302	570	-47.0%	316	-4.4%
CIN HUB 5MW D AH O PK	K2	247,600	288,400	-14.1%	257,800	-4.0%
CIN HUB 5MW D AH PK	H5	17,052	18,322	-6.9%	17,546	-2.8%
CIN HUB 5MW REAL TIME O P	H4	661,456	767,880	-13.9%	545,056	21.4%
CIN HUB 5MW REAL TIME PK	H3	45,224	26,491	70.7%	45,015	0.5%
COAL SWAP	ACM	353	810	-56.4%	343	2.9%
COAL SWAP	SSI	20	314	-93.6%	20	0.0%
COLUMB GULF MAINLINE NG B	5Z	20,114	38,467	-47.7%	21,754	-7.5%
COLUMBIA GULF MAIN NAT G	L2	0	2,759	-100.0%	0	-
COLUMBIA GULF NAT GAS FIXED PRICE	DCE	0	0	-	0	-
COLUMBIA GULF ONSHORE	GL	17,279	29,233	-40.9%	17,713	-2.5%
CONWAY NATURAL GASOLINE (OPIS) SWAP	8L	429	503	-14.7%	587	-26.9%
CONWAY NORMAL BUTANE (OPIS) SWAP	8M	1,095	642	70.6%	1,291	-15.2%
CONWAY PROPANE 5 DECIMALS SWAP	8K	18,504	13,619	35.9%	17,606	5.1%
CRUDE OIL	CHB	0	0	-	0	-
CRUDE OIL	LPS	20,680	11,300	83.0%	20,740	-0.3%
CRUDE OIL LAST DAY	26	0	0	-	0	-
CRUDE OIL OUTRIGHTS	37	0	0	-	0	-
CRUDE OIL OUTRIGHTS	42	184	226	-18.6%	30	513.3%
CRUDE OIL OUTRIGHTS	CSW	1,555	0	-	1,690	-8.0%
CRUDE OIL OUTRIGHTS	DBL	0	4,740	-100.0%	0	-
CRUDE OIL OUTRIGHTS	FE	0	0	-	0	-
CRUDE OIL OUTRIGHTS	GSW	70	0	-	80	-12.5%
CRUDE OIL OUTRIGHTS	HTT	12,199	0	-	9,395	29.8%
CRUDE OIL OUTRIGHTS	WCC	9,990	13,671	-26.9%	10,820	-7.7%
CRUDE OIL PHY	CLL	0	0	0.0%	0	0.0%
CRUDE OIL SPRDS	38	250	100	150.0%	250	0.0%
CRUDE OIL SPRDS	KE	0	0	-	0	-
CRUDE OIL SPRDS	WTT	23,990	5,155	365.4%	24,465	-1.9%
CRUDE OIL TRADE AT MARKER SINGAPORE	CLS	0	0	0.0%	0	0.0%
DAILY PJM	AOR	15,552	20,640	-24.7%	14,160	9.8%
DAILY PJM	IDO	24,752	27,760	-10.8%	15,416	60.6%
DAILY PJM	NOC	26,064	9,120	185.8%	21,720	20.0%
DAILY PJM	PAP	1,137	915	24.3%	780	45.8%
DAILY PJM	PEO	5,440	19,888	-72.6%	13,000	-58.2%
DAILY PJM	PNO	67,728	24,768	173.4%	37,888	78.8%
DAILY PJM	PNP	3,242	750	332.3%	1,953	66.0%
DAILY PJM	PWO	86,224	54,024	59.6%	72,280	19.3%
DAILY PJM	PWP	4,081	2,135	91.1%	3,094	31.9%
DAILY PJM	WOR	74,016	17,640	319.6%	59,280	24.9%
DAILY PJM	ZAO	18,632	34,840	-46.5%	24,440	-23.8%
DAILY PJM	ZGO	28,016	18,368	52.5%	17,000	64.8%
DAILY PJM	ZJO	10,880	11,368	-4.3%	8,760	24.2%
DATED BRENT (PLATTS) DAILY SWAP	7G	0	0	-	0	-
DATED TO FRONTLINE BRENT	FY	15,940	9,162	74.0%	16,495	-3.4%
DEMARC INDEX FUTURE	DI	0	0	-	0	-



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DEMARC SWING SWAP	DT	0	0	-	0	-
DIESEL 10P BRG FOB RDM VS	7X	100	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	2,951	401	635.9%	4,511	-34.6%
DOMINION TRANSMISSION INC	PG	56,031	31,725	76.6%	59,888	-6.4%
DUBAI CRUDE OIL BALMO	BI	0	0	-	0	-
DUBAI CRUDE OIL CALENDAR	DC	10,920	6,734	62.2%	6,167	77.1%
DY EURO 3.5% FUEL OI RDA	FOR	0	0	-	0	-
EASTERN RAIL DELIVERY CSX	QX	2,375	2,695	-11.9%	2,400	-1.0%
EAST/WEST FUEL OIL SPREAD	EW	145	814	-82.2%	159	-8.8%
EIA FLAT TAX ONHWAY DIESE	A5	4,124	4,710	-12.4%	4,163	-0.9%
ELEC ERCOT DLY OFF PK	R4	0	2,640	-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	205	-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	0	-	0	-
ELEC FINSETTLED	47	2,804	1,556	80.2%	2,804	0.0%
ELEC FINSETTLED	49	105	1,275	-91.8%	210	-50.0%
ELEC MISO PEAK	4L	320	1,531	-79.1%	210	52.4%
ELEC MISO PEAK	55	1,100	2,036	-46.0%	1,184	-7.1%
ELEC NYISO OFF-PEAK	4M	2,040	28,156	-92.8%	3,965	-48.5%
ELEC NYISO OFF-PEAK	58	20,416	37,600	-45.7%	21,956	-7.0%
ELECTRICITY ERCOT PEAK	ERE	0	0	-	0	-
ELECTRICITY OFF PEAK	46	51,544	28,456	81.1%	51,544	0.0%
ELECTRICITY OFF PEAK	4P	0	784	-100.0%	0	-
ELECTRICITY OFF PEAK	50	2,040	23,520	-91.3%	3,965	-48.5%
ELEC WEST POWER OFF-PEAK	MDA	0	0	-	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	0	-	0	-
ERCOT NORTH ZMCPE 5MW OFFPEAK	I8	720	1,800	-60.0%	600	20.0%
ERCOT NORTH ZMCPE 5MW OFFPEAK SWAP	I6	0	28,224	-100.0%	2,040	-100.0%
ERCOT NORTH ZMCPE 5MW PEAK	I5	0	2,245	-100.0%	147	-100.0%
ETHANOL T2 FOB ROTT INCL DUTY SWAP	Z1	4,468	2,524	77.0%	3,601	24.1%
EU LOW SULPHUR GASOIL CRACK	LSC	0	0	-	0	-
EURO 1% FUEL OIL NEW BALM	KX	6	0	-	10	-40.0%
EURO 3.5% FUEL OIL M CRK	FL	0	0	-	0	-
EURO 3.5% FUEL OIL RDAM B	KR	1,059	222	377.0%	345	207.0%
EURO 3.5% FUEL OIL SPREAD	FK	3,180	1,301	144.4%	3,070	3.6%
EURO-DENOMINATED PETRO PROD	IBE	0	0	-	0	-
EURO-DENOMINATED PETRO PROD	MFE	0	0	-	0	-
EURO-DENOMINATED PETRO PROD	NCP	159	10	1,490.0%	198	-19.7%
EURO GASOIL 10 CAL SWAP	GT	0	8	-100.0%	0	-
EURO GASOIL 10PPM VS ICE	ET	299	856	-65.1%	295	1.4%
EUROPE 1% FUEL OIL NWE CA	UF	328	378	-13.2%	422	-22.3%
EUROPE 1% FUEL OIL RDAM C	UH	25	86	-70.9%	34	-26.5%
EUROPE 3.5% FUEL OIL MED	UI	957	452	111.7%	1,012	-5.4%
EUROPE 3.5% FUEL OIL RDAM	UV	12,158	9,190	32.3%	12,074	0.7%
EUROPEAN GASOIL (ICE)	7F	3,745	4,119	-9.1%	3,179	17.8%

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Energy Futures						
EUROPEAN NAPHTHA BALMO	KZ	245	53	362.3%	273	-10.3%
EUROPEAN NAPHTHA CRACK SPR	EN	10,993	10,874	1.1%	11,815	-7.0%
EUROPE DATED BRENT SWAP	UB	395	7,733	-94.9%	840	-53.0%
EUROPE JET KERO NWE CALSW	UJ	3	16	-81.3%	6	-50.0%
EUROPE NAPHTHA CALSWAP	UN	1,945	1,061	83.3%	1,954	-0.5%
EURO PROPANE CIF ARA SWA	PS	1,765	933	89.2%	1,940	-9.0%
FL GAS ZONE 3 NAT GAS IND	Q9	0	0	-	0	-
FLORIDA GAS ZONE3 BASIS S	FP	2,700	2,946	-8.4%	3,506	-23.0%
FREIGHT MARKETS	FLP	1,153	362	218.5%	1,315	-12.3%
FREIGHT MARKETS	FRC	0	0	-	0	-
FUEL OIL CRACK VS ICE	FO	18,596	15,713	18.3%	19,666	-5.4%
FUEL OIL NWE CRACK VS ICE	FI	19	243	-92.2%	38	-50.0%
FUEL OIL (PLATS) CAR CM	1W	403	77	423.4%	441	-8.6%
FUEL OIL (PLATS) CAR CN	1X	12	69	-82.6%	24	-50.0%
FUELOIL SWAP:CARGOES VS.B	FS	1,063	1,179	-9.8%	1,108	-4.1%
GAS EURO-BOB OXY NWE BARGES	7H	5,924	6,025	-1.7%	5,285	12.1%
GAS EURO-BOB OXY NWE BARGES CRK	7K	27,506	33,476	-17.8%	23,902	15.1%
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	10	40	-75.0%	20	-50.0%
GASOIL 0.1CIF MED VS ICE	Z5	80	127	-37.0%	80	0.0%
GASOIL 0.1 CIF NWE VS ISE	TU	15	0	-	30	-50.0%
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	47	97	-51.5%	49	-4.1%
GASOIL 0.1 ROTTERDAM BARG	VL	10	0	-	20	-50.0%
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	652	190	243.2%	639	2.0%
GASOIL BULLET SWAP	BG	50	0	-	0	-
GASOIL CALENDAR SWAP	GX	96	50	92.0%	96	0.0%
GASOIL CRACK SPREAD CALEN	GZ	17,784	8,713	104.1%	13,316	33.6%
GASOIL MINI CALENDAR SWAP	QA	432	978	-55.8%	550	-21.5%
GASOLINE UP-DOWN (ARGUS)	UZ	0	0	-	0	-
GASOLINE UP-DOWN BALMO SW	1K	0	250	-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	5,273	5,948	-11.3%	5,840	-9.7%
GRP THREE UNL GS (PLT) VS	A8	4,392	5,145	-14.6%	4,829	-9.0%
GULF COAST 3% FUEL OIL BA	VZ	949	493	92.5%	1,469	-35.4%
GULF COAST GASOLINE CLNDR	GS	0	1,601	-100.0%	0	-
GULF COAST JET FUEL CLNDR	GE	1,342	1,181	13.6%	1,301	3.2%
GULF COAST JET VS NYM 2 H	ME	36,123	32,152	12.4%	36,224	-0.3%
GULF COAST NO.6 FUEL OIL	MF	54,187	60,223	-10.0%	57,462	-5.7%
GULF COAST NO.6 FUEL OIL	MG	7,842	7,995	-1.9%	5,272	48.7%
GULF COAST ULSD CALENDAR	LY	3,859	4,968	-22.3%	3,926	-1.7%
GULF COAST ULSD CRACK SPR	GY	3,355	8,788	-61.8%	3,777	-11.2%
HEATING OIL BALMO CLNDR S	1G	0	60	-100.0%	19	-100.0%
HEATING OIL CRCK SPRD BAL	1H	0	0	-	0	-
HEATING OIL PHY	HOL	0	0	0.0%	0	0.0%
HEATING OIL VS ICE GASOIL	HA	0	0	-	0	-
HENRY HUB BASIS SWAP	HB	42,762	57,234	-25.3%	47,005	-9.0%



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Energy Futures						
HENRY HUB INDEX SWAP FUTU	IN	20,251	26,689	-24.1%	24,027	-15.7%
HENRY HUB SWAP	NN	1,360,539	1,421,914	-4.3%	1,331,857	2.2%
HENRY HUB SWING FUTURE	SN	0	0	-	0	-
HOUSTON SHIP CHANNEL BASI	NH	24,441	22,757	7.4%	25,526	-4.3%
HOUSTON SHIP CHANNEL INDE	IP	0	0	-	0	-
HUSTN SHIP CHNL PIPE SWP	XJ	3,425	3,425	0.0%	3,425	0.0%
ICE BRENT DUBAI SWAP	DB	22,156	3,625	511.2%	22,011	0.7%
ICE GASOIL BALMO SWAP	U9	0	0	-	0	-
IN DELIVERY MONTH EUA	6T	10,748	47,410	-77.3%	49,000	-78.1%
INDIANA MISO	FAD	14,952	17,480	-14.5%	17,424	-14.2%
INDIANA MISO	FDM	0	0	-	0	-
INDIANA MISO	FTD	8,352	4,680	78.5%	8,160	2.4%
INDIANA MISO	FTM	4,080	54,880	-92.6%	7,930	-48.5%
INDIANA MISO	PDD	1,479	632	134.0%	909	62.7%
INDIANA MISO	PDM	0	1,226	-100.0%	0	-
INDIANA MISO	PTD	357	343	4.1%	357	0.0%
INDIANA MISO	PTM	0	550	-100.0%	0	-
INDONESIAN COAL	MCC	5	180	-97.2%	5	0.0%
ISO NEW ENGLAND OFF-PEAK	KI	206	684	-69.9%	244	-15.6%
ISO NEW ENGLAND PK LMP	NI	259	749	-65.4%	294	-11.9%
JAPAN C&F NAPHTHA CRACK S	JB	875	698	25.4%	708	23.6%
JAPAN C&F NAPHTHA SWAP	JA	1,896	1,520	24.7%	1,565	21.2%
JAPAN NAPHTHA BALMO SWAP	E6	66	24	175.0%	30	120.0%
JET AV FUEL (P) CAR FM ICE GAS SWAP	1V	48	89	-46.1%	57	-15.8%
JET BARGES VS ICE GASOIL	JR	0	15	-100.0%	0	-
JET CIF NWE VS ICE	JC	357	446	-20.0%	377	-5.3%
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	6,025	2,723	121.3%	5,950	1.3%
LA CARB DIESEL (OPIS)	LX	91	195	-53.3%	104	-12.5%
LA CARB DIESEL (OPIS) SWA	KL	641	780	-17.8%	550	16.5%
LA CARBOB GASOLINE(OPIS)S	JL	0	300	-100.0%	0	-
LA JET FUEL VS NYM NO 2 H	MQ	75	170	-55.9%	130	-42.3%
LA JET (OPIS) SWAP	JS	1,080	790	36.7%	1,630	-33.7%
LLS (ARGUS) CALENDAR SWAP	XA	0	0	-	0	-
LLS (ARGUS) VS WTI SWAP	WJ	25,918	50,255	-48.4%	29,617	-12.5%
MARS (ARGUS) VS WTI SWAP	YX	14,029	17,005	-17.5%	13,388	4.8%
MARS (ARGUS) VS WTI TRD M	YV	17,786	755	2,255.8%	15,447	15.1%
MARS BLEND CRUDE OIL	MB	2,800	0	-	2,706	3.5%
MCCLOSKEY ARA ARGS COAL	MTF	76,901	126,735	-39.3%	77,596	-0.9%
MCCLOSKEY RCH BAY COAL	MFF	18,578	34,407	-46.0%	16,042	15.8%
MGF FUT	MGF	0	30	-100.0%	0	-
MGN1 SWAP FUT	MGN	449	495	-9.3%	481	-6.7%
MICHCON NG INDEX SWAP	Y8	0	0	-	360	-100.0%
MICHIGAN BASIS	NF	14,181	6,932	104.6%	15,305	-7.3%
MICHIGAN HUB OFF-PEAK MON	HJ	0	0	-	0	-
MICHIGAN HUB PEAK MONTH S	HM	0	0	-	0	-
MICHIGAN MISO	HMO	159,216	141,304	12.7%	167,664	-5.0%
MICHIGAN MISO	HMW	11,132	10,201	9.1%	11,594	-4.0%
MINI GAS EUROBOB OXY NWE ARGS BALMO	MEB	661	239	176.6%	488	35.5%
MINI RBOB V. EBOBARG NWE BRGS BALMO	MXR	50	50	0.0%	1,375	-96.4%
MINI RBOB V. EBOB(ARGUS) NWE BRGS	MXB	4,170	1,457	186.2%	2,983	39.8%

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Energy Futures					
MISO 5MW OFF PEAK	4R	0	-	0	-
MISO 5MW PEAK	4Q	0	-	0	-
MJB FUT	MJB	0	-	0	-
MJC FUT	MJC	262	31.0%	325	-19.4%
MNC FUT	MNC	4,926	-4.1%	5,137	7.7%
MONT BELVIEU ETHANE 5 DECIMAL	C0	104,548	250.5%	29,828	-0.8%
MONT BELVIEU ETHANE OPIS BALMO	8C	375	316.7%	90	400.0%
MONT BELVIEU LDH PROPANE 5 DECIMAL	B0	137,635	35.3%	101,751	-4.5%
MONT BELVIEU LDH PROPANE OPIS BALMO	8O	2,165	364.6%	466	259.0%
MONT BELVIEU NATURAL GASOLINE 5 DEC	7Q	17,270	83.8%	9,395	3.1%
MONT BELVIEU NATURAL GASOLINE BALMO	R0	200	81.8%	110	900.0%
MONT BELVIEU NORMAL BUTANE 5 DECIMAL	D0	38,590	14.8%	33,605	2.5%
MONT BELVIEU NORMAL BUTANE BALMO	8J	582	98.6%	293	72.7%
NAT GAS BASIS SWAP	SGW	0	-	0	-
NAT GAS BASIS SWAP	TZ6	13,540	435.4%	2,529	-1.6%
NATURAL GAS	HBI	0	-	0	-
NATURAL GAS	XAC	0	-	0	-
NATURAL GAS	XSC	0	-	0	-
NATURAL GAS FIXED PRICE SWAP FUTURES	CFS	0	-100.0%	1,464	124
NATURAL GAS FIXED PRICE SWAP FUTURES	DSF	1,620	-69.1%	5,244	1,924
NATURAL GAS FIXED PRICE SWAP FUTURES	MFS	0	-100.0%	1,464	124
NATURAL GAS FIXED PRICE SWAP FUTURES	PFS	0	-100.0%	264	22
NATURAL GAS FIXED PRICE SWAP FUTURES	WFS	0	-100.0%	330	28
NATURAL GAS FIXED PRICE SWAP FUTURES	Z5P	0	-	0	-
NATURAL GAS FIXED PRICE SWAP FUTURES	ZTS	0	-100.0%	36	4
NATURAL GAS INDEX	TZI	2,308	-	0	2,668
NATURAL GAS PEN SWP	NP	279,942	-11.4%	315,947	292,150
NEPOOL CNCTCT 5MW D AH O	P3	6,736	22.9%	5,480	8,661
NEPOOL CONECTIC 5MW D AH	P2	359	20.5%	298	464
NEPOOL INTR HUB 5MW D AH	H2	566,992	57.4%	360,248	580,360
NEPOOL INTR HUB 5MW D AH	U6	39,081	115.9%	18,102	38,667
NEPOOL MAINE 5MW D AH O E	W2	0	-	0	-
NEPOOL MAINE 5MW D AH PK	P9	0	-	0	-
NEPOOL NE MASS 5MW D AH O	P8	0	-100.0%	1,568	0
NEPOOL NE MASS 5MW D AH P	P7	0	-100.0%	88	0
NEPOOL NEW HAMP 5MW D AH	U2	0	-100.0%	44	0
NEPOOL NEW HAMP 5MW D AH	U3	0	-100.0%	784	0
NEPOOL RHD ISLD 5MW D AH	U4	2,327	-80.9%	12,153	2,936
NEPOOL RHODE IL 5MW D AH	U5	40,401	-77.5%	179,426	48,871
NEPOOL SE MASS 5MW D AH O	P5	0	-100.0%	392	0
NEPOOL SE MASS 5MW D AH P	P4	0	-100.0%	22	0
NEPOOL W CNT MASS 5MW D A	L9	11,024	-74.8%	43,728	12,564
NEPOOL W CNTR M 5MW D AH	R6	1,138	-56.9%	2,643	1,348
NEW ENGLAND HUB PEAK DAIL	CE	1,356	-34.0%	2,053	1,440
NEW YORK ETHANOL SWAP	EZ	2,225	-2.8%	2,290	2,600
NEW YORK HUB ZONE G PEAK	GN	3,592	85.9%	1,932	3,546
NEW YORK HUB ZONE J PEAK	JN	1,177	9.7%	1,073	2,257
NGPL MID-CONTINENT	NL	33,621	-12.5%	38,422	34,840
NGPL MIDCONTINENT INDEX	IW	0	-	0	180
NGPL MIDCONTINENT SWING S	PX	0	-	0	-
NGPL TEX/OK	PD	40,686	-38.3%	65,959	40,651
NGPL TEXOK INDEX	OI	0	-	0	-
NGPL TEXOK SWING SWAP	OX	0	-	0	-

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Energy Futures						
N ILLINOIS HUB DAILY	UD	198	92	115.2%	198	0.0%
N ILLINOIS HUB MTHLY	UM	260	596	-56.4%	280	-7.1%
NO 2 UP-DOWN SPREAD CALEN	UT	1,007	1,025	-1.8%	278	262.2%
NORTHEN NATURAL GAS DEMAR	PE	3,144	2,348	33.9%	3,521	-10.7%
NORTHEN NATURAL GAS VENTU	PF	5,584	2,567	117.5%	5,925	-5.8%
NORTHERN ILLINOIS OFF-PEA	UO	80	1,124	-92.9%	160	-50.0%
NORTHWEST ROCKIES BASIS S	NR	74,433	66,563	11.8%	78,129	-4.7%
N ROCKIES PIPE SWAP	XR	546	759	-28.1%	608	-10.2%
NY1% VS GC SPREAD SWAP	VR	7,062	6,925	2.0%	5,214	35.4%
NY 2.2% FUEL OIL (PLATTS	Y3	300	685	-56.2%	300	0.0%
NY 3.0% FUEL OIL (PLATTS	H1	575	1,775	-67.6%	775	-25.8%
NY HARBOR 1% FUEL OIL BAL	VK	50	0	-	0	-
NY HARBOR HEAT OIL SWP	MP	14,333	17,627	-18.7%	11,884	20.6%
NY HARBOR LOW SULPUR GAS 1000MBBL	NLS	2,327	800	190.9%	1,856	25.4%
NY HARBOR LOW SULPUR GASOIL 1000MT	SLS	0	0	-	0	-
NY HARBOR RESIDUAL FUEL 1	MM	5,565	7,559	-26.4%	7,143	-22.1%
NY HARBOR RESIDUAL FUEL C	ML	0	0	-	0	-
NYH NO 2 CRACK SPREAD CAL	HK	11,592	15,167	-23.6%	12,418	-6.7%
NY H OIL PLATTS VS NYMEX	YH	0	33	-100.0%	0	-
NYISO A	KA	420	5,750	-92.7%	840	-50.0%
NYISO A OFF-PEAK	KB	140	1,796	-92.2%	270	-48.1%
NYISO CAPACITY	LHV	286	0	-	290	-1.4%
NYISO CAPACITY	NNC	1,556	2,398	-35.1%	1,706	-8.8%
NYISO CAPACITY	NRS	1,832	3,378	-45.8%	2,044	-10.4%
NYISO G	KG	42	965	-95.6%	84	-50.0%
NYISO G OFF-PEAK	KH	20	386	-94.8%	40	-50.0%
NYISO J	KJ	1,907	6,132	-68.9%	2,243	-15.0%
NYISO J OFF-PEAK	KK	402	964	-58.3%	444	-9.5%
NYISO ZONE A 5MW D AH O P	K4	170,760	334,920	-49.0%	164,280	3.9%
NYISO ZONE A 5MW D AH PK	K3	6,915	15,047	-54.0%	7,335	-5.7%
NYISO ZONE C 5MW D AH O P	A3	9,384	24,304	-61.4%	18,239	-48.5%
NYISO ZONE C 5MW D AH PK	Q5	483	1,319	-63.4%	966	-50.0%
NYISO ZONE G 5MW D AH O P	D2	277,288	212,478	30.5%	302,176	-8.2%
NYISO ZONE G 5MW D AH PK	T3	19,145	21,954	-12.8%	18,557	3.2%
NYISO ZONE J 5MW D AH O P	D4	182,896	57,930	215.7%	193,096	-5.3%
NYISO ZONE J 5MW D AH PK	D3	11,601	9,019	28.6%	11,832	-2.0%
NY JET FUEL (ARGUS) VS HEATING OIL	5U	0	0	-	0	-
NY JET FUEL (PLATTS) HEAT OIL SWAP	1U	0	20	-100.0%	0	-
NYMEX ALUMINUM FUTURES	AN	926	1,903	-51.3%	1,549	-40.2%
NYMEX ULSD VS NYMEX HO	UY	30	1,013	-97.0%	60	-50.0%
NY ULSD (ARGUS) VS HEATING OIL	7Y	5,284	4,323	22.2%	5,081	4.0%
ONEOK OKLAHOMA NG BASIS	8X	1,907	3,587	-46.8%	2,323	-17.9%
ONTARIO POWER SWAPS	OFD	3,312	6,240	-46.9%	2,760	20.0%
ONTARIO POWER SWAPS	OFM	46,960	160,947	-70.8%	56,344	-16.7%
ONTARIO POWER SWAPS	OPD	120	400	-70.0%	130	-7.7%
ONTARIO POWER SWAPS	OPM	1,375	6,690	-79.4%	1,690	-18.6%
PANHANDLE BASIS SWAP FUTU	PH	39,968	47,095	-15.1%	44,453	-10.1%
PANHANDLE INDEX SWAP FUTU	IV	0	620	-100.0%	0	-
PANHANDLE PIPE SWAP	XH	0	0	-	0	-
PERMIAN BASIS SWAP	PM	21,332	16,778	27.1%	22,429	-4.9%
PETROCHEMICALS	22	38	66	-42.4%	77	-50.6%
PETROCHEMICALS	32	147	112	31.3%	60	145.0%
PETROCHEMICALS	51	0	0	-	0	-

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Energy Futures						
PETROCHEMICALS	81	0	-	0	-	
PETROCHEMICALS	8I	2,149	2,689	-20.1%	1,979	8.6%
PETROCHEMICALS	91	343	105	226.7%	371	-7.5%
PETROCHEMICALS	HPE	4	31	-87.1%	8	-50.0%
PETROCHEMICALS	LPE	0	20	-100.0%	0	-
PETROCHEMICALS	MAC	0	0	-	0	-
PETROCHEMICALS	MAE	40	70	-42.9%	80	-50.0%
PETROCHEMICALS	MAS	30	40	-25.0%	20	50.0%
PETROCHEMICALS	MBE	2,560	3,210	-20.2%	2,785	-8.1%
PETROCHEMICALS	MNB	3,046	1,619	88.1%	3,575	-14.8%
PETRO CRCKS & SPRDS ASIA	STI	0	762	-100.0%	0	-
PETRO CRCKS & SPRDS ASIA	STR	0	355	-100.0%	0	-
PETRO CRCKS & SPRDS ASIA	STS	170	26	553.8%	190	-10.5%
PETRO CRCKS & SPRDS NA	CBA	0	0	-	0	-
PETRO CRCKS & SPRDS NA	CRB	524	1,933	-72.9%	453	15.7%
PETRO CRCKS & SPRDS NA	EXR	2,825	1,009	180.0%	2,506	12.7%
PETRO CRCKS & SPRDS NA	FOC	2,290	4,260	-46.2%	2,940	-22.1%
PETRO CRCKS & SPRDS NA	GBB	2,095	0	-	250	738.0%
PETRO CRCKS & SPRDS NA	GCC	1,000	700	42.9%	675	48.1%
PETRO CRCKS & SPRDS NA	GCI	4,346	3,501	24.1%	3,912	11.1%
PETRO CRCKS & SPRDS NA	GCM	22	0	-	0	-
PETRO CRCKS & SPRDS NA	GCU	24,724	28,539	-13.4%	23,301	6.1%
PETRO CRCKS & SPRDS NA	GFC	0	0	-	250	-100.0%
PETRO CRCKS & SPRDS NA	HOB	13,515	13,353	1.2%	13,198	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	-	0	-
PETRO CRCKS & SPRDS NA	NYF	325	875	-62.9%	350	-7.1%
PETRO CRCKS & SPRDS NA	NYH	450	0	-	450	0.0%
PETRO CRCKS & SPRDS NA	RBB	21,162	22,841	-7.4%	22,920	-7.7%
PETRO CRCKS & SPRDS NA	RVG	19,130	3,341	472.6%	15,431	24.0%
PETRO CRCKS & SPRDS NA	SF3	30	0	-	30	0.0%
PETRO CRK&SPRD EURO	1NB	3,556	4,405	-19.3%	3,568	-0.3%
PETRO CRK&SPRD EURO	1ND	0	0	-	0	-
PETRO CRK&SPRD EURO	43	222	30	640.0%	7	3,071.4%
PETRO CRK&SPRD EURO	BFR	5	120	-95.8%	10	-50.0%
PETRO CRK&SPRD EURO	BOB	5,187	4,661	11.3%	5,523	-6.1%
PETRO CRK&SPRD EURO	EBF	0	0	-	0	-
PETRO CRK&SPRD EURO	EOB	31	106	-70.8%	35	-11.4%
PETRO CRK&SPRD EURO	EPN	645	151	327.2%	632	2.1%
PETRO CRK&SPRD EURO	EVC	6,831	3,301	106.9%	6,721	1.6%
PETRO CRK&SPRD EURO	FBT	0	120	-100.0%	0	-
PETRO CRK&SPRD EURO	FVB	0	19	-100.0%	0	-
PETRO CRK&SPRD EURO	GCB	0	0	-	0	-
PETRO CRK&SPRD EURO	GOC	132	182	-27.5%	130	1.5%
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	31	157	-80.3%	62	-50.0%
PETRO CRK&SPRD EURO	MUD	316	158	100.0%	273	15.8%
PETRO CRK&SPRD EURO	NBB	23	0	-	0	-
PETRO CRK&SPRD EURO	NOB	1,271	731	73.9%	1,199	6.0%

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Energy Futures					
PETRO CRK&SPRD EURO	0	0	-	0	-
PETRO CRK&SPRD EURO	0	0	-	0	-
PETRO CRK&SPRD EURO	0	0	-	0	-
PETROLEUM PRODUCTS	0	0	-	0	-
PETROLEUM PRODUCTS	0	0	-	0	-
PETROLEUM PRODUCTS	0	0	-	0	-
PETROLEUM PRODUCTS	0	0	-	0	-
PETROLEUM PRODUCTS	0	0	-	0	-
PETROLEUM PRODUCTS	0	0	-	0	-
PETROLEUM PRODUCTS	0	0	-	0	-
PETROLEUM PRODUCTS	15	0	-	0	-
PETROLEUM PRODUCTS	8,218	0	-	7,146	15.0%
PETROLEUM PRODUCTS	0	0	-	0	-
PETROLEUM PRODUCTS	0	0	-	0	-
PETROLEUM PRODUCTS	0	0	-	0	-
PETROLEUM PRODUCTS	0	0	-	0	-
PETROLEUM PRODUCTS	0	0	-	0	-
PETROLEUM PRODUCTS	336	172	95.3%	129	160.5%
PETROLEUM PRODUCTS ASIA	35	50	-30.0%	0	-
PETROLEUM PRODUCTS ASIA	2,092	1,977	5.8%	2,206	-5.2%
PETRO OUTRIGHT EURO	0	0	-	0	-
PETRO OUTRIGHT EURO	165	115	43.5%	120	37.5%
PETRO OUTRIGHT EURO	95	0	-	20	375.0%
PETRO OUTRIGHT EURO	9,764	7,953	22.8%	9,600	1.7%
PETRO OUTRIGHT EURO	658	1,011	-34.9%	1,376	-52.2%
PETRO OUTRIGHT EURO	1,817	1,830	-0.7%	2,142	-15.2%
PETRO OUTRIGHT EURO	0	7	-100.0%	0	-
PETRO OUTRIGHT EURO	193	219	-11.9%	200	-3.5%
PETRO OUTRIGHT EURO	0	0	-	0	-
PETRO OUTRIGHT EURO	238	170	40.0%	266	-10.5%
PETRO OUTRIGHT EURO	205	188	9.0%	160	28.1%
PETRO OUTRIGHT EURO	0	0	-	0	-
PETRO OUTRIGHT EURO	539	189	185.2%	0	-
PETRO OUTRIGHT EURO	0	0	-	0	-
PETRO OUTRIGHT EURO	280	249	12.4%	471	-40.6%
PETRO OUTRIGHT EURO	5	10	-50.0%	0	-
PETRO OUTRIGHT EURO	0	0	-	30	-100.0%
PETRO OUTRIGHT EURO	0	0	-	0	-
PETRO OUTRIGHT EURO	50	0	-	281	-82.2%
PETRO OUTRIGHT EURO	63	0	-	33	90.9%
PETRO OUTRIGHT EURO	238	4	5,850.0%	148	60.8%
PETRO OUTRIGHT EURO	209	86	143.0%	341	-38.7%
PETRO OUTRIGHT EURO	453	268	69.0%	423	7.1%
PETRO OUTRIGHT EURO	20	0	-	20	0.0%
PETRO OUTRIGHT EURO	0	0	-	0	-
PETRO OUTRIGHT EURO	2,833	3,981	-28.8%	3,068	-7.7%
PETRO OUTRIGHT EURO	0	0	-	0	-
PETRO OUTRIGHT EURO	0	0	-	100	-100.0%
PETRO OUTRIGHT EURO	760	234	224.8%	766	-0.8%
PETRO OUTRIGHT EURO	0	0	-	0	-
PETRO OUTRIGHT EURO	355	382	-7.1%	230	54.3%
PETRO OUTRIGHT EURO	0	0	-	0	-
PETRO OUTRIGHT EURO	0	0	-	0	-

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Energy Futures					
PETRO OUTRIGHT EURO	0	0	-	0	-
PETRO OUTRIGHT NA	0	0	-	0	-
PETRO OUTRIGHT NA	0	0	-	0	-
PETRO OUTRIGHT NA	478	108	342.6%	64	646.9%
PETRO OUTRIGHT NA	0	0	-	0	-
PETRO OUTRIGHT NA	0	0	-	0	-
PETRO OUTRIGHT NA	0	0	-	0	-
PETRO OUTRIGHT NA	0	0	-	0	-
PETRO OUTRIGHT NA	44	320	-86.3%	88	-50.0%
PETRO OUTRIGHT NA	8,053	2,660	202.7%	9,255	-13.0%
PETRO OUTRIGHT NA	198	243	-18.5%	230	-13.9%
PETRO OUTRIGHT NA	564	685	-17.7%	629	-10.3%
PETRO OUTRIGHT NA	8,358	8,804	-5.1%	10,170	-17.8%
PETRO OUTRIGHT NA	55	122	-54.9%	101	-45.5%
PETRO OUTRIGHT NA	374	281	33.1%	519	-27.9%
PETRO OUTRIGHT NA	0	0	-	0	-
PETRO OUTRIGHT NA	0	0	-	125	-100.0%
PETRO OUTRIGHT NA	0	30	-100.0%	0	-
PGE&E CITYGATE	0	0	-	0	-
PJM AD HUB 5MW REAL TIME	913,860	1,649,567	-44.6%	902,607	1.2%
PJM AD HUB 5MW REAL TIME	40,790	76,802	-46.9%	43,394	-6.0%
PJM AEEO DA OFF-PEAK	21,015	74,922	-72.0%	24,480	-14.2%
PJM AEEO DA PEAK	1,143	4,087	-72.0%	1,332	-14.2%
PJM APS ZONE DA OFF-PEAK	1,224	15,288	-92.0%	2,379	-48.5%
PJM APS ZONE DA PEAK	63	831	-92.4%	126	-50.0%
PJM ATSI ELEC	39,365	23,400	68.2%	41,290	-4.7%
PJM ATSI ELEC	2,115	1,275	65.9%	2,220	-4.7%
PJM BGE DA OFF-PEAK	35,095	16,383	114.2%	35,480	-1.1%
PJM BGE DA PEAK	1,912	915	109.0%	1,933	-1.1%
PJM COMED 5MW D AH O PK	134,515	90,597	48.5%	157,615	-14.7%
PJM COMED 5MW D AH PK	7,310	7,502	-2.6%	8,570	-14.7%
PJM DAILY	754	346	117.9%	692	9.0%
PJM DAYTON DA OFF-PEAK	114,960	221,920	-48.2%	117,000	-1.7%
PJM DAYTON DA PEAK	24,183	17,690	36.7%	25,170	-3.9%
PJM DPL DA OFF-PEAK	0	0	-	0	-
PJM DPL DA PEAK	0	0	-	0	-
PJM DUQUESNE 5MW D AH PK	0	0	-	0	-
PJM DUQUS 5MW D AH O PK	0	0	-	0	-
PJM EASTERNH DA PEAK	0	0	-	0	-
PJM JCPL DA OFF-PEAK	23,350	70,230	-66.8%	27,200	-14.2%
PJM JCPL DA PEAK	1,270	3,830	-66.8%	1,480	-14.2%
PJM NI HUB 5MW REAL TIME	61,025	47,780	27.7%	44,525	37.1%
PJM NI HUB 5MW REAL TIME	1,176,715	1,318,029	-10.7%	804,385	46.3%
PJM NILL DA OFF-PEAK	1,066,671	430,435	147.8%	1,014,827	5.1%
PJM NILL DA PEAK	44,984	21,341	110.8%	46,796	-3.9%
PJM OFF-PEAK LMP SWAP FUT	1,272	4,430	-71.3%	1,516	-16.1%
PJM PECO ZONE5MW PEAK CAL MO DAY AH	0	44	-100.0%	0	-
PJM PEPKO DA OFF-PEAK	0	0	-	0	-
PJM PEPKO DA PEAK	0	0	-	0	-
PJM PPL DA OFF-PEAK	5,304	64,680	-91.8%	10,309	-48.5%
PJM PPL DA PEAK	273	3,601	-92.4%	546	-50.0%
PJM PSEG DA OFF-PEAK	128,675	1,960	6,465.1%	130,600	-1.5%
PJM PSEG DA PEAK	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	22	-100.0%	0	-
PJM WESTH DA OFF-PEAK	E4	1,102,537	1,304,169	-15.5%	870,257	26.7%
PJM WESTHDA PEAK	J4	62,552	70,083	-10.7%	49,654	26.0%
PJM WESTH RT OFF-PEAK	N9	2,410,018	3,448,667	-30.1%	2,602,641	-7.4%
PJM WESTH RT PEAK	L1	164,154	173,071	-5.2%	166,548	-1.4%
PLASTICS	PGP	1,634	2,099	-22.2%	1,662	-1.7%
PLASTICS	PPP	0	0	-	0	-
PREMIUM UNLD 10P FOB MED	3G	196	446	-56.1%	206	-4.9%
PREMIUM UNLD 10PPM CARGOE	4G	0	0	-	0	-
PREMIUM UNLEAD 10PPM FOB	8G	23	0	-	5	360.0%
PREM UNL GAS 10PPM RDAM FOB BALMO	7N	0	0	-	0	-
PREM UNL GAS 10PPM RDAM FOB SWAP	7L	5	80	-93.8%	11	-54.5%
PROPANE NON-LDH MB (OPIS) BALMO SWP	1S	150	0	-	112	33.9%
PROPANE NON-LDH MT. BEL (OPIS) SWP	1R	38,127	25,514	49.4%	39,012	-2.3%
RBOB CALENDAR SWAP	RL	13,675	18,017	-24.1%	13,650	0.2%
RBOB CRACK SPREAD	RM	3,889	3,377	15.2%	3,143	23.7%
RBOB CRACK SPREAD BALMO S	1E	60	0	-	0	-
RBOB GASOLINE BALMO CLNDR	1D	2,312	1,367	69.1%	1,343	72.2%
RBOB PHY	RBL	0	0	0.0%	0	0.0%
RBOB (PLATTS) CAL SWAP	RY	0	0	-	0	-
RBOB SPREAD (PLATTS) SWAP	RI	38	97	-60.8%	44	-13.6%
RBOB UP-DOWN CALENDAR SWA	RV	0	19,872	-100.0%	0	-
RBOB VS HEATING OIL SWAP	RH	4,018	3,415	17.7%	3,268	22.9%
ROCKIES KERN OPAL - NW IN	IR	0	1,220	-100.0%	0	-
SAN JUAN BASIS SWAP	NJ	39,271	15,316	156.4%	40,511	-3.1%
SAN JUAN PIPE SWAP	XX	0	0	-	0	-
SINGAPORE 180CST BALMO	BS	35	23	52.2%	24	45.8%
SINGAPORE 380CST BALMO	BT	174	25	596.0%	397	-56.2%
SINGAPORE 380CST FUEL OIL	SE	14,187	7,941	78.7%	13,398	5.9%
SINGAPORE FUEL 180CST CAL	UA	2,333	1,764	32.3%	1,636	42.6%
SINGAPORE FUEL OIL SPREAD	SD	1,472	881	67.1%	1,682	-12.5%
SINGAPORE GASOIL	MTB	379	90	321.1%	585	-35.2%
SINGAPORE GASOIL	MTS	6,677	5,288	26.3%	7,146	-6.6%
SINGAPORE GASOIL	STF	0	0	-	0	-
SINGAPORE GASOIL	STL	0	0	-	0	-
SINGAPORE GASOIL	STZ	0	50	-100.0%	0	-
SINGAPORE GASOIL CALENDAR	MSG	48	100	-52.0%	6	700.0%
SINGAPORE GASOIL SWAP	SG	22,499	3,231	596.3%	21,304	5.6%
SINGAPORE GASOIL VS ICE	GA	18,968	3,520	438.9%	16,885	12.3%
SINGAPORE JET KERO BALMO	BX	0	0	-	0	-
SINGAPORE JET KERO GASOIL	RK	6,110	940	550.0%	3,810	60.4%
SINGAPORE JET KEROSENE SW	KS	2,013	2,862	-29.7%	2,006	0.3%
SINGAPORE JET KERO VS. GASOIL BALMO	ZO	0	0	-	0	-
SINGAPORE MOGAS 92 UNLEADED BALMO	1P	375	210	78.6%	1,386	-72.9%
SINGAPORE MOGAS 92 UNLEADED SWP	1N	20,694	12,718	62.7%	21,419	-3.4%
SINGAPORE NAPHTHA BALMO	KU	0	0	-	0	-
SINGAPORE NAPHTHA SWAP	SP	0	0	-	0	-
SING FUEL	MSD	5	0	-	35	-85.7%
SOCAL BASIS SWAP	NS	0	0	-	0	-
SOCAL PIPE SWAP	XN	2,280	0	-	2,952	-22.8%
SONAT BASIS SWAP FUTURE	SZ	916	6,612	-86.1%	792	15.7%
SOUTHERN NAT LA NAT GAS	M8	0	0	-	0	-
SOUTH STAR TEX OKLHM KNS	8Z	554	1,402	-60.5%	554	0.0%

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Energy Futures						
Sumas Basis Swap	NK	8,789	10,773	-18.4%	9,626	-8.7%
SUMAS NAT GAS PLATTS FIXED PRICE	DVS	761	1,737	-56.2%	823	-7.5%
TC2 ROTTERDAM TO USAC 37K	TM	0	0	-	0	-
TC5 RAS TANURA TO YOKOHAM	TH	0	0	-	0	-
TCO BASIS SWAP	TC	26,585	45,385	-41.4%	28,502	-6.7%
TCO NG INDEX SWAP	Q1	248	3,176	-92.2%	728	-65.9%
TD3 MEG TO JAPAN 250K MT	TL	0	0	-	0	-
TENN 800 LEG NAT GAS INDE	L4	0	2,562	-100.0%	0	-
TENNESSEE 500 LEG BASIS S	NM	936	2,196	-57.4%	1,029	-9.0%
TENNESSEE 500 LEG NG INDE	Y7	0	0	-	0	-
TENNESSEE 500 LEG NG SWIN	T7	0	0	-	0	-
TENNESSEE 800 LEG NG BASI	6Z	608	2,074	-70.7%	732	-16.9%
TENNESSEE ZONE 0 BASIS SW	NQ	1,752	1,032	69.8%	2,000	-12.4%
Tetco ELA Basis	TE	0	0	-	0	-
TETCO M-3 INDEX	IX	6,364	10,208	-37.7%	6,976	-8.8%
Tetco STX Basis	TX	1,915	3,171	-39.6%	2,008	-4.6%
TEXAS EASTERN ZONE M-3 BA	NX	21,530	14,848	45.0%	22,376	-3.8%
TEXAS GAS ZONE1 NG BASIS	9F	13,948	15,778	-11.6%	14,103	-1.1%
TRANSCO ZONE 1 NG BASIS	8E	0	0	-	0	-
Transco Zone 3 Basis	CZ	7,300	10,158	-28.1%	7,300	0.0%
TRANSCO ZONE4 BASIS SWAP	TR	22,821	38,280	-40.4%	21,267	7.3%
TRANSCO ZONE 4 NAT GAS IN	B2	0	310	-100.0%	0	-
TRANSCO ZONE 6 BASIS SWAP	NZ	7,342	4,639	58.3%	6,893	6.5%
TRANSCO ZONE 6 INDEX	IT	1,824	0	-	2,124	-14.1%
TRANSCO ZONE 6 PIPE SWAP	XZ4	0	0	-	0	-
UCM FUT	UCM	50	50	0.0%	72	-30.6%
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	36	388	-90.7%	45	-20.0%
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	8,800	7,798	12.8%	8,458	4.0%
UP DOWN GC ULSD VS NMX HO	LT	51,984	46,382	12.1%	54,203	-4.1%
USGC UNL 87 CRACK SPREAD	RU	0	1,150	-100.0%	0	-
VENTURA NAT GAS PLATTS FIXED PRICE	DVA	0	0	-	0	-
WAHA BASIS	NW	12,360	17,083	-27.6%	13,328	-7.3%
WAHA INDEX SWAP FUTURE	IY	968	1,712	-43.5%	1,268	-23.7%
WESTERN RAIL DELIVERY PRB	QP	1,700	3,455	-50.8%	1,500	13.3%
WTI-BRENT BULLET SWAP	BY	500	0	-	500	0.0%
WTI-BRENT CALENDAR SWAP	BK	49,622	98,300	-49.5%	50,789	-2.3%
WTI CALENDAR	CS	125,487	125,723	-0.2%	119,252	5.2%
WTS (ARGUS) VS WTI SWAP	FF	48,137	39,111	23.1%	41,750	15.3%
WTS (ARGUS) VS WTI TRD MT	FH	2,435	3,825	-36.3%	2,670	-8.8%
Energy Options						
1 MO GASOIL CAL SWAP SPR	GXA	0	100	-100.0%	50	-100.0%
APPALACHIAN COAL	6K	0	0	-	0	-
BRENT 1 MONTH CAL	AA	0	0	-	0	-
BRENT CALENDAR SWAP	BA	22,776	121,177	-81.2%	24,041	-5.3%
BRENT OIL LAST DAY	BE	2,670	6,658	-59.9%	3,940	-32.2%
BRENT OIL LAST DAY	BZO	60,893	720	8,357.4%	59,365	2.6%
BRENT OIL LAST DAY	OS	20,428	36,544	-44.1%	20,432	0.0%
COAL API2 INDEX	CLA	1,320	6,150	-78.5%	29,296	-95.5%



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Energy Options						
COAL API2 INDEX	CQA	2,100	28,030	-92.5%	100	2,000.0%
COAL API2 INDEX	MTC	25	0	-	0	-
COAL API4 INDEX	RLA	0	50	-100.0%	150	-100.0%
COAL API4 INDEX	RQA	110	150	-26.7%	210	-47.6%
COAL SWAP	CPF	0	185	-100.0%	120	-100.0%
COAL SWAP	RPF	810	2,610	-69.0%	1,080	-25.0%
CRUDE OIL 1MO	WA	676,972	210,600	221.4%	643,079	5.3%
CRUDE OIL APO	AO	302,491	369,623	-18.2%	265,331	14.0%
CRUDE OIL CALNDR STRIP	6F	0	0	0.0%	0	-
CRUDE OIL OUTRIGHTS	AH	350	21,600	-98.4%	550	-36.4%
CRUDE OIL OUTRIGHTS	DBP	210	4,015	-94.8%	420	-50.0%
CRUDE OIL PHY	CD	0	0	-	0	-
CRUDE OIL PHY	LC	66,991	93,235	-28.1%	56,519	18.5%
CRUDE OIL PHY	LO	2,457,680	2,455,144	0.1%	2,688,852	-8.6%
CRUDE OIL PHY	LO1	2,127	0	0.0%	13,269	-84.0%
CRUDE OIL PHY	LO2	355	236	50.4%	707	-49.8%
CRUDE OIL PHY	LO3	0	56	-100.0%	724	-100.0%
CRUDE OIL PHY	LO4	0	0	-	0	-
CRUDE OIL PHY	LO5	0	0	-	0	-
DAILY CRUDE OIL	DNM	0	0	-	0	-
ELEC FINSETTLED	PML	0	48	-100.0%	0	0.0%
ELEC MISO PEAK	9T	0	1,720	-100.0%	0	-
ELEC MISO PEAK	OEM	0	0	-	0	-
ELECTRICITY OFF PEAK	N9P	0	0	-	0	-
ETHANOL	CE1	100	0	-	0	-
ETHANOL	CE3	300	0	-	0	-
ETHANOL SWAP	CVR	18,359	10,692	71.7%	17,327	6.0%
ETHANOL SWAP	GVR	3,125	4,899	-36.2%	3,262	-4.2%
EURO-DENOMINATED PETRO PROD	EFB	0	0	-	0	-
EURO-DENOMINATED PETRO PROD	NWE	0	5	-100.0%	0	-
EUROPEAN JET KEROSENE NWE (PLATTS) AVG PRC	30	10	0	-	20	-50.0%
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	0	0	-	100	-100.0%
HEATING OIL PHY	LB	916	770	19.0%	640	43.1%
HEATING OIL PHY	OH	53,129	49,889	6.5%	54,447	-2.4%
HENRY HUB FINANCIAL LAST	E7	11,960	6,475	84.7%	11,829	1.1%
HO 1 MONTH CLNDR OPTIONS	FA	0	500	-100.0%	0	0.0%
HUSTN SHIP CHNL PIPE SWP	PK	0	600	-100.0%	0	-
ISO NEW ENGLAND PK LMP	OE	0	0	-	0	-
LLS CRUDE OIL	WJO	8,700	4,080	113.2%	9,290	-6.4%
MCCLOSKEY ARA ARGS COAL	MTO	905	5,780	-84.3%	905	0.0%
MCCLOSKEY RCH BAY COAL	MFO	75	980	-92.3%	75	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	61,650	21,530	186.3%	43,550	41.6%
NATURAL GAS 2 M CSO FIN	G2	100	0	-	1,380	-92.8%
NATURAL GAS 3 M CSO FIN	G3	700	1,650	-57.6%	350	100.0%
NATURAL GAS 5 M CSO FIN	G5	0	0	-	0	-
NATURAL GAS 6 M CSO FIN	G6	5,100	3,000	70.0%	5,100	0.0%
NATURAL GAS OPTION ON CALENDAR STRP	6J	2,278	6,588	-65.4%	17,906	-87.3%
NATURAL GAS PHY	KD	0	0	0.0%	0	0.0%
NATURAL GAS PHY	LN	2,282,427	2,666,141	-14.4%	2,352,528	-3.0%

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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	-
SHORT TERM NATURAL GAS	U29	0	0	-	0	-
SHORT TERM NATURAL GAS	U30	0	0	0.0%	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	1,120	1,500	-25.3%	980	14.3%
SOCAL PIPE SWAP	ZN	4,800	0	-	6,000	-20.0%
WTI 12 MONTH CALENDAR OPT	WZ	0	0	-	0	-
WTI 6 MONTH CALENDAR OPTI	WM	0	0	-	0	-
WTI-BRENT BULLET SWAP	BV	97,545	25,810	277.9%	21,050	363.4%
WTI CRUDE OIL 12 M CSO F	7Z	0	0	-	0	-
WTI CRUDE OIL 1 M CSO FI	7A	395,136	305,194	29.5%	384,314	2.8%
Metals Futures						
COMEX GOLD	GC	423,967	415,636	2.0%	404,424	4.8%
NYMEX HOT ROLLED STEEL	HR	13,287	25,266	-47.4%	17,151	-22.5%
NYMEX PLATINUM	PL	62,997	65,383	-3.6%	69,055	-8.8%
PALLADIUM	PA	23,829	24,483	-2.7%	26,712	-10.8%
URANIUM	UX	4,451	4,217	5.5%	4,751	-6.3%
COMEX SILVER	SI	164,943	168,442	-2.1%	160,161	3.0%
COMEX E-Mini GOLD	QO	1,972	1,269	55.4%	1,912	3.1%
E-MINI SILVER	6Q	0	0	-	0	-
COMEX E-Mini SILVER	QI	161	121	33.1%	143	12.6%
COMEX COPPER	HG	224,939	165,936	35.6%	240,760	-6.6%
COMEX MINY COPPER	QC	86	93	-7.5%	132	-34.8%
Aluminium MW Trans Prem Platts	AUP	33,544	22,008	52.4%	34,446	-2.6%
ALUMINUM	A38	66	0	-	41	61.0%
ALUMINUM	AEP	5,963	4,214	41.5%	6,102	-2.3%
ALUMINUM	ALA	60	0	-	60	0.0%
ALUMINUM	ALI	220	178	23.6%	59	272.9%
ALUMINUM	EDP	7,483	0	-	6,859	9.1%
ALUMINUM	MJP	5,086	0	-	4,606	10.4%
COPPER	HGS	1,996	5,582	-64.2%	2,286	-12.7%
E-MICRO GOLD	MGC	2,917	1,770	64.8%	2,765	5.5%
FERROUS PRODUCTS	BUS	367	0	-	452	-18.8%
FERROUS PRODUCTS	SSF	0	0	-	0	-
GOLD	GPS	0	0	-	0	-
Gold Kilo	GCK	25	7	257.1%	40	-37.5%
IRON ORE 58 CHINA TSI FUTURES	TIC	0	0	-	0	-
IRON ORE 62 CHINA PLATTS FUTURES	PIO	946	90	951.1%	1,106	-14.5%
IRON ORE 62 CHINA TSI FUTURES	TIO	19,371	21,669	-10.6%	20,103	-3.6%
LNDN ZINC	ZNC	3	10	-70.0%	0	0.0%
METALS	LED	0	0	-	0	-

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Metals Futures					
SILVER	851	738	15.3%	777	9.5%
Metals Options					
COMEX COPPER	2,661	2,627	1.3%	3,185	-16.5%
COMEX GOLD	953,182	967,601	-1.5%	951,832	0.1%
COMEX SILVER	104,888	94,193	11.4%	101,204	3.6%
COPPER	0	0	-	0	-
GOLD	653	0	0.0%	907	-28.0%
GOLD	41	2	1,950.0%	83	-50.6%
GOLD	0	0	-	300	-100.0%
GOLD	0	0	-	0	-
GOLD	0	0	-	0	-
HOT ROLLED COIL STEEL CALL OPTION	0	0	-	0	-
HOT ROLLED COIL STEEL PUT OPTION	0	0	-	0	-
IRON ORE 62 CHINA TSI CALL OPTION	13,283	11,456	15.9%	14,608	-9.1%
IRON ORE 62 CHINA TSI PUT OPTION	8,092	24,326	-66.7%	12,854	-37.0%
NYMEX PLATINUM	7,740	2,274	240.4%	6,814	13.6%
PALLADIUM	2,652	3,449	-23.1%	1,939	36.8%
SHORT TERM	0	0	-	0	-
SHORT TERM GOLD	0	0	-	0	-
SHORT TERM GOLD	0	0	-	0	-
SILVER	0	0	-	0	-
SILVER	0	0	-	0	-
SILVER	0	0	-	0	-
SILVER	0	0	-	0	-
SILVER	0	0	-	0	-
TOTAL FUTURES GROUP					
Commodities and Alternative Investments Futures	19	77	-75.3%	12	58.3%
Energy Futures	19,375,981	20,337,500	-4.7%	18,679,629	3.7%
Metals Futures	999,530	927,112	7.8%	1,004,903	-0.5%
TOTAL FUTURES	20,375,530	21,264,689	-4.2%	19,684,544	3.5%



NYMEX/COMEX Exchange Open Interest Report - Monthly

Commodity	Open Interest DEC 2016	Open Interest DEC 2015	% CHG	Open Interest NOV 2016	% CHG
TOTAL OPTIONS GROUP					
Energy Options	6,810,651	6,745,613	1.0%	6,979,842	-2.4%
Metals Options	1,093,192	1,105,928	-1.2%	1,093,726	0.0%
TOTAL OPTIONS	7,903,843	7,851,541	0.7%	8,073,568	-2.1%
TOTAL COMBINED					
Commodities and Alternative Investments	19	77	-75.3%	12	58.3%
Energy	26,186,632	27,083,113	-3.3%	25,659,471	2.1%
Metals	2,092,722	2,033,040	2.9%	2,098,629	-0.3%
GRAND TOTAL	28,279,373	29,116,230	-2.9%	27,758,112	1.9%