

## NYMEX/COMEX Exchange Volume Report - Monthly

Commodity		VOLUME DEC 2016	VOLUME DEC 2015	% CHG	VOLUME NOV 2016	% CHG	VOLUME Y.T.D 2016	VOLUME Y.T.D 2015	% CHG
<b>Commodities and Alternative Investments Futures</b>									
COCOA TAS	CJ	13	125	-89.6%	14	-7.1%	2,607	1,816	43.6%
COFFEE	KT	0	14	-100.0%	1	-100.0%	169	635	-73.4%
COTTON	TT	1	15	-93.3%	2	-50.0%	578	585	-1.2%
SUGAR 11	YO	0	218	-100.0%	3	-100.0%	418	1,570	-73.4%
<b>Energy Futures</b>									
CRUDE OIL PHY	CL	23,980,985	18,063,524	32.8%	27,374,621	-12.4%	276,768,438	202,202,392	36.9%
CRUDE OIL	WS	8,500	6,338	34.1%	3,039	179.7%	94,928	201,068	-52.8%
MINY WTI CRUDE OIL	QM	228,651	229,374	-0.3%	303,394	-24.6%	3,380,972	3,149,495	7.3%
BRENT OIL LAST DAY	BZ	2,098,275	2,106,816	-0.4%	2,534,063	-17.2%	23,713,109	26,251,078	-9.7%
HEATING OIL PHY	HO	3,317,707	3,470,111	-4.4%	3,518,657	-5.7%	39,389,349	36,947,020	6.6%
HTG OIL	BH	76	1,930	-96.1%	76	0.0%	5,578	2,146	159.9%
MINY HTG OIL	QH	5	10	-50.0%	5	0.0%	105	98	7.1%
RBOB PHY	RB	3,221,479	3,365,617	-4.3%	3,844,730	-16.2%	45,428,663	40,302,099	12.7%
MINY RBOB GAS	QU	2	6	-66.7%	4	-50.0%	51	57	-10.5%
NATURAL GAS	HP	133,439	152,245	-12.4%	155,285	-14.1%	1,574,185	1,067,919	47.4%
LTD NAT GAS	HH	390,903	319,532	22.3%	247,318	58.1%	2,958,345	2,897,566	2.1%
MINY NATURAL GAS	QG	48,392	32,852	47.3%	36,825	31.4%	338,981	330,199	2.7%
PJM MONTHLY	JM	0	444	-100.0%	48	-100.0%	2,946	7,366	-60.0%
NATURAL GAS PHY	NG	9,802,943	7,983,984	22.8%	9,073,260	8.0%	97,480,591	81,772,492	19.2%
RBOB GAS	RT	2,176	5,416	-59.8%	4,022	-45.9%	19,381	18,062	7.3%
3.5% FUEL OIL CID MED SWA	7D	326	309	5.5%	315	3.5%	3,291	896	267.3%
3.5% FUEL OIL CIF BALMO S	8D	90	0	0.0%	30	200.0%	397	153	159.5%
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%	0	0.0%	6,224	0	0.0%
ALGONQUIN CITYGATES BASIS	B4	0	54	-100.0%	56	-100.0%	8,161	1,419	475.1%
ANR LOUISIANA BASIS SWAP	ND	124	0	0.0%	121	2.5%	245	2,996	-91.8%
ANR OKLAHOMA	NE	0	972	-100.0%	302	-100.0%	4,787	11,514	-58.4%
APPALACHIAN COAL (PHY)	QL	0	70	-100.0%	0	0.0%	130	2,651	-95.1%
ARGUS LLS VS. WTI (ARG) T	E5	8,663	14,578	-40.6%	11,132	-22.2%	144,567	98,118	47.3%
ARGUS PROPAN FAR EST INDE	7E	1,035	887	16.7%	1,620	-36.1%	18,219	5,791	214.6%



## NYMEX/COMEX Exchange Volume Report - Monthly

Commodity		VOLUME DEC 2016	VOLUME DEC 2015	% CHG	VOLUME NOV 2016	% CHG	VOLUME Y.T.D 2016	VOLUME Y.T.D 2015	% CHG
<b>Energy Futures</b>									
ARGUS PROPAN(SAUDI ARAMCO	9N	596	889	-33.0%	648	-8.0%	10,114	7,128	41.9%
AUSTRIALIAN COKE COAL	ALW	252	12	2,000.0%	542	-53.5%	4,821	1,890	155.1%
BRENT BALMO SWAP	J9	250	100	150.0%	76	228.9%	2,293	4,854	-52.8%
BRENT CALENDAR SWAP	CY	2,670	2,055	29.9%	419	537.2%	22,091	59,242	-62.7%
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	192	3,526	-94.6%	0	0.0%	3,094	73,795	-95.8%
BRENT FINANCIAL FUTURES	MBC	0	1,081	-100.0%	0	0.0%	1,424	1,114	27.8%
BRENT FINANCIAL FUTURES	MDB	0	60	-100.0%	0	0.0%	2,513	390	544.4%
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	-	0	0.0%	17,930	0	-
CAISO SP15 EZGNHUB5 PEAK	9Z	0	0	-	0	0.0%	0	0	-
CANADIAN LIGHT SWEET OIL	CIL	446	3,423	-87.0%	630	-29.2%	20,906	14,637	42.8%
CARBON EUA EMISSIONS EURO	RC	0	0	0.0%	0	-	0	0	0.0%
CENTERPOINT BASIS SWAP	PW	0	1,588	-100.0%	0	0.0%	13,180	22,747	-42.1%
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	175,008	64,394	171.8%	140,457	24.6%	1,322,192	1,001,090	32.1%
CHICAGO ULSD (PLATTS) SWA	4C	0	0	0.0%	0	0.0%	0	0	0.0%
CHICAGO ULSD PL VS HO SPR	5C	150	297	-49.5%	0	0.0%	2,888	4,402	-34.4%
CHICAGO UNL GAS PL VS RBO	3C	0	0	0.0%	0	0.0%	2,090	345	505.8%
CIG BASIS	CI	519	20,728	-97.5%	3,461	-85.0%	82,139	47,921	71.4%
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%	23,480	-100.0%	322,440	178,560	80.6%
CIN HUB 5MW D AH PK	H5	1,164	982	18.5%	218	433.9%	22,142	10,579	109.3%
CIN HUB 5MW REAL TIME O P	H4	163,440	27,560	493.0%	59,040	176.8%	1,216,464	787,752	54.4%
CIN HUB 5MW REAL TIME PK	H3	1,790	1,519	17.8%	870	105.7%	68,221	20,718	229.3%
COAL SWAP	ACM	55	755	-92.7%	400	-86.3%	3,078	4,120	-25.3%
COAL SWAP	SSI	0	85	-100.0%	0	0.0%	187	3,162	-94.1%
COLUMB GULF MAINLINE NG B	5Z	0	1,138	-100.0%	121	-100.0%	22,041	25,715	-14.3%
COLUMBIA GULF MAIN NAT G	L2	0	930	-100.0%	0	0.0%	2,208	3,379	-34.7%
COLUMBIA GULF NAT GAS FIXED PRICE	DCE	0	0	0.0%	0	0.0%	0	488	-100.0%
COLUMBIA GULF ONSHORE	GL	868	930	-6.7%	0	0.0%	3,976	4,622	-14.0%

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.

## NYMEX/COMEX Exchange Volume Report - Monthly

Commodity		VOLUME DEC 2016	VOLUME DEC 2015	% CHG	VOLUME NOV 2016	% CHG	VOLUME Y.T.D 2016	VOLUME Y.T.D 2015	% CHG
<b>Energy Futures</b>									
CONWAY NATURAL GASOLINE (OPIS) SWAP	8L	0	307	-100.0%	30	-100.0%	1,691	1,032	63.9%
CONWAY NORMAL BUTANE (OPIS) SWAP	8M	165	0	0.0%	51	223.5%	2,760	1,964	40.5%
CONWAY PROPANE 5 DECIMALS SWAP	8K	8,073	5,638	43.2%	7,882	2.4%	88,313	55,695	58.6%
CRUDE OIL	CHB	0	0	-	0	0.0%	60	0	-
CRUDE OIL	LPS	3,922	3,912	0.3%	5,373	-27.0%	57,915	30,548	89.6%
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	184	226	-18.6%	30	513.3%	1,195	12,032	-90.1%
CRUDE OIL OUTRIGHTS	CSW	120	0	-	565	-78.8%	2,305	0	-
CRUDE OIL OUTRIGHTS	DBL	0	1,920	-100.0%	0	0.0%	850	32,612	-97.4%
CRUDE OIL OUTRIGHTS	FE	0	0	0.0%	0	0.0%	0	235	-100.0%
CRUDE OIL OUTRIGHTS	GSW	60	0	-	80	-25.0%	230	0	-
CRUDE OIL OUTRIGHTS	HTT	6,987	0	-	2,025	245.0%	30,135	0	-
CRUDE OIL OUTRIGHTS	WCC	1,650	2,379	-30.6%	1,845	-10.6%	53,369	63,522	-16.0%
CRUDE OIL PHY	CLL	0	0	0.0%	0	0.0%	0	0	0.0%
CRUDE OIL SPRDS	38	0	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	2,110	1,151	83.3%	6,005	-64.9%	45,727	7,543	506.2%
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	1,230	1,780	-30.9%	5,525	-77.7%	21,815	34,625	-37.0%
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	-



## NYMEX/COMEX Exchange Volume Report - Monthly

Commodity		VOLUME DEC 2016	VOLUME DEC 2015	% CHG	VOLUME NOV 2016	% CHG	VOLUME Y.T.D 2016	VOLUME Y.T.D 2015	% CHG
<b>Energy Futures</b>									
DIESEL 10P BRG FOB RDM VS	7X	100	0	0.0%	0	0.0%	225	10	2,150.0%
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	0	0	0.0%	31	-100.0%	20,026	2,561	682.0%
DOMINION TRANSMISSION INC	PG	6,397	15,703	-59.3%	12,618	-49.3%	230,295	88,076	161.5%
DUBAI CRUDE OIL BALMO	BI	0	0	0.0%	0	0.0%	275	100	175.0%
DUBAI CRUDE OIL CALENDAR	DC	6,630	3,202	107.1%	5,148	28.8%	30,297	47,226	-35.8%
DY EURO 3.5% FUEL OI RDA	FOR	0	0	0.0%	0	0.0%	0	840	-100.0%
EASTERN RAIL DELIVERY CSX	QX	800	910	-12.1%	1,425	-43.9%	14,967	40,406	-63.0%
EAST/WEST FUEL OIL SPREAD	EW	30	5	500.0%	47	-36.2%	398	2,349	-83.1%
EIA FLAT TAX ONHWAY DIESE	A5	921	1,193	-22.8%	134	587.3%	11,593	9,440	22.8%
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	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	0	0.0%	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	215	0	0.0%	0	0.0%	215	1,530	-85.9%
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	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	-	0	0.0%	1,840	0	-
ELEC WEST POWER PEAK	MDC	0	0	-	0	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	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	4,704	-100.0%	0	0.0%	4,280	28,797	-85.1%
ERCOT NORTH ZMCPE 5MW PEAK	I5	0	255	-100.0%	0	0.0%	235	3,051	-92.3%

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.

## NYMEX/COMEX Exchange Volume Report - Monthly

Commodity		VOLUME DEC 2016	VOLUME DEC 2015	% CHG	VOLUME NOV 2016	% CHG	VOLUME Y.T.D 2016	VOLUME Y.T.D 2015	% CHG
<b>Energy Futures</b>									
ETHANOL T2 FOB ROTT INCL DUTY SWAP	Z1	5,558	690	705.5%	5,504	1.0%	33,306	29,375	13.4%
EU LOW SULPHUR GASOIL CRACK	LSC	0	0	0.0%	0	0.0%	0	0	0.0%
EURO 1% FUEL OIL NEW BALM	KX	6	0	0.0%	10	-40.0%	241	131	84.0%
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	1,059	222	377.0%	395	168.1%	4,754	6,365	-25.3%
EURO 3.5% FUEL OIL SPREAD	FK	735	885	-16.9%	2,859	-74.3%	9,548	10,806	-11.6%
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	756	10	7,460.0%	198	281.8%	1,112	2,687	-58.6%
EURO GASOIL 10 CAL SWAP	GT	0	3	-100.0%	0	0.0%	3	14	-78.6%
EURO GASOIL 10PPM VS ICE	ET	102	104	-1.9%	15	580.0%	796	1,064	-25.2%
EUROPE 1% FUEL OIL NWE CA	UF	80	145	-44.8%	13	515.4%	1,550	1,920	-19.3%
EUROPE 1% FUEL OIL RDAM C	UH	8	0	0.0%	0	0.0%	142	166	-14.5%
EUROPE 3.5% FUEL OIL MED	UI	489	309	58.3%	530	-7.7%	4,552	1,410	222.8%
EUROPE 3.5% FUEL OIL RDAM	UV	12,415	4,544	173.2%	10,529	17.9%	91,573	98,474	-7.0%
EUROPEAN GASOIL (ICE)	7F	11,179	347,546	-96.8%	11,141	0.3%	1,574,187	770,779	104.2%
EUROPEAN NAPHTHA BALMO	KZ	287	53	441.5%	273	5.1%	2,257	986	128.9%
EUROPEAN NAPHTHA CRACK SPR	EN	6,547	3,124	109.6%	10,537	-37.9%	69,363	77,928	-11.0%
EUROPE DATED BRENT SWAP	UB	0	0	0.0%	50	-100.0%	26,638	39,030	-31.7%
EUROPE JET KERO NWE CALSW	UJ	0	5	-100.0%	0	0.0%	38	499	-92.4%
EUROPE NAPHTHA CALSWAP	UN	1,816	957	89.8%	2,267	-19.9%	18,916	14,968	26.4%
EURO PROPANE CIF ARA SWA	PS	1,124	709	58.5%	1,685	-33.3%	15,813	4,938	220.2%
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	268	28	857.1%	304	-11.8%	2,557	764	234.7%
FREIGHT MARKETS	FRC	0	0	0.0%	0	-	0	0	0.0%
FUEL OIL CRACK VS ICE	FO	2,704	2,616	3.4%	4,666	-42.0%	51,192	44,483	15.1%
FUEL OIL NWE CRACK VS ICE	FI	0	0	0.0%	0	0.0%	32	306	-89.5%
FUEL OIL (PLATS) CAR CM	1W	150	0	0.0%	8	1,775.0%	1,279	264	384.5%
FUEL OIL (PLATS) CAR CN	1X	0	0	0.0%	0	0.0%	54	206	-73.8%
FUELOIL SWAP:CARGOES VS.B	FS	190	198	-4.0%	625	-69.6%	4,029	4,656	-13.5%
GAS EURO-BOB OXY NWE BARGES	7H	5,234	6,292	-16.8%	8,423	-37.9%	82,333	80,515	2.3%
GAS EURO-BOB OXY NWE BARGES CRK	7K	18,496	24,371	-24.1%	17,515	5.6%	176,701	205,698	-14.1%
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%

## NYMEX/COMEX Exchange Volume Report - Monthly

Commodity		VOLUME DEC 2016	VOLUME DEC 2015	% CHG	VOLUME NOV 2016	% CHG	VOLUME Y.T.D 2016	VOLUME Y.T.D 2015	% CHG
<b>Energy Futures</b>									
GASOIL 0.1 CIF MED SWAP	Z4	0	0	0.0%	20	-100.0%	95	50	90.0%
GASOIL 0.1CIF MED VS ICE	Z5	0	75	-100.0%	5	-100.0%	195	246	-20.7%
GASOIL 0.1 CIF NWE VS ISE	TU	0	0	0.0%	15	-100.0%	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	12	-100.0%	0	0.0%	120	180	-33.3%
GASOIL 0.1 ROTTERDAM BARG	VL	0	0	0.0%	0	0.0%	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	3	-100.0%	0	0.0%	3	33	-90.9%
GASOIL 10PPM VS ICE SWAP	TP	44	35	25.7%	9	388.9%	948	1,460	-35.1%
GASOIL BULLET SWAP	BG	0	0	0.0%	0	-	0	0	0.0%
GASOIL CALENDAR SWAP	GX	23	29	-20.7%	15	53.3%	352	263	33.8%
GASOIL CRACK SPREAD CALEN	GZ	8,784	1,073	718.6%	6,089	44.3%	64,857	38,850	66.9%
GASOIL MINI CALENDAR SWAP	QA	144	105	37.1%	226	-36.3%	2,779	3,321	-16.3%
GASOLINE UP-DOWN (ARGUS)	UZ	0	0	0.0%	0	-	0	0	0.0%
GASOLINE UP-DOWN BALMO SW	1K	0	250	-100.0%	0	0.0%	810	6,145	-86.8%
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	2,237	3,966	-43.6%	2,365	-5.4%	32,645	46,007	-29.0%
GRP THREE UNL GS (PLT) VS	A8	395	1,920	-79.4%	530	-25.5%	16,815	18,787	-10.5%
GULF COAST 3% FUEL OIL BA	VZ	985	493	99.8%	1,784	-44.8%	9,656	12,429	-22.3%
GULF COAST GASOLINE CLNDR	GS	0	1,200	-100.0%	0	0.0%	1,300	7,265	-82.1%
GULF COAST JET FUEL CLNDR	GE	120	0	0.0%	126	-4.8%	1,923	3,668	-47.6%
GULF COAST JET VS NYM 2 H	ME	35,357	35,021	1.0%	25,749	37.3%	388,487	269,633	44.1%
GULF COAST NO.6 FUEL OIL	MF	51,184	62,652	-18.3%	55,765	-8.2%	681,964	811,531	-16.0%
GULF COAST NO.6 FUEL OIL	MG	6,166	700	780.9%	2,782	121.6%	15,814	17,530	-9.8%
GULF COAST ULSD CALENDAR	LY	1,345	1,029	30.7%	299	349.8%	10,572	8,713	21.3%
GULF COAST ULSD CRACK SPR	GY	100	585	-82.9%	0	0.0%	6,981	3,960	76.3%
HEATING OIL BALMO CLNDR S	1G	0	60	-100.0%	19	-100.0%	479	1,814	-73.6%
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	2,005	7,580	-73.5%	9,813	-79.6%	200,555	147,869	35.6%
HENRY HUB INDEX SWAP FUTU	IN	2,418	7,580	-68.1%	8,806	-72.5%	181,858	111,082	63.7%
HENRY HUB SWAP	NN	358,426	436,032	-17.8%	407,413	-12.0%	5,002,282	5,330,807	-6.2%
HENRY HUB SWING FUTURE	SN	0	0	0.0%	0	0.0%	290	1,200	-75.8%

## NYMEX/COMEX Exchange Volume Report - Monthly

Commodity		VOLUME DEC 2016	VOLUME DEC 2015	% CHG	VOLUME NOV 2016	% CHG	VOLUME Y.T.D 2016	VOLUME Y.T.D 2015	% CHG
<b>Energy Futures</b>									
HOUSTON SHIP CHANNEL BASI	NH	1,448	4,267	-66.1%	0	0.0%	31,848	48,495	-34.3%
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	11,082	2,830	291.6%	6,573	68.6%	33,163	12,540	164.5%
ICE GASOIL BALMO SWAP	U9	0	0	0.0%	0	-	0	0	0.0%
IN DELIVERY MONTH EUA	6T	1,250	4,350	-71.3%	4,490	-72.2%	37,241	104,603	-64.4%
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	60	-100.0%	0	0.0%	220	1,805	-87.8%
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	573	97	490.7%	153	274.5%	4,944	3,237	52.7%
JAPAN C&F NAPHTHA SWAP	JA	1,715	714	140.2%	1,472	16.5%	15,520	11,776	31.8%
JAPAN NAPHTHA BALMO SWAP	E6	81	24	237.5%	30	170.0%	486	505	-3.8%
JET AV FUEL (P) CAR FM ICE GAS SWAP	1V	0	41	-100.0%	0	0.0%	172	279	-38.4%
JET BARGES VS ICE GASOIL	JR	0	0	0.0%	0	0.0%	22	15	46.7%
JET CIF NWE VS ICE	JC	100	161	-37.9%	0	0.0%	890	1,275	-30.2%
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	8,020	3,773	112.6%	6,650	20.6%	57,075	38,460	48.4%
LA CARB DIESEL (OPIS)	LX	0	0	0.0%	0	0.0%	52	234	-77.8%
LA CARB DIESEL (OPIS) SWA	KL	627	625	0.3%	100	527.0%	7,904	7,666	3.1%
LA CARBOB GASOLINE(OPIS)S	JL	0	525	-100.0%	0	0.0%	5,950	5,950	0.0%
LA JET FUEL VS NYM NO 2 H	MQ	30	50	-40.0%	0	0.0%	840	540	55.6%
LA JET (OPIS) SWAP	JS	900	585	53.8%	900	0.0%	22,112	10,820	104.4%
LLS (ARGUS) CALENDAR SWAP	XA	0	0	0.0%	0	0.0%	0	0	0.0%
LLS (ARGUS) VS WTI SWAP	WJ	4,280	3,916	9.3%	2,872	49.0%	71,223	110,156	-35.3%
MARS (ARGUS) VS WTI SWAP	YX	6,325	5,217	21.2%	6,939	-8.8%	54,086	74,060	-27.0%
MARS (ARGUS) VS WTI TRD M	YV	14,380	410	3,407.3%	7,851	83.2%	140,278	17,008	724.8%





## NYMEX/COMEX Exchange Volume Report - Monthly

Commodity		VOLUME DEC 2016	VOLUME DEC 2015	% CHG	VOLUME NOV 2016	% CHG	VOLUME Y.T.D 2016	VOLUME Y.T.D 2015	% CHG
<b>Energy Futures</b>									
MARS BLEND CRUDE OIL	MB	939	0	-	2,832	-66.8%	19,795	0	-
MCCLOSKEY ARA ARGS COAL	MTF	49,614	134,817	-63.2%	104,385	-52.5%	1,793,838	2,131,742	-15.9%
MCCLOSKEY RCH BAY COAL	MFF	8,906	20,270	-56.1%	12,728	-30.0%	191,566	283,926	-32.5%
MGF FUT	MGF	0	0	0.0%	0	0.0%	100	86	16.3%
MGN1 SWAP FUT	MGN	140	215	-34.9%	122	14.8%	1,689	1,903	-11.2%
MICHCON NG INDEX SWAP	Y8	0	0	-	0	0.0%	2,200	0	-
MICHIGAN BASIS	NF	973	0	0.0%	1,610	-39.6%	27,346	6,554	317.2%
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	690	245	181.6%	503	37.2%	5,429	3,490	55.6%
MINI RBOB V. EBOBARG NWE BRGS BALMO	MXR	50	50	0.0%	1,405	-96.4%	3,891	4,803	-19.0%
MINI RBOB V. EBOB(ARGUS) NWE BRGS	MXB	4,504	954	372.1%	2,988	50.7%	21,690	8,766	147.4%
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	0	120	-100.0%	20	-100.0%	895	780	14.7%
MNC FUT	MNC	4,025	3,950	1.9%	4,970	-19.0%	47,818	50,904	-6.1%
MONT BELVIEU ETHANE 5 DECIMAL	C0	51,587	18,278	182.2%	50,880	1.4%	590,762	92,745	537.0%
MONT BELVIEU ETHANE OPIS BALMO	8C	375	90	316.7%	75	400.0%	1,920	2,765	-30.6%
MONT BELVIEU LDH PROPANE 5 DECIMAL	B0	85,879	83,710	2.6%	101,228	-15.2%	1,345,538	616,592	118.2%
MONT BELVIEU LDH PROPANE OPIS BALMO	8O	2,283	516	342.4%	603	278.6%	12,068	7,879	53.2%
MONT BELVIEU NATURAL GASOLINE 5 DEC	7Q	4,670	4,453	4.9%	6,686	-30.2%	91,566	64,931	41.0%
MONT BELVIEU NATURAL GASOLINE BALMO	R0	200	110	81.8%	20	900.0%	1,981	4,160	-52.4%
MONT BELVIEU NORMAL BUTANE 5 DECIMAL	D0	38,249	18,370	108.2%	35,273	8.4%	345,287	209,582	64.8%
MONT BELVIEU NORMAL BUTANE BALMO	8J	736	293	151.2%	357	106.2%	7,211	5,424	32.9%
NAT GAS BASIS SWAP	SGW	0	0	0.0%	0	0.0%	0	40	-100.0%
NAT GAS BASIS SWAP	TZ6	856	0	0.0%	1,898	-54.9%	38,064	5,234	627.2%
NATURAL GAS	HBI	0	0	-	0	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%

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.





## NYMEX/COMEX Exchange Volume Report - Monthly

Commodity		VOLUME DEC 2016	VOLUME DEC 2015	% CHG	VOLUME NOV 2016	% CHG	VOLUME Y.T.D 2016	VOLUME Y.T.D 2015	% CHG
<b>Energy Futures</b>									
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	101,696	205,840	-50.6%	145,941	-30.3%	1,330,312	2,200,047	-39.5%
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	7,440	0	0.0%	28,690	-74.1%	519,369	319,140	62.7%
NEPOOL INTR HUB 5MW D AH	U6	1,275	830	53.6%	255	400.0%	45,635	20,388	123.8%
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	120	-100.0%	0	0.0%	0	11,069	-100.0%
NEPOOL RHODE IL 5MW D AH	U5	0	0	0.0%	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	0	0.0%	0	0.0%	4,000	44,368	-91.0%
NEPOOL W CNTR M 5MW D AH	R6	0	0	0.0%	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	870	855	1.8%	2,140	-59.3%	17,875	12,070	48.1%
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	0	6,824	-100.0%	372	-100.0%	30,002	50,587	-40.7%
NGPL MIDCONTINENT INDEX	IW	0	0	0.0%	0	0.0%	7,841	300	2,513.7%
NGPL MIDCONTINENT SWING S	PX	0	0	-	0	0.0%	620	0	-
NGPL TEX/OK	PD	1,880	3,786	-50.3%	3,028	-37.9%	33,872	84,276	-59.8%
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	750	150	400.0%	100	650.0%	3,412	4,034	-15.4%
NORTHEN NATURAL GAS DEMAR	PE	124	320	-61.3%	54	129.6%	4,113	5,913	-30.4%
NORTHEN NATURAL GAS VENTU	PF	0	760	-100.0%	481	-100.0%	9,216	5,722	61.1%

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.



## NYMEX/COMEX Exchange Volume Report - Monthly

Commodity		VOLUME DEC 2016	VOLUME DEC 2015	% CHG	VOLUME NOV 2016	% CHG	VOLUME Y.T.D 2016	VOLUME Y.T.D 2015	% CHG
<b>Energy Futures</b>									
NORTHERN ILLINOIS OFF-PEA	UO	0	0	0.0%	0	0.0%	0	102	-100.0%
NORTHWEST ROCKIES BASIS S	NR	1,596	26,081	-93.9%	23,699	-93.3%	182,708	135,936	34.4%
N ROCKIES PIPE SWAP	XR	0	0	0.0%	0	0.0%	0	991	-100.0%
NY1% VS GC SPREAD SWAP	VR	3,696	2,230	65.7%	2,590	42.7%	29,944	27,649	8.3%
NY 2.2% FUEL OIL (PLATTS	Y3	0	340	-100.0%	0	0.0%	489	980	-50.1%
NY 3.0% FUEL OIL (PLATTS	H1	150	1,050	-85.7%	175	-14.3%	2,450	5,245	-53.3%
NY HARBOR 1% FUEL OIL BAL	VK	50	0	0.0%	0	0.0%	151	531	-71.6%
NY HARBOR HEAT OIL SWP	MP	5,024	4,064	23.6%	1,602	213.6%	29,320	53,763	-45.5%
NY HARBOR LOW SULPUR GAS 1000MBBL	NLS	1,555	0	0.0%	0	0.0%	6,586	4,042	62.9%
NY HARBOR LOW SULPUR GASOIL 1000MT	SLS	0	0	0.0%	0	-	0	0	0.0%
NY HARBOR RESIDUAL FUEL 1	MM	1,590	6,908	-77.0%	2,036	-21.9%	39,080	62,080	-37.0%
NY HARBOR RESIDUAL FUEL C	ML	0	0	0.0%	0	0.0%	0	100	-100.0%
NYH NO 2 CRACK SPREAD CAL	HK	890	6,058	-85.3%	1,670	-46.7%	22,662	31,218	-27.4%
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	12	0	-	138	-91.3%	318	0	-
NYISO CAPACITY	NNC	72	364	-80.2%	132	-45.5%	1,977	3,723	-46.9%
NYISO CAPACITY	NRS	150	336	-55.4%	150	0.0%	2,473	5,170	-52.2%
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	22	-100.0%	0	0.0%	172	3,242	-94.7%
NYISO J OFF-PEAK	KK	0	10	-100.0%	0	0.0%	80	590	-86.4%
NYISO ZONE A 5MW D AH O P	K4	18,720	14,040	33.3%	0	0.0%	258,085	433,136	-40.4%
NYISO ZONE A 5MW D AH PK	K3	0	2,035	-100.0%	2,960	-100.0%	6,560	19,321	-66.0%
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	0	12,080	-100.0%	38,600	-100.0%	444,481	256,288	73.4%
NYISO ZONE G 5MW D AH PK	T3	5,620	2,705	107.8%	1,280	339.1%	40,288	35,469	13.6%
NYISO ZONE J 5MW D AH O P	D4	0	7,840	-100.0%	38,600	-100.0%	195,471	63,874	206.0%
NYISO ZONE J 5MW D AH PK	D3	0	410	-100.0%	860	-100.0%	14,431	9,481	52.2%
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	0	0.0%	0	0.0%	0	1,188	-100.0%
NY ULSD (ARGUS) VS HEATING OIL	7Y	1,762	2,117	-16.8%	394	347.2%	9,621	33,130	-71.0%

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.



## NYMEX/COMEX Exchange Volume Report - Monthly

Commodity		VOLUME DEC 2016	VOLUME DEC 2015	% CHG	VOLUME NOV 2016	% CHG	VOLUME Y.T.D 2016	VOLUME Y.T.D 2015	% CHG
<b>Energy Futures</b>									
ONEOK OKLAHOMA NG BASIS	8X	0	730	-100.0%	346	-100.0%	1,411	2,991	-52.8%
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	159,856	-97.7%
ONTARIO POWER SWAPS	OPD	0	40	-100.0%	20	-100.0%	490	355	38.0%
ONTARIO POWER SWAPS	OPM	105	0	0.0%	0	0.0%	545	8,990	-93.9%
PANHANDLE BASIS SWAP FUTU	PH	1,824	7,646	-76.1%	9,056	-79.9%	97,142	131,807	-26.3%
PANHANDLE INDEX SWAP FUTU	IV	0	124	-100.0%	0	0.0%	3,472	2,638	31.6%
PANHANDLE PIPE SWAP	XH	0	0	0.0%	0	0.0%	0	314	-100.0%
PERMIAN BASIS SWAP	PM	856	14,844	-94.2%	16,424	-94.8%	62,078	36,870	68.4%
PETROCHEMICALS	22	38	68	-44.1%	89	-57.3%	592	401	47.6%
PETROCHEMICALS	32	151	120	25.8%	65	132.3%	817	615	32.8%
PETROCHEMICALS	51	0	0	0.0%	0	-	0	0	0.0%
PETROCHEMICALS	81	0	0	0.0%	0	-	0	0	0.0%
PETROCHEMICALS	8I	435	10	4,250.0%	300	45.0%	3,257	5,223	-37.6%
PETROCHEMICALS	91	182	78	133.3%	143	27.3%	2,007	356	463.8%
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	10	50	-80.0%	0	0.0%	455	290	56.9%
PETROCHEMICALS	MAS	20	10	100.0%	0	0.0%	1,010	355	184.5%
PETROCHEMICALS	MBE	1,685	2,575	-34.6%	1,380	22.1%	32,365	22,730	42.4%
PETROCHEMICALS	MNB	632	977	-35.3%	1,697	-62.8%	21,979	15,956	37.7%
PETRO CRCKS & SPRDS ASIA	STI	0	450	-100.0%	0	0.0%	1,050	1,062	-1.1%
PETRO CRCKS & SPRDS ASIA	STR	0	0	0.0%	0	0.0%	64	760	-91.6%
PETRO CRCKS & SPRDS ASIA	STS	0	0	0.0%	150	-100.0%	230	318	-27.7%
PETRO CRCKS & SPRDS NA	CBA	0	0	0.0%	0	-	0	0	0.0%
PETRO CRCKS & SPRDS NA	CRB	300	1,200	-75.0%	20	1,400.0%	1,509	3,843	-60.7%
PETRO CRCKS & SPRDS NA	EXR	2,371	1,021	132.2%	3,440	-31.1%	20,434	13,510	51.3%
PETRO CRCKS & SPRDS NA	FOC	790	2,735	-71.1%	1,150	-31.3%	11,945	8,150	46.6%
PETRO CRCKS & SPRDS NA	GBB	2,120	0	0.0%	250	748.0%	4,760	50	9,420.0%
PETRO CRCKS & SPRDS NA	GCC	475	700	-32.1%	475	0.0%	2,975	700	325.0%
PETRO CRCKS & SPRDS NA	GCI	1,817	300	505.7%	1,919	-5.3%	15,304	11,990	27.6%
PETRO CRCKS & SPRDS NA	GCM	322	0	-	0	0.0%	388	0	-
PETRO CRCKS & SPRDS NA	GCU	6,946	9,963	-30.3%	8,730	-20.4%	88,311	134,083	-34.1%
PETRO CRCKS & SPRDS NA	GFC	0	0	0.0%	250	-100.0%	379	100	279.0%
PETRO CRCKS & SPRDS NA	HOB	2,695	1,434	87.9%	455	492.3%	38,059	38,784	-1.9%

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.

## NYMEX/COMEX Exchange Volume Report - Monthly

Commodity		VOLUME DEC 2016	VOLUME DEC 2015	% CHG	VOLUME NOV 2016	% CHG	VOLUME Y.T.D 2016	VOLUME Y.T.D 2015	% CHG
<b>Energy Futures</b>									
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%	0	0.0%	1,008	200	404.0%
PETRO CRCKS & SPRDS NA	NYF	0	0	0.0%	0	0.0%	490	2,300	-78.7%
PETRO CRCKS & SPRDS NA	NYH	0	0	0.0%	0	0.0%	450	0	0.0%
PETRO CRCKS & SPRDS NA	RBB	13,289	9,916	34.0%	13,296	-0.1%	128,539	125,379	2.5%
PETRO CRCKS & SPRDS NA	RVG	11,320	3,291	244.0%	15,510	-27.0%	109,698	6,306	1,639.6%
PETRO CRCKS & SPRDS NA	SF3	0	0	-	30	-100.0%	64	0	-
PETRO CRK&SPRD EURO	1NB	1,758	2,659	-33.9%	1,293	36.0%	19,445	20,131	-3.4%
PETRO CRK&SPRD EURO	1ND	0	0	0.0%	0	0.0%	0	50	-100.0%
PETRO CRK&SPRD EURO	43	222	30	640.0%	7	3,071.4%	2,378	3,738	-36.4%
PETRO CRK&SPRD EURO	BFR	0	0	0.0%	0	0.0%	0	170	-100.0%
PETRO CRK&SPRD EURO	BOB	2,412	1,483	62.6%	5,655	-57.3%	29,875	20,213	47.8%
PETRO CRK&SPRD EURO	EBF	0	0	0.0%	0	-	0	0	0.0%
PETRO CRK&SPRD EURO	EOB	0	73	-100.0%	0	0.0%	97	456	-78.7%
PETRO CRK&SPRD EURO	EPN	271	55	392.7%	435	-37.7%	3,179	580	448.1%
PETRO CRK&SPRD EURO	EVC	3,571	689	418.3%	4,370	-18.3%	24,696	16,421	50.4%
PETRO CRK&SPRD EURO	FBT	0	210	-100.0%	0	0.0%	480	870	-44.8%
PETRO CRK&SPRD EURO	FVB	0	0	0.0%	0	0.0%	0	31	-100.0%
PETRO CRK&SPRD EURO	GCB	0	0	0.0%	0	0.0%	1,130	1,158	-2.4%
PETRO CRK&SPRD EURO	GOC	10	0	0.0%	30	-66.7%	139	674	-79.4%
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%	0	0.0%	40	434	-90.8%
PETRO CRK&SPRD EURO	MUD	70	155	-54.8%	32	118.8%	1,301	957	35.9%
PETRO CRK&SPRD EURO	NBB	23	0	0.0%	0	0.0%	221	56	294.6%
PETRO CRK&SPRD EURO	NOB	918	300	206.0%	1,078	-14.8%	6,826	2,396	184.9%
PETRO CRK&SPRD EURO	NYG	0	0	0.0%	0	-	0	0	0.0%
PETRO CRK&SPRD EURO	SFB	0	0	0.0%	0	0.0%	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	-

## NYMEX/COMEX Exchange Volume Report - Monthly

Commodity		VOLUME DEC 2016	VOLUME DEC 2015	% CHG	VOLUME NOV 2016	% CHG	VOLUME Y.T.D 2016	VOLUME Y.T.D 2015	% CHG
<b>Energy Futures</b>									
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	15	0	0.0%	0	0.0%	15	25	-40.0%
PETROLEUM PRODUCTS	EWG	3,349	0	0.0%	6,693	-50.0%	22,001	18	122,127.8%
PETROLEUM PRODUCTS	MBS	0	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	336	172	95.3%	129	160.5%	4,063	1,316	208.7%
PETROLEUM PRODUCTS ASIA	E6M	35	50	-30.0%	0	0.0%	502	862	-41.8%
PETROLEUM PRODUCTS ASIA	MJN	1,470	1,740	-15.5%	1,733	-15.2%	16,148	19,125	-15.6%
PETRO OUTRIGHT EURO	0A	0	0	0.0%	0	0.0%	0	90	-100.0%
PETRO OUTRIGHT EURO	0B	185	40	362.5%	50	270.0%	1,605	1,074	49.4%
PETRO OUTRIGHT EURO	0C	95	0	0.0%	20	375.0%	316	213	48.4%
PETRO OUTRIGHT EURO	0D	3,618	4,468	-19.0%	4,713	-23.2%	48,318	52,314	-7.6%
PETRO OUTRIGHT EURO	0E	872	1,106	-21.2%	1,446	-39.7%	11,781	6,094	93.3%
PETRO OUTRIGHT EURO	0F	1,049	1,214	-13.6%	1,335	-21.4%	15,080	11,368	32.7%
PETRO OUTRIGHT EURO	1T	0	5	-100.0%	0	0.0%	20	90	-77.8%
PETRO OUTRIGHT EURO	33	6	0	0.0%	12	-50.0%	357	618	-42.2%
PETRO OUTRIGHT EURO	59	0	0	0.0%	0	-	0	0	0.0%
PETRO OUTRIGHT EURO	5L	238	170	40.0%	307	-22.5%	2,397	1,345	78.2%
PETRO OUTRIGHT EURO	63	235	188	25.0%	160	46.9%	1,840	1,245	47.8%
PETRO OUTRIGHT EURO	6L	0	0	0.0%	0	0.0%	0	16	-100.0%
PETRO OUTRIGHT EURO	7I	539	189	185.2%	0	0.0%	2,052	2,181	-5.9%
PETRO OUTRIGHT EURO	7P	0	0	0.0%	0	0.0%	0	40	-100.0%
PETRO OUTRIGHT EURO	7R	352	269	30.9%	539	-34.7%	3,632	3,148	15.4%
PETRO OUTRIGHT EURO	88	5	10	-50.0%	0	0.0%	60	305	-80.3%
PETRO OUTRIGHT EURO	CBB	0	0	0.0%	30	-100.0%	30	0	0.0%
PETRO OUTRIGHT EURO	CGB	0	0	0.0%	0	0.0%	6	30	-80.0%
PETRO OUTRIGHT EURO	CPB	60	0	0.0%	423	-85.8%	1,482	506	192.9%
PETRO OUTRIGHT EURO	EFF	63	0	0.0%	33	90.9%	597	169	253.3%
PETRO OUTRIGHT EURO	EFM	150	0	0.0%	8	1,775.0%	823	455	80.9%
PETRO OUTRIGHT EURO	ENS	0	50	-100.0%	10	-100.0%	1,171	703	66.6%
PETRO OUTRIGHT EURO	EWN	251	10	2,410.0%	349	-28.1%	2,321	1,038	123.6%



## NYMEX/COMEX Exchange Volume Report - Monthly

Commodity		VOLUME DEC 2016	VOLUME DEC 2015	% CHG	VOLUME NOV 2016	% CHG	VOLUME Y.T.D 2016	VOLUME Y.T.D 2015	% CHG
<b>Energy Futures</b>									
PETRO OUTRIGHT EURO	FBD	0	0	0.0%	20	-100.0%	40	121	-66.9%
PETRO OUTRIGHT EURO	MBB	0	0	0.0%	0	0.0%	84	245	-65.7%
PETRO OUTRIGHT EURO	MBN	390	1,410	-72.3%	901	-56.7%	16,658	13,609	22.4%
PETRO OUTRIGHT EURO	RBF	0	0	0.0%	0	-	0	0	0.0%
PETRO OUTRIGHT EURO	SMU	0	0	0.0%	0	0.0%	340	600	-43.3%
PETRO OUTRIGHT EURO	T0	0	86	-100.0%	0	0.0%	1,328	1,997	-33.5%
PETRO OUTRIGHT EURO	ULB	0	0	0.0%	0	0.0%	490	1,550	-68.4%
PETRO OUTRIGHT EURO	V0	150	82	82.9%	135	11.1%	390	2,876	-86.4%
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	510	108	372.2%	64	696.9%	3,172	3,082	2.9%
PETRO OUTRIGHT NA	FOB	0	0	0.0%	0	0.0%	0	10	-100.0%
PETRO OUTRIGHT NA	FOM	0	0	0.0%	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	110	-100.0%	0	0.0%	439	565	-22.3%
PETRO OUTRIGHT NA	JET	7,951	2,660	198.9%	10,203	-22.1%	63,859	16,905	277.8%
PETRO OUTRIGHT NA	MBL	0	0	0.0%	91	-100.0%	325	746	-56.4%
PETRO OUTRIGHT NA	MEN	648	870	-25.5%	669	-3.1%	7,596	7,763	-2.2%
PETRO OUTRIGHT NA	MEO	7,740	9,741	-20.5%	9,904	-21.8%	120,511	100,465	20.0%
PETRO OUTRIGHT NA	MFD	35	72	-51.4%	33	6.1%	1,126	907	24.1%
PETRO OUTRIGHT NA	MMF	120	170	-29.4%	290	-58.6%	1,996	1,939	2.9%
PETRO OUTRIGHT NA	NYB	0	0	0.0%	0	-	0	0	0.0%
PETRO OUTRIGHT NA	NYT	0	0	0.0%	125	-100.0%	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	261,104	127,755	104.4%	22,800	1,045.2%	1,531,162	1,661,753	-7.9%
PJM AD HUB 5MW REAL TIME	Z9	1,705	7,425	-77.0%	4,240	-59.8%	106,259	111,974	-5.1%
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%	27,690	-100.0%	33,695	23,400	44.0%

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.



## NYMEX/COMEX Exchange Volume Report - Monthly

Commodity		VOLUME DEC 2016	VOLUME DEC 2015	% CHG	VOLUME NOV 2016	% CHG	VOLUME Y.T.D 2016	VOLUME Y.T.D 2015	% CHG
<b>Energy Futures</b>									
PJM ATSI ELEC	MPD	0	0	0.0%	1,480	-100.0%	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	2,120	-100.0%	0	0.0%	257,480	86,445	197.9%
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	0	70,120	-100.0%	27,690	-100.0%	55,000	238,308	-76.9%
PJM DAYTON DA PEAK	D7	0	3,845	-100.0%	1,480	-100.0%	23,423	16,495	42.0%
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	19,335	6,375	203.3%	5,285	265.8%	94,649	69,427	36.3%
PJM NI HUB 5MW REAL TIME	B6	718,970	103,267	596.2%	262,195	174.2%	2,631,867	1,879,247	40.0%
PJM NILL DA OFF-PEAK	L3	112,060	24,063	365.7%	190,515	-41.2%	1,186,752	506,843	134.1%
PJM NILL DA PEAK	N3	1,128	1,211	-6.9%	3,825	-70.5%	48,608	23,715	105.0%
PJM OFF-PEAK LMP SWAP FUT	JP	0	0	0.0%	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	304,100	58,720	417.9%	0	0.0%	1,129,110	807,716	39.8%
PJM WESTHDA PEAK	J4	16,660	2,540	555.9%	0	0.0%	62,333	42,139	47.9%
PJM WESTH RT OFF-PEAK	N9	553,310	458,697	20.6%	93,200	493.7%	6,738,450	3,630,757	85.6%
PJM WESTH RT PEAK	L1	40,975	33,852	21.0%	35,499	15.4%	657,190	251,063	161.8%
PLASTICS	PGP	250	40	525.0%	1,520	-83.6%	5,129	10,575	-51.5%
PLASTICS	PPP	0	0	0.0%	0	-	0	0	0.0%
PREMIUM UNLD 10P FOB MED	3G	98	267	-63.3%	164	-40.2%	2,889	3,391	-14.8%
PREMIUM UNLD 10PPM CARGOE	4G	0	0	0.0%	0	-	0	0	0.0%

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.





## NYMEX/COMEX Exchange Volume Report - Monthly

Commodity		VOLUME DEC 2016	VOLUME DEC 2015	% CHG	VOLUME NOV 2016	% CHG	VOLUME Y.T.D 2016	VOLUME Y.T.D 2015	% CHG
<b>Energy Futures</b>									
PREMIUM UNLEAD 10PPM FOB	8G	23	0	0.0%	5	360.0%	382	698	-45.3%
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	45	-100.0%	0	0.0%	274	340	-19.4%
PROPANE NON-LDH MB (OPIS) BALMO SWP	1S	150	0	0.0%	112	33.9%	5,997	2,513	138.6%
PROPANE NON-LDH MT. BEL (OPIS) SWP	1R	12,004	4,660	157.6%	17,903	-32.9%	138,706	90,810	52.7%
RBOB CALENDAR SWAP	RL	7,423	11,085	-33.0%	6,207	19.6%	80,700	85,040	-5.1%
RBOB CRACK SPREAD	RM	3,479	1,616	115.3%	550	532.5%	18,804	12,795	47.0%
RBOB CRACK SPREAD BALMO S	1E	60	0	0.0%	0	0.0%	410	30	1,266.7%
RBOB GASOLINE BALMO CLNDR	1D	2,583	1,367	89.0%	1,501	72.1%	11,080	13,121	-15.6%
RBOB PHY	RBL	0	0	0.0%	0	0.0%	0	0	0.0%
RBOB (PLATTS) CAL SWAP	RY	0	0	-	297	-100.0%	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	9,252	-100.0%	0	0.0%	9,203	122,100	-92.5%
RBOB VS HEATING OIL SWAP	RH	4,375	2,190	99.8%	1,758	148.9%	21,905	12,265	78.6%
ROCKIES KERN OPAL - NW IN	IR	0	0	0.0%	0	0.0%	1,046	1,880	-44.4%
SAN JUAN BASIS SWAP	NJ	186	5,148	-96.4%	6,677	-97.2%	76,144	29,833	155.2%
SAN JUAN PIPE SWAP	XX	0	0	0.0%	0	0.0%	0	0	0.0%
SINGAPORE 180CST BALMO	BS	35	23	52.2%	24	45.8%	590	458	28.8%
SINGAPORE 380CST BALMO	BT	174	25	596.0%	402	-56.7%	1,933	1,271	52.1%
SINGAPORE 380CST FUEL OIL	SE	12,324	5,683	116.9%	13,863	-11.1%	101,072	63,496	59.2%
SINGAPORE FUEL 180CST CAL	UA	1,506	993	51.7%	1,319	14.2%	14,209	22,208	-36.0%
SINGAPORE FUEL OIL SPREAD	SD	399	286	39.5%	1,263	-68.4%	7,686	5,708	34.7%
SINGAPORE GASOIL	MTB	389	116	235.3%	585	-33.5%	3,116	1,460	113.4%
SINGAPORE GASOIL	MTS	3,710	2,597	42.9%	4,778	-22.4%	46,049	30,302	52.0%
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	250	-28.0%
SINGAPORE GASOIL CALENDAR	MSG	78	0	0.0%	0	0.0%	651	6,868	-90.5%
SINGAPORE GASOIL SWAP	SG	12,325	1,990	519.3%	10,497	17.4%	81,687	28,055	191.2%
SINGAPORE GASOIL VS ICE	GA	8,065	0	0.0%	13,686	-41.1%	44,904	6,000	648.4%
SINGAPORE JET KERO BALMO	BX	0	0	0.0%	0	0.0%	156	550	-71.6%
SINGAPORE JET KERO GASOIL	RK	4,720	20	23,500.0%	1,390	239.6%	14,485	3,640	297.9%
SINGAPORE JET KEROSENE SW	KS	771	880	-12.4%	1,077	-28.4%	8,346	16,364	-49.0%
SINGAPORE JET KERO VS. GASOIL BALMO	Z0	0	0	0.0%	0	0.0%	50	50	0.0%
SINGAPORE MOGAS 92 UNLEADED BALMO	1P	375	210	78.6%	1,761	-78.7%	5,953	3,618	64.5%
SINGAPORE MOGAS 92 UNLEADED SWP	1N	12,320	8,253	49.3%	25,558	-51.8%	120,268	80,419	49.6%

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.



## NYMEX/COMEX Exchange Volume Report - Monthly

Commodity		VOLUME DEC 2016	VOLUME DEC 2015	% CHG	VOLUME NOV 2016	% CHG	VOLUME Y.T.D 2016	VOLUME Y.T.D 2015	% CHG
<b>Energy Futures</b>									
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	5	0	0.0%	35	-85.7%	70	10	600.0%
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	186	0	0.0%	0	0.0%	554	14,718	-96.2%
SOUTHERN NAT LA NAT GAS	M8	0	0	0.0%	0	0.0%	612	4,280	-85.7%
SOUTH STAR TEX OKLHM KNS	8Z	0	0	0.0%	90	-100.0%	2,292	7,255	-68.4%
Sumas Basis Swap	NK	0	366	-100.0%	2,423	-100.0%	18,059	14,347	25.9%
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	668	3,575	-81.3%	604	10.6%	34,344	39,379	-12.8%
TCO NG INDEX SWAP	Q1	0	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	819	-100.0%	0	0.0%	1,285	3,192	-59.7%
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	428	-100.0%	0	0.0%	3,028	1,032	193.4%
Tetco ELA Basis	TE	0	0	0.0%	0	0.0%	0	1,360	-100.0%
TETCO M-3 INDEX	IX	2,568	4,280	-40.0%	0	0.0%	10,933	11,064	-1.2%
Tetco STX Basis	TX	0	0	0.0%	0	0.0%	1,611	4,669	-65.5%
TEXAS EASTERN ZONE M-3 BA	NX	1,053	4,308	-75.6%	3,126	-66.3%	84,221	25,107	235.4%
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%	0	0.0%	1,032	6,975	-85.2%
TRANSCO ZONE4 BASIS SWAP	TR	4,884	5,866	-16.7%	4,256	14.8%	28,622	75,885	-62.3%
TRANSCO ZONE 4 NAT GAS IN	B2	0	310	-100.0%	0	0.0%	1,457	1,240	17.5%
TRANSCO ZONE 6 BASIS SWAP	NZ	915	428	113.8%	1,863	-50.9%	14,883	10,666	39.5%
TRANSCO ZONE 6 INDEX	IT	0	0	0.0%	0	0.0%	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	10	0	0.0%	15	-33.3%	353	578	-38.9%
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%

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.

## NYMEX/COMEX Exchange Volume Report - Monthly

Commodity		VOLUME DEC 2016	VOLUME DEC 2015	% CHG	VOLUME NOV 2016	% CHG	VOLUME Y.T.D 2016	VOLUME Y.T.D 2015	% CHG
<b>Energy Futures</b>									
ULSD 10PPM CIF MED VS ICE	Z7	18	210	-91.4%	15	20.0%	198	1,119	-82.3%
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	9,575	8,073	18.6%	8,558	11.9%	75,583	45,366	66.6%
UP DOWN GC ULSD VS NMX HO	LT	36,467	51,071	-28.6%	53,661	-32.0%	619,919	499,641	24.1%
USGC UNL 87 CRACK SPREAD	RU	0	200	-100.0%	0	0.0%	175	3,550	-95.1%
VENTURA NAT GAS PLATTS FIXED PRICE	DVA	0	0	0.0%	0	0.0%	0	44	-100.0%
WAHA BASIS	NW	0	7,633	-100.0%	1,825	-100.0%	44,649	40,876	9.2%
WAHA INDEX SWAP FUTURE	IY	0	0	0.0%	0	0.0%	8,728	1,712	409.8%
WESTERN RAIL DELIVERY PRB	QP	105	570	-81.6%	0	0.0%	9,342	26,220	-64.4%
WTI-BRENT BULLET SWAP	BY	0	0	0.0%	500	-100.0%	500	0	0.0%
WTI-BRENT CALENDAR SWAP	BK	9,542	25,758	-63.0%	11,672	-18.2%	137,258	277,619	-50.6%
WTI CALENDAR	CS	53,143	21,585	146.2%	33,473	58.8%	387,932	404,806	-4.2%
WTS (ARGUS) VS WTI SWAP	FF	13,593	1,816	648.5%	3,720	265.4%	55,703	60,936	-8.6%
WTS (ARGUS) VS WTI TRD MT	FH	162	462	-64.9%	500	-67.6%	12,370	19,453	-36.4%
<b>Energy Options</b>									
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	1,704	2,034	-16.2%	105	1,522.9%	15,237	153,151	-90.1%
BRENT OIL LAST DAY	BE	0	857	-100.0%	7,000	-100.0%	43,890	52,621	-16.6%
BRENT OIL LAST DAY	BZO	25,341	720	3,419.6%	39,304	-35.5%	259,439	720	35,933.2%
BRENT OIL LAST DAY	OS	0	303	-100.0%	0	0.0%	12,234	55,192	-77.8%
COAL API2 INDEX	CLA	375	5,150	-92.7%	1,759	-78.7%	54,378	66,223	-17.9%
COAL API2 INDEX	CQA	2,150	6,085	-64.7%	0	0.0%	103,884	100,652	3.2%
COAL API2 INDEX	MTC	25	0	0.0%	0	0.0%	175	151	15.9%
COAL API4 INDEX	RLA	0	0	0.0%	0	0.0%	100	1,400	-92.9%
COAL API4 INDEX	RQA	0	0	0.0%	60	-100.0%	1,540	600	156.7%
COAL SWAP	CPF	0	0	0.0%	0	0.0%	585	730	-19.9%
COAL SWAP	RPF	0	0	0.0%	0	0.0%	1,086	3,830	-71.6%
CRUDE OIL 1MO	WA	227,688	123,175	84.8%	254,917	-10.7%	3,005,974	2,359,207	27.4%
CRUDE OIL APO	AO	84,502	13,936	506.4%	21,270	297.3%	409,273	722,701	-43.4%
CRUDE OIL CALNDR STRIP	6F	0	0	0.0%	0	0.0%	0	0	0.0%
CRUDE OIL OUTRIGHTS	AH	0	5,000	-100.0%	0	0.0%	2,290	21,600	-89.4%



## NYMEX/COMEX Exchange Volume Report - Monthly

Commodity		VOLUME DEC 2016	VOLUME DEC 2015	% CHG	VOLUME NOV 2016	% CHG	VOLUME Y.T.D 2016	VOLUME Y.T.D 2015	% CHG
<b>Energy Options</b>									
CRUDE OIL OUTRIGHTS	DBP	0	0	0.0%	0	0.0%	0	900	-100.0%
CRUDE OIL PHY	CD	700	100	600.0%	1,950	-64.1%	38,425	17,900	114.7%
CRUDE OIL PHY	LC	32,777	12,201	168.6%	14,052	133.3%	344,468	487,003	-29.3%
CRUDE OIL PHY	LO	3,929,183	3,317,764	18.4%	5,072,423	-22.5%	45,879,991	39,627,070	15.8%
CRUDE OIL PHY	LO1	5,745	6,990	-17.8%	22,350	-74.3%	82,795	50,765	63.1%
CRUDE OIL PHY	LO2	4,219	7,478	-43.6%	4,228	-0.2%	48,765	40,298	21.0%
CRUDE OIL PHY	LO3	3,490	2,045	70.7%	4,101	-14.9%	35,405	24,850	42.5%
CRUDE OIL PHY	LO4	6,105	3,352	82.1%	5,365	13.8%	56,458	30,301	86.3%
CRUDE OIL PHY	LO5	3,511	0	0.0%	0	0.0%	28,646	15,318	87.0%
DAILY CRUDE OIL	DNM	0	0	0.0%	0	0.0%	0	8,000	-100.0%
ELEC FINSETTLED	PML	0	0	0.0%	0	0.0%	264	39	576.9%
ELEC MISO PEAK	9T	0	0	0.0%	0	0.0%	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	100	0	-	0	0.0%	125	0	-
ETHANOL	CE3	300	0	-	0	0.0%	325	0	-
ETHANOL SWAP	CVR	12,251	5,799	111.3%	9,160	33.7%	85,662	72,994	17.4%
ETHANOL SWAP	GVR	0	0	0.0%	210	-100.0%	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	794	1,107	-28.3%	167	375.4%	4,789	6,205	-22.8%
HEATING OIL PHY	OH	35,565	63,469	-44.0%	57,831	-38.5%	606,514	606,659	0.0%
HENRY HUB FINANCIAL LAST	E7	5,371	1,657	224.1%	3,175	69.2%	28,902	23,660	22.2%
HO 1 MONTH CLNDR OPTIONS	FA	0	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	3,724	-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	0.0%	11,730	4,080	187.5%
MCCLOSKEY ARA ARGS COAL	MTO	0	0	0.0%	0	0.0%	9,505	8,995	5.7%
MCCLOSKEY RCH BAY COAL	MFO	0	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	400	-100.0%	0	0.0%	0	2,600	-100.0%
NATURAL GAS 1 M CSO FIN	G4	54,625	16,780	225.5%	32,990	65.6%	168,709	271,714	-37.9%

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.



## NYMEX/COMEX Exchange Volume Report - Monthly

Commodity		VOLUME DEC 2016	VOLUME DEC 2015	% CHG	VOLUME NOV 2016	% CHG	VOLUME Y.T.D 2016	VOLUME Y.T.D 2015	% CHG
<b>Energy Options</b>									
NATURAL GAS 2 M CSO FIN	G2	450	0	0.0%	680	-33.8%	4,505	4,950	-9.0%
NATURAL GAS 3 M CSO FIN	G3	650	0	0.0%	100	550.0%	228,182	65,445	248.7%
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	2,075	0	0.0%	3,600	-42.4%	11,275	46,900	-76.0%
NATURAL GAS OPTION ON CALENDAR STRP	6J	2,360	880	168.2%	6,900	-65.8%	28,068	13,020	115.6%
NATURAL GAS PHY	KD	26,925	29,560	-8.9%	28,821	-6.6%	375,887	271,330	38.5%
NATURAL GAS PHY	LN	1,986,716	2,329,020	-14.7%	2,240,243	-11.3%	23,520,044	19,594,491	20.0%
NATURAL GAS PHY	ON	330,415	386,201	-14.4%	358,780	-7.9%	3,444,463	3,029,693	13.7%
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%	0	0.0%	6,540	6,429	1.7%
NY HARBOR HEAT OIL SWP	AT	7,056	19,305	-63.4%	3,280	115.1%	67,799	165,910	-59.1%
NYISO ZONE G 5MW PEAK OPTIONS	9U	0	0	0.0%	10,740	-100.0%	11,160	550	1,929.1%
NYMEX EUROPEAN GASOIL APO	F7	0	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	260	120	116.7%	205	26.8%	11,486	13,341	-13.9%
PETROCHEMICALS	4I	0	0	0.0%	0	0.0%	0	0	0.0%
PETROCHEMICALS	4J	450	0	0.0%	420	7.1%	6,755	1,840	267.1%
PETROCHEMICALS	4K	0	0	0.0%	0	0.0%	1,560	0	0.0%
PETROCHEMICALS	CPR	0	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	0	0.0%	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	130	0	0.0%	340	-61.8%	1,220	200	510.0%
PJM WES HUB PEAK CAL MTH	JOA	0	0	-	0	0.0%	10,300	0	-
PJM WES HUB PEAK LMP 50MW	PMA	0	0	-	2,644	-100.0%	11,935	0	-
RBOB 1MO CAL SPD OPTIONS	ZA	0	0	0.0%	1,800	-100.0%	11,850	0	0.0%
RBOB CALENDAR SWAP	RA	159	2,690	-94.1%	0	0.0%	6,744	21,649	-68.8%
RBOB PHY	OB	10,501	26,728	-60.7%	23,038	-54.4%	390,579	347,789	12.3%

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.

## NYMEX/COMEX Exchange Volume Report - Monthly

Commodity		VOLUME DEC 2016	VOLUME DEC 2015	% CHG	VOLUME NOV 2016	% CHG	VOLUME Y.T.D 2016	VOLUME Y.T.D 2015	% CHG
<b>Energy Options</b>									
RBOB PHY	RF	0	40	-100.0%	40	-100.0%	60	5,440	-98.9%
ROTTERDAM 3.5%FUEL OIL CL	Q6	120	0	0.0%	0	0.0%	640	615	4.1%
SAN JUAN PIPE SWAP	PJ	0	360	-100.0%	0	0.0%	9,108	5,092	78.9%
SHORT TERM	U11	0	450	-100.0%	955	-100.0%	3,205	3,510	-8.7%
SHORT TERM	U12	720	0	0.0%	0	0.0%	4,450	2,065	115.5%
SHORT TERM	U13	100	0	0.0%	0	0.0%	4,361	2,535	72.0%
SHORT TERM	U14	0	75	-100.0%	450	-100.0%	5,225	1,675	211.9%
SHORT TERM	U15	330	125	164.0%	300	10.0%	3,755	2,750	36.5%
SHORT TERM	U22	400	100	300.0%	530	-24.5%	4,205	1,560	169.6%
SHORT TERM	U23	100	75	33.3%	500	-80.0%	2,280	2,465	-7.5%
SHORT TERM	U24	0	0	0.0%	0	0.0%	2,080	2,105	-1.2%
SHORT TERM	U25	0	0	0.0%	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	0	0	0.0%	650	-100.0%	5,025	1,855	170.9%
SHORT TERM NATURAL GAS	U02	600	875	-31.4%	700	-14.3%	4,800	6,013	-20.2%
SHORT TERM NATURAL GAS	U03	100	400	-75.0%	1,450	-93.1%	3,170	3,100	2.3%
SHORT TERM NATURAL GAS	U04	0	655	-100.0%	625	-100.0%	5,000	2,330	114.6%
SHORT TERM NATURAL GAS	U05	825	0	0.0%	0	0.0%	3,550	2,200	61.4%
SHORT TERM NATURAL GAS	U06	0	0	0.0%	0	0.0%	2,905	2,325	24.9%
SHORT TERM NATURAL GAS	U07	300	700	-57.1%	1,000	-70.0%	5,100	2,920	74.7%
SHORT TERM NATURAL GAS	U08	200	0	0.0%	100	100.0%	3,522	1,975	78.3%
SHORT TERM NATURAL GAS	U09	175	600	-70.8%	600	-70.8%	5,617	5,431	3.4%
SHORT TERM NATURAL GAS	U10	0	850	-100.0%	500	-100.0%	4,595	3,750	22.5%
SHORT TERM NATURAL GAS	U16	315	300	5.0%	250	26.0%	4,175	3,025	38.0%
SHORT TERM NATURAL GAS	U17	0	800	-100.0%	450	-100.0%	1,405	1,985	-29.2%
SHORT TERM NATURAL GAS	U18	0	275	-100.0%	200	-100.0%	3,055	1,100	177.7%
SHORT TERM NATURAL GAS	U19	315	0	0.0%	0	0.0%	1,845	3,170	-41.8%
SHORT TERM NATURAL GAS	U20	250	0	0.0%	0	0.0%	1,680	1,730	-2.9%
SHORT TERM NATURAL GAS	U21	450	150	200.0%	750	-40.0%	2,325	2,350	-1.1%
SHORT TERM NATURAL GAS	U27	0	0	0.0%	0	0.0%	1,050	1,225	-14.3%
SHORT TERM NATURAL GAS	U28	0	0	0.0%	0	0.0%	3,925	450	772.2%
SHORT TERM NATURAL GAS	U29	300	0	0.0%	450	-33.3%	3,475	1,600	117.2%
SHORT TERM NATURAL GAS	U30	400	200	100.0%	750	-46.7%	2,100	4,075	-48.5%
SHORT TERM NATURAL GAS	U31	0	130	-100.0%	0	0.0%	1,125	380	196.1%

## NYMEX/COMEX Exchange Volume Report - Monthly

Commodity		VOLUME DEC 2016	VOLUME DEC 2015	% CHG	VOLUME NOV 2016	% CHG	VOLUME Y.T.D 2016	VOLUME Y.T.D 2015	% CHG
<b>Energy Options</b>									
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%	1,440	1,500	-4.0%
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	99,625	23,370	326.3%	6,850	1,354.4%	279,675	268,360	4.2%
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	173,200	72,736	138.1%	248,192	-30.2%	1,851,715	1,845,556	0.3%
<b>Metals Futures</b>									
COMEX GOLD	GC	3,521,572	2,735,237	28.7%	7,108,687	-50.5%	57,564,840	41,847,338	37.6%
NYMEX HOT ROLLED STEEL	HR	2,717	3,196	-15.0%	2,623	3.6%	53,884	58,817	-8.4%
NYMEX PLATINUM	PL	423,172	408,711	3.5%	360,457	17.4%	3,994,072	3,641,144	9.7%
PALLADIUM	PA	91,224	66,956	36.2%	198,537	-54.1%	1,435,863	1,344,426	6.8%
URANIUM	UX	288	1,198	-76.0%	2	14,300.0%	7,583	4,548	66.7%
COMEX SILVER	SI	1,135,529	864,875	31.3%	2,214,364	-48.7%	18,218,740	13,454,406	35.4%
COMEX E-Mini GOLD	QO	7,266	4,236	71.5%	17,592	-58.7%	130,190	66,758	95.0%
E-MINI SILVER	6Q	0	0	0.0%	0	-	0	0	0.0%
COMEX E-Mini SILVER	QI	1,011	523	93.3%	1,695	-40.4%	14,985	9,823	52.6%
COMEX COPPER	HG	1,433,779	1,049,210	36.7%	3,531,273	-59.4%	21,524,547	16,986,055	26.7%
COMEX MINY COPPER	QC	559	383	46.0%	1,073	-47.9%	6,675	9,171	-27.2%
Aluminium MW Trans Prem Platts	AUP	2,469	2,991	-17.5%	9,840	-74.9%	68,872	37,447	83.9%
ALUMINUM	A38	80	0	-	0	0.0%	167	0	-
ALUMINUM	AEP	909	1,347	-32.5%	2,085	-56.4%	13,573	4,651	191.8%
ALUMINUM	ALA	0	0	-	0	0.0%	60	0	-
ALUMINUM	ALI	468	455	2.9%	1,134	-58.7%	8,241	4,044	103.8%
ALUMINUM	EDP	1,044	0	-	2,420	-56.9%	10,453	0	-
ALUMINUM	MJP	760	0	-	1,740	-56.3%	9,103	0	-
COPPER	HGS	65	98	-33.7%	400	-83.8%	3,881	6,538	-40.6%
E-MICRO GOLD	MGC	59,280	51,804	14.4%	96,161	-38.4%	976,950	407,643	139.7%
FERROUS PRODUCTS	BUS	0	0	0.0%	160	-100.0%	972	558	74.2%
FERROUS PRODUCTS	SSF	0	0	0.0%	0	0.0%	0	0	0.0%
GOLD	GPS	0	0	-	2	-100.0%	2	0	-



## NYMEX/COMEX Exchange Volume Report - Monthly

Commodity		VOLUME DEC 2016	VOLUME DEC 2015	% CHG	VOLUME NOV 2016	% CHG	VOLUME Y.T.D 2016	VOLUME Y.T.D 2015	% CHG
<b>Metals Futures</b>									
Gold Kilo	GCK	3,725	7,596	-51.0%	4,786	-22.2%	56,157	51,336	9.4%
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	0	0	0.0%	46	-100.0%	3,056	2,613	17.0%
IRON ORE 62 CHINA TSI FUTURES	TIO	13,841	15,276	-9.4%	26,665	-48.1%	199,434	136,158	46.5%
LNDN ZINC	ZNC	3	0	0.0%	0	0.0%	230	386	-40.4%
METALS	LED	0	0	-	0	0.0%	25	0	-
SILVER	SIL	6,475	4,569	41.7%	11,856	-45.4%	101,937	89,934	13.3%
<b>Metals Options</b>									
COMEX COPPER	HX	1,833	1,344	36.4%	4,908	-62.7%	38,472	27,111	41.9%
COMEX GOLD	OG	734,009	511,785	43.4%	1,324,732	-44.6%	9,916,049	7,534,527	31.6%
COMEX SILVER	SO	80,152	64,371	24.5%	129,032	-37.9%	1,375,636	1,224,664	12.3%
COPPER	H4E	0	0	0.0%	0	0.0%	0	10	-100.0%
GOLD	OG1	894	745	20.0%	1,690	-47.1%	14,995	6,117	145.1%
GOLD	OG2	1,431	494	189.7%	7,775	-81.6%	20,626	7,513	174.5%
GOLD	OG3	2,318	327	608.9%	1,033	124.4%	12,249	5,632	117.5%
GOLD	OG4	1,092	42	2,500.0%	712	53.4%	8,208	3,235	153.7%
GOLD	OG5	671	0	0.0%	0	0.0%	3,625	1,305	177.8%
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	160	4,860	-96.7%	2,840	-94.4%	39,749	24,360	63.2%
IRON ORE 62 CHINA TSI PUT OPTION	ICT	355	5,196	-93.2%	2,690	-86.8%	32,411	49,196	-34.1%
NYMEX PLATINUM	PO	5,650	2,747	105.7%	3,608	56.6%	53,221	58,275	-8.7%
PALLADIUM	PAO	4,232	641	560.2%	4,581	-7.6%	42,072	42,981	-2.1%
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	0	0	0.0%	199	-100.0%	559	428	30.6%
SILVER	SO2	1	0	0.0%	337	-99.7%	619	190	225.8%
SILVER	SO3	254	0	0.0%	79	221.5%	797	194	310.8%
SILVER	SO4	215	0	0.0%	43	400.0%	472	141	234.8%
SILVER	SO5	8	0	0.0%	0	0.0%	258	203	27.1%

## NYMEX/COMEX Exchange Volume Report - Monthly

Commodity	VOLUME DEC 2016	VOLUME DEC 2015	% CHG	VOLUME NOV 2016	% CHG	VOLUME Y.T.D 2016	VOLUME Y.T.D 2015	% CHG
<b>TOTAL FUTURES GROUP</b>								
Commodities and Alternative Investments Futures	14	372	-96.2%	20	-30.0%	3,772	4,606	-18.1%
Energy Futures	46,968,278	38,689,298	21.4%	49,693,688	-5.5%	530,791,914	427,415,626	24.2%
Metals Futures	6,706,236	5,218,661	28.5%	13,593,598	-50.7%	104,404,492	78,163,794	33.6%
<b>TOTAL FUTURES</b>	<b>53,674,528</b>	<b>43,908,331</b>	<b>22.2%</b>	<b>63,287,306</b>	<b>-15.2%</b>	<b>635,200,178</b>	<b>505,584,026</b>	<b>25.6%</b>
<b>TOTAL OPTIONS GROUP</b>								
Energy Options	7,083,973	6,494,172	9.1%	8,500,780	-16.7%	81,766,300	70,646,392	15.7%
Metals Options	833,275	592,552	40.6%	1,484,259	-43.9%	11,560,018	8,986,082	28.6%
<b>TOTAL OPTIONS</b>	<b>7,917,248</b>	<b>7,086,724</b>	<b>11.7%</b>	<b>9,985,039</b>	<b>-20.7%</b>	<b>93,326,318</b>	<b>79,632,474</b>	<b>17.2%</b>
<b>TOTAL COMBINED</b>								
Commodities and Alternative Investments	14	372	-96.2%	20	-30.0%	3,772	4,606	-18.1%
Energy	54,052,251	45,183,470	19.6%	58,194,468	-7.1%	612,558,214	498,062,018	23.0%
Metals	7,539,511	5,811,213	29.7%	15,077,857	-50.0%	115,964,510	87,149,876	33.1%
<b>GRAND TOTAL</b>	<b>61,591,776</b>	<b>50,995,055</b>	<b>20.8%</b>	<b>73,272,345</b>	<b>-15.9%</b>	<b>728,526,496</b>	<b>585,216,500</b>	<b>24.5%</b>