

NYMEX/COMEX Exchange Volume Report - Monthly

Commodity		VOLUME NOV 2016	VOLUME NOV 2015	% CHG	VOLUME OCT 2016	% CHG	VOLUME Y.T.D 2016	VOLUME Y.T.D 2015	% CHG
Commodities and Alternative Investments Futures									
COCOA TAS	CJ	14	498	-97.2%	30	-53.3%	2,594	1,691	53.4%
COFFEE	KT	1	37	-97.3%	3	-66.7%	169	621	-72.8%
COTTON	TT	2	18	-88.9%	9	-77.8%	577	570	1.2%
SUGAR 11	YO	3	177	-98.3%	2	50.0%	418	1,352	-69.1%
Energy Futures									
CRUDE OIL PHY	CL	27,374,621	16,144,876	69.6%	23,019,383	18.9%	252,787,453	184,138,868	37.3%
CRUDE OIL	WS	3,039	32,765	-90.7%	424	616.7%	86,428	194,730	-55.6%
MINY WTI CRUDE OIL	QM	303,394	175,396	73.0%	227,921	33.1%	3,152,321	2,920,121	8.0%
BRENT OIL LAST DAY	BZ	2,534,063	1,895,268	33.7%	1,548,271	63.7%	21,614,834	24,144,262	-10.5%
HEATING OIL PHY	HO	3,518,657	2,765,883	27.2%	3,183,140	10.5%	36,071,642	33,476,909	7.8%
HTG OIL	BH	76	0	0.0%	24	216.7%	5,502	216	2,447.2%
MINY HTG OIL	QH	5	7	-28.6%	7	-28.6%	100	88	13.6%
RBOB PHY	RB	3,844,730	3,171,891	21.2%	3,413,097	12.6%	42,207,184	36,936,482	14.3%
MINY RBOB GAS	QU	4	4	0.0%	3	33.3%	49	51	-3.9%
NATURAL GAS	HP	155,285	110,285	40.8%	144,472	7.5%	1,440,746	915,674	57.3%
LTD NAT GAS	HH	247,318	267,034	-7.4%	247,472	-0.1%	2,567,442	2,578,034	-0.4%
MINY NATURAL GAS	QG	36,825	28,820	27.8%	33,276	10.7%	290,589	297,347	-2.3%
PJM MONTHLY	JM	48	120	-60.0%	0	0.0%	2,946	6,922	-57.4%
NATURAL GAS PHY	NG	9,073,260	6,236,245	45.5%	10,240,061	-11.4%	87,677,648	73,788,508	18.8%
RBOB GAS	RT	4,022	1,220	229.7%	1,396	188.1%	17,205	12,646	36.1%
3.5% FUEL OIL CID MED SWA	7D	315	61	416.4%	359	-12.3%	2,965	587	405.1%
3.5% FUEL OIL CIF BALMO S	8D	30	10	200.0%	67	-55.2%	307	153	100.7%
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	0	0	0.0%	120	-100.0%	6,224	0	0.0%
ALGONQUIN CITYGATES BASIS	B4	56	0	0.0%	527	-89.4%	8,161	1,365	497.9%
ANR LOUISIANA BASIS SWAP	ND	121	0	0.0%	0	0.0%	121	2,996	-96.0%
ANR OKLAHOMA	NE	302	2,872	-89.5%	886	-65.9%	4,787	10,542	-54.6%
APPALACHIAN COAL (PHY)	QL	0	25	-100.0%	0	0.0%	130	2,581	-95.0%
ARGUS LLS VS. WTI (ARG) T	E5	11,132	8,568	29.9%	9,147	21.7%	135,904	83,540	62.7%
ARGUS PROPAN FAR EST INDE	7E	1,620	716	126.3%	1,783	-9.1%	17,184	4,904	250.4%

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Energy Futures									
ARGUS PROPAN(SAUDI ARAMCO	9N	648	871	-25.6%	851	-23.9%	9,518	6,239	52.6%
AUSTRIALIAN COKE COAL	ALW	542	79	586.1%	228	137.7%	4,569	1,878	143.3%
BRENT BALMO SWAP	J9	76	0	0.0%	682	-88.9%	2,043	4,754	-57.0%
BRENT CALENDAR SWAP	CY	419	2,617	-84.0%	1,000	-58.1%	19,421	57,187	-66.0%
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	0	1,973	-100.0%	500	-100.0%	2,902	70,269	-95.9%
BRENT FINANCIAL FUTURES	MBC	0	33	-100.0%	0	0.0%	1,424	33	4,215.2%
BRENT FINANCIAL FUTURES	MDB	0	0	0.0%	105	-100.0%	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	0	0	-	17,930	-100.0%	17,930	0	-
CAISO SP15 EZGNHUB5 PEAK	9Z	0	0	-	0	-	0	0	-
CANADIAN LIGHT SWEET OIL	CIL	630	795	-20.8%	1,125	-44.0%	20,460	11,214	82.5%
CARBON EUA EMISSIONS EURO	RC	0	0	0.0%	0	-	0	0	0.0%
CENTERPOINT BASIS SWAP	PW	0	1,935	-100.0%	214	-100.0%	13,180	21,159	-37.7%
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	140,457	52,356	168.3%	100,099	40.3%	1,147,184	936,696	22.5%
CHICAGO ULSD (PLATTS) SWA	4C	0	0	0.0%	0	0.0%	0	0	0.0%
CHICAGO ULSD PL VS HO SPR	5C	0	60	-100.0%	132	-100.0%	2,738	4,105	-33.3%
CHICAGO UNL GAS PL VS RBO	3C	0	0	0.0%	0	0.0%	2,090	345	505.8%
CIG BASIS	CI	3,461	6,765	-48.8%	3,212	7.8%	81,620	27,193	200.2%
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	23,480	0	0.0%	0	0.0%	322,440	178,560	80.6%
CIN HUB 5MW D AH PK	H5	218	306	-28.8%	222	-1.8%	20,978	9,597	118.6%
CIN HUB 5MW REAL TIME O P	H4	59,040	117,240	-49.6%	4,000	1,376.0%	1,053,024	760,192	38.5%
CIN HUB 5MW REAL TIME PK	H3	870	2,550	-65.9%	640	35.9%	66,431	19,199	246.0%
COAL SWAP	ACM	400	80	400.0%	170	135.3%	3,023	3,365	-10.2%
COAL SWAP	SSI	0	115	-100.0%	0	0.0%	187	3,077	-93.9%
COLUMB GULF MAINLINE NG B	5Z	121	1,743	-93.1%	214	-43.5%	22,041	24,577	-10.3%
COLUMBIA GULF MAIN NAT G	L2	0	1,829	-100.0%	0	0.0%	2,208	2,449	-9.8%
COLUMBIA GULF NAT GAS FIXED PRICE	DCE	0	0	0.0%	0	0.0%	0	488	-100.0%
COLUMBIA GULF ONSHORE	GL	0	248	-100.0%	0	0.0%	3,108	3,692	-15.8%



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CONWAY NATURAL GASOLINE (OPIS) SWAP	8L	30	154	-80.5%	0	0.0%	1,691	725	133.2%
CONWAY NORMAL BUTANE (OPIS) SWAP	8M	51	105	-51.4%	25	104.0%	2,595	1,964	32.1%
CONWAY PROPANE 5 DECIMALS SWAP	8K	7,882	5,131	53.6%	10,594	-25.6%	80,240	50,057	60.3%
CRUDE OIL	CHB	0	0	-	0	0.0%	60	0	-
CRUDE OIL	LPS	5,373	3,362	59.8%	4,105	30.9%	53,993	26,636	102.7%
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	30	89	-66.3%	0	0.0%	1,011	11,806	-91.4%
CRUDE OIL OUTRIGHTS	CSW	565	0	-	540	4.6%	2,185	0	-
CRUDE OIL OUTRIGHTS	DBL	0	2,080	-100.0%	200	-100.0%	850	30,692	-97.2%
CRUDE OIL OUTRIGHTS	FE	0	0	0.0%	0	0.0%	0	235	-100.0%
CRUDE OIL OUTRIGHTS	GSW	80	0	-	0	0.0%	170	0	-
CRUDE OIL OUTRIGHTS	HTT	2,025	0	-	2,630	-23.0%	23,148	0	-
CRUDE OIL OUTRIGHTS	WCC	1,845	3,675	-49.8%	5,220	-64.7%	51,719	61,143	-15.4%
CRUDE OIL PHY	CLL	0	0	0.0%	0	0.0%	0	0	0.0%
CRUDE OIL SPRDS	38	0	0	0.0%	250	-100.0%	675	300	125.0%
CRUDE OIL SPRDS	KE	0	0	0.0%	0	-	0	0	0.0%
CRUDE OIL SPRDS	WTT	6,005	1,085	453.5%	15,885	-62.2%	43,617	6,392	582.4%
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	0	0.0%	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%	0	0.0%	200	23,657	-99.2%
DATED TO FRONTLINE BRENT	FY	5,525	4,555	21.3%	2,550	116.7%	20,585	32,845	-37.3%
DEMARC INDEX FUTURE	DI	0	0	0.0%	0	0.0%	800	0	0.0%
DEMARC SWING SWAP	DT	0	0	-	0	0.0%	62	0	-

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DIESEL 10P BRG FOB RDM VS	7X	0	0	0.0%	0	0.0%	125	10	1,150.0%
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	31	401	-92.3%	2,640	-98.8%	20,026	2,561	682.0%
DOMINION TRANSMISSION INC	PG	12,618	8,425	49.8%	29,119	-56.7%	223,898	72,373	209.4%
DUBAI CRUDE OIL BALMO	BI	0	0	0.0%	0	0.0%	275	100	175.0%
DUBAI CRUDE OIL CALENDAR	DC	5,148	5,139	0.2%	2,003	157.0%	23,667	44,024	-46.2%
DY EURO 3.5% FUEL OI RDA	FOR	0	0	0.0%	0	0.0%	0	840	-100.0%
EASTERN RAIL DELIVERY CSX	QX	1,425	720	97.9%	1,080	31.9%	14,167	39,496	-64.1%
EAST/WEST FUEL OIL SPREAD	EW	47	8	487.5%	45	4.4%	368	2,344	-84.3%
EIA FLAT TAX ONHWAY DIESE	A5	134	87	54.0%	554	-75.8%	10,672	8,247	29.4%
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	205	-100.0%	0	0.0%	0	1,170	-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	1,534	-100.0%	0	0.0%	1,270	1,534	-17.2%
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	28,064	-100.0%	0	0.0%	23,480	28,064	-16.3%
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	0	0	-	1,840	-100.0%	1,840	0	-
ELEC WEST POWER PEAK	MDC	0	0	-	5,390	-100.0%	5,390	0	-
EL PASO PERMIAN INDEX SWA	IL	0	0	-	0	0.0%	1,612	0	-
EMMISSIONS	CPL	0	250	-100.0%	0	0.0%	0	500	-100.0%
ERCOT NORTH ZMCPE 5MW OFFPEAK	I8	0	0	0.0%	0	0.0%	0	0	0.0%
ERCOT NORTH ZMCPE 5MW OFFPEAK SWAP	I6	0	0	0.0%	0	0.0%	4,280	24,093	-82.2%
ERCOT NORTH ZMCPE 5MW PEAK	I5	0	205	-100.0%	0	0.0%	235	2,796	-91.6%

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ETHANOL T2 FOB ROTT INCL DUTY SWAP	Z1	5,504	2,307	138.6%	2,565	114.6%	27,748	28,685	-3.3%
EU LOW SULPHUR GASOIL CRACK	LSC	0	0	0.0%	0	0.0%	0	0	0.0%
EURO 1% FUEL OIL NEW BALM	KX	10	15	-33.3%	5	100.0%	235	131	79.4%
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	395	318	24.2%	294	34.4%	3,695	6,143	-39.9%
EURO 3.5% FUEL OIL SPREAD	FK	2,859	790	261.9%	826	246.1%	8,813	9,921	-11.2%
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	198	250	-20.8%	0	0.0%	356	2,677	-86.7%
EURO GASOIL 10 CAL SWAP	GT	0	5	-100.0%	0	0.0%	3	11	-72.7%
EURO GASOIL 10PPM VS ICE	ET	15	52	-71.2%	0	0.0%	694	960	-27.7%
EUROPE 1% FUEL OIL NWE CA	UF	13	141	-90.8%	102	-87.3%	1,470	1,775	-17.2%
EUROPE 1% FUEL OIL RDAM C	UH	0	6	-100.0%	0	0.0%	134	166	-19.3%
EUROPE 3.5% FUEL OIL MED	UI	530	85	523.5%	388	36.6%	4,063	1,101	269.0%
EUROPE 3.5% FUEL OIL RDAM	UV	10,529	6,126	71.9%	10,188	3.3%	79,158	93,930	-15.7%
EUROPEAN GASOIL (ICE)	7F	11,141	224,103	-95.0%	6,938	60.6%	1,563,008	423,233	269.3%
EUROPEAN NAPHTHA BALMO	KZ	273	46	493.5%	258	5.8%	1,970	933	111.1%
EUROPEAN NAPHTHA CRACK SPR	EN	10,537	2,254	367.5%	7,677	37.3%	62,816	74,804	-16.0%
EUROPE DATED BRENT SWAP	UB	50	1,600	-96.9%	0	0.0%	26,638	39,030	-31.7%
EUROPE JET KERO NWE CALSW	UJ	0	0	0.0%	0	0.0%	38	494	-92.3%
EUROPE NAPHTHA CALSWAP	UN	2,267	543	317.5%	1,847	22.7%	17,100	14,011	22.0%
EURO PROPANE CIF ARA SWA	PS	1,685	382	341.1%	1,653	1.9%	14,689	4,229	247.3%
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	304	172	76.7%	188	61.7%	2,289	736	211.0%
FREIGHT MARKETS	FRC	0	0	0.0%	0	-	0	0	0.0%
FUEL OIL CRACK VS ICE	FO	4,666	5,770	-19.1%	2,662	75.3%	48,488	41,867	15.8%
FUEL OIL NWE CRACK VS ICE	FI	0	0	0.0%	0	0.0%	32	306	-89.5%
FUEL OIL (PLATS) CAR CM	1W	8	0	0.0%	5	60.0%	1,129	264	327.7%
FUEL OIL (PLATS) CAR CN	1X	0	30	-100.0%	0	0.0%	54	206	-73.8%
FUELOIL SWAP:CARGOES VS.B	FS	625	148	322.3%	109	473.4%	3,839	4,458	-13.9%
GAS EURO-BOB OXY NWE BARGES	7H	8,423	5,038	67.2%	5,906	42.6%	77,099	74,223	3.9%
GAS EURO-BOB OXY NWE BARGES CRK	7K	17,515	14,884	17.7%	11,574	51.3%	158,205	181,327	-12.8%
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%

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Energy Futures									
GASOIL 0.1 CIF MED SWAP	Z4	20	30	-33.3%	0	0.0%	95	50	90.0%
GASOIL 0.1CIF MED VS ICE	Z5	5	40	-87.5%	0	0.0%	195	171	14.0%
GASOIL 0.1 CIF NWE VS ISE	TU	15	0	0.0%	25	-40.0%	50	266	-81.2%
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	0	73	-100.0%	60	-100.0%	120	168	-28.6%
GASOIL 0.1 ROTTERDAM BARG	VL	0	0	0.0%	5	-100.0%	30	10	200.0%
GASOIL 10P CRG CIF NW VS	3V	0	0	0.0%	0	0.0%	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	9	7	28.6%	5	80.0%	904	1,425	-36.6%
GASOIL BULLET SWAP	BG	0	0	0.0%	0	-	0	0	0.0%
GASOIL CALENDAR SWAP	GX	15	18	-16.7%	0	0.0%	329	234	40.6%
GASOIL CRACK SPREAD CALEN	GZ	6,089	2,811	116.6%	3,420	78.0%	56,073	37,777	48.4%
GASOIL MINI CALENDAR SWAP	QA	226	208	8.7%	240	-5.8%	2,635	3,216	-18.1%
GASOLINE UP-DOWN (ARGUS)	UZ	0	0	0.0%	0	-	0	0	0.0%
GASOLINE UP-DOWN BALMO SW	1K	0	235	-100.0%	0	0.0%	810	5,895	-86.3%
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	2,365	3,590	-34.1%	4,750	-50.2%	30,408	42,041	-27.7%
GRP THREE UNL GS (PLT) VS	A8	530	1,825	-71.0%	3,470	-84.7%	16,420	16,867	-2.7%
GULF COAST 3% FUEL OIL BA	VZ	1,784	833	114.2%	633	181.8%	8,671	11,936	-27.4%
GULF COAST GASOLINE CLNDR	GS	0	300	-100.0%	0	0.0%	1,300	6,065	-78.6%
GULF COAST JET FUEL CLNDR	GE	126	90	40.0%	342	-63.2%	1,803	3,668	-50.8%
GULF COAST JET VS NYM 2 H	ME	25,749	11,554	122.9%	31,728	-18.8%	353,130	234,612	50.5%
GULF COAST NO.6 FUEL OIL	MF	55,765	48,874	14.1%	58,934	-5.4%	630,780	748,879	-15.8%
GULF COAST NO.6 FUEL OIL	MG	2,782	250	1,012.8%	882	215.4%	9,648	16,830	-42.7%
GULF COAST ULSD CALENDAR	LY	299	151	98.0%	816	-63.4%	9,227	7,684	20.1%
GULF COAST ULSD CRACK SPR	GY	0	0	0.0%	725	-100.0%	6,881	3,375	103.9%
HEATING OIL BALMO CLNDR S	1G	19	100	-81.0%	125	-84.8%	479	1,754	-72.7%
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	9,813	6,730	45.8%	7,270	35.0%	198,550	140,289	41.5%
HENRY HUB INDEX SWAP FUTU	IN	8,806	6,823	29.1%	6,360	38.5%	179,440	103,502	73.4%
HENRY HUB SWAP	NN	407,413	371,757	9.6%	467,330	-12.8%	4,643,856	4,894,775	-5.1%
HENRY HUB SWING FUTURE	SN	0	0	0.0%	0	0.0%	290	1,200	-75.8%

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Energy Futures									
HOUSTON SHIP CHANNEL BASI	NH	0	6,273	-100.0%	2,036	-100.0%	30,400	44,228	-31.3%
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	6,573	150	4,282.0%	7,400	-11.2%	22,081	9,710	127.4%
ICE GASOIL BALMO SWAP	U9	0	0	0.0%	0	-	0	0	0.0%
IN DELIVERY MONTH EUA	6T	4,490	0	0.0%	5,200	-13.7%	35,991	100,253	-64.1%
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	140	-100.0%	0	0.0%	220	1,745	-87.4%
ISO NEW ENGLAND OFF-PEAK	KI	0	0	0.0%	0	0.0%	0	0	0.0%
ISO NEW ENGLAND PK LMP	NI	0	0	0.0%	0	0.0%	20	20	0.0%
JAPAN C&F NAPHTHA CRACK S	JB	153	367	-58.3%	407	-62.4%	4,371	3,140	39.2%
JAPAN C&F NAPHTHA SWAP	JA	1,472	837	75.9%	1,053	39.8%	13,805	11,062	24.8%
JAPAN NAPHTHA BALMO SWAP	E6	30	0	0.0%	5	500.0%	405	481	-15.8%
JET AV FUEL (P) CAR FM ICE GAS SWAP	1V	0	25	-100.0%	0	0.0%	172	238	-27.7%
JET BARGES VS ICE GASOIL	JR	0	0	0.0%	0	0.0%	22	15	46.7%
JET CIF NWE VS ICE	JC	0	25	-100.0%	5	-100.0%	790	1,114	-29.1%
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	6,650	7,100	-6.3%	7,916	-16.0%	49,055	34,687	41.4%
LA CARB DIESEL (OPIS)	LX	0	0	0.0%	52	-100.0%	52	234	-77.8%
LA CARB DIESEL (OPIS) SWA	KL	100	25	300.0%	625	-84.0%	7,277	7,041	3.4%
LA CARBOB GASOLINE(OPIS)S	JL	0	200	-100.0%	0	0.0%	5,950	5,425	9.7%
LA JET FUEL VS NYM NO 2 H	MQ	0	0	0.0%	10	-100.0%	810	490	65.3%
LA JET (OPIS) SWAP	JS	900	475	89.5%	1,925	-53.2%	21,212	10,235	107.2%
LLS (ARGUS) CALENDAR SWAP	XA	0	0	0.0%	0	0.0%	0	0	0.0%
LLS (ARGUS) VS WTI SWAP	WJ	2,872	5,404	-46.9%	3,860	-25.6%	66,943	106,240	-37.0%
MARS (ARGUS) VS WTI SWAP	YX	6,939	7,958	-12.8%	3,904	77.7%	47,761	68,843	-30.6%
MARS (ARGUS) VS WTI TRD M	YV	7,851	1,173	569.3%	19,076	-58.8%	125,898	16,598	658.5%



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Energy Futures									
MARS BLEND CRUDE OIL	MB	2,832	0	-	50	5,564.0%	18,856	0	-
MCCLOSKEY ARA ARGS COAL	MTF	104,385	194,985	-46.5%	114,162	-8.6%	1,744,224	1,996,925	-12.7%
MCCLOSKEY RCH BAY COAL	MFF	12,728	28,598	-55.5%	12,564	1.3%	182,660	263,656	-30.7%
MGF FUT	MGF	0	0	0.0%	0	0.0%	100	86	16.3%
MGN1 SWAP FUT	MGN	122	190	-35.8%	67	82.1%	1,549	1,688	-8.2%
MICHCON NG INDEX SWAP	Y8	0	0	-	360	-100.0%	2,200	0	-
MICHIGAN BASIS	NF	1,610	1,095	47.0%	2,412	-33.3%	26,373	6,554	302.4%
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	503	128	293.0%	387	30.0%	4,739	3,245	46.0%
MINI RBOB V. EBOBARG NWE BRGS BALMO	MXR	1,405	280	401.8%	220	538.6%	3,841	4,753	-19.2%
MINI RBOB V. EBOB(ARGUS) NWE BRGS	MXB	2,988	1,172	154.9%	2,381	25.5%	17,186	7,812	120.0%
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	20	50	-60.0%	50	-60.0%	895	660	35.6%
MNC FUT	MNC	4,970	4,028	23.4%	3,149	57.8%	43,793	46,954	-6.7%
MONT BELVIEU ETHANE 5 DECIMAL	C0	50,880	4,410	1,053.7%	79,895	-36.3%	539,175	74,467	624.0%
MONT BELVIEU ETHANE OPIS BALMO	8C	75	0	0.0%	425	-82.4%	1,545	2,675	-42.2%
MONT BELVIEU LDH PROPANE 5 DECIMAL	B0	101,228	70,222	44.2%	132,519	-23.6%	1,259,659	532,882	136.4%
MONT BELVIEU LDH PROPANE OPIS BALMO	8O	603	675	-10.7%	1,489	-59.5%	9,785	7,363	32.9%
MONT BELVIEU NATURAL GASOLINE 5 DEC	7Q	6,686	4,727	41.4%	5,139	30.1%	86,896	60,478	43.7%
MONT BELVIEU NATURAL GASOLINE BALMO	R0	20	110	-81.8%	25	-20.0%	1,781	4,050	-56.0%
MONT BELVIEU NORMAL BUTANE 5 DECIMAL	D0	35,273	20,209	74.5%	37,717	-6.5%	307,038	191,212	60.6%
MONT BELVIEU NORMAL BUTANE BALMO	8J	357	202	76.7%	323	10.5%	6,475	5,131	26.2%
NAT GAS BASIS SWAP	SGW	0	0	0.0%	0	0.0%	0	40	-100.0%
NAT GAS BASIS SWAP	TZ6	1,898	0	0.0%	3,210	-40.9%	37,208	5,234	610.9%
NATURAL GAS	HBI	0	0	-	3,540	-100.0%	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%

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Commodity		VOLUME NOV 2016	VOLUME NOV 2015	% CHG	VOLUME OCT 2016	% CHG	VOLUME Y.T.D 2016	VOLUME Y.T.D 2015	% CHG
Energy Futures									
NATURAL GAS FIXED PRICE SWAP FUTURES	WFS	0	0	0.0%	0	0.0%	0	572	-100.0%
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	145,941	148,063	-1.4%	104,281	39.9%	1,228,616	1,994,207	-38.4%
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	67,738	-57.6%	28,690	0.0%	511,929	319,140	60.4%
NEPOOL INTR HUB 5MW D AH	U6	255	2,268	-88.8%	11,695	-97.8%	44,360	19,558	126.8%
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	1,408	-100.0%	0	0.0%	0	10,949	-100.0%
NEPOOL RHODE IL 5MW D AH	U5	0	26,898	-100.0%	0	0.0%	0	109,503	-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	15,520	-100.0%	0	0.0%	4,000	44,368	-91.0%
NEPOOL W CNTR M 5MW D AH	R6	0	860	-100.0%	0	0.0%	1,685	1,700	-0.9%
NEW ENGLAND HUB PEAK DAIL	CE	0	0	0.0%	0	0.0%	0	0	0.0%
NEW YORK ETHANOL SWAP	EZ	2,140	1,075	99.1%	1,235	73.3%	17,005	11,215	51.6%
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	372	310	20.0%	260	43.1%	30,002	43,763	-31.4%
NGPL MIDCONTINENT INDEX	IW	0	0	0.0%	180	-100.0%	7,841	300	2,513.7%
NGPL MIDCONTINENT SWING S	PX	0	0	-	0	0.0%	620	0	-
NGPL TEX/OK	PD	3,028	3,031	-0.1%	860	252.1%	31,992	80,490	-60.3%
NGPL TEXOK INDEX	OI	0	0	0.0%	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	100	675	-85.2%	0	0.0%	2,662	3,884	-31.5%
NORTHEN NATURAL GAS DEMAR	PE	54	124	-56.5%	1,762	-96.9%	3,989	5,593	-28.7%
NORTHEN NATURAL GAS VENTU	PF	481	0	0.0%	1,344	-64.2%	9,216	4,962	85.7%



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Energy Futures									
NORTHERN ILLINOIS OFF-PEA	UO	0	0	0.0%	0	0.0%	0	102	-100.0%
NORTHWEST ROCKIES BASIS S	NR	23,699	17,330	36.8%	11,706	102.5%	181,112	109,855	64.9%
N ROCKIES PIPE SWAP	XR	0	0	0.0%	0	0.0%	0	991	-100.0%
NY1% VS GC SPREAD SWAP	VR	2,590	2,050	26.3%	2,630	-1.5%	26,248	25,419	3.3%
NY 2.2% FUEL OIL (PLATTS	Y3	0	0	0.0%	0	0.0%	489	640	-23.6%
NY 3.0% FUEL OIL (PLATTS	H1	175	450	-61.1%	625	-72.0%	2,300	4,195	-45.2%
NY HARBOR 1% FUEL OIL BAL	VK	0	34	-100.0%	0	0.0%	101	531	-81.0%
NY HARBOR HEAT OIL SWP	MP	1,602	2,166	-26.0%	897	78.6%	24,296	49,699	-51.1%
NY HARBOR LOW SULPUR GAS 1000MBBL	NLS	0	0	0.0%	75	-100.0%	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	2,036	5,469	-62.8%	4,207	-51.6%	37,490	55,172	-32.0%
NY HARBOR RESIDUAL FUEL C	ML	0	0	0.0%	0	0.0%	0	100	-100.0%
NYH NO 2 CRACK SPREAD CAL	HK	1,670	66	2,430.3%	5,005	-66.6%	21,772	25,160	-13.5%
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	138	0	-	0	0.0%	306	0	-
NYISO CAPACITY	NNC	132	899	-85.3%	96	37.5%	1,905	3,359	-43.3%
NYISO CAPACITY	NRS	150	444	-66.2%	112	33.9%	2,323	4,834	-51.9%
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	509	-100.0%	0	0.0%	172	3,220	-94.7%
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	54,016	-100.0%	0	0.0%	239,365	419,096	-42.9%
NYISO ZONE A 5MW D AH PK	K3	2,960	440	572.7%	0	0.0%	6,560	17,286	-62.1%
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	38,600	3,920	884.7%	21,175	82.3%	444,481	244,208	82.0%
NYISO ZONE G 5MW D AH PK	T3	1,280	1,275	0.4%	1,695	-24.5%	34,668	32,764	5.8%
NYISO ZONE J 5MW D AH O P	D4	38,600	0	0.0%	44,575	-13.4%	195,471	56,034	248.8%
NYISO ZONE J 5MW D AH PK	D3	860	0	0.0%	3,180	-73.0%	14,431	9,071	59.1%
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	0	0.0%	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	75	-100.0%	0	0.0%	0	1,188	-100.0%
NY ULSD (ARGUS) VS HEATING OIL	7Y	394	1,275	-69.1%	55	616.4%	7,859	31,013	-74.7%

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 NOV 2016	VOLUME NOV 2015	% CHG	VOLUME OCT 2016	% CHG	VOLUME Y.T.D 2016	VOLUME Y.T.D 2015	% CHG
Energy Futures									
ONEOK OKLAHOMA NG BASIS	8X	346	0	0.0%	0	0.0%	1,411	2,261	-37.6%
ONTARIO POWER SWAPS	OFD	0	0	0.0%	0	0.0%	160	0	0.0%
ONTARIO POWER SWAPS	OFM	0	18,816	-100.0%	0	0.0%	3,750	159,856	-97.7%
ONTARIO POWER SWAPS	OPD	20	45	-55.6%	85	-76.5%	490	315	55.6%
ONTARIO POWER SWAPS	OPM	0	990	-100.0%	0	0.0%	440	8,990	-95.1%
PANHANDLE BASIS SWAP FUTU	PH	9,056	3,473	160.8%	8,156	11.0%	95,318	124,161	-23.2%
PANHANDLE INDEX SWAP FUTU	IV	0	496	-100.0%	0	0.0%	3,472	2,514	38.1%
PANHANDLE PIPE SWAP	XH	0	0	0.0%	0	0.0%	0	314	-100.0%
PERMIAN BASIS SWAP	PM	16,424	3,908	320.3%	6,391	157.0%	61,222	22,026	178.0%
PETROCHEMICALS	22	89	39	128.2%	47	89.4%	554	333	66.4%
PETROCHEMICALS	32	65	55	18.2%	65	0.0%	666	495	34.5%
PETROCHEMICALS	51	0	0	0.0%	0	-	0	0	0.0%
PETROCHEMICALS	81	0	0	0.0%	0	-	0	0	0.0%
PETROCHEMICALS	8I	300	735	-59.2%	604	-50.3%	2,822	5,213	-45.9%
PETROCHEMICALS	91	143	32	346.9%	179	-20.1%	1,825	278	556.5%
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	0	20	-100.0%	60	-100.0%	445	240	85.4%
PETROCHEMICALS	MAS	0	60	-100.0%	30	-100.0%	990	345	187.0%
PETROCHEMICALS	MBE	1,380	2,290	-39.7%	2,580	-46.5%	30,680	20,155	52.2%
PETROCHEMICALS	MNB	1,697	1,128	50.4%	964	76.0%	21,347	14,979	42.5%
PETRO CRCKS & SPRDS ASIA	STI	0	0	0.0%	0	0.0%	1,050	612	71.6%
PETRO CRCKS & SPRDS ASIA	STR	0	330	-100.0%	0	0.0%	64	760	-91.6%
PETRO CRCKS & SPRDS ASIA	STS	150	0	0.0%	0	0.0%	230	318	-27.7%
PETRO CRCKS & SPRDS NA	CBA	0	0	0.0%	0	-	0	0	0.0%
PETRO CRCKS & SPRDS NA	CRB	20	200	-90.0%	150	-86.7%	1,209	2,643	-54.3%
PETRO CRCKS & SPRDS NA	EXR	3,440	652	427.6%	1,788	92.4%	18,063	12,489	44.6%
PETRO CRCKS & SPRDS NA	FOC	1,150	1,325	-13.2%	900	27.8%	11,155	5,415	106.0%
PETRO CRCKS & SPRDS NA	GBB	250	0	0.0%	300	-16.7%	2,640	50	5,180.0%
PETRO CRCKS & SPRDS NA	GCC	475	0	-	375	26.7%	2,500	0	-
PETRO CRCKS & SPRDS NA	GCI	1,919	759	152.8%	2,157	-11.0%	13,487	11,690	15.4%
PETRO CRCKS & SPRDS NA	GCM	0	0	-	0	0.0%	66	0	-
PETRO CRCKS & SPRDS NA	GCU	8,730	3,780	131.0%	8,442	3.4%	81,365	124,120	-34.4%
PETRO CRCKS & SPRDS NA	GFC	250	0	0.0%	0	0.0%	379	100	279.0%
PETRO CRCKS & SPRDS NA	HOB	455	1,228	-62.9%	485	-6.2%	35,364	37,350	-5.3%

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Energy Futures									
PETRO CRCKS & SPRDS NA	KSD	0	0	0.0%	0	0.0%	0	390	-100.0%
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	0	0	0.0%	220	-100.0%	1,008	200	404.0%
PETRO CRCKS & SPRDS NA	NYF	0	200	-100.0%	0	0.0%	490	2,300	-78.7%
PETRO CRCKS & SPRDS NA	NYH	0	0	0.0%	150	-100.0%	450	0	0.0%
PETRO CRCKS & SPRDS NA	RBB	13,296	11,530	15.3%	13,301	0.0%	115,250	115,463	-0.2%
PETRO CRCKS & SPRDS NA	RVG	15,510	550	2,720.0%	6,457	140.2%	98,378	3,015	3,163.0%
PETRO CRCKS & SPRDS NA	SF3	30	0	-	0	0.0%	64	0	-
PETRO CRK&SPRD EURO	1NB	1,293	442	192.5%	1,050	23.1%	17,687	17,472	1.2%
PETRO CRK&SPRD EURO	1ND	0	0	0.0%	0	0.0%	0	50	-100.0%
PETRO CRK&SPRD EURO	43	7	49	-85.7%	610	-98.9%	2,156	3,708	-41.9%
PETRO CRK&SPRD EURO	BFR	0	0	0.0%	0	0.0%	0	170	-100.0%
PETRO CRK&SPRD EURO	BOB	5,655	1,457	288.1%	3,606	56.8%	27,463	18,730	46.6%
PETRO CRK&SPRD EURO	EBF	0	0	0.0%	0	-	0	0	0.0%
PETRO CRK&SPRD EURO	EOB	0	21	-100.0%	6	-100.0%	97	383	-74.7%
PETRO CRK&SPRD EURO	EPN	435	55	690.9%	266	63.5%	2,908	525	453.9%
PETRO CRK&SPRD EURO	EVC	4,370	612	614.1%	3,196	36.7%	21,125	15,732	34.3%
PETRO CRK&SPRD EURO	FBT	0	130	-100.0%	0	0.0%	480	660	-27.3%
PETRO CRK&SPRD EURO	FVB	0	11	-100.0%	0	0.0%	0	31	-100.0%
PETRO CRK&SPRD EURO	GCB	0	0	0.0%	345	-100.0%	1,130	1,158	-2.4%
PETRO CRK&SPRD EURO	GOC	30	30	0.0%	0	0.0%	129	674	-80.9%
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	0	0	0.0%	40	-100.0%	40	434	-90.8%
PETRO CRK&SPRD EURO	MUD	32	0	0.0%	47	-31.9%	1,231	802	53.5%
PETRO CRK&SPRD EURO	NBB	0	0	0.0%	10	-100.0%	198	56	253.6%
PETRO CRK&SPRD EURO	NOB	1,078	270	299.3%	541	99.3%	5,908	2,096	181.9%
PETRO CRK&SPRD EURO	NYG	0	0	0.0%	0	-	0	0	0.0%
PETRO CRK&SPRD EURO	SFB	0	0	0.0%	50	-100.0%	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	-

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Energy Futures									
PETROLEUM PRODUCTS	D63	0	0	0.0%	0	-	0	0	0.0%
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	6,693	12	55,675.0%	6,062	10.4%	18,652	18	103,522.2%
PETROLEUM PRODUCTS	MBS	0	0	-	8	-100.0%	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	129	0	0.0%	1,172	-89.0%	3,727	1,144	225.8%
PETROLEUM PRODUCTS ASIA	E6M	0	0	0.0%	0	0.0%	467	812	-42.5%
PETROLEUM PRODUCTS ASIA	MJN	1,733	1,310	32.3%	1,854	-6.5%	14,678	17,385	-15.6%
PETRO OUTRIGHT EURO	0A	0	0	0.0%	0	0.0%	0	90	-100.0%
PETRO OUTRIGHT EURO	0B	50	120	-58.3%	70	-28.6%	1,420	1,034	37.3%
PETRO OUTRIGHT EURO	0C	20	90	-77.8%	0	0.0%	221	213	3.8%
PETRO OUTRIGHT EURO	0D	4,713	5,402	-12.8%	5,019	-6.1%	44,700	47,846	-6.6%
PETRO OUTRIGHT EURO	0E	1,446	580	149.3%	1,270	13.9%	10,909	4,988	118.7%
PETRO OUTRIGHT EURO	0F	1,335	798	67.3%	1,993	-33.0%	14,031	10,154	38.2%
PETRO OUTRIGHT EURO	1T	0	0	0.0%	0	0.0%	20	85	-76.5%
PETRO OUTRIGHT EURO	33	12	15	-20.0%	60	-80.0%	351	618	-43.2%
PETRO OUTRIGHT EURO	59	0	0	0.0%	0	-	0	0	0.0%
PETRO OUTRIGHT EURO	5L	307	45	582.2%	240	27.9%	2,159	1,175	83.7%
PETRO OUTRIGHT EURO	63	160	128	25.0%	128	25.0%	1,605	1,057	51.8%
PETRO OUTRIGHT EURO	6L	0	0	0.0%	0	0.0%	0	16	-100.0%
PETRO OUTRIGHT EURO	7I	0	279	-100.0%	114	-100.0%	1,513	1,992	-24.0%
PETRO OUTRIGHT EURO	7P	0	0	0.0%	0	0.0%	0	40	-100.0%
PETRO OUTRIGHT EURO	7R	539	160	236.9%	323	66.9%	3,280	2,879	13.9%
PETRO OUTRIGHT EURO	88	0	52	-100.0%	0	0.0%	55	295	-81.4%
PETRO OUTRIGHT EURO	CBB	30	0	0.0%	0	-	30	0	0.0%
PETRO OUTRIGHT EURO	CGB	0	0	0.0%	0	0.0%	6	30	-80.0%
PETRO OUTRIGHT EURO	CPB	423	52	713.5%	58	629.3%	1,422	506	181.0%
PETRO OUTRIGHT EURO	EFF	33	10	230.0%	85	-61.2%	534	169	216.0%
PETRO OUTRIGHT EURO	EFM	8	0	0.0%	25	-68.0%	673	455	47.9%
PETRO OUTRIGHT EURO	ENS	10	45	-77.8%	40	-75.0%	1,171	653	79.3%
PETRO OUTRIGHT EURO	EWN	349	55	534.5%	77	353.2%	2,070	1,028	101.4%

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Energy Futures									
PETRO OUTRIGHT EURO	FBD	20	0	0.0%	0	0.0%	40	121	-66.9%
PETRO OUTRIGHT EURO	MBB	0	0	0.0%	0	0.0%	84	245	-65.7%
PETRO OUTRIGHT EURO	MBN	901	938	-3.9%	1,690	-46.7%	16,268	12,199	33.4%
PETRO OUTRIGHT EURO	RBF	0	0	0.0%	0	-	0	0	0.0%
PETRO OUTRIGHT EURO	SMU	0	0	0.0%	100	-100.0%	340	600	-43.3%
PETRO OUTRIGHT EURO	T0	0	61	-100.0%	909	-100.0%	1,328	1,911	-30.5%
PETRO OUTRIGHT EURO	ULB	0	0	0.0%	0	0.0%	490	1,550	-68.4%
PETRO OUTRIGHT EURO	V0	135	0	0.0%	105	28.6%	240	2,794	-91.4%
PETRO OUTRIGHT EURO	W0	0	0	0.0%	0	0.0%	50	0	0.0%
PETRO OUTRIGHT EURO	X0	0	0	0.0%	0	0.0%	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	64	431	-85.2%	1,358	-95.3%	2,662	2,974	-10.5%
PETRO OUTRIGHT NA	FOB	0	0	0.0%	0	0.0%	0	10	-100.0%
PETRO OUTRIGHT NA	FOM	0	0	0.0%	5	-100.0%	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	240	-100.0%	0	0.0%	439	455	-3.5%
PETRO OUTRIGHT NA	JET	10,203	1,750	483.0%	9,570	6.6%	55,908	14,245	292.5%
PETRO OUTRIGHT NA	MBL	91	0	0.0%	0	0.0%	325	746	-56.4%
PETRO OUTRIGHT NA	MEN	669	376	77.9%	448	49.3%	6,948	6,893	0.8%
PETRO OUTRIGHT NA	MEO	9,904	8,051	23.0%	11,723	-15.5%	112,771	90,724	24.3%
PETRO OUTRIGHT NA	MFD	33	160	-79.4%	158	-79.1%	1,091	835	30.7%
PETRO OUTRIGHT NA	MMF	290	269	7.8%	338	-14.2%	1,876	1,769	6.0%
PETRO OUTRIGHT NA	NYB	0	0	0.0%	0	-	0	0	0.0%
PETRO OUTRIGHT NA	NYT	125	0	0.0%	0	0.0%	225	25	800.0%
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	22,800	168,272	-86.5%	50,650	-55.0%	1,270,058	1,533,998	-17.2%
PJM AD HUB 5MW REAL TIME	Z9	4,240	28,245	-85.0%	5,335	-20.5%	104,554	104,549	0.0%
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	27,690	0	0.0%	0	0.0%	33,695	23,400	44.0%



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Energy Futures									
PJM ATSI ELEC	MPD	1,480	0	0.0%	0	0.0%	1,795	1,275	40.8%
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%	0	0.0%	257,480	84,325	205.3%
PJM COMED 5MW D AH PK	D8	0	0	0.0%	0	0.0%	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	27,690	54,880	-49.5%	0	0.0%	55,000	168,188	-67.3%
PJM DAYTON DA PEAK	D7	1,480	3,310	-55.3%	0	0.0%	23,423	12,650	85.2%
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	5,285	18,189	-70.9%	3,390	55.9%	75,314	63,052	19.4%
PJM NI HUB 5MW REAL TIME	B6	262,195	131,360	99.6%	124,760	110.2%	1,912,897	1,775,980	7.7%
PJM NILL DA OFF-PEAK	L3	190,515	59,478	220.3%	8,965	2,025.1%	1,074,692	482,780	122.6%
PJM NILL DA PEAK	N3	3,825	2,777	37.7%	191	1,902.6%	47,480	22,504	111.0%
PJM OFF-PEAK LMP SWAP FUT	JP	0	120	-100.0%	0	0.0%	140	1,864	-92.5%
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	0	0.0%	0	0.0%	0	61,152	-100.0%
PJM PPL DA PEAK	L5	0	0	0.0%	0	0.0%	0	3,315	-100.0%
PJM PSEG DA OFF-PEAK	W6	0	0	0.0%	0	0.0%	163,800	1,960	8,257.1%
PJM PSEG DA PEAK	L6	0	0	0.0%	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	59,104	-100.0%	0	0.0%	825,010	748,996	10.1%
PJM WESTHDA PEAK	J4	0	2,824	-100.0%	0	0.0%	45,673	39,599	15.3%
PJM WESTH RT OFF-PEAK	N9	93,200	332,200	-71.9%	257,880	-63.9%	6,185,140	3,172,060	95.0%
PJM WESTH RT PEAK	L1	35,499	30,967	14.6%	35,729	-0.6%	616,215	217,211	183.7%
PLASTICS	PGP	1,520	120	1,166.7%	452	236.3%	4,879	10,535	-53.7%
PLASTICS	PPP	0	0	0.0%	0	-	0	0	0.0%
PREMIUM UNLD 10P FOB MED	3G	164	142	15.5%	46	256.5%	2,791	3,124	-10.7%
PREMIUM UNLD 10PPM CARGOE	4G	0	0	0.0%	0	-	0	0	0.0%

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Energy Futures									
PREMIUM UNLEAD 10PPM FOB	8G	5	0	0.0%	61	-91.8%	359	698	-48.6%
PREM UNL GAS 10PPM RDAM FOB BALMO	7N	0	0	0.0%	0	0.0%	7	84	-91.7%
PREM UNL GAS 10PPM RDAM FOB SWAP	7L	0	35	-100.0%	1	-100.0%	274	295	-7.1%
PROPANE NON-LDH MB (OPIS) BALMO SWP	1S	112	936	-88.0%	388	-71.1%	5,847	2,513	132.7%
PROPANE NON-LDH MT. BEL (OPIS) SWP	1R	17,903	12,692	41.1%	15,764	13.6%	126,702	86,150	47.1%
RBOB CALENDAR SWAP	RL	6,207	9,679	-35.9%	6,884	-9.8%	73,277	73,955	-0.9%
RBOB CRACK SPREAD	RM	550	1,140	-51.8%	1,800	-69.4%	15,325	11,179	37.1%
RBOB CRACK SPREAD BALMO S	1E	0	0	0.0%	0	0.0%	350	30	1,066.7%
RBOB GASOLINE BALMO CLNDR	1D	1,501	1,697	-11.5%	245	512.7%	8,497	11,754	-27.7%
RBOB PHY	RBL	0	0	0.0%	0	0.0%	0	0	0.0%
RBOB (PLATTS) CAL SWAP	RY	297	0	-	0	-	297	0	-
RBOB SPREAD (PLATTS) SWAP	RI	0	0	0.0%	0	0.0%	0	92	-100.0%
RBOB UP-DOWN CALENDAR SWA	RV	0	11,493	-100.0%	0	0.0%	9,203	112,848	-91.8%
RBOB VS HEATING OIL SWAP	RH	1,758	750	134.4%	915	92.1%	17,530	10,075	74.0%
ROCKIES KERN OPAL - NW IN	IR	0	0	0.0%	0	0.0%	1,046	1,880	-44.4%
SAN JUAN BASIS SWAP	NJ	6,677	4,787	39.5%	8,849	-24.5%	75,958	24,685	207.7%
SAN JUAN PIPE SWAP	XX	0	0	0.0%	0	0.0%	0	0	0.0%
SINGAPORE 180CST BALMO	BS	24	51	-52.9%	42	-42.9%	555	435	27.6%
SINGAPORE 380CST BALMO	BT	402	121	232.2%	25	1,508.0%	1,759	1,246	41.2%
SINGAPORE 380CST FUEL OIL	SE	13,863	5,648	145.4%	8,769	58.1%	88,748	57,813	53.5%
SINGAPORE FUEL 180CST CAL	UA	1,319	1,022	29.1%	1,294	1.9%	12,703	21,215	-40.1%
SINGAPORE FUEL OIL SPREAD	SD	1,263	343	268.2%	881	43.4%	7,287	5,422	34.4%
SINGAPORE GASOIL	MTB	585	50	1,070.0%	82	613.4%	2,727	1,344	102.9%
SINGAPORE GASOIL	MTS	4,778	2,966	61.1%	3,847	24.2%	42,339	27,705	52.8%
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	250	-100.0%	0	0.0%	180	250	-28.0%
SINGAPORE GASOIL CALENDAR	MSG	0	0	0.0%	6	-100.0%	573	6,868	-91.7%
SINGAPORE GASOIL SWAP	SG	10,497	1,918	447.3%	15,248	-31.2%	69,362	26,065	166.1%
SINGAPORE GASOIL VS ICE	GA	13,686	150	9,024.0%	4,505	203.8%	36,839	6,000	514.0%
SINGAPORE JET KERO BALMO	BX	0	0	0.0%	0	0.0%	156	550	-71.6%
SINGAPORE JET KERO GASOIL	RK	1,390	100	1,290.0%	925	50.3%	9,765	3,620	169.8%
SINGAPORE JET KEROSENE SW	KS	1,077	832	29.4%	868	24.1%	7,575	15,484	-51.1%
SINGAPORE JET KERO VS. GASOIL BALMO	ZO	0	0	0.0%	50	-100.0%	50	50	0.0%
SINGAPORE MOGAS 92 UNLEADED BALMO	1P	1,761	175	906.3%	874	101.5%	5,578	3,408	63.7%
SINGAPORE MOGAS 92 UNLEADED SWP	1N	25,558	8,042	217.8%	20,123	27.0%	107,948	72,166	49.6%

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Energy Futures									
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%
SING FUEL	MSD	35	0	0.0%	0	0.0%	65	10	550.0%
SOCAL BASIS SWAP	NS	0	0	0.0%	0	0.0%	0	96	-100.0%
SOCAL PIPE SWAP	XN	0	0	0.0%	0	0.0%	5,864	488	1,101.6%
SONAT BASIS SWAP FUTURE	SZ	0	0	0.0%	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	90	732	-87.7%	400	-77.5%	2,292	7,255	-68.4%
Sumas Basis Swap	NK	2,423	552	338.9%	759	219.2%	18,059	13,981	29.2%
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	604	1,377	-56.1%	2,440	-75.2%	33,676	35,804	-5.9%
TCO NG INDEX SWAP	Q1	0	0	0.0%	240	-100.0%	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	279	-100.0%	0	0.0%	1,285	2,373	-45.8%
TENNESSEE 500 LEG BASIS S	NM	0	0	0.0%	0	0.0%	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	0	0.0%	0	0.0%	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	0	0	0.0%	240	-100.0%	8,365	6,784	23.3%
Tetco STX Basis	TX	0	365	-100.0%	0	0.0%	1,611	4,669	-65.5%
TEXAS EASTERN ZONE M-3 BA	NX	3,126	1,870	67.2%	6,885	-54.6%	83,168	20,799	299.9%
TEXAS GAS ZONE1 NG BASIS	9F	0	0	0.0%	0	0.0%	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	0	0	0.0%	240	-100.0%	1,032	6,975	-85.2%
TRANSCO ZONE4 BASIS SWAP	TR	4,256	1,760	141.8%	1,474	188.7%	23,738	70,019	-66.1%
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	1,863	213	774.6%	1,618	15.1%	13,968	10,238	36.4%
TRANSCO ZONE 6 INDEX	IT	0	0	0.0%	240	-100.0%	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	15	0	0.0%	7	114.3%	343	578	-40.7%
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%

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Energy Futures									
ULSD 10PPM CIF MED VS ICE	Z7	15	128	-88.3%	0	0.0%	180	909	-80.2%
ULSD 10PPM CIF NW BALMO S	B1	0	0	0.0%	0	-	0	0	0.0%
ULSD 10PPM CIF VS ICE GAS	7V	0	0	0.0%	0	0.0%	35	25	40.0%
ULSD UP-DOWN BALMO SWP	1L	8,558	6,935	23.4%	4,845	76.6%	66,008	37,293	77.0%
UP DOWN GC ULSD VS NMX HO	LT	53,661	47,287	13.5%	52,340	2.5%	583,452	448,570	30.1%
USGC UNL 87 CRACK SPREAD	RU	0	675	-100.0%	0	0.0%	175	3,350	-94.8%
VENTURA NAT GAS PLATTS FIXED PRICE	DVA	0	0	0.0%	0	0.0%	0	44	-100.0%
WAHA BASIS	NW	1,825	2,258	-19.2%	1,730	5.5%	44,649	33,243	34.3%
WAHA INDEX SWAP FUTURE	IY	0	1,712	-100.0%	60	-100.0%	8,728	1,712	409.8%
WESTERN RAIL DELIVERY PRB	QP	0	2,385	-100.0%	600	-100.0%	9,237	25,650	-64.0%
WTI-BRENT BULLET SWAP	BY	500	0	0.0%	0	0.0%	500	0	0.0%
WTI-BRENT CALENDAR SWAP	BK	11,672	16,685	-30.0%	8,007	45.8%	127,716	251,861	-49.3%
WTI CALENDAR	CS	33,473	20,736	61.4%	37,016	-9.6%	334,789	383,221	-12.6%
WTS (ARGUS) VS WTI SWAP	FF	3,720	3,600	3.3%	15,354	-75.8%	42,110	59,120	-28.8%
WTS (ARGUS) VS WTI TRD MT	FH	500	150	233.3%	1,002	-50.1%	12,208	18,991	-35.7%
Energy Options									
1 MO GASOIL CAL SWAP SPR	GXA	0	0	0.0%	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	105	1,113	-90.6%	1,800	-94.2%	13,533	151,117	-91.0%
BRENT OIL LAST DAY	BE	7,000	1,166	500.3%	100	6,900.0%	43,890	51,764	-15.2%
BRENT OIL LAST DAY	BZO	39,304	0	-	41,977	-6.4%	234,098	0	-
BRENT OIL LAST DAY	OS	0	1,982	-100.0%	4	-100.0%	12,234	54,889	-77.7%
COAL API2 INDEX	CLA	1,759	4,275	-58.9%	1,590	10.6%	54,003	61,073	-11.6%
COAL API2 INDEX	CQA	0	12,675	-100.0%	0	0.0%	101,734	94,567	7.6%
COAL API2 INDEX	MTC	0	0	0.0%	0	0.0%	150	151	-0.7%
COAL API4 INDEX	RLA	0	0	0.0%	50	-100.0%	100	1,400	-92.9%
COAL API4 INDEX	RQA	60	0	0.0%	100	-40.0%	1,540	600	156.7%
COAL SWAP	CPF	0	0	0.0%	0	0.0%	585	730	-19.9%
COAL SWAP	RPF	0	1,360	-100.0%	0	0.0%	1,086	3,830	-71.6%
CRUDE OIL 1MO	WA	254,917	140,525	81.4%	232,064	9.8%	2,778,286	2,236,032	24.3%
CRUDE OIL APO	AO	21,270	23,940	-11.2%	51,678	-58.8%	324,771	708,765	-54.2%
CRUDE OIL CALNDR STRIP	6F	0	0	0.0%	0	0.0%	0	0	0.0%
CRUDE OIL OUTRIGHTS	AH	0	16,000	-100.0%	0	0.0%	2,290	16,600	-86.2%

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Energy Options									
CRUDE OIL OUTRIGHTS	DBP	0	0	0.0%	0	0.0%	0	900	-100.0%
CRUDE OIL PHY	CD	1,950	2,200	-11.4%	3,400	-42.6%	37,725	17,800	111.9%
CRUDE OIL PHY	LC	14,052	58,673	-76.1%	11,587	21.3%	311,691	474,802	-34.4%
CRUDE OIL PHY	LO	5,072,423	2,776,673	82.7%	3,161,971	60.4%	41,950,808	36,309,306	15.5%
CRUDE OIL PHY	LO1	22,350	3,664	510.0%	5,660	294.9%	77,050	43,775	76.0%
CRUDE OIL PHY	LO2	4,228	3,612	17.1%	3,774	12.0%	44,546	32,820	35.7%
CRUDE OIL PHY	LO3	4,101	1,136	261.0%	5,429	-24.5%	31,915	22,805	39.9%
CRUDE OIL PHY	LO4	5,365	1,168	359.3%	5,411	-0.9%	50,353	26,949	86.8%
CRUDE OIL PHY	LO5	0	0	0.0%	0	0.0%	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	0	0	0.0%	10	-100.0%	264	39	576.9%
ELEC MISO PEAK	9T	0	2,540	-100.0%	840	-100.0%	3,420	2,540	34.6%
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	9,160	4,237	116.2%	9,338	-1.9%	73,411	67,195	9.3%
ETHANOL SWAP	GVR	210	150	40.0%	600	-65.0%	3,668	3,934	-6.8%
EURO-DENOMINATED PETRO PROD	EFB	0	0	0.0%	0	0.0%	0	0	0.0%
EURO-DENOMINATED PETRO PROD	NWE	0	0	0.0%	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	-	0	0.0%	300	0	-
HEATING OIL PHY	LB	167	301	-44.5%	505	-66.9%	3,995	5,098	-21.6%
HEATING OIL PHY	OH	57,831	39,306	47.1%	36,860	56.9%	570,949	543,190	5.1%
HENRY HUB FINANCIAL LAST	E7	3,175	1,206	163.3%	1,961	61.9%	23,531	22,003	6.9%
HO 1 MONTH CLNDR OPTIONS	FA	0	0	0.0%	200	-100.0%	5,900	3,500	68.6%
HUSTN SHIP CHNL PIPE SWP	PK	0	364	-100.0%	0	0.0%	0	3,724	-100.0%
ISO NEW ENGLAND PK LMP	OE	0	0	0.0%	0	-	0	0	0.0%
LLS CRUDE OIL	WJO	0	4,080	-100.0%	0	0.0%	11,730	4,080	187.5%
MCCLOSKEY ARA ARGS COAL	MTO	0	5,200	-100.0%	240	-100.0%	9,505	8,995	5.7%
MCCLOSKEY RCH BAY COAL	MFO	0	0	0.0%	100	-100.0%	2,485	1,875	32.5%
NATURAL GAS	G10	0	0	-	0	0.0%	500	0	-
NATURAL GAS 12 M CSO FIN	G7	0	500	-100.0%	0	0.0%	0	2,200	-100.0%
NATURAL GAS 1 M CSO FIN	G4	32,990	21,200	55.6%	35,465	-7.0%	114,084	254,934	-55.2%

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Energy Options									
NATURAL GAS 2 M CSO FIN	G2	680	1,000	-32.0%	2,175	-68.7%	4,055	4,950	-18.1%
NATURAL GAS 3 M CSO FIN	G3	100	1,150	-91.3%	200	-50.0%	227,532	65,445	247.7%
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	3,600	1,000	260.0%	1,500	140.0%	9,200	46,900	-80.4%
NATURAL GAS OPTION ON CALENDAR STRP	6J	6,900	540	1,177.8%	2,800	146.4%	25,708	12,140	111.8%
NATURAL GAS PHY	KD	28,821	25,986	10.9%	31,610	-8.8%	348,962	241,770	44.3%
NATURAL GAS PHY	LN	2,240,243	2,016,414	11.1%	1,995,328	12.3%	21,533,328	17,265,471	24.7%
NATURAL GAS PHY	ON	358,780	320,379	12.0%	312,453	14.8%	3,114,048	2,643,492	17.8%
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	0	0	0.0%	630	-100.0%	6,540	6,429	1.7%
NY HARBOR HEAT OIL SWP	AT	3,280	10,633	-69.2%	5,746	-42.9%	60,743	146,605	-58.6%
NYISO ZONE G 5MW PEAK OPTIONS	9U	10,740	0	0.0%	0	0.0%	11,160	550	1,929.1%
NYMEX EUROPEAN GASOIL APO	F7	0	0	0.0%	30	-100.0%	30	1,462	-97.9%
NYMEX EUROPEAN GASOIL OPT	F8	0	0	0.0%	0	0.0%	0	260	-100.0%
PETROCHEMICALS	4H	205	395	-48.1%	125	64.0%	11,226	13,221	-15.1%
PETROCHEMICALS	4I	0	0	0.0%	0	0.0%	0	0	0.0%
PETROCHEMICALS	4J	420	150	180.0%	365	15.1%	6,305	1,840	242.7%
PETROCHEMICALS	4K	0	0	0.0%	180	-100.0%	1,560	0	0.0%
PETROCHEMICALS	CPR	0	0	0.0%	25	-100.0%	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	20	-100.0%	0	0.0%	0	1,640	-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	340	0	0.0%	160	112.5%	1,090	200	445.0%
PJM WES HUB PEAK CAL MTH	JOA	0	0	-	0	0.0%	10,300	0	-
PJM WES HUB PEAK LMP 50MW	PMA	2,644	0	-	80	3,205.0%	11,935	0	-
RBOB 1MO CAL SPD OPTIONS	ZA	1,800	0	0.0%	6,650	-72.9%	11,850	0	0.0%
RBOB CALENDAR SWAP	RA	0	600	-100.0%	336	-100.0%	6,585	18,959	-65.3%
RBOB PHY	OB	23,038	22,708	1.5%	12,433	85.3%	380,078	321,061	18.4%



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Commodity		VOLUME NOV 2016	VOLUME NOV 2015	% CHG	VOLUME OCT 2016	% CHG	VOLUME Y.T.D 2016	VOLUME Y.T.D 2015	% CHG
Energy Options									
RBOB PHY	RF	40	0	0.0%	0	0.0%	60	5,400	-98.9%
ROTTERDAM 3.5%FUEL OIL CL	Q6	0	10	-100.0%	0	0.0%	520	615	-15.4%
SAN JUAN PIPE SWAP	PJ	0	0	0.0%	540	-100.0%	9,108	4,732	92.5%
SHORT TERM	U11	955	0	0.0%	0	0.0%	3,205	3,060	4.7%
SHORT TERM	U12	0	125	-100.0%	200	-100.0%	3,730	2,065	80.6%
SHORT TERM	U13	0	950	-100.0%	500	-100.0%	4,261	2,535	68.1%
SHORT TERM	U14	450	0	0.0%	150	200.0%	5,225	1,600	226.6%
SHORT TERM	U15	300	0	0.0%	0	0.0%	3,425	2,625	30.5%
SHORT TERM	U22	530	0	0.0%	0	0.0%	3,805	1,460	160.6%
SHORT TERM	U23	500	130	284.6%	0	0.0%	2,180	2,390	-8.8%
SHORT TERM	U24	0	0	0.0%	300	-100.0%	2,080	2,105	-1.2%
SHORT TERM	U25	0	50	-100.0%	0	0.0%	505	1,000	-49.5%
SHORT TERM	U26	0	0	0.0%	0	0.0%	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	650	200	225.0%	1,000	-35.0%	5,025	1,855	170.9%
SHORT TERM NATURAL GAS	U02	700	0	0.0%	0	0.0%	4,200	5,138	-18.3%
SHORT TERM NATURAL GAS	U03	1,450	0	0.0%	0	0.0%	3,070	2,700	13.7%
SHORT TERM NATURAL GAS	U04	625	300	108.3%	275	127.3%	5,000	1,675	198.5%
SHORT TERM NATURAL GAS	U05	0	1,350	-100.0%	0	0.0%	2,725	2,200	23.9%
SHORT TERM NATURAL GAS	U06	0	0	0.0%	400	-100.0%	2,905	2,325	24.9%
SHORT TERM NATURAL GAS	U07	1,000	0	0.0%	300	233.3%	4,800	2,220	116.2%
SHORT TERM NATURAL GAS	U08	100	0	0.0%	0	0.0%	3,322	1,975	68.2%
SHORT TERM NATURAL GAS	U09	600	1,125	-46.7%	0	0.0%	5,442	4,831	12.6%
SHORT TERM NATURAL GAS	U10	500	50	900.0%	100	400.0%	4,595	2,900	58.4%
SHORT TERM NATURAL GAS	U16	250	200	25.0%	0	0.0%	3,860	2,725	41.7%
SHORT TERM NATURAL GAS	U17	450	0	0.0%	0	0.0%	1,405	1,185	18.6%
SHORT TERM NATURAL GAS	U18	200	0	0.0%	50	300.0%	3,055	825	270.3%
SHORT TERM NATURAL GAS	U19	0	50	-100.0%	150	-100.0%	1,530	3,170	-51.7%
SHORT TERM NATURAL GAS	U20	0	0	0.0%	50	-100.0%	1,430	1,730	-17.3%
SHORT TERM NATURAL GAS	U21	750	0	0.0%	450	66.7%	1,875	2,200	-14.8%
SHORT TERM NATURAL GAS	U27	0	200	-100.0%	150	-100.0%	1,050	1,225	-14.3%
SHORT TERM NATURAL GAS	U28	0	0	0.0%	650	-100.0%	3,925	450	772.2%
SHORT TERM NATURAL GAS	U29	450	0	0.0%	0	0.0%	3,175	1,600	98.4%
SHORT TERM NATURAL GAS	U30	750	0	0.0%	0	0.0%	1,700	3,875	-56.1%
SHORT TERM NATURAL GAS	U31	0	0	0.0%	275	-100.0%	1,125	250	350.0%

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Commodity		VOLUME NOV 2016	VOLUME NOV 2015	% CHG	VOLUME OCT 2016	% CHG	VOLUME Y.T.D 2016	VOLUME Y.T.D 2015	% CHG
Energy Options									
SINGAPORE FUEL OIL 180 CS	C5	0	0	0.0%	0	0.0%	0	0	0.0%
SINGAPORE GASOIL CALENDAR	M2	0	0	0.0%	0	0.0%	0	300	-100.0%
SINGAPORE JET FUEL CALENDAR	N2	480	0	0.0%	480	0.0%	960	1,500	-36.0%
SOCAL PIPE SWAP	ZN	0	0	0.0%	0	0.0%	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	6,850	25,950	-73.6%	13,000	-47.3%	180,050	244,990	-26.5%
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	248,192	150,175	65.3%	107,600	130.7%	1,678,515	1,772,820	-5.3%
Metals Futures									
COMEX GOLD	GC	7,108,687	4,033,977	76.2%	3,815,035	86.3%	54,043,268	39,112,101	38.2%
NYMEX HOT ROLLED STEEL	HR	2,623	5,405	-51.5%	5,836	-55.1%	51,167	55,621	-8.0%
NYMEX PLATINUM	PL	360,457	261,514	37.8%	302,621	19.1%	3,570,900	3,232,433	10.5%
PALLADIUM	PA	198,537	162,382	22.3%	113,977	74.2%	1,344,639	1,277,470	5.3%
URANIUM	UX	2	0	0.0%	600	-99.7%	7,295	3,350	117.8%
COMEX SILVER	SI	2,214,364	1,291,748	71.4%	1,327,617	66.8%	17,083,211	12,589,531	35.7%
COMEX E-Mini GOLD	QO	17,592	6,330	177.9%	6,890	155.3%	122,924	62,522	96.6%
E-MINI SILVER	6Q	0	0	0.0%	0	-	0	0	0.0%
COMEX E-Mini SILVER	QI	1,695	787	115.4%	1,033	64.1%	13,974	9,300	50.3%
COMEX COPPER	HG	3,531,273	1,843,645	91.5%	1,498,598	135.6%	20,090,768	15,936,845	26.1%
COMEX MINY COPPER	QC	1,073	770	39.4%	239	349.0%	6,116	8,788	-30.4%
Aluminium MW Trans Prem Platts	AUP	9,840	2,978	230.4%	3,079	219.6%	66,403	34,456	92.7%
ALUMINUM	A38	0	0	-	16	-100.0%	87	0	-
ALUMINUM	AEP	2,085	2,040	2.2%	1,440	44.8%	12,664	3,304	283.3%
ALUMINUM	ALA	0	0	-	60	-100.0%	60	0	-
ALUMINUM	ALI	1,134	502	125.9%	1,030	10.1%	7,773	3,589	116.6%
ALUMINUM	EDP	2,420	0	-	2,070	16.9%	9,409	0	-
ALUMINUM	MJP	1,740	0	-	1,080	61.1%	8,343	0	-
COPPER	HGS	400	246	62.6%	40	900.0%	3,816	6,440	-40.7%
E-MICRO GOLD	MGC	96,161	42,679	125.3%	52,304	83.9%	917,670	355,839	157.9%
FERROUS PRODUCTS	BUS	160	0	0.0%	30	433.3%	972	558	74.2%
FERROUS PRODUCTS	SSF	0	0	0.0%	0	0.0%	0	0	0.0%
GOLD	GPS	2	0	-	0	-	2	0	-

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Commodity		VOLUME NOV 2016	VOLUME NOV 2015	% CHG	VOLUME OCT 2016	% CHG	VOLUME Y.T.D 2016	VOLUME Y.T.D 2015	% CHG
Metals Futures									
Gold Kilo	GCK	4,786	5,519	-13.3%	3,711	29.0%	52,432	43,740	19.9%
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	46	0	0.0%	540	-91.5%	3,056	2,613	17.0%
IRON ORE 62 CHINA TSI FUTURES	TIO	26,665	17,571	51.8%	9,777	172.7%	185,593	120,882	53.5%
LNDN ZINC	ZNC	0	48	-100.0%	27	-100.0%	227	386	-41.2%
METALS	LED	0	0	-	0	0.0%	25	0	-
SILVER	SIL	11,856	6,053	95.9%	5,630	110.6%	95,462	85,365	11.8%
Metals Options									
COMEX COPPER	HX	4,908	4,479	9.6%	5,079	-3.4%	36,639	25,767	42.2%
COMEX GOLD	OG	1,324,732	601,123	120.4%	826,432	60.3%	9,182,040	7,022,742	30.7%
COMEX SILVER	SO	129,032	84,249	53.2%	105,337	22.5%	1,295,484	1,160,293	11.7%
COPPER	H4E	0	0	0.0%	0	0.0%	0	10	-100.0%
GOLD	OG1	1,690	894	89.0%	2,813	-39.9%	14,101	5,372	162.5%
GOLD	OG2	7,775	656	1,085.2%	1,193	551.7%	19,195	7,019	173.5%
GOLD	OG3	1,033	512	101.8%	752	37.4%	9,931	5,305	87.2%
GOLD	OG4	712	411	73.2%	1,274	-44.1%	7,116	3,193	122.9%
GOLD	OG5	0	0	0.0%	0	0.0%	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	2,840	1,440	97.2%	760	273.7%	39,589	19,500	103.0%
IRON ORE 62 CHINA TSI PUT OPTION	ICT	2,690	1,250	115.2%	120	2,141.7%	32,056	44,000	-27.1%
NYMEX PLATINUM	PO	3,608	4,136	-12.8%	3,700	-2.5%	47,571	55,528	-14.3%
PALLADIUM	PAO	4,581	3,300	38.8%	4,105	11.6%	37,840	42,340	-10.6%
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	199	0	0.0%	216	-7.9%	559	428	30.6%
SILVER	SO2	337	4	8,325.0%	235	43.4%	618	190	225.3%
SILVER	SO3	79	0	0.0%	180	-56.1%	543	194	179.9%
SILVER	SO4	43	0	0.0%	142	-69.7%	257	141	82.3%
SILVER	SO5	0	0	0.0%	0	0.0%	250	203	23.2%

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Commodity	VOLUME NOV 2016	VOLUME NOV 2015	% CHG	VOLUME OCT 2016	% CHG	VOLUME Y.T.D 2016	VOLUME Y.T.D 2015	% CHG
TOTAL FUTURES GROUP								
Commodities and Alternative Investments Futures	20	730	-97.3%	44	-54.5%	3,758	4,234	-11.2%
Energy Futures	49,693,688	33,683,631	47.5%	44,452,029	11.8%	483,823,636	388,726,328	24.5%
Metals Futures	13,593,598	7,684,194	76.9%	7,153,280	90.0%	97,698,256	72,945,133	33.9%
TOTAL FUTURES	63,287,306	41,368,555	53.0%	51,605,353	22.6%	581,525,650	461,675,695	26.0%
TOTAL OPTIONS GROUP								
Energy Options	8,500,780	5,711,086	48.8%	6,112,160	39.1%	74,682,327	64,152,220	16.4%
Metals Options	1,484,259	702,454	111.3%	952,338	55.9%	10,726,743	8,393,530	27.8%
TOTAL OPTIONS	9,985,039	6,413,540	55.7%	7,064,498	41.3%	85,409,070	72,545,750	17.7%
TOTAL COMBINED								
Commodities and Alternative Investments	20	730	-97.3%	44	-54.5%	3,758	4,234	-11.2%
Energy	58,194,468	39,394,717	47.7%	50,564,189	15.1%	558,505,963	452,878,548	23.3%
Metals	15,077,857	8,386,648	79.8%	8,105,618	86.0%	108,424,999	81,338,663	33.3%
GRAND TOTAL	73,272,345	47,782,095	53.3%	58,669,851	24.9%	666,934,720	534,221,445	24.8%