

NYMEX/COMEX Exchange Volume Report - Monthly

Commodity		VOLUME OCT 2016	VOLUME OCT 2015	% CHG	VOLUME SEP 2016	% CHG	VOLUME Y.T.D 2016	VOLUME Y.T.D 2015	% CHG
Commodities and Alternative Investments Futures									
COCOA TAS	CJ	30	219	-86.3%	516	-94.2%	2,580	1,193	116.3%
COFFEE	KT	3	36	-91.7%	22	-86.4%	168	584	-71.2%
COTTON	TT	9	43	-79.1%	19	-52.6%	575	552	4.2%
SUGAR 11	YO	2	47	-95.7%	12	-83.3%	415	1,175	-64.7%
Energy Futures									
CRUDE OIL PHY	CL	23,019,383	17,483,575	31.7%	24,332,279	-5.4%	225,412,832	167,993,992	34.2%
CRUDE OIL	WS	424	5,892	-92.8%	4,290	-90.1%	83,389	161,965	-48.5%
MINY WTI CRUDE OIL	QM	227,921	210,853	8.1%	306,798	-25.7%	2,848,927	2,744,725	3.8%
BRENT OIL LAST DAY	BZ	1,548,271	2,094,053	-26.1%	1,572,702	-1.6%	19,080,771	22,248,994	-14.2%
HEATING OIL PHY	HO	3,183,140	3,473,021	-8.3%	3,288,425	-3.2%	32,552,985	30,711,026	6.0%
HTG OIL	BH	24	12	100.0%	0	0.0%	5,426	216	2,412.0%
MINY HTG OIL	QH	7	5	40.0%	5	40.0%	95	81	17.3%
RBOB PHY	RB	3,413,097	3,157,979	8.1%	4,677,239	-27.0%	38,362,454	33,764,591	13.6%
MINY RBOB GAS	QU	3	4	-25.0%	8	-62.5%	45	47	-4.3%
NATURAL GAS	HP	144,472	142,830	1.1%	133,465	8.2%	1,285,461	805,389	59.6%
LTD NAT GAS	HH	247,472	310,727	-20.4%	232,741	6.3%	2,320,124	2,311,000	0.4%
MINY NATURAL GAS	QG	33,276	25,601	30.0%	21,907	51.9%	253,764	268,527	-5.5%
PJM MONTHLY	JM	0	1,008	-100.0%	0	0.0%	2,898	6,802	-57.4%
NATURAL GAS PHY	NG	10,240,061	7,578,267	35.1%	7,646,666	33.9%	78,604,388	67,552,263	16.4%
RBOB GAS	RT	1,396	1,243	12.3%	1,354	3.1%	13,183	11,426	15.4%
3.5% FUEL OIL CID MED SWA	7D	359	90	298.9%	150	139.3%	2,650	526	403.8%
3.5% FUEL OIL CIF BALMO S	8D	67	0	0.0%	0	0.0%	277	143	93.7%
AEP-DAYTON HUB DAILY	VD	0	0	0.0%	0	0.0%	0	0	0.0%
AEP-DAYTON HUB MTHLY	VM	0	0	0.0%	0	0.0%	240	662	-63.7%
AEP-DAYTON HUB OFF-PEAK M	VP	0	0	0.0%	0	0.0%	0	942	-100.0%
ALGON CITY GATES NAT GAS	N7	120	0	0.0%	124	-3.2%	6,224	0	0.0%
ALGONQUIN CITYGATES BASIS	B4	527	154	242.2%	1,674	-68.5%	8,105	1,365	493.8%
ANR LOUISIANA BASIS SWAP	ND	0	0	0.0%	0	0.0%	0	2,996	-100.0%
ANR OKLAHOMA	NE	886	60	1,376.7%	0	0.0%	4,485	7,670	-41.5%
APPALACHIAN COAL (PHY)	QL	0	94	-100.0%	0	0.0%	130	2,556	-94.9%
ARGUS LLS VS. WTI (ARG) T	E5	9,147	5,186	76.4%	5,350	71.0%	124,772	74,972	66.4%
ARGUS PROPAN FAR EST INDE	7E	1,783	848	110.3%	1,642	8.6%	15,564	4,188	271.6%



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Energy Futures									
ARGUS PROPAN(SAUDI ARAMCO	9N	851	698	21.9%	702	21.2%	8,870	5,368	65.2%
AUSTRIALIAN COKE COAL	ALW	228	83	174.7%	683	-66.6%	4,027	1,799	123.8%
BRENT BALMO SWAP	J9	682	320	113.1%	200	241.0%	1,967	4,754	-58.6%
BRENT CALENDAR SWAP	CY	1,000	1,023	-2.2%	242	313.2%	19,002	54,570	-65.2%
BRENT CFD(PLATTS) VS FRNT	1C	0	0	0.0%	0	-	0	0	0.0%
BRENT CFD SWAP	6W	0	0	0.0%	0	0.0%	0	950	-100.0%
BRENT FINANCIAL FUTURES	BB	500	1,750	-71.4%	250	100.0%	2,902	68,296	-95.8%
BRENT FINANCIAL FUTURES	MBC	0	0	-	0	0.0%	1,424	0	-
BRENT FINANCIAL FUTURES	MDB	105	0	0.0%	1,995	-94.7%	2,513	330	661.5%
BRENT OIL LAST DAY	BZL	0	0	0.0%	0	0.0%	0	0	0.0%
BRENT OIL LAST DAY	BZS	0	0	0.0%	0	0.0%	0	0	0.0%
CAISO SP15 EZGNHUB5 MW P	9X	17,930	0	-	0	-	17,930	0	-
CANADIAN LIGHT SWEET OIL	CIL	1,125	3,600	-68.8%	2,130	-47.2%	19,830	10,419	90.3%
CARBON EUA EMISSIONS EURO	RC	0	0	0.0%	0	-	0	0	0.0%
CENTERPOINT BASIS SWAP	PW	214	0	0.0%	2,316	-90.8%	13,180	19,224	-31.4%
CENTERPOINT EAST INDEX	II	0	0	0.0%	0	0.0%	740	677	9.3%
CENTER POINT NAT GAS FIXED PRICE	DAC	0	0	0.0%	0	0.0%	0	32	-100.0%
CHICAGO ETHANOL SWAP	CU	100,099	77,466	29.2%	117,916	-15.1%	1,006,727	884,340	13.8%
CHICAGO ULSD (PLATTS) SWA	4C	0	0	0.0%	0	0.0%	0	0	0.0%
CHICAGO ULSD PL VS HO SPR	5C	132	320	-58.8%	0	0.0%	2,738	4,045	-32.3%
CHICAGO UNL GAS PL VS RBO	3C	0	0	0.0%	215	-100.0%	2,090	345	505.8%
CIG BASIS	CI	3,212	978	228.4%	9,798	-67.2%	78,159	20,428	282.6%
CIG ROCKIES NG INDEX SWA	Z8	0	0	-	0	0.0%	1,054	0	-
CINERGY HUB OFF-PEAK MONT	EJ	0	0	0.0%	0	0.0%	60	630	-90.5%
CINERGY HUB PEAK MONTH	EM	0	0	0.0%	0	0.0%	0	40	-100.0%
CIN HUB 5MW D AH O PK	K2	0	0	0.0%	23,400	-100.0%	298,960	178,560	67.4%
CIN HUB 5MW D AH PK	H5	222	498	-55.4%	1,866	-88.1%	20,760	9,291	123.4%
CIN HUB 5MW REAL TIME O P	H4	4,000	282,080	-98.6%	23,400	-82.9%	993,984	642,952	54.6%
CIN HUB 5MW REAL TIME PK	H3	640	9,429	-93.2%	1,485	-56.9%	65,561	16,649	293.8%
COAL SWAP	ACM	170	315	-46.0%	523	-67.5%	2,623	3,285	-20.2%
COAL SWAP	SSI	0	160	-100.0%	0	0.0%	187	2,962	-93.7%
COLUMB GULF MAINLINE NG B	5Z	214	638	-66.5%	1,903	-88.8%	21,920	22,834	-4.0%
COLUMBIA GULF MAIN NAT G	L2	0	0	0.0%	0	0.0%	2,208	620	256.1%
COLUMBIA GULF NAT GAS FIXED PRICE	DCE	0	0	0.0%	0	0.0%	0	488	-100.0%
COLUMBIA GULF ONSHORE	GL	0	728	-100.0%	0	0.0%	3,108	3,444	-9.8%
CONWAY NATURAL GASOLINE (OPIS) SWAP	8L	0	25	-100.0%	383	-100.0%	1,661	571	190.9%

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CONWAY NORMAL BUTANE (OPIS) SWAP	8M	25	15	66.7%	1,565	-98.4%	2,544	1,859	36.8%
CONWAY PROPANE 5 DECIMALS SWAP	8K	10,594	7,419	42.8%	8,480	24.9%	72,358	44,926	61.1%
CRUDE OIL	CHB	0	0	-	0	0.0%	60	0	-
CRUDE OIL	LPS	4,105	2,510	63.5%	3,705	10.8%	48,620	23,274	108.9%
CRUDE OIL LAST DAY	26	0	0	0.0%	0	-	0	0	0.0%
CRUDE OIL OUTRIGHTS	37	0	0	-	0	0.0%	0	0	-
CRUDE OIL OUTRIGHTS	42	0	525	-100.0%	250	-100.0%	981	11,717	-91.6%
CRUDE OIL OUTRIGHTS	CSW	540	0	-	540	0.0%	1,620	0	-
CRUDE OIL OUTRIGHTS	DBL	200	355	-43.7%	200	0.0%	850	28,612	-97.0%
CRUDE OIL OUTRIGHTS	FE	0	0	0.0%	0	0.0%	0	235	-100.0%
CRUDE OIL OUTRIGHTS	GSW	0	0	-	0	0.0%	90	0	-
CRUDE OIL OUTRIGHTS	HTT	2,630	0	-	3,980	-33.9%	21,123	0	-
CRUDE OIL OUTRIGHTS	WCC	5,220	7,165	-27.1%	3,765	38.6%	49,874	57,468	-13.2%
CRUDE OIL PHY	CLL	0	0	0.0%	0	0.0%	0	0	0.0%
CRUDE OIL SPRDS	38	250	0	0.0%	0	0.0%	675	300	125.0%
CRUDE OIL SPRDS	KE	0	0	0.0%	0	-	0	0	0.0%
CRUDE OIL SPRDS	WTT	15,885	3,412	365.6%	785	1,923.6%	37,612	5,307	608.7%
CRUDE OIL TRADE AT MARKER SINGAPORE	CLS	0	0	0.0%	0	0.0%	0	0	0.0%
DAILY PJM	AOR	0	0	0.0%	0	0.0%	0	0	0.0%
DAILY PJM	IDO	0	0	0.0%	0	0.0%	0	0	0.0%
DAILY PJM	NOC	0	0	0.0%	0	0.0%	0	0	0.0%
DAILY PJM	PAP	0	0	0.0%	0	0.0%	0	0	0.0%
DAILY PJM	PEO	0	0	0.0%	0	0.0%	0	0	0.0%
DAILY PJM	PNO	0	0	0.0%	0	0.0%	0	0	0.0%
DAILY PJM	PNP	0	0	0.0%	0	0.0%	0	0	0.0%
DAILY PJM	PWO	0	0	0.0%	0	0.0%	0	0	0.0%
DAILY PJM	PWP	0	0	0.0%	0	0.0%	0	0	0.0%
DAILY PJM	WOR	0	0	0.0%	0	0.0%	2,720	0	0.0%
DAILY PJM	ZAO	0	0	0.0%	0	0.0%	0	0	0.0%
DAILY PJM	ZGO	0	8,020	-100.0%	0	0.0%	0	8,020	-100.0%
DAILY PJM	ZJO	0	0	0.0%	0	0.0%	0	0	0.0%
DATED BRENT (PLATTS) DAILY SWAP	7G	0	0	0.0%	200	-100.0%	200	23,657	-99.2%
DATED TO FRONTLINE BRENT	FY	2,550	2,664	-4.3%	500	410.0%	15,060	28,290	-46.8%
DEMARC INDEX FUTURE	DI	0	0	0.0%	0	0.0%	800	0	0.0%
DEMARC SWING SWAP	DT	0	0	-	62	-100.0%	62	0	-
DIESEL 10P BRG FOB RDM VS	7X	0	0	0.0%	0	0.0%	125	10	1,150.0%

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DIESEL 10PPM BARGES FOB B	U7	0	0	0.0%	0	-	0	0	0.0%
DIESEL10PPM BARG VS ICE LS	LSE	0	0	0.0%	0	0.0%	0	0	0.0%
DLY GAS EURO-BOB OXY	GBR	0	0	-	0	0.0%	60	0	-
DOMINION TRAN INC - APP I	IH	2,640	2,160	22.2%	248	964.5%	19,995	2,160	825.7%
DOMINION TRANSMISSION INC	PG	29,119	16,535	76.1%	29,898	-2.6%	211,280	63,948	230.4%
DUBAI CRUDE OIL BALMO	BI	0	0	0.0%	0	0.0%	275	100	175.0%
DUBAI CRUDE OIL CALENDAR	DC	2,003	5,034	-60.2%	4,550	-56.0%	18,519	38,885	-52.4%
DY EURO 3.5% FUEL OI RDA	FOR	0	0	0.0%	0	0.0%	0	840	-100.0%
EASTERN RAIL DELIVERY CSX	QX	1,080	1,695	-36.3%	1,960	-44.9%	12,742	38,776	-67.1%
EAST/WEST FUEL OIL SPREAD	EW	45	13	246.2%	40	12.5%	321	2,336	-86.3%
EIA FLAT TAX ONHWAY DIESE	A5	554	579	-4.3%	756	-26.7%	10,538	8,160	29.1%
ELEC ERCOT DLY OFF PK	R4	0	0	0.0%	0	0.0%	0	0	0.0%
ELEC ERCOT DLY PEAK	I7	0	0	0.0%	0	0.0%	0	0	0.0%
ELEC ERCOT DLY PEAK	I9	0	0	0.0%	0	-	0	0	0.0%
ELEC ERCOT DLY PEAK	N1	0	0	0.0%	0	0.0%	0	965	-100.0%
ELEC ERCOT DLY PEAK	R1	0	0	0.0%	0	0.0%	0	0	0.0%
ELEC ERCOT OFF PEAK	ERU	0	0	0.0%	0	-	0	0	0.0%
ELEC ERCOT OFF PEAK	O1	0	0	0.0%	0	0.0%	0	17,565	-100.0%
ELEC FINSETTLED	47	0	0	0.0%	0	0.0%	1,270	0	0.0%
ELEC FINSETTLED	49	0	0	0.0%	0	0.0%	0	1,275	-100.0%
ELEC MISO PEAK	4L	0	0	0.0%	0	0.0%	0	1,530	-100.0%
ELEC MISO PEAK	55	0	0	0.0%	0	0.0%	0	2,036	-100.0%
ELEC NYISO OFF-PEAK	4M	0	0	0.0%	0	0.0%	0	5,796	-100.0%
ELEC NYISO OFF-PEAK	58	0	0	0.0%	0	0.0%	0	37,600	-100.0%
ELECTRICITY ERCOT PEAK	ERE	0	0	0.0%	0	-	0	0	0.0%
ELECTRICITY OFF PEAK	46	0	0	0.0%	0	0.0%	23,480	0	0.0%
ELECTRICITY OFF PEAK	4P	0	0	0.0%	0	0.0%	0	11,680	-100.0%
ELECTRICITY OFF PEAK	50	0	0	0.0%	0	0.0%	0	23,520	-100.0%
ELEC WEST POWER OFF-PEAK	MDA	1,840	0	-	0	-	1,840	0	-
ELEC WEST POWER PEAK	MDC	5,390	0	-	0	-	5,390	0	-
EL PASO PERMIAN INDEX SWA	IL	0	0	-	0	0.0%	1,612	0	-
EMMISSIONS	CPL	0	0	0.0%	0	0.0%	0	250	-100.0%
ERCOT NORTH ZMCP E 5MW OFFPEAK	I8	0	0	0.0%	0	0.0%	0	0	0.0%
ERCOT NORTH ZMCP E 5MW OFFPEAK SWAP	I6	0	0	0.0%	0	0.0%	4,280	24,093	-82.2%
ERCOT NORTH ZMCP E 5MW PEAK	I5	0	0	0.0%	0	0.0%	235	2,591	-90.9%
ETHANOL T2 FOB ROTT INCL DUTY SWAP	Z1	2,565	1,747	46.8%	2,561	0.2%	22,244	26,378	-15.7%

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Energy Futures									
EU LOW SULPHUR GASOIL CRACK	LSC	0	0	0.0%	0	0.0%	0	0	0.0%
EURO 1% FUEL OIL NEW BALM	KX	5	70	-92.9%	10	-50.0%	225	116	94.0%
EURO 3.5% FUEL OIL M CRK	FL	0	0	0.0%	0	-	0	0	0.0%
EURO 3.5% FUEL OIL RDAM B	KR	294	337	-12.8%	526	-44.1%	3,300	5,825	-43.3%
EURO 3.5% FUEL OIL SPREAD	FK	826	546	51.3%	570	44.9%	5,954	9,131	-34.8%
EURO-DENOMINATED PETRO PROD	IBE	0	0	0.0%	0	0.0%	0	0	0.0%
EURO-DENOMINATED PETRO PROD	MFE	0	0	0.0%	0	-	0	0	0.0%
EURO-DENOMINATED PETRO PROD	NCP	0	0	0.0%	0	0.0%	158	2,427	-93.5%
EURO GASOIL 10 CAL SWAP	GT	0	0	0.0%	0	0.0%	3	6	-50.0%
EURO GASOIL 10PPM VS ICE	ET	0	252	-100.0%	87	-100.0%	679	908	-25.2%
EUROPE 1% FUEL OIL NWE CA	UF	102	168	-39.3%	10	920.0%	1,457	1,634	-10.8%
EUROPE 1% FUEL OIL RDAM C	UH	0	0	0.0%	10	-100.0%	134	160	-16.3%
EUROPE 3.5% FUEL OIL MED	UI	388	219	77.2%	166	133.7%	3,533	1,016	247.7%
EUROPE 3.5% FUEL OIL RDAM	UV	10,188	6,506	56.6%	7,599	34.1%	68,629	87,804	-21.8%
EUROPEAN GASOIL (ICE)	7F	6,938	72,383	-90.4%	6,428	7.9%	1,551,867	199,130	679.3%
EUROPEAN NAPHTHA BALMO	KZ	258	101	155.4%	263	-1.9%	1,697	887	91.3%
EUROPEAN NAPHTHA CRACK SPR	EN	7,677	2,891	165.5%	7,962	-3.6%	52,279	72,550	-27.9%
EUROPE DATED BRENT SWAP	UB	0	0	0.0%	630	-100.0%	26,588	37,430	-29.0%
EUROPE JET KERO NWE CALSW	UJ	0	0	0.0%	0	0.0%	38	494	-92.3%
EUROPE NAPHTHA CALSWAP	UN	1,847	681	171.2%	1,762	4.8%	14,833	13,468	10.1%
EURO PROPANE CIF ARA SWA	PS	1,653	368	349.2%	1,798	-8.1%	13,004	3,847	238.0%
FL GAS ZONE 3 NAT GAS IND	Q9	0	0	-	0	0.0%	8,310	0	-
FLORIDA GAS ZONE3 BASIS S	FP	0	0	0.0%	0	0.0%	5,449	14,510	-62.4%
FREIGHT MARKETS	FLP	188	157	19.7%	288	-34.7%	1,985	564	252.0%
FREIGHT MARKETS	FRC	0	0	0.0%	0	-	0	0	0.0%
FUEL OIL CRACK VS ICE	FO	2,662	2,401	10.9%	7,605	-65.0%	43,822	36,097	21.4%
FUEL OIL NWE CRACK VS ICE	FI	0	0	0.0%	0	0.0%	32	306	-89.5%
FUEL OIL (PLATS) CAR CM	1W	5	0	0.0%	0	0.0%	1,121	264	324.6%
FUEL OIL (PLATS) CAR CN	1X	0	36	-100.0%	0	0.0%	54	176	-69.3%
FUELOIL SWAP:CARGOES VS.B	FS	109	243	-55.1%	290	-62.4%	3,214	4,310	-25.4%
GAS EURO-BOB OXY NWE BARGES	7H	5,906	3,826	54.4%	6,761	-12.6%	68,676	69,185	-0.7%
GAS EURO-BOB OXY NWE BARGES CRK	7K	11,574	11,331	2.1%	17,412	-33.5%	140,690	166,443	-15.5%
GASOIL 0.1 BRGS FOB VS IC	6V	0	0	0.0%	0	0.0%	6	10	-40.0%
GASOIL 0.1 CARGOES CIF NE	TW	0	0	0.0%	0	0.0%	0	10	-100.0%
GASOIL 0.1 CIF MED BALMO	X6	0	0	0.0%	0	0.0%	0	5	-100.0%
GASOIL 0.1 CIF MED SWAP	Z4	0	20	-100.0%	0	0.0%	75	20	275.0%

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Energy Futures									
GASOIL 0.1CIF MED VS ICE	Z5	0	10	-100.0%	60	-100.0%	190	131	45.0%
GASOIL 0.1 CIF NWE VS ISE	TU	25	0	0.0%	10	150.0%	35	266	-86.8%
GASOIL 0.1 CIF VS ICE GAS	8W	0	0	0.0%	0	0.0%	5	0	0.0%
GASOIL 0.1 CRG CIF NW VS	4V	0	0	0.0%	0	0.0%	5	10	-50.0%
GASOIL 0.1 RDAM BRGS VS I	WQ	60	15	300.0%	0	0.0%	120	95	26.3%
GASOIL 0.1 ROTTERDAM BARG	VL	5	0	0.0%	25	-80.0%	30	10	200.0%
GASOIL 10P CRG CIF NW VS	3V	0	0	0.0%	5	-100.0%	15	50	-70.0%
GASOIL 10PPM CARGOES CIF	TY	0	0	0.0%	0	0.0%	3	30	-90.0%
GASOIL 10PPM VS ICE SWAP	TP	5	120	-95.8%	190	-97.4%	895	1,418	-36.9%
GASOIL BULLET SWAP	BG	0	0	0.0%	0	-	0	0	0.0%
GASOIL CALENDAR SWAP	GX	0	3	-100.0%	9	-100.0%	314	216	45.4%
GASOIL CRACK SPREAD CALEN	GZ	3,420	1,800	90.0%	4,032	-15.2%	49,984	34,966	43.0%
GASOIL MINI CALENDAR SWAP	QA	240	462	-48.1%	115	108.7%	2,409	3,008	-19.9%
GASOLINE UP-DOWN (ARGUS)	UZ	0	0	0.0%	0	-	0	0	0.0%
GASOLINE UP-DOWN BALMO SW	1K	0	275	-100.0%	0	0.0%	810	5,660	-85.7%
GC ULSD VS GC JET SPREAD	VV	0	0	0.0%	0	0.0%	0	0	0.0%
GROUP THREE ULSD (PLATTS)	A7	0	0	0.0%	0	0.0%	300	200	50.0%
GRP THREE ULSD(PLT)VS HEA	A6	4,750	3,994	18.9%	1,255	278.5%	28,043	38,451	-27.1%
GRP THREE UNL GS (PLT) VS	A8	3,470	1,000	247.0%	865	301.2%	15,890	15,042	5.6%
GULF COAST 3% FUEL OIL BA	VZ	633	1,135	-44.2%	600	5.5%	6,887	11,103	-38.0%
GULF COAST GASOLINE CLNDR	GS	0	200	-100.0%	0	0.0%	1,300	5,765	-77.5%
GULF COAST JET FUEL CLNDR	GE	342	285	20.0%	162	111.1%	1,677	3,578	-53.1%
GULF COAST JET VS NYM 2 H	ME	31,728	24,401	30.0%	33,519	-5.3%	327,381	223,058	46.8%
GULF COAST NO.6 FUEL OIL	MF	58,934	49,655	18.7%	55,671	5.9%	575,015	700,005	-17.9%
GULF COAST NO.6 FUEL OIL	MG	882	100	782.0%	400	120.5%	6,866	16,580	-58.6%
GULF COAST ULSD CALENDAR	LY	816	611	33.6%	778	4.9%	8,928	7,533	18.5%
GULF COAST ULSD CRACK SPR	GY	725	775	-6.5%	0	0.0%	6,881	3,375	103.9%
HEATING OIL BALMO CLNDR S	1G	125	1,289	-90.3%	0	0.0%	460	1,654	-72.2%
HEATING OIL CRCK SPRD BAL	1H	0	0	-	0	0.0%	20	0	-
HEATING OIL PHY	HOL	0	0	0.0%	0	0.0%	0	0	0.0%
HEATING OIL VS ICE GASOIL	HA	0	0	0.0%	0	0.0%	0	0	0.0%
HENRY HUB BASIS SWAP	HB	7,270	12,032	-39.6%	6,843	6.2%	188,737	133,559	41.3%
HENRY HUB INDEX SWAP FUTU	IN	6,360	12,032	-47.1%	4,638	37.1%	170,634	96,679	76.5%
HENRY HUB SWAP	NN	467,330	588,258	-20.6%	315,550	48.1%	4,236,443	4,523,018	-6.3%
HENRY HUB SWING FUTURE	SN	0	0	0.0%	0	0.0%	290	1,200	-75.8%
HOUSTON SHIP CHANNEL BASI	NH	2,036	4,001	-49.1%	2,100	-3.0%	30,400	37,955	-19.9%

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Energy Futures									
HOUSTON SHIP CHANNEL INDE	IP	0	0	0.0%	0	0.0%	186	180	3.3%
HUSTN SHIP CHNL PIPE SWP	XJ	0	0	0.0%	0	0.0%	0	4,073	-100.0%
ICE BRENT DUBAI SWAP	DB	7,400	600	1,133.3%	7,998	-7.5%	15,508	9,560	62.2%
ICE GASOIL BALMO SWAP	U9	0	0	0.0%	0	-	0	0	0.0%
IN DELIVERY MONTH EUA	6T	5,200	1,456	257.1%	100	5,100.0%	31,501	100,253	-68.6%
INDIANA MISO	FAD	0	0	0.0%	0	0.0%	0	0	0.0%
INDIANA MISO	FDM	0	0	0.0%	0	0.0%	0	0	0.0%
INDIANA MISO	FTD	0	0	0.0%	0	0.0%	0	0	0.0%
INDIANA MISO	FTM	0	0	0.0%	0	0.0%	0	0	0.0%
INDIANA MISO	PDD	0	0	0.0%	0	0.0%	112	0	0.0%
INDIANA MISO	PDM	0	0	0.0%	0	0.0%	0	2,240	-100.0%
INDIANA MISO	PTD	0	0	0.0%	0	0.0%	0	0	0.0%
INDIANA MISO	PTM	0	0	0.0%	0	0.0%	0	0	0.0%
INDONESIAN COAL	MCC	0	45	-100.0%	15	-100.0%	220	1,605	-86.3%
ISO NEW ENGLAND OFF-PEAK	KI	0	0	0.0%	0	0.0%	0	0	0.0%
ISO NEW ENGLAND PK LMP	NI	0	20	-100.0%	0	0.0%	20	20	0.0%
JAPAN C&F NAPHTHA CRACK S	JB	407	236	72.5%	388	4.9%	4,218	2,773	52.1%
JAPAN C&F NAPHTHA SWAP	JA	1,053	774	36.0%	1,204	-12.5%	12,333	10,225	20.6%
JAPAN NAPHTHA BALMO SWAP	E6	5	44	-88.6%	0	0.0%	375	481	-22.0%
JET AV FUEL (P) CAR FM ICE GAS SWAP	1V	0	0	0.0%	15	-100.0%	172	213	-19.2%
JET BARGES VS ICE GASOIL	JR	0	0	0.0%	0	0.0%	22	15	46.7%
JET CIF NWE VS ICE	JC	5	0	0.0%	25	-80.0%	790	1,089	-27.5%
JET FUEL BRG FOB RDM VS I	9Q	0	0	0.0%	0	0.0%	2	40	-95.0%
JET FUEL CARGOES CIF NEW	F3	0	0	0.0%	0	-	0	0	0.0%
JET FUEL CRG CIF NEW VS I	6X	0	0	0.0%	0	0.0%	30	47	-36.2%
JET FUEL UP-DOWN BALMO CL	1M	7,916	4,980	59.0%	5,377	47.2%	42,405	27,587	53.7%
LA CARB DIESEL (OPIS)	LX	52	156	-66.7%	0	0.0%	52	234	-77.8%
LA CARB DIESEL (OPIS) SWA	KL	625	402	55.5%	225	177.8%	7,177	7,016	2.3%
LA CARBOB GASOLINE(OPIS)S	JL	0	450	-100.0%	50	-100.0%	5,950	5,225	13.9%
LA JET FUEL VS NYM NO 2 H	MQ	10	220	-95.5%	0	0.0%	810	490	65.3%
LA JET (OPIS) SWAP	JS	1,925	1,140	68.9%	1,775	8.5%	20,312	9,760	108.1%
LLS (ARGUS) CALENDAR SWAP	XA	0	0	0.0%	0	0.0%	0	0	0.0%
LLS (ARGUS) VS WTI SWAP	WJ	3,860	11,379	-66.1%	4,273	-9.7%	64,071	100,836	-36.5%
MARS (ARGUS) VS WTI SWAP	YX	3,904	7,565	-48.4%	2,700	44.6%	40,822	60,885	-33.0%
MARS (ARGUS) VS WTI TRD M	YV	19,076	1,805	956.8%	12,104	57.6%	118,047	15,425	665.3%
MARS BLEND CRUDE OIL	MB	50	0	-	450	-88.9%	16,024	0	-

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Energy Futures									
MCCLOSKY ARA ARGS COAL	MTF	114,162	234,235	-51.3%	118,650	-3.8%	1,639,839	1,801,940	-9.0%
MCCLOSKY RCH BAY COAL	MFF	12,564	39,647	-68.3%	10,616	18.3%	169,932	235,058	-27.7%
MGF FUT	MGF	0	10	-100.0%	0	0.0%	100	86	16.3%
MGN1 SWAP FUT	MGN	67	181	-63.0%	322	-79.2%	1,427	1,498	-4.7%
MICHCON NG INDEX SWAP	Y8	360	0	-	0	0.0%	2,200	0	-
MICHIGAN BASIS	NF	2,412	2,537	-4.9%	5,587	-56.8%	24,763	5,459	353.6%
MICHIGAN HUB OFF-PEAK MON	HJ	0	0	0.0%	0	-	0	0	0.0%
MICHIGAN HUB PEAK MONTH S	HM	0	0	0.0%	0	-	0	0	0.0%
MICHIGAN MISO	HMO	0	0	0.0%	0	0.0%	127,640	121,440	5.1%
MICHIGAN MISO	HMW	0	0	0.0%	0	0.0%	7,240	6,795	6.5%
MINI GAS EUROBOB OXY NWE ARGS BALMO	MEB	387	20	1,835.0%	410	-5.6%	4,236	3,117	35.9%
MINI RBOB V. EBOBARG NWE BRGS BALMO	MXR	220	350	-37.1%	1,220	-82.0%	2,436	4,473	-45.5%
MINI RBOB V. EBOB(ARGUS) NWE BRGS	MXB	2,381	695	242.6%	2,224	7.1%	14,198	6,640	113.8%
MISO 5MW OFF PEAK	4R	0	0	0.0%	0	-	0	0	0.0%
MISO 5MW PEAK	4Q	0	0	0.0%	0	-	0	0	0.0%
MJB FUT	MJB	0	0	0.0%	0	0.0%	0	10	-100.0%
MJC FUT	MJC	50	40	25.0%	60	-16.7%	875	610	43.4%
MNC FUT	MNC	3,149	3,218	-2.1%	3,702	-14.9%	38,823	42,926	-9.6%
MONT BELVIEU ETHANE 5 DECIMAL	C0	79,895	9,245	764.2%	84,579	-5.5%	488,295	70,057	597.0%
MONT BELVIEU ETHANE OPIS BALMO	8C	425	250	70.0%	230	84.8%	1,470	2,675	-45.0%
MONT BELVIEU LDH PROPANE 5 DECIMAL	B0	132,519	68,624	93.1%	118,779	11.6%	1,158,431	462,660	150.4%
MONT BELVIEU LDH PROPANE OPIS BALMO	8O	1,489	480	210.2%	906	64.3%	9,182	6,688	37.3%
MONT BELVIEU NATURAL GASOLINE 5 DEC	7Q	5,139	4,495	14.3%	7,312	-29.7%	80,210	55,751	43.9%
MONT BELVIEU NATURAL GASOLINE BALMO	R0	25	127	-80.3%	75	-66.7%	1,761	3,940	-55.3%
MONT BELVIEU NORMAL BUTANE 5 DECIMAL	D0	37,717	22,523	67.5%	42,699	-11.7%	271,765	171,003	58.9%
MONT BELVIEU NORMAL BUTANE BALMO	8J	323	665	-51.4%	254	27.2%	6,118	4,929	24.1%
NAT GAS BASIS SWAP	SGW	0	0	0.0%	0	0.0%	0	40	-100.0%
NAT GAS BASIS SWAP	TZ6	3,210	96	3,243.8%	2,481	29.4%	35,310	5,234	574.6%
NATURAL GAS	HBI	3,540	0	-	0	-	3,540	0	-
NATURAL GAS	XAC	0	0	0.0%	0	-	0	0	0.0%
NATURAL GAS	XSC	0	0	0.0%	0	0.0%	0	0	0.0%
NATURAL GAS FIXED PRICE SWAP FUTURES	CFS	0	0	0.0%	0	0.0%	0	3,416	-100.0%
NATURAL GAS FIXED PRICE SWAP FUTURES	DSF	0	0	0.0%	0	0.0%	0	6,452	-100.0%
NATURAL GAS FIXED PRICE SWAP FUTURES	MFS	0	0	0.0%	0	0.0%	0	1,464	-100.0%
NATURAL GAS FIXED PRICE SWAP FUTURES	PFS	0	0	0.0%	0	0.0%	0	496	-100.0%
NATURAL GAS FIXED PRICE SWAP FUTURES	WFS	0	0	0.0%	0	0.0%	0	572	-100.0%



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Energy Futures									
NATURAL GAS FIXED PRICE SWAP FUTURES	Z5P	0	0	0.0%	0	0.0%	0	448	-100.0%
NATURAL GAS FIXED PRICE SWAP FUTURES	ZTS	0	0	0.0%	0	0.0%	0	84	-100.0%
NATURAL GAS INDEX	TZI	0	0	0.0%	0	0.0%	6,702	0	0.0%
NATURAL GAS PEN SWP	NP	104,281	184,499	-43.5%	77,076	35.3%	1,082,675	1,846,144	-41.4%
NEPOOL CNCTCT 5MW D AH O	P3	0	0	0.0%	0	0.0%	11,925	0	0.0%
NEPOOL CONECTIC 5MW D AH	P2	0	0	0.0%	0	0.0%	635	0	0.0%
NEPOOL INTR HUB 5MW D AH	H2	28,690	58,640	-51.1%	0	0.0%	483,239	251,402	92.2%
NEPOOL INTR HUB 5MW D AH	U6	11,695	4,355	168.5%	0	0.0%	44,105	17,290	155.1%
NEPOOL MAINE 5MW D AH O E	W2	0	0	0.0%	0	-	0	0	0.0%
NEPOOL MAINE 5MW D AH PK	P9	0	0	0.0%	0	-	0	0	0.0%
NEPOOL NE MASS 5MW D AH O	P8	0	0	0.0%	0	0.0%	0	3,920	-100.0%
NEPOOL NE MASS 5MW D AH P	P7	0	0	0.0%	0	0.0%	640	1,385	-53.8%
NEPOOL NEW HAMP 5MW D AH	U2	0	0	0.0%	0	0.0%	0	0	0.0%
NEPOOL NEW HAMP 5MW D AH	U3	0	0	0.0%	0	0.0%	0	0	0.0%
NEPOOL RHD ISLD 5MW D AH	U4	0	2,025	-100.0%	0	0.0%	0	9,541	-100.0%
NEPOOL RHODE IL 5MW D AH	U5	0	11,840	-100.0%	0	0.0%	0	82,605	-100.0%
NEPOOL SE MASS 5MW D AH O	P5	0	0	0.0%	0	0.0%	0	0	0.0%
NEPOOL SE MASS 5MW D AH P	P4	0	0	0.0%	0	0.0%	0	0	0.0%
NEPOOL W CNT MASS 5MW D A	L9	0	0	0.0%	0	0.0%	4,000	28,848	-86.1%
NEPOOL W CNTR M 5MW D AH	R6	0	0	0.0%	0	0.0%	1,685	840	100.6%
NEW ENGLAND HUB PEAK DAIL	CE	0	0	0.0%	0	0.0%	0	0	0.0%
NEW YORK ETHANOL SWAP	EZ	1,235	1,225	0.8%	1,505	-17.9%	14,865	10,140	46.6%
NEW YORK HUB ZONE G PEAK	GN	0	0	0.0%	0	0.0%	0	0	0.0%
NEW YORK HUB ZONE J PEAK	JN	0	0	0.0%	0	0.0%	0	0	0.0%
NGPL MID-CONTINENT	NL	260	2,230	-88.3%	2,793	-90.7%	29,630	43,453	-31.8%
NGPL MIDCONTINENT INDEX	IW	180	0	0.0%	434	-58.5%	7,841	300	2,513.7%
NGPL MIDCONTINENT SWING S	PX	0	0	-	0	0.0%	620	0	-
NGPL TEX/OK	PD	860	3,398	-74.7%	3,500	-75.4%	28,964	77,459	-62.6%
NGPL TEXOK INDEX	OI	0	480	-100.0%	0	0.0%	360	1,146	-68.6%
NGPL TEXOK SWING SWAP	OX	0	0	0.0%	0	-	0	0	0.0%
N ILLINOIS HUB DAILY	UD	0	0	0.0%	0	0.0%	0	0	0.0%
N ILLINOIS HUB MTHLY	UM	0	0	0.0%	0	0.0%	0	70	-100.0%
NO 2 UP-DOWN SPREAD CALEN	UT	0	200	-100.0%	0	0.0%	2,562	3,209	-20.2%
NORTHEN NATURAL GAS DEMAR	PE	1,762	124	1,321.0%	0	0.0%	3,935	5,469	-28.0%
NORTHEN NATURAL GAS VENTU	PF	1,344	302	345.0%	140	860.0%	8,735	4,962	76.0%
NORTHERN ILLINOIS OFF-PEA	UO	0	0	0.0%	0	0.0%	0	102	-100.0%

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Energy Futures									
NORTHWEST ROCKIES BASIS S	NR	11,706	12,968	-9.7%	10,093	16.0%	157,413	92,525	70.1%
N ROCKIES PIPE SWAP	XR	0	0	0.0%	0	0.0%	0	991	-100.0%
NY1% VS GC SPREAD SWAP	VR	2,630	4,509	-41.7%	2,756	-4.6%	23,658	23,369	1.2%
NY 2.2% FUEL OIL (PLATTS	Y3	0	230	-100.0%	0	0.0%	489	640	-23.6%
NY 3.0% FUEL OIL (PLATTS	H1	625	600	4.2%	25	2,400.0%	2,125	3,745	-43.3%
NY HARBOR 1% FUEL OIL BAL	VK	0	175	-100.0%	0	0.0%	101	497	-79.7%
NY HARBOR HEAT OIL SWP	MP	897	3,433	-73.9%	1,560	-42.5%	22,694	47,533	-52.3%
NY HARBOR LOW SULPUR GAS 1000MBBL	NLS	75	0	0.0%	100	-25.0%	5,031	4,042	24.5%
NY HARBOR LOW SULPUR GASOIL 1000MT	SLS	0	0	0.0%	0	-	0	0	0.0%
NY HARBOR RESIDUAL FUEL 1	MM	4,207	6,944	-39.4%	3,671	14.6%	35,454	49,703	-28.7%
NY HARBOR RESIDUAL FUEL C	ML	0	0	0.0%	0	0.0%	0	100	-100.0%
NYH NO 2 CRACK SPREAD CAL	HK	5,005	6,310	-20.7%	377	1,227.6%	20,102	25,094	-19.9%
NY H OIL PLATTS VS NYMEX	YH	0	0	0.0%	0	0.0%	0	976	-100.0%
NYISO A	KA	0	0	0.0%	0	0.0%	0	982	-100.0%
NYISO A OFF-PEAK	KB	0	0	0.0%	0	0.0%	0	440	-100.0%
NYISO CAPACITY	LHV	0	0	-	0	0.0%	168	0	-
NYISO CAPACITY	NNC	96	234	-59.0%	300	-68.0%	1,773	2,460	-27.9%
NYISO CAPACITY	NRS	112	548	-79.6%	84	33.3%	2,173	4,390	-50.5%
NYISO G	KG	0	0	0.0%	0	0.0%	0	471	-100.0%
NYISO G OFF-PEAK	KH	0	0	0.0%	0	0.0%	0	190	-100.0%
NYISO J	KJ	0	320	-100.0%	0	0.0%	172	2,711	-93.7%
NYISO J OFF-PEAK	KK	0	0	0.0%	0	0.0%	80	580	-86.2%
NYISO ZONE A 5MW D AH O P	K4	0	0	0.0%	0	0.0%	239,365	365,080	-34.4%
NYISO ZONE A 5MW D AH PK	K3	0	0	0.0%	0	0.0%	3,600	16,846	-78.6%
NYISO ZONE C 5MW D AH O P	A3	0	0	0.0%	0	0.0%	54,290	0	0.0%
NYISO ZONE C 5MW D AH PK	Q5	0	0	0.0%	0	0.0%	1,512	0	0.0%
NYISO ZONE G 5MW D AH O P	D2	21,175	112,232	-81.1%	0	0.0%	405,881	240,288	68.9%
NYISO ZONE G 5MW D AH PK	T3	1,695	3,414	-50.4%	1,270	33.5%	33,388	31,489	6.0%
NYISO ZONE J 5MW D AH O P	D4	44,575	0	0.0%	9,344	377.0%	156,871	56,034	180.0%
NYISO ZONE J 5MW D AH PK	D3	3,180	2,804	13.4%	1,784	78.3%	13,571	9,071	49.6%
NY JET FUEL (ARGUS) VS HEATING OIL	5U	0	0	0.0%	0	-	0	0	0.0%
NY JET FUEL (PLATTS) HEAT OIL SWAP	1U	0	10	-100.0%	0	0.0%	0	1,745	-100.0%
NYMEX ALUMINUM FUTURES	AN	0	0	0.0%	0	0.0%	0	0	0.0%
NYMEX ULSD VS NYMEX HO	UY	0	0	0.0%	0	0.0%	0	1,113	-100.0%
NY ULSD (ARGUS) VS HEATING OIL	7Y	55	6,444	-99.1%	3,300	-98.3%	7,465	29,738	-74.9%
ONEOK OKLAHOMA NG BASIS	8X	0	0	0.0%	0	0.0%	1,065	2,261	-52.9%

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The open interest values are based on preliminary open interest values only.

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Commodity		VOLUME OCT 2016	VOLUME OCT 2015	% CHG	VOLUME SEP 2016	% CHG	VOLUME Y.T.D 2016	VOLUME Y.T.D 2015	% CHG
Energy Futures									
ONTARIO POWER SWAPS	OFD	0	0	0.0%	0	0.0%	160	0	0.0%
ONTARIO POWER SWAPS	OFM	0	0	0.0%	0	0.0%	3,750	141,040	-97.3%
ONTARIO POWER SWAPS	OPD	85	60	41.7%	30	183.3%	470	270	74.1%
ONTARIO POWER SWAPS	OPM	0	110	-100.0%	0	0.0%	440	8,000	-94.5%
PANHANDLE BASIS SWAP FUTU	PH	8,156	13,251	-38.4%	8,384	-2.7%	86,262	120,688	-28.5%
PANHANDLE INDEX SWAP FUTU	IV	0	0	0.0%	992	-100.0%	3,472	2,018	72.1%
PANHANDLE PIPE SWAP	XH	0	0	0.0%	0	0.0%	0	314	-100.0%
PERMIAN BASIS SWAP	PM	6,391	4,294	48.8%	9,546	-33.1%	44,798	18,118	147.3%
PETROCHEMICALS	22	47	50	-6.0%	24	95.8%	465	294	58.2%
PETROCHEMICALS	32	65	21	209.5%	117	-44.4%	601	440	36.6%
PETROCHEMICALS	51	0	0	0.0%	0	-	0	0	0.0%
PETROCHEMICALS	81	0	0	0.0%	0	-	0	0	0.0%
PETROCHEMICALS	8I	604	478	26.4%	562	7.5%	2,522	4,478	-43.7%
PETROCHEMICALS	91	179	19	842.1%	139	28.8%	1,682	246	583.7%
PETROCHEMICALS	HPE	0	0	0.0%	0	0.0%	48	58	-17.2%
PETROCHEMICALS	LPE	0	0	0.0%	0	0.0%	0	76	-100.0%
PETROCHEMICALS	MAC	0	0	-	0	0.0%	110	0	-
PETROCHEMICALS	MAE	60	10	500.0%	0	0.0%	445	220	102.3%
PETROCHEMICALS	MAS	30	10	200.0%	30	0.0%	990	285	247.4%
PETROCHEMICALS	MBE	2,580	3,080	-16.2%	4,445	-42.0%	29,300	17,865	64.0%
PETROCHEMICALS	MNB	964	193	399.5%	1,836	-47.5%	19,650	13,851	41.9%
PETRO CRCKS & SPRDS ASIA	STI	0	162	-100.0%	0	0.0%	1,050	612	71.6%
PETRO CRCKS & SPRDS ASIA	STR	0	0	0.0%	0	0.0%	64	430	-85.1%
PETRO CRCKS & SPRDS ASIA	STS	0	50	-100.0%	0	0.0%	80	318	-74.8%
PETRO CRCKS & SPRDS NA	CBA	0	0	0.0%	0	-	0	0	0.0%
PETRO CRCKS & SPRDS NA	CRB	150	0	0.0%	40	275.0%	1,189	2,443	-51.3%
PETRO CRCKS & SPRDS NA	EXR	1,788	783	128.4%	1,739	2.8%	14,623	11,837	23.5%
PETRO CRCKS & SPRDS NA	FOC	900	350	157.1%	1,250	-28.0%	10,005	4,090	144.6%
PETRO CRCKS & SPRDS NA	GBB	300	0	0.0%	565	-46.9%	2,390	50	4,680.0%
PETRO CRCKS & SPRDS NA	GCC	375	0	-	125	200.0%	2,025	0	-
PETRO CRCKS & SPRDS NA	GCI	2,157	300	619.0%	1,306	65.2%	11,568	10,931	5.8%
PETRO CRCKS & SPRDS NA	GCM	0	0	-	0	0.0%	66	0	-
PETRO CRCKS & SPRDS NA	GCU	8,442	7,390	14.2%	5,239	61.1%	72,635	120,340	-39.6%
PETRO CRCKS & SPRDS NA	GFC	0	0	0.0%	0	0.0%	129	100	29.0%
PETRO CRCKS & SPRDS NA	HOB	485	1,875	-74.1%	1,995	-75.7%	34,909	36,122	-3.4%
PETRO CRCKS & SPRDS NA	KSD	0	0	0.0%	0	0.0%	0	390	-100.0%

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Commodity		VOLUME OCT 2016	VOLUME OCT 2015	% CHG	VOLUME SEP 2016	% CHG	VOLUME Y.T.D 2016	VOLUME Y.T.D 2015	% CHG
Energy Futures									
PETRO CRCKS & SPRDS NA	MFR	0	0	-	0	0.0%	30	0	-
PETRO CRCKS & SPRDS NA	NFC	0	0	0.0%	0	-	0	0	0.0%
PETRO CRCKS & SPRDS NA	NFG	220	0	0.0%	0	0.0%	1,008	200	404.0%
PETRO CRCKS & SPRDS NA	NYF	0	0	0.0%	15	-100.0%	490	2,100	-76.7%
PETRO CRCKS & SPRDS NA	NYH	150	0	0.0%	0	0.0%	450	0	0.0%
PETRO CRCKS & SPRDS NA	RBB	13,301	8,273	60.8%	12,198	9.0%	101,954	103,933	-1.9%
PETRO CRCKS & SPRDS NA	RVG	6,457	250	2,482.8%	11,794	-45.3%	82,868	2,465	3,261.8%
PETRO CRCKS & SPRDS NA	SF3	0	0	-	0	0.0%	34	0	-
PETRO CRK&SPRD EURO	1NB	1,050	2,027	-48.2%	1,544	-32.0%	16,394	17,030	-3.7%
PETRO CRK&SPRD EURO	1ND	0	0	0.0%	0	0.0%	0	50	-100.0%
PETRO CRK&SPRD EURO	43	610	56	989.3%	274	122.6%	2,149	3,659	-41.3%
PETRO CRK&SPRD EURO	BFR	0	0	0.0%	0	0.0%	0	170	-100.0%
PETRO CRK&SPRD EURO	BOB	3,606	2,012	79.2%	2,472	45.9%	21,808	17,273	26.3%
PETRO CRK&SPRD EURO	EBF	0	0	0.0%	0	-	0	0	0.0%
PETRO CRK&SPRD EURO	EOB	6	30	-80.0%	0	0.0%	97	362	-73.2%
PETRO CRK&SPRD EURO	EPN	266	36	638.9%	289	-8.0%	2,473	470	426.2%
PETRO CRK&SPRD EURO	EVC	3,196	760	320.5%	2,091	52.8%	16,755	15,120	10.8%
PETRO CRK&SPRD EURO	FBT	0	90	-100.0%	0	0.0%	480	530	-9.4%
PETRO CRK&SPRD EURO	FVB	0	0	0.0%	0	0.0%	0	20	-100.0%
PETRO CRK&SPRD EURO	GCB	345	0	0.0%	0	0.0%	1,130	1,158	-2.4%
PETRO CRK&SPRD EURO	GOC	0	0	0.0%	30	-100.0%	99	644	-84.6%
PETRO CRK&SPRD EURO	GRB	0	0	0.0%	0	-	0	0	0.0%
PETRO CRK&SPRD EURO	GRS	0	0	0.0%	0	-	0	0	0.0%
PETRO CRK&SPRD EURO	LSU	0	0	0.0%	0	0.0%	0	0	0.0%
PETRO CRK&SPRD EURO	MGB	40	10	300.0%	0	0.0%	40	434	-90.8%
PETRO CRK&SPRD EURO	MUD	47	191	-75.4%	87	-46.0%	1,199	802	49.5%
PETRO CRK&SPRD EURO	NBB	10	0	0.0%	10	0.0%	198	56	253.6%
PETRO CRK&SPRD EURO	NOB	541	261	107.3%	840	-35.6%	4,830	1,826	164.5%
PETRO CRK&SPRD EURO	NYG	0	0	0.0%	0	-	0	0	0.0%
PETRO CRK&SPRD EURO	SFB	50	0	0.0%	10	400.0%	165	15	1,000.0%
PETRO CRK&SPRD EURO	SFC	0	0	0.0%	0	0.0%	0	0	0.0%
PETROLEUM PRODUCTS	D43	0	0	0.0%	0	-	0	0	0.0%
PETROLEUM PRODUCTS	D44	0	0	0.0%	0	0.0%	0	34	-100.0%
PETROLEUM PRODUCTS	D45	0	0	0.0%	0	0.0%	0	58	-100.0%
PETROLEUM PRODUCTS	D46	0	0	-	0	0.0%	30	0	-
PETROLEUM PRODUCTS	D63	0	0	0.0%	0	-	0	0	0.0%

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Commodity		VOLUME OCT 2016	VOLUME OCT 2015	% CHG	VOLUME SEP 2016	% CHG	VOLUME Y.T.D 2016	VOLUME Y.T.D 2015	% CHG
Energy Futures									
PETROLEUM PRODUCTS	D64	0	0	0.0%	0	0.0%	0	209	-100.0%
PETROLEUM PRODUCTS	D65	0	0	0.0%	0	0.0%	0	140	-100.0%
PETROLEUM PRODUCTS	EWB	0	0	0.0%	0	0.0%	0	25	-100.0%
PETROLEUM PRODUCTS	EWG	6,062	0	0.0%	1,590	281.3%	11,959	6	199,216.7%
PETROLEUM PRODUCTS	MBS	8	0	-	0	0.0%	559	0	-
PETROLEUM PRODUCTS	MHE	0	0	-	0	0.0%	30	0	-
PETROLEUM PRODUCTS	MPE	0	0	-	0	0.0%	1,363	0	-
PETROLEUM PRODUCTS	RMG	0	0	0.0%	0	-	0	0	0.0%
PETROLEUM PRODUCTS	RMK	0	0	0.0%	0	-	0	0	0.0%
PETROLEUM PRODUCTS	VU	1,172	350	234.9%	147	697.3%	3,598	1,144	214.5%
PETROLEUM PRODUCTS ASIA	E6M	0	0	0.0%	40	-100.0%	467	812	-42.5%
PETROLEUM PRODUCTS ASIA	MJN	1,854	860	115.6%	846	119.1%	12,945	16,075	-19.5%
PETRO OUTRIGHT EURO	0A	0	20	-100.0%	0	0.0%	0	90	-100.0%
PETRO OUTRIGHT EURO	0B	70	20	250.0%	0	0.0%	1,370	914	49.9%
PETRO OUTRIGHT EURO	0C	0	8	-100.0%	40	-100.0%	201	123	63.4%
PETRO OUTRIGHT EURO	0D	5,019	4,838	3.7%	2,306	117.6%	39,987	42,444	-5.8%
PETRO OUTRIGHT EURO	0E	1,270	418	203.8%	1,326	-4.2%	9,463	4,408	114.7%
PETRO OUTRIGHT EURO	0F	1,993	866	130.1%	1,332	49.6%	12,696	9,356	35.7%
PETRO OUTRIGHT EURO	1T	0	0	0.0%	0	0.0%	20	85	-76.5%
PETRO OUTRIGHT EURO	33	60	30	100.0%	60	0.0%	339	603	-43.8%
PETRO OUTRIGHT EURO	59	0	0	0.0%	0	-	0	0	0.0%
PETRO OUTRIGHT EURO	5L	240	75	220.0%	70	242.9%	1,852	1,130	63.9%
PETRO OUTRIGHT EURO	63	128	65	96.9%	285	-55.1%	1,445	929	55.5%
PETRO OUTRIGHT EURO	6L	0	0	0.0%	0	0.0%	0	16	-100.0%
PETRO OUTRIGHT EURO	7I	114	230	-50.4%	109	4.6%	1,513	1,713	-11.7%
PETRO OUTRIGHT EURO	7P	0	0	0.0%	0	0.0%	0	40	-100.0%
PETRO OUTRIGHT EURO	7R	323	37	773.0%	300	7.7%	2,741	2,719	0.8%
PETRO OUTRIGHT EURO	88	0	0	0.0%	0	0.0%	55	243	-77.4%
PETRO OUTRIGHT EURO	CBB	0	0	0.0%	0	-	0	0	0.0%
PETRO OUTRIGHT EURO	CGB	0	0	0.0%	0	0.0%	6	30	-80.0%
PETRO OUTRIGHT EURO	CPB	58	86	-32.6%	48	20.8%	999	454	120.0%
PETRO OUTRIGHT EURO	EFF	85	0	0.0%	0	0.0%	501	159	215.1%
PETRO OUTRIGHT EURO	EFM	25	0	0.0%	0	0.0%	665	455	46.2%
PETRO OUTRIGHT EURO	ENS	40	122	-67.2%	53	-24.5%	1,161	608	91.0%
PETRO OUTRIGHT EURO	EWN	77	172	-55.2%	175	-56.0%	1,721	973	76.9%
PETRO OUTRIGHT EURO	FBD	0	0	0.0%	0	0.0%	20	121	-83.5%

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Commodity		VOLUME OCT 2016	VOLUME OCT 2015	% CHG	VOLUME SEP 2016	% CHG	VOLUME Y.T.D 2016	VOLUME Y.T.D 2015	% CHG
Energy Futures									
PETRO OUTRIGHT EURO	MBB	0	50	-100.0%	0	0.0%	84	245	-65.7%
PETRO OUTRIGHT EURO	MBN	1,690	1,594	6.0%	1,990	-15.1%	15,367	11,261	36.5%
PETRO OUTRIGHT EURO	RBF	0	0	0.0%	0	-	0	0	0.0%
PETRO OUTRIGHT EURO	SMU	100	0	0.0%	0	0.0%	340	600	-43.3%
PETRO OUTRIGHT EURO	T0	909	82	1,008.5%	51	1,682.4%	1,328	1,850	-28.2%
PETRO OUTRIGHT EURO	ULB	0	0	0.0%	0	0.0%	490	1,550	-68.4%
PETRO OUTRIGHT EURO	V0	105	0	0.0%	0	0.0%	105	2,794	-96.2%
PETRO OUTRIGHT EURO	W0	0	0	0.0%	0	0.0%	50	0	0.0%
PETRO OUTRIGHT EURO	X0	0	60	-100.0%	150	-100.0%	150	698	-78.5%
PETRO OUTRIGHT EURO	Y0	0	0	0.0%	0	0.0%	0	100	-100.0%
PETRO OUTRIGHT NA	5Y	0	0	0.0%	0	-	0	0	0.0%
PETRO OUTRIGHT NA	DBB	0	0	0.0%	0	-	0	0	0.0%
PETRO OUTRIGHT NA	FCB	1,358	64	2,021.9%	210	546.7%	2,598	2,543	2.2%
PETRO OUTRIGHT NA	FOB	0	0	0.0%	0	0.0%	0	10	-100.0%
PETRO OUTRIGHT NA	FOM	5	15	-66.7%	0	0.0%	8	62	-87.1%
PETRO OUTRIGHT NA	GBA	0	0	-	0	0.0%	8	0	-
PETRO OUTRIGHT NA	GUD	0	0	-	0	0.0%	13	0	-
PETRO OUTRIGHT NA	JE	0	0	0.0%	0	0.0%	439	215	104.2%
PETRO OUTRIGHT NA	JET	9,570	1,715	458.0%	13,955	-31.4%	45,705	12,495	265.8%
PETRO OUTRIGHT NA	MBL	0	0	0.0%	66	-100.0%	234	746	-68.6%
PETRO OUTRIGHT NA	MEN	448	449	-0.2%	393	14.0%	6,279	6,517	-3.7%
PETRO OUTRIGHT NA	MEO	11,723	5,954	96.9%	10,210	14.8%	102,867	82,673	24.4%
PETRO OUTRIGHT NA	MFD	158	262	-39.7%	62	154.8%	1,058	675	56.7%
PETRO OUTRIGHT NA	MMF	338	155	118.1%	100	238.0%	1,586	1,500	5.7%
PETRO OUTRIGHT NA	NYB	0	0	0.0%	0	-	0	0	0.0%
PETRO OUTRIGHT NA	NYT	0	0	0.0%	0	0.0%	100	25	300.0%
PETRO OUTRIGHT NA	XER	0	0	0.0%	0	0.0%	0	90	-100.0%
PGE&E CITYGATE	PC	0	0	0.0%	0	-	0	0	0.0%
PJM AD HUB 5MW REAL TIME	V3	50,650	234,832	-78.4%	163,360	-69.0%	1,247,258	1,365,726	-8.7%
PJM AD HUB 5MW REAL TIME	Z9	5,335	9,750	-45.3%	6,150	-13.3%	100,314	76,304	31.5%
PJM AECO DA OFF-PEAK	X1	0	0	0.0%	0	0.0%	0	0	0.0%
PJM AECO DA PEAK	Y1	0	0	0.0%	0	0.0%	0	132	-100.0%
PJM APS ZONE DA OFF-PEAK	W4	0	0	0.0%	0	0.0%	0	0	0.0%
PJM APS ZONE DA PEAK	S4	0	0	0.0%	0	0.0%	0	0	0.0%
PJM ATSI ELEC	MOD	0	0	0.0%	6,005	-100.0%	6,005	23,400	-74.3%
PJM ATSI ELEC	MPD	0	0	0.0%	315	-100.0%	315	1,275	-75.3%

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Commodity		VOLUME OCT 2016	VOLUME OCT 2015	% CHG	VOLUME SEP 2016	% CHG	VOLUME Y.T.D 2016	VOLUME Y.T.D 2015	% CHG
Energy Futures									
PJM BGE DA OFF-PEAK	R3	0	0	0.0%	0	0.0%	23,400	0	0.0%
PJM BGE DA PEAK	E3	0	0	0.0%	0	0.0%	1,275	0	0.0%
PJM COMED 5MW D AH O PK	D9	0	0	0.0%	46,800	-100.0%	257,480	84,325	205.3%
PJM COMED 5MW D AH PK	D8	0	2,580	-100.0%	3,180	-100.0%	14,650	7,150	104.9%
PJM DAILY	JD	0	0	0.0%	0	0.0%	1,300	0	0.0%
PJM DAYTON DA OFF-PEAK	R7	0	15,860	-100.0%	6,005	-100.0%	27,310	113,308	-75.9%
PJM DAYTON DA PEAK	D7	0	110	-100.0%	315	-100.0%	21,943	9,340	134.9%
PJM DPL DA OFF-PEAK	E8	0	0	0.0%	0	-	0	0	0.0%
PJM DPL DA PEAK	L8	0	0	0.0%	0	-	0	0	0.0%
PJM DUQUESNE 5MW D AH PK	D5	0	0	0.0%	0	0.0%	0	0	0.0%
PJM DUQUS 5MW D AH O PK	D6	0	0	0.0%	0	0.0%	0	0	0.0%
PJM EASTERNH DA PEAK	E9	0	0	0.0%	0	-	0	0	0.0%
PJM JCPL DA OFF-PEAK	F2	0	0	0.0%	0	0.0%	0	15,360	-100.0%
PJM JCPL DA PEAK	J2	0	0	0.0%	0	0.0%	0	650	-100.0%
PJM NI HUB 5MW REAL TIME	B3	3,390	10,485	-67.7%	9,545	-64.5%	70,029	44,863	56.1%
PJM NI HUB 5MW REAL TIME	B6	124,760	254,510	-51.0%	170,810	-27.0%	1,650,702	1,644,620	0.4%
PJM NILL DA OFF-PEAK	L3	8,965	20,927	-57.2%	50,278	-82.2%	884,177	423,302	108.9%
PJM NILL DA PEAK	N3	191	5,183	-96.3%	3,414	-94.4%	43,655	19,727	121.3%
PJM OFF-PEAK LMP SWAP FUT	JP	0	0	0.0%	0	0.0%	140	1,744	-92.0%
PJM PECO ZONE5MW PEAK CAL MO DAY AH	4N	0	0	0.0%	0	0.0%	0	650	-100.0%
PJM PEPKO DA OFF-PEAK	Q8	0	0	0.0%	0	0.0%	0	7,440	-100.0%
PJM PEPKO DA PEAK	R8	0	0	0.0%	0	-	0	0	0.0%
PJM PPL DA OFF-PEAK	F5	0	37,632	-100.0%	0	0.0%	0	61,152	-100.0%
PJM PPL DA PEAK	L5	0	2,040	-100.0%	0	0.0%	0	3,315	-100.0%
PJM PSEG DA OFF-PEAK	W6	0	1,960	-100.0%	0	0.0%	163,800	1,960	8,257.1%
PJM PSEG DA PEAK	L6	0	110	-100.0%	0	0.0%	5,100	110	4,536.4%
PJM WES HUB PEAK LMP 50 M	4S	0	0	0.0%	0	0.0%	0	0	0.0%
PJM WESTH DA OFF-PEAK	E4	0	540,772	-100.0%	0	0.0%	825,010	689,892	19.6%
PJM WESTHDA PEAK	J4	0	27,960	-100.0%	525	-100.0%	45,673	36,775	24.2%
PJM WESTH RT OFF-PEAK	N9	257,880	1,173,714	-78.0%	260,884	-1.2%	6,091,940	2,839,860	114.5%
PJM WESTH RT PEAK	L1	35,729	62,485	-42.8%	20,420	75.0%	580,716	186,244	211.8%
PLASTICS	PGP	452	765	-40.9%	164	175.6%	3,359	10,415	-67.7%
PLASTICS	PPP	0	0	0.0%	0	-	0	0	0.0%
PREMIUM UNLD 10P FOB MED	3G	46	38	21.1%	168	-72.6%	2,627	2,982	-11.9%
PREMIUM UNLD 10PPM CARGOE	4G	0	0	0.0%	0	-	0	0	0.0%
PREMIUM UNLEAD 10PPM FOB	8G	61	0	0.0%	5	1,120.0%	354	698	-49.3%

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Commodity		VOLUME OCT 2016	VOLUME OCT 2015	% CHG	VOLUME SEP 2016	% CHG	VOLUME Y.T.D 2016	VOLUME Y.T.D 2015	% CHG
Energy Futures									
PREM UNL GAS 10PPM RDAM FOB BALMO	7N	0	0	0.0%	5	-100.0%	7	84	-91.7%
PREM UNL GAS 10PPM RDAM FOB SWAP	7L	1	0	0.0%	0	0.0%	274	260	5.4%
PROPANE NON-LDH MB (OPIS) BALMO SWP	1S	388	151	157.0%	2,150	-82.0%	5,735	1,577	263.7%
PROPANE NON-LDH MT. BEL (OPIS) SWP	1R	15,764	7,242	117.7%	12,963	21.6%	108,799	73,458	48.1%
RBOB CALENDAR SWAP	RL	6,884	5,502	25.1%	7,588	-9.3%	67,070	64,276	4.3%
RBOB CRACK SPREAD	RM	1,800	552	226.1%	1,200	50.0%	14,775	10,039	47.2%
RBOB CRACK SPREAD BALMO S	1E	0	30	-100.0%	300	-100.0%	350	30	1,066.7%
RBOB GASOLINE BALMO CLNDR	1D	245	82	198.8%	693	-64.6%	6,996	10,057	-30.4%
RBOB PHY	RBL	0	0	0.0%	0	0.0%	0	0	0.0%
RBOB SPREAD (PLATTS) SWAP	RI	0	0	0.0%	0	0.0%	0	92	-100.0%
RBOB UP-DOWN CALENDAR SWA	RV	0	13,930	-100.0%	0	0.0%	9,203	101,355	-90.9%
RBOB VS HEATING OIL SWAP	RH	915	150	510.0%	3,030	-69.8%	15,772	9,325	69.1%
ROCKIES KERN OPAL - NW IN	IR	0	1,880	-100.0%	0	0.0%	1,046	1,880	-44.4%
SAN JUAN BASIS SWAP	NJ	8,849	1,791	394.1%	9,043	-2.1%	69,281	19,898	248.2%
SAN JUAN PIPE SWAP	XX	0	0	0.0%	0	0.0%	0	0	0.0%
SINGAPORE 180CST BALMO	BS	42	22	90.9%	52	-19.2%	531	384	38.3%
SINGAPORE 380CST BALMO	BT	25	22	13.6%	203	-87.7%	1,357	1,125	20.6%
SINGAPORE 380CST FUEL OIL	SE	8,769	4,001	119.2%	9,468	-7.4%	74,885	52,165	43.6%
SINGAPORE FUEL 180CST CAL	UA	1,294	1,396	-7.3%	569	127.4%	11,384	20,193	-43.6%
SINGAPORE FUEL OIL SPREAD	SD	881	455	93.6%	645	36.6%	6,024	5,079	18.6%
SINGAPORE GASOIL	MTB	82	35	134.3%	202	-59.4%	2,142	1,294	65.5%
SINGAPORE GASOIL	MTS	3,847	2,181	76.4%	4,070	-5.5%	37,561	24,739	51.8%
SINGAPORE GASOIL	STF	0	0	0.0%	0	-	0	0	0.0%
SINGAPORE GASOIL	STL	0	0	0.0%	0	0.0%	100	150	-33.3%
SINGAPORE GASOIL	STZ	0	0	0.0%	0	0.0%	180	0	0.0%
SINGAPORE GASOIL CALENDAR	MSG	6	240	-97.5%	30	-80.0%	573	6,868	-91.7%
SINGAPORE GASOIL SWAP	SG	15,248	2,881	429.3%	6,877	121.7%	58,865	24,147	143.8%
SINGAPORE GASOIL VS ICE	GA	4,505	1,050	329.0%	3,565	26.4%	23,153	5,850	295.8%
SINGAPORE JET KERO BALMO	BX	0	225	-100.0%	100	-100.0%	156	550	-71.6%
SINGAPORE JET KERO GASOIL	RK	925	500	85.0%	1,175	-21.3%	8,375	3,520	137.9%
SINGAPORE JET KEROSENE SW	KS	868	1,135	-23.5%	1,010	-14.1%	6,498	14,652	-55.7%
SINGAPORE JET KERO VS. GASOIL BALMO	Z0	50	0	0.0%	0	0.0%	50	50	0.0%
SINGAPORE MOGAS 92 UNLEADED BALMO	1P	874	425	105.6%	100	774.0%	3,817	3,233	18.1%
SINGAPORE MOGAS 92 UNLEADED SWP	1N	20,123	3,210	526.9%	9,024	123.0%	82,390	64,124	28.5%
SINGAPORE NAPHTHA BALMO	KU	0	0	0.0%	0	0.0%	20	0	0.0%
SINGAPORE NAPHTHA SWAP	SP	0	0	0.0%	0	0.0%	0	1,175	-100.0%



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Energy Futures									
SING FUEL	MSD	0	0	0.0%	15	-100.0%	30	10	200.0%
SOCAL BASIS SWAP	NS	0	0	0.0%	0	0.0%	0	96	-100.0%
SOCAL PIPE SWAP	XN	0	0	0.0%	264	-100.0%	5,864	488	1,101.6%
SONAT BASIS SWAP FUTURE	SZ	0	30	-100.0%	0	0.0%	368	14,718	-97.5%
SOUTHERN NAT LA NAT GAS	M8	0	0	0.0%	0	0.0%	612	4,280	-85.7%
SOUTH STAR TEX OKLHM KNS	8Z	400	1,216	-67.1%	434	-7.8%	2,202	6,523	-66.2%
Sumas Basis Swap	NK	759	580	30.9%	642	18.2%	15,636	13,429	16.4%
SUMAS NAT GAS PLATTS FIXED PRICE	DVS	0	0	0.0%	0	0.0%	0	2,893	-100.0%
TC2 ROTTERDAM TO USAC 37K	TM	0	0	0.0%	0	0.0%	0	13	-100.0%
TC5 RAS TANURA TO YOKOHAM	TH	0	0	0.0%	0	0.0%	15	30	-50.0%
TCO BASIS SWAP	TC	2,440	4,599	-46.9%	4,923	-50.4%	33,072	34,427	-3.9%
TCO NG INDEX SWAP	Q1	240	0	0.0%	0	0.0%	240	3,904	-93.9%
TD3 MEG TO JAPAN 250K MT	TL	0	0	0.0%	0	-	0	0	0.0%
TENN 800 LEG NAT GAS INDE	L4	0	2,094	-100.0%	0	0.0%	1,285	2,094	-38.6%
TENNESSEE 500 LEG BASIS S	NM	0	0	0.0%	546	-100.0%	1,630	5,526	-70.5%
TENNESSEE 500 LEG NG INDE	Y7	0	0	0.0%	0	-	0	0	0.0%
TENNESSEE 500 LEG NG SWIN	T7	0	0	0.0%	0	-	0	0	0.0%
TENNESSEE 800 LEG NG BASI	6Z	0	0	0.0%	0	0.0%	1,526	3,908	-61.0%
TENNESSEE ZONE 0 BASIS SW	NQ	0	604	-100.0%	428	-100.0%	3,028	604	401.3%
Tetco ELA Basis	TE	0	0	0.0%	0	0.0%	0	1,360	-100.0%
TETCO M-3 INDEX	IX	240	0	0.0%	62	287.1%	8,365	6,784	23.3%
Tetco STX Basis	TX	0	0	0.0%	0	0.0%	1,611	4,304	-62.6%
TEXAS EASTERN ZONE M-3 BA	NX	6,885	4,516	52.5%	6,646	3.6%	80,042	18,929	322.9%
TEXAS GAS ZONE1 NG BASIS	9F	0	0	0.0%	248	-100.0%	248	16,156	-98.5%
TRANSCO ZONE 1 NG BASIS	8E	0	0	0.0%	0	0.0%	0	368	-100.0%
Transco Zone 3 Basis	CZ	240	938	-74.4%	62	287.1%	1,032	6,975	-85.2%
TRANSCO ZONE4 BASIS SWAP	TR	1,474	1,675	-12.0%	943	56.3%	19,482	68,259	-71.5%
TRANSCO ZONE 4 NAT GAS IN	B2	0	0	0.0%	0	0.0%	1,457	930	56.7%
TRANSCO ZONE 6 BASIS SWAP	NZ	1,618	1,068	51.5%	3,424	-52.7%	12,105	10,025	20.7%
TRANSCO ZONE 6 INDEX	IT	240	0	0.0%	368	-34.8%	6,742	76	8,771.1%
TRANSCO ZONE 6 PIPE SWAP	XZ4	0	0	0.0%	0	0.0%	0	122	-100.0%
UCM FUT	UCM	7	60	-88.3%	60	-88.3%	328	578	-43.3%
ULSD 10PPM CIF MED BALMO	X7	0	0	-	0	0.0%	38	0	-
ULSD 10PPM CIF MED SWAP	Z6	0	0	0.0%	0	0.0%	45	0	0.0%
ULSD 10PPM CIF MED VS ICE	Z7	0	100	-100.0%	1	-100.0%	165	781	-78.9%
ULSD 10PPM CIF NW BALMO S	B1	0	0	0.0%	0	-	0	0	0.0%

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Energy Futures									
ULSD 10PPM CIF VS ICE GAS	7V	0	0	0.0%	0	0.0%	35	25	40.0%
ULSD UP-DOWN BALMO SWP	1L	4,845	3,650	32.7%	8,845	-45.2%	57,450	30,358	89.2%
UP DOWN GC ULSD VS NMX HO	LT	52,340	50,964	2.7%	43,081	21.5%	529,791	401,283	32.0%
USGC UNL 87 CRACK SPREAD	RU	0	150	-100.0%	0	0.0%	175	2,675	-93.5%
VENTURA NAT GAS PLATTS FIXED PRICE	DVA	0	0	0.0%	0	0.0%	0	44	-100.0%
WAHA BASIS	NW	1,730	7,155	-75.8%	1,574	9.9%	42,824	30,985	38.2%
WAHA INDEX SWAP FUTURE	IY	60	0	0.0%	248	-75.8%	8,728	0	0.0%
WESTERN RAIL DELIVERY PRB	QP	600	3,015	-80.1%	580	3.4%	9,237	23,265	-60.3%
WTI-BRENT BULLET SWAP	BY	0	0	0.0%	0	0.0%	0	0	0.0%
WTI-BRENT CALENDAR SWAP	BK	8,007	19,235	-58.4%	9,619	-16.8%	116,044	235,176	-50.7%
WTI CALENDAR	CS	37,016	35,958	2.9%	28,291	30.8%	301,316	362,485	-16.9%
WTS (ARGUS) VS WTI SWAP	FF	15,354	1,230	1,148.3%	8,934	71.9%	38,390	55,520	-30.9%
WTS (ARGUS) VS WTI TRD MT	FH	1,002	1,270	-21.1%	2,125	-52.8%	11,708	18,841	-37.9%
Energy Options									
1 MO GASOIL CAL SWAP SPR	GXA	0	100	-100.0%	0	0.0%	0	100	-100.0%
APPALACHIAN COAL	6K	0	0	0.0%	0	0.0%	0	40	-100.0%
BRENT 1 MONTH CAL	AA	0	0	0.0%	0	-	0	0	0.0%
BRENT CALENDAR SWAP	BA	1,800	1,311	37.3%	400	350.0%	13,428	150,004	-91.0%
BRENT OIL LAST DAY	BE	100	1,187	-91.6%	2,575	-96.1%	36,890	50,598	-27.1%
BRENT OIL LAST DAY	BZO	41,977	0	-	27,262	54.0%	194,794	0	-
BRENT OIL LAST DAY	OS	4	1,006	-99.6%	404	-99.0%	12,234	52,907	-76.9%
COAL API2 INDEX	CLA	1,590	6,800	-76.6%	2,797	-43.2%	52,244	56,798	-8.0%
COAL API2 INDEX	CQA	0	10,225	-100.0%	0	0.0%	101,734	81,892	24.2%
COAL API2 INDEX	MTC	0	0	0.0%	0	0.0%	150	151	-0.7%
COAL API4 INDEX	RLA	50	25	100.0%	0	0.0%	100	1,400	-92.9%
COAL API4 INDEX	RQA	100	25	300.0%	50	100.0%	1,480	600	146.7%
COAL SWAP	CPF	0	65	-100.0%	0	0.0%	585	730	-19.9%
COAL SWAP	RPF	0	40	-100.0%	1,000	-100.0%	1,086	2,470	-56.0%
CRUDE OIL 1MO	WA	232,064	118,070	96.5%	310,775	-25.3%	2,523,369	2,095,507	20.4%
CRUDE OIL APO	AO	51,678	33,841	52.7%	34,139	51.4%	303,501	684,825	-55.7%
CRUDE OIL CALNDR STRIP	6F	0	0	0.0%	0	0.0%	0	0	0.0%
CRUDE OIL OUTRIGHTS	AH	0	0	0.0%	0	0.0%	2,290	600	281.7%
CRUDE OIL OUTRIGHTS	DBP	0	0	0.0%	0	0.0%	0	900	-100.0%
CRUDE OIL PHY	CD	3,400	1,700	100.0%	4,200	-19.0%	35,775	15,600	129.3%



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Energy Options									
CRUDE OIL PHY	LC	11,587	10,988	5.5%	2,889	301.1%	297,639	416,129	-28.5%
CRUDE OIL PHY	LO	3,161,971	3,077,433	2.7%	3,850,549	-17.9%	36,878,385	33,532,633	10.0%
CRUDE OIL PHY	LO1	5,660	1,397	305.2%	3,147	79.9%	54,700	40,111	36.4%
CRUDE OIL PHY	LO2	3,774	1,962	92.4%	3,517	7.3%	40,318	29,208	38.0%
CRUDE OIL PHY	LO3	5,429	1,587	242.1%	2,876	88.8%	27,814	21,669	28.4%
CRUDE OIL PHY	LO4	5,411	1,810	199.0%	5,924	-8.7%	44,988	25,781	74.5%
CRUDE OIL PHY	LO5	0	4,623	-100.0%	9,586	-100.0%	25,135	15,318	64.1%
DAILY CRUDE OIL	DNM	0	0	0.0%	0	0.0%	0	8,000	-100.0%
ELEC FINSETTLED	PML	10	0	0.0%	27	-63.0%	264	39	576.9%
ELEC MISO PEAK	9T	840	0	-	0	0.0%	3,420	0	-
ELEC MISO PEAK	OEM	0	0	0.0%	0	-	0	0	0.0%
ELECTRICITY OFF PEAK	N9P	0	0	0.0%	0	0.0%	0	0	0.0%
ETHANOL	CE1	0	0	-	0	0.0%	25	0	-
ETHANOL	CE3	0	0	-	0	0.0%	25	0	-
ETHANOL SWAP	CVR	9,338	8,169	14.3%	10,595	-11.9%	64,251	62,958	2.1%
ETHANOL SWAP	GVR	600	720	-16.7%	540	11.1%	3,458	3,784	-8.6%
EURO-DENOMINATED PETRO PROD	EFB	0	0	0.0%	0	0.0%	0	0	0.0%
EURO-DENOMINATED PETRO PROD	NWE	0	15	-100.0%	0	0.0%	0	15	-100.0%
EUROPEAN JET KEROSENE NWE (PLATTS) A	30	0	0	0.0%	0	0.0%	60	0	0.0%
GASOIL CRACK SPREAD AVG PRICE OPTION	3U	0	0	0.0%	0	0.0%	0	0	0.0%
GASOLINE	GCE	0	0	0.0%	0	0.0%	872	125	597.6%
HEATING OIL CRK SPD AVG PRICE OPTIONS	3W	0	0	-	300	-100.0%	300	0	-
HEATING OIL PHY	LB	505	50	910.0%	24	2,004.2%	3,828	4,797	-20.2%
HEATING OIL PHY	OH	36,860	45,184	-18.4%	36,369	1.4%	513,118	503,884	1.8%
HENRY HUB FINANCIAL LAST	E7	1,961	649	202.2%	2,458	-20.2%	20,356	20,797	-2.1%
HO 1 MONTH CLNDR OPTIONS	FA	200	0	0.0%	0	0.0%	5,900	3,500	68.6%
HUSTN SHIP CHNL PIPE SWP	PK	0	0	0.0%	0	0.0%	0	3,360	-100.0%
ISO NEW ENGLAND PK LMP	OE	0	0	0.0%	0	-	0	0	0.0%
LLS CRUDE OIL	WJO	0	0	-	0	0.0%	11,730	0	-
MCCLOSKEY ARA ARGS COAL	MTO	240	0	0.0%	270	-11.1%	9,505	3,795	150.5%
MCCLOSKEY RCH BAY COAL	MFO	100	0	0.0%	0	0.0%	2,485	1,875	32.5%
NATURAL GAS	G10	0	0	-	0	0.0%	500	0	-
NATURAL GAS 12 M CSO FIN	G7	0	700	-100.0%	0	0.0%	0	1,700	-100.0%
NATURAL GAS 1 M CSO FIN	G4	35,465	28,900	22.7%	2,050	1,630.0%	81,094	233,734	-65.3%
NATURAL GAS 2 M CSO FIN	G2	2,175	1,000	117.5%	200	987.5%	3,375	3,950	-14.6%
NATURAL GAS 3 M CSO FIN	G3	200	500	-60.0%	53,033	-99.6%	227,432	64,295	253.7%

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Energy Options									
NATURAL GAS 5 M CSO FIN	G5	0	0	0.0%	0	0.0%	1,200	2,700	-55.6%
NATURAL GAS 6 M CSO FIN	G6	1,500	1,000	50.0%	0	0.0%	5,600	45,900	-87.8%
NATURAL GAS OPTION ON CALENDAR STRP	6J	2,800	1,220	129.5%	0	0.0%	18,808	11,600	62.1%
NATURAL GAS PHY	KD	31,610	29,255	8.0%	29,255	8.0%	320,141	215,784	48.4%
NATURAL GAS PHY	LN	1,995,328	2,174,130	-8.2%	1,905,146	4.7%	19,293,085	15,249,057	26.5%
NATURAL GAS PHY	ON	312,453	365,631	-14.5%	207,018	50.9%	2,755,268	2,323,113	18.6%
NATURAL GAS PHY	ON1	0	0	0.0%	0	0.0%	2	0	0.0%
NATURAL GAS PHY	ON2	0	0	0.0%	0	-	0	0	0.0%
NATURAL GAS PHY	ON3	0	0	0.0%	0	-	0	0	0.0%
NATURAL GAS PHY	ON4	0	0	0.0%	0	-	0	0	0.0%
NATURAL GAS PHY	ON5	0	0	0.0%	0	0.0%	0	25	-100.0%
NATURAL GAS SUMMER STRIP	4D	0	0	0.0%	0	-	0	0	0.0%
NG HH 3 MONTH CAL	IC	0	0	-	0	0.0%	500	0	-
N ROCKIES PIPE SWAP	ZR	630	0	0.0%	1,680	-62.5%	6,540	6,429	1.7%
NY HARBOR HEAT OIL SWP	AT	5,746	12,536	-54.2%	4,442	29.4%	57,463	135,972	-57.7%
NYISO ZONE G 5MW PEAK OPTIONS	9U	0	440	-100.0%	0	0.0%	420	550	-23.6%
NYMEX EUROPEAN GASOIL APO	F7	30	0	0.0%	0	0.0%	30	1,462	-97.9%
NYMEX EUROPEAN GASOIL OPT	F8	0	0	0.0%	0	0.0%	0	260	-100.0%
PETROCHEMICALS	4H	125	1,324	-90.6%	477	-73.8%	11,021	12,826	-14.1%
PETROCHEMICALS	4I	0	0	0.0%	0	0.0%	0	0	0.0%
PETROCHEMICALS	4J	365	0	0.0%	1,065	-65.7%	5,885	1,690	248.2%
PETROCHEMICALS	4K	180	0	0.0%	480	-62.5%	1,560	0	0.0%
PETROCHEMICALS	CPR	25	0	0.0%	0	0.0%	520	14	3,614.3%
PETRO OUTRIGHT EURO	8H	0	0	0.0%	0	0.0%	0	180	-100.0%
PGE CITYGATE PIPE SWAP	CW	0	0	0.0%	0	0.0%	0	0	0.0%
PJM CALENDAR STRIP	6O	0	300	-100.0%	0	0.0%	0	1,620	-100.0%
PJM ELECTRIC	6OO	0	0	0.0%	0	0.0%	0	0	0.0%
PJM MONTHLY	JO	0	0	0.0%	0	0.0%	0	0	0.0%
PJM WES HUB PEAK CAL MTH	6OA	160	0	0.0%	0	0.0%	750	200	275.0%
PJM WES HUB PEAK CAL MTH	JOA	0	0	-	0	0.0%	10,300	0	-
PJM WES HUB PEAK LMP 50MW	PMA	80	0	-	0	0.0%	9,291	0	-
RBOB 1MO CAL SPD OPTIONS	ZA	6,650	0	0.0%	0	0.0%	10,050	0	0.0%
RBOB CALENDAR SWAP	RA	336	808	-58.4%	150	124.0%	6,585	18,359	-64.1%
RBOB PHY	OB	12,433	27,936	-55.5%	29,903	-58.4%	357,040	298,353	19.7%
RBOB PHY	RF	0	0	0.0%	0	0.0%	20	5,400	-99.6%
ROTTERDAM 3.5%FUEL OIL CL	Q6	0	0	0.0%	0	0.0%	520	605	-14.0%

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Commodity		VOLUME OCT 2016	VOLUME OCT 2015	% CHG	VOLUME SEP 2016	% CHG	VOLUME Y.T.D 2016	VOLUME Y.T.D 2015	% CHG
Energy Options									
SAN JUAN PIPE SWAP	PJ	540	0	0.0%	720	-25.0%	9,108	4,732	92.5%
SHORT TERM	U11	0	0	0.0%	0	0.0%	2,250	3,060	-26.5%
SHORT TERM	U12	200	100	100.0%	200	0.0%	3,730	1,940	92.3%
SHORT TERM	U13	500	0	0.0%	350	42.9%	4,261	1,585	168.8%
SHORT TERM	U14	150	100	50.0%	200	-25.0%	4,775	1,600	198.4%
SHORT TERM	U15	0	900	-100.0%	525	-100.0%	3,125	2,625	19.0%
SHORT TERM	U22	0	250	-100.0%	400	-100.0%	3,275	1,460	124.3%
SHORT TERM	U23	0	150	-100.0%	600	-100.0%	1,680	2,260	-25.7%
SHORT TERM	U24	300	0	0.0%	0	0.0%	2,080	2,105	-1.2%
SHORT TERM	U25	0	0	0.0%	0	0.0%	505	950	-46.8%
SHORT TERM	U26	0	725	-100.0%	350	-100.0%	1,580	1,075	47.0%
SHORT TERM CRUDE OIL	C02	0	0	0.0%	0	0.0%	0	0	0.0%
SHORT TERM CRUDE OIL	C05	0	0	0.0%	0	-	0	0	0.0%
SHORT TERM NATURAL GAS	U01	1,000	0	0.0%	0	0.0%	4,375	1,655	164.4%
SHORT TERM NATURAL GAS	U02	0	3,075	-100.0%	250	-100.0%	3,500	5,138	-31.9%
SHORT TERM NATURAL GAS	U03	0	0	0.0%	675	-100.0%	1,620	2,700	-40.0%
SHORT TERM NATURAL GAS	U04	275	0	0.0%	0	0.0%	4,375	1,375	218.2%
SHORT TERM NATURAL GAS	U05	0	0	0.0%	0	0.0%	2,725	850	220.6%
SHORT TERM NATURAL GAS	U06	400	150	166.7%	575	-30.4%	2,905	2,325	24.9%
SHORT TERM NATURAL GAS	U07	300	100	200.0%	0	0.0%	3,800	2,220	71.2%
SHORT TERM NATURAL GAS	U08	0	150	-100.0%	0	0.0%	3,222	1,975	63.1%
SHORT TERM NATURAL GAS	U09	0	300	-100.0%	850	-100.0%	4,842	3,706	30.7%
SHORT TERM NATURAL GAS	U10	100	0	0.0%	0	0.0%	4,095	2,850	43.7%
SHORT TERM NATURAL GAS	U16	0	75	-100.0%	300	-100.0%	3,610	2,525	43.0%
SHORT TERM NATURAL GAS	U17	0	0	0.0%	0	0.0%	955	1,185	-19.4%
SHORT TERM NATURAL GAS	U18	50	0	0.0%	0	0.0%	2,855	825	246.1%
SHORT TERM NATURAL GAS	U19	150	525	-71.4%	100	50.0%	1,530	3,120	-51.0%
SHORT TERM NATURAL GAS	U20	50	200	-75.0%	350	-85.7%	1,430	1,730	-17.3%
SHORT TERM NATURAL GAS	U21	450	500	-10.0%	100	350.0%	1,125	2,200	-48.9%
SHORT TERM NATURAL GAS	U27	150	0	0.0%	0	0.0%	1,050	1,025	2.4%
SHORT TERM NATURAL GAS	U28	650	75	766.7%	0	0.0%	3,925	450	772.2%
SHORT TERM NATURAL GAS	U29	0	650	-100.0%	200	-100.0%	2,725	1,600	70.3%
SHORT TERM NATURAL GAS	U30	0	550	-100.0%	100	-100.0%	950	3,875	-75.5%
SHORT TERM NATURAL GAS	U31	275	0	0.0%	0	0.0%	1,125	250	350.0%
SINGAPORE FUEL OIL 180 CS	C5	0	0	0.0%	0	0.0%	0	0	0.0%
SINGAPORE GASOIL CALENDAR	M2	0	300	-100.0%	0	0.0%	0	300	-100.0%

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Commodity		VOLUME OCT 2016	VOLUME OCT 2015	% CHG	VOLUME SEP 2016	% CHG	VOLUME Y.T.D 2016	VOLUME Y.T.D 2015	% CHG
Energy Options									
SINGAPORE JET FUEL CALEND	N2	480	300	60.0%	0	0.0%	480	1,500	-68.0%
SOCAL PIPE SWAP	ZN	0	0	0.0%	1,200	-100.0%	11,200	0	0.0%
WTI 12 MONTH CALENDAR OPT	WZ	0	0	0.0%	0	0.0%	0	2,000	-100.0%
WTI 6 MONTH CALENDAR OPTI	WM	0	0	0.0%	0	-	0	0	0.0%
WTI-BRENT BULLET SWAP	BV	13,000	14,625	-11.1%	8,150	59.5%	173,200	219,040	-20.9%
WTI CRUDE OIL 12 M CSO F	7Z	0	0	0.0%	0	-	0	0	0.0%
WTI CRUDE OIL 1 M CSO FI	7A	107,600	162,025	-33.6%	67,430	59.6%	1,430,323	1,622,645	-11.9%
Metals Futures									
COMEX GOLD	GC	3,815,035	3,070,120	24.3%	4,022,560	-5.2%	46,934,581	35,078,124	33.8%
NYMEX HOT ROLLED STEEL	HR	5,836	6,559	-11.0%	4,506	29.5%	48,544	50,216	-3.3%
NYMEX PLATINUM	PL	302,621	281,094	7.7%	456,092	-33.6%	3,210,443	2,970,919	8.1%
PALLADIUM	PA	113,977	92,284	23.5%	88,440	28.9%	1,146,102	1,115,088	2.8%
URANIUM	UX	600	402	49.3%	200	200.0%	7,293	3,350	117.7%
COMEX SILVER	SI	1,327,617	1,107,547	19.9%	1,290,090	2.9%	14,868,847	11,297,783	31.6%
COMEX E-Mini GOLD	QO	6,890	4,122	67.2%	9,810	-29.8%	105,332	56,192	87.5%
E-MINI SILVER	6Q	0	0	0.0%	0	-	0	0	0.0%
COMEX E-Mini SILVER	QI	1,033	652	58.4%	1,068	-3.3%	12,279	8,513	44.2%
COMEX COPPER	HG	1,498,598	1,227,365	22.1%	1,294,011	15.8%	16,559,495	14,093,200	17.5%
COMEX MINY COPPER	QC	239	366	-34.7%	271	-11.8%	5,043	8,018	-37.1%
Aluminium MW Trans Prem Platts	AUP	3,079	2,970	3.7%	5,122	-39.9%	56,563	31,478	79.7%
ALUMINUM	A38	16	0	-	0	0.0%	87	0	-
ALUMINUM	AEP	1,440	1,254	14.8%	170	747.1%	10,579	1,264	736.9%
ALUMINUM	ALA	60	0	-	0	-	60	0	-
ALUMINUM	ALI	1,030	551	86.9%	547	88.3%	6,639	3,087	115.1%
ALUMINUM	EDP	2,070	0	-	849	143.8%	6,989	0	-
ALUMINUM	MJP	1,080	0	-	0	0.0%	6,603	0	-
COPPER	HGS	40	979	-95.9%	75	-46.7%	3,416	6,194	-44.8%
E-MICRO GOLD	MGC	52,304	41,762	25.2%	45,233	15.6%	821,509	313,160	162.3%
FERROUS PRODUCTS	BUS	30	0	0.0%	232	-87.1%	812	558	45.5%
FERROUS PRODUCTS	SSF	0	0	0.0%	0	0.0%	0	0	0.0%
Gold Kilo	GCK	3,711	5,290	-29.8%	3,914	-5.2%	47,646	38,221	24.7%
IRON ORE 58 CHINA TSI FUTURES	TIC	0	0	0.0%	0	0.0%	0	0	0.0%
IRON ORE 62 CHINA PLATTS FUTURES	PIO	540	105	414.3%	0	0.0%	3,010	2,613	15.2%

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Metals Futures									
IRON ORE 62 CHINA TSI FUTURES	TIO	9,777	14,149	-30.9%	12,704	-23.0%	158,928	103,311	53.8%
LNDN ZINC	ZNC	27	14	92.9%	0	0.0%	227	338	-32.8%
METALS	LED	0	0	-	10	-100.0%	25	0	-
SILVER	SIL	5,630	5,532	1.8%	7,214	-22.0%	83,606	79,312	5.4%
Metals Options									
COMEX COPPER	HX	5,079	1,934	162.6%	3,987	27.4%	31,731	21,288	49.1%
COMEX GOLD	OG	826,432	708,498	16.6%	642,991	28.5%	7,857,308	6,421,619	22.4%
COMEX SILVER	SO	105,337	90,876	15.9%	135,144	-22.1%	1,166,452	1,076,044	8.4%
COPPER	H4E	0	0	0.0%	0	0.0%	0	10	-100.0%
GOLD	OG1	2,813	713	294.5%	742	279.1%	12,411	4,478	177.2%
GOLD	OG2	1,193	368	224.2%	990	20.5%	11,420	6,363	79.5%
GOLD	OG3	752	386	94.8%	1,203	-37.5%	8,898	4,793	85.6%
GOLD	OG4	1,274	360	253.9%	282	351.8%	6,404	2,782	130.2%
GOLD	OG5	0	206	-100.0%	518	-100.0%	2,954	1,305	126.4%
HOT ROLLED COIL STEEL CALL OPTION	HRO	0	0	0.0%	0	-	0	0	0.0%
HOT ROLLED COIL STEEL PUT OPTION	HRO	0	0	0.0%	0	-	0	0	0.0%
IRON ORE 62 CHINA TSI CALL OPTION	ICT	760	3,750	-79.7%	480	58.3%	36,749	18,060	103.5%
IRON ORE 62 CHINA TSI PUT OPTION	ICT	120	1,200	-90.0%	5,060	-97.6%	29,366	42,750	-31.3%
NYMEX PLATINUM	PO	3,700	4,656	-20.5%	5,775	-35.9%	43,963	51,392	-14.5%
PALLADIUM	PAO	4,105	4,095	0.2%	2,756	48.9%	33,259	39,040	-14.8%
SHORT TERM	L11	0	0	0.0%	0	-	0	0	0.0%
SHORT TERM GOLD	L02	0	0	0.0%	0	-	0	0	0.0%
SHORT TERM GOLD	L18	0	0	0.0%	0	-	0	0	0.0%
SILVER	SO1	216	5	4,220.0%	122	77.0%	360	428	-15.9%
SILVER	SO2	235	0	0.0%	45	422.2%	281	186	51.1%
SILVER	SO3	180	0	0.0%	84	114.3%	464	194	139.2%
SILVER	SO4	142	0	0.0%	52	173.1%	214	141	51.8%
SILVER	SO5	0	0	0.0%	244	-100.0%	250	203	23.2%

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Commodity	VOLUME OCT 2016	VOLUME OCT 2015	% CHG	VOLUME SEP 2016	% CHG	VOLUME Y.T.D 2016	VOLUME Y.T.D 2015	% CHG
TOTAL FUTURES GROUP								
Commodities and Alternative Investments Futures	44	345	-87.2%	569	-92.3%	3,738	3,504	6.7%
Energy Futures	44,452,029	39,241,640	13.3%	44,574,892	-0.3%	434,129,948	355,042,697	22.3%
Metals Futures	7,153,280	5,863,117	22.0%	7,243,118	-1.2%	84,104,658	65,260,939	28.9%
TOTAL FUTURES	51,605,353	45,105,102	14.4%	51,818,579	-0.4%	518,238,344	420,307,140	23.3%
TOTAL OPTIONS GROUP								
Energy Options	6,112,160	6,160,487	-0.8%	6,631,197	-7.8%	66,181,547	58,441,134	13.2%
Metals Options	952,338	817,047	16.6%	800,475	19.0%	9,242,484	7,691,076	20.2%
TOTAL OPTIONS	7,064,498	6,977,534	1.2%	7,431,672	-4.9%	75,424,031	66,132,210	14.1%
TOTAL COMBINED								
Commodities and Alternative Investments	44	345	-87.2%	569	-92.3%	3,738	3,504	6.7%
Energy	50,564,189	45,402,127	11.4%	51,206,089	-1.3%	500,311,495	413,483,831	21.0%
Metals	8,105,618	6,680,164	21.3%	8,043,593	0.8%	93,347,142	72,952,015	28.0%
GRAND TOTAL	58,669,851	52,082,636	12.6%	59,250,251	-1.0%	593,662,375	486,439,350	22.0%