

NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator	Open Outcry NOV 2017	Open Outcry NOV 2016	% CHG	ELEC NOV 2017	ELEC NOV 2016	% CHG	CME ClearPort NOV 2017	CME ClearPort NOV 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG	CME ClearPort Y.T.D 2017	CME ClearPort Y.T.D 2016	% CHG	
Commodities and Alternative Investments																			
Futures																			
COCOA TAS	CJ	0	0	0.0%	1	14	-0.93	0	0	0.0%	0	0	0.0%	87	2,594	-96.6%	0	0	0.0%
COFFEE	KT	0	0	0.0%	1	1	0	0	0	0.0%	0	0	0.0%	41	169	-75.7%	0	0	0.0%
COTTON	TT	0	0	0.0%	3	2	0.5	0	0	0.0%	0	0	0.0%	19	577	-96.7%	0	0	0.0%
SUGAR 11	YO	0	0	0.0%	0	3	-1	0	0	0.0%	0	0	0.0%	42	418	-90.0%	0	0	0.0%
Energy Futures																			
CRUDE OIL PHY	CL	0	20	-100.0%	27,068,603	26,678,821	0.01	567,103	680,754	-16.7%	0	20,113	-100.0%	283,703,452	245,687,589	15.5%	6,140,346	6,893,578	-10.9%
CRUDE OIL	WS	0	0	0.0%	0	0	0	15,209	3,039	400.5%	0	0	0.0%	304	0	0.0%	74,196	86,407	-14.1%
MINY WTI CRUDE OIL	QM	0	0	0.0%	235,179	303,394	-0.22	0	0	0.0%	0	0	0.0%	2,834,261	3,152,321	-10.1%	0	0	0.0%
BRENT OIL LAST DAY	BZ	0	0	0.0%	1,535,316	2,521,208	-0.39	35,054	12,855	172.7%	0	344	-100.0%	20,280,916	21,410,183	-5.3%	264,365	200,741	31.7%
HEATING OIL PHY	HO	0	30	-100.0%	3,320,816	3,268,193	0.02	228,462	196,877	16.0%	0	998	-100.0%	37,488,106	33,189,627	13.0%	2,603,675	2,250,622	15.7%
HTG OIL	BH	0	0	0.0%	0	0	0	0	76	-100.0%	0	36	-100.0%	144	0	0.0%	196	5,322	-96.3%
MINY HTG OIL	QH	0	0	0.0%	4	5	-0.2	0	0	0.0%	0	0	0.0%	32	100	-68.0%	0	0	0.0%
RBOB PHY	RB	0	22	-100.0%	3,493,215	3,552,076	-0.02	224,130	204,332	9.7%	0	595	-100.0%	43,324,640	39,132,639	10.7%	3,217,796	2,095,006	53.6%
MINY RBOB GAS	QU	0	0	0.0%	4	4	0	0	0	0.0%	0	0	0.0%	47	49	-4.1%	0	0	0.0%
NATURAL GAS	HP	0	0	0.0%	38,452	23,156	0.66	76,425	132,129	-42.2%	0	800	-100.0%	393,799	223,518	76.2%	1,122,996	1,213,787	-7.5%
LTD NAT GAS	HH	0	0	0.0%	157,723	70,146	1.25	155,620	176,845	-12.0%	0	0	0.0%	1,408,252	799,231	76.2%	1,815,706	1,761,910	3.1%
MINY NATURAL GAS	QG	0	0	0.0%	28,377	36,825	-0.23	0	0	0.0%	0	0	0.0%	271,600	290,589	-6.5%	0	0	0.0%
PJM MONTHLY	JM	0	0	0.0%	0	0	0	0	48	-100.0%	0	0	0.0%	0	0	0.0%	120	2,946	-95.9%
NATURAL GAS PHY	NG	0	82	-100.0%	9,685,384	8,797,379	0.1	321,131	275,364	16.6%	0	1,672	-100.0%	94,669,998	85,171,829	11.2%	3,221,191	2,492,926	29.2%
RBOB GAS	RT	0	0	0.0%	0	0	0	1,850	4,022	-54.0%	0	0	0.0%	0	0	0.0%	26,546	17,205	54.3%
3.5% FUEL OIL CID MED SWA	7D	0	0	0.0%	0	0	0	70	315	-77.8%	0	0	0.0%	0	0	0.0%	1,035	2,965	-65.1%
3.5% FUEL OIL CIF BALMO S	8D	0	0	0.0%	0	0	0	0	30	-100.0%	0	0	0.0%	0	0	0.0%	175	307	-43.0%
AEP-DAYTON HUB DAILY	VD	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
AEP-DAYTON HUB MTHLY	VM	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	240	-100.0%
AEP-DAYTON HUB OFF-PEAK M	VP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
ALGON CITY GATES NAT GAS	N7	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	6,224	-100.0%
ALGONQUIN CITYGATES BASIS	B4	0	0	0.0%	0	0	0	0	56	-100.0%	0	0	0.0%	0	0	0.0%	0	8,161	-100.0%
ANR LOUISIANA BASIS SWAP	ND	0	0	0.0%	0	0	0	0	121	-100.0%	0	0	0.0%	0	0	0.0%	0	121	-100.0%
ANR OKLAHOMA	NE	0	0	0.0%	0	0	0	0	302	-100.0%	0	0	0.0%	0	0	0.0%	0	4,787	-100.0%
APPALACHIAN COAL (PHY)	QL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	130	-100.0%

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Energy Futures																			
ARGUS LLS VS. WTI (ARG) T	E5	0	0	0.0%	0	0	0	55,150	11,132	395.4%	0	0	0.0%	60	0	0.0%	159,882	135,904	17.6%
ARGUS PROPAN FAR EST INDE	7E	0	0	0.0%	0	0	0	3,932	1,620	142.7%	0	0	0.0%	0	0	0.0%	28,462	17,184	65.6%
ARGUS PROPAN(SAUDI ARAMC	9N	0	0	0.0%	0	0	0	1,106	648	70.7%	0	0	0.0%	0	0	0.0%	11,496	9,518	20.8%
AUSTRIALIAN COKE COAL	ACT	0	-	-	0	-	-	120	-	-	0	-	-	0	-	-	120	-	-
AUSTRIALIAN COKE COAL	ALW	0	0	0.0%	0	0	0	0	542	-100.0%	0	0	0.0%	0	0	0.0%	1,003	4,569	-78.0%
BRENT BALMO SWAP	J9	0	0	0.0%	0	0	0	0	76	-100.0%	0	0	0.0%	0	0	0.0%	578	2,043	-71.7%
BRENT CALENDAR SWAP	CY	0	0	0.0%	0	0	0	2,555	419	509.8%	0	0	0.0%	0	0	0.0%	30,743	19,421	58.3%
BRENT CFD SWAP	6W	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
BRENT FINANCIAL FUTURES	BB	0	0	0.0%	0	0	0	1,010	0	0.0%	0	0	0.0%	0	0	0.0%	43,043	2,902	1,383.2%
BRENT FINANCIAL FUTURES	MBC	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	1,424	-100.0%
BRENT FINANCIAL FUTURES	MDB	0	0	0.0%	0	0	0	52	0	0.0%	0	0	0.0%	0	0	0.0%	330	2,513	-86.9%
BRENT OIL LAST DAY	BZL	0	0	0.0%	0	0	0	0	0	0.0%	0	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%	0	0	0.0%	0	0	0.0%	0	0	0.0%
CAISO SP15 EZGNHUB5 MW P	9X	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	7,940	17,930	-55.7%
CAISO SP15 EZGNHUB5 PEAK	9Z	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
CANADIAN LIGHT SWEET OIL	CIL	0	0	0.0%	0	0	0	0	630	-100.0%	0	0	0.0%	0	0	0.0%	7,344	20,460	-64.1%
CENTERPOINT BASIS SWAP	PW	0	0	0.0%	0	0	0	465	0	0.0%	0	0	0.0%	0	0	0.0%	999	13,180	-92.4%
CENTERPOINT EAST INDEX	II	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	740	-100.0%
CENTER POINT NAT GAS FIXED	DAC	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
CHICAGO ETHANOL SWAP	CU	0	0	0.0%	621	202	2.07	108,890	140,255	-22.4%	0	0	0.0%	4,204	11,013	-61.8%	1,242,990	1,135,661	9.5%
CHICAGO ULSD (PLATTS) SWA	4C	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
CHICAGO ULSD PL VS HO SPR	5C	0	0	0.0%	0	0	0	155	0	0.0%	0	0	0.0%	0	0	0.0%	1,638	2,738	-40.2%
CHICAGO UNL GAS PL VS RBO	3C	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	2,090	-100.0%
CIG BASIS	CI	0	0	0.0%	0	0	0	730	3,461	-78.9%	0	0	0.0%	0	0	0.0%	1,456	81,620	-98.2%
CIG ROCKIES NG INDEX SWA	Z8	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	720	1,054	-31.7%
CINERGY HUB OFF-PEAK MON	EJ	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	60	-100.0%
CINERGY HUB PEAK MONTH	EM	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
CIN HUB 5MW D AH O PK	K2	0	0	0.0%	0	0	0	0	23,480	-100.0%	0	0	0.0%	0	0	0.0%	326,080	322,440	1.1%
CIN HUB 5MW D AH PK	H5	0	0	0.0%	0	0	0	600	218	175.2%	0	0	0.0%	0	0	0.0%	18,293	20,843	-12.2%
CIN HUB 5MW REAL TIME O P	H4	0	0	0.0%	0	0	0	0	59,040	-100.0%	0	0	0.0%	0	0	0.0%	397,000	1,053,024	-62.3%
CIN HUB 5MW REAL TIME PK	H3	0	0	0.0%	0	0	0	0	870	-100.0%	0	0	0.0%	0	0	0.0%	25,625	66,431	-61.4%
COAL SWAP	ACM	0	0	0.0%	0	0	0	70	400	-82.5%	0	0	0.0%	0	0	0.0%	1,675	3,023	-44.6%
COAL SWAP	SSI	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	187	-100.0%
COLUMB GULF MAINLINE NG B	5Z	0	0	0.0%	0	0	0	0	121	-100.0%	0	0	0.0%	0	122	-100.0%	999	21,919	-95.4%

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Energy Futures																			
COLUMBIA GULF MAIN NAT G	L2	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	2,208	-100.0%	
COLUMBIA GULF NAT GAS FIXE	DCE	-	0	0.0%	-	0	0	-	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%	
COLUMBIA GULF ONSHORE	GL	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	1,332	3,108	-57.1%	
CONWAY NATURAL GASOLINE	8L	0	0	0.0%	0	0	0	120	300.0%	0	0	0.0%	0	0	0.0%	2,950	1,691	74.5%	
CONWAY NORMAL BUTANE (O	8M	0	0	0.0%	0	0	0	75	47.1%	0	0	0.0%	0	0	0.0%	8,040	2,595	209.8%	
CONWAY PROPANE 5 DECIMAL	8K	0	0	0.0%	4	0	0	10,546	7,882	33.8%	0	0	0.0%	58	0	0.0%	98,959	80,240	23.3%
CRUDE OIL	CHB	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	60	-100.0%	
CRUDE OIL	LPS	0	0	0.0%	0	0	0	2,814	5,373	-47.6%	0	0	0.0%	203	0	0.0%	41,866	53,993	-22.5%
CRUDE OIL OUTRIGHTS	37	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	
CRUDE OIL OUTRIGHTS	42	0	0	0.0%	0	0	0	140	30	366.7%	0	0	0.0%	0	0	0.0%	5,787	1,011	472.4%
CRUDE OIL OUTRIGHTS	CC5	0	-	-	0	-	0	0	-	-	0	-	0	-	-	600	-	-	
CRUDE OIL OUTRIGHTS	CSN	0	-	-	0	-	0	0	-	-	0	-	0	-	-	30	-	-	
CRUDE OIL OUTRIGHTS	CSW	0	0	0.0%	0	0	0	155	565	-72.6%	0	0	0.0%	0	0	0.0%	2,705	2,185	23.8%
CRUDE OIL OUTRIGHTS	DBL	0	0	0.0%	0	0	0	411	0	0.0%	0	0	0.0%	0	0	0.0%	2,036	850	139.5%
CRUDE OIL OUTRIGHTS	FE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	330	0	0.0%
CRUDE OIL OUTRIGHTS	GSW	0	0	0.0%	0	0	0	45	80	-43.8%	0	0	0.0%	0	0	0.0%	200	170	17.6%
CRUDE OIL OUTRIGHTS	HTT	0	0	0.0%	0	0	0	42,980	2,025	2,022.5%	0	0	0.0%	0	0	0.0%	210,365	23,148	808.8%
CRUDE OIL OUTRIGHTS	LSW	0	-	-	0	-	0	1,215	-	-	0	-	0	-	-	4,125	-	-	
CRUDE OIL OUTRIGHTS	SSW	0	-	-	0	-	0	0	-	-	0	-	0	-	-	960	-	-	
CRUDE OIL OUTRIGHTS	WCC	0	0	0.0%	0	0	0	0	1,845	-100.0%	0	0	0.0%	0	0	0.0%	24,737	51,719	-52.2%
CRUDE OIL OUTRIGHTS	WCW	0	-	-	0	-	0	17,085	-	-	0	-	0	-	-	72,796	-	-	
CRUDE OIL PHY	CLL	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	
CRUDE OIL SPRDS	38	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	675	-100.0%	
CRUDE OIL SPRDS	WTT	0	0	0.0%	0	0	0	42,885	6,005	614.2%	0	0	0.0%	50	0	0.0%	140,514	43,617	222.2%
CRUDE OIL TRADE AT MARKER	CLS	0	0	0.0%	0	0	0	0	0.0%	0	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	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	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	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	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	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	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	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	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	0	0.0%	0	0	0.0%	0	0	0.0%	

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Energy Futures																			
DAILY PJM	WOR	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	2,720	-100.0%	
DAILY PJM	ZAO	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	
DAILY PJM	ZGO	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	
DAILY PJM	ZJO	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	
DATED BRENT (PLATTS) DAILY	7G	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	1,400	200	600.0%	
DATED TO FRONTLINE BRENT	FY	0	0	0.0%	0	0	0	400	5,525	-92.8%	0	0	0.0%	0	0	0.0%	14,450	20,585	-29.8%
DEMARC INDEX FUTURE	DI	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	800	-100.0%	
DEMARC SWING SWAP	DT	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	62	-100.0%	
DIESEL 10P BRG FOB RDM VS	7X	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	125	-100.0%	
DIESEL 10PPM BARGES FOB B	U7	0	-	-	0	-	0	-	-	0	-	-	0	-	-	3	-	-	
DIESEL10PPM BARG VS ICE LS	LSE	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
DLY GAS EURO-BOB OXY	GBR	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	60	-100.0%	
DOMINION TRAN INC - APP I	IH	0	0	0.0%	0	0	0	2,920	31	9,319.4%	0	0	0.0%	0	0.0%	2,920	20,026	-85.4%	
DOMINION TRANSMISSION INC	PG	0	0	0.0%	0	0	0	4,508	12,618	-64.3%	0	0	0.0%	0	366	-100.0%	53,117	223,532	-76.2%
DUBAI CRUDE OIL BALMO	BI	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0.0%	0	275	-100.0%	
DUBAI CRUDE OIL CALENDAR	DC	0	0	0.0%	0	0	0	4,162	5,148	-19.2%	0	0	0.0%	0	0.0%	81,936	23,667	246.2%	
DY EURO 3.5% FUEL OI RDA	FOR	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0.0%	1,500	0	0.0%	
EASTERN RAIL DELIVERY CSX	QX	0	0	0.0%	0	0	0	15	1,425	-98.9%	0	0	0.0%	0	0.0%	4,855	14,167	-65.7%	
EAST/WEST FUEL OIL SPREAD	EW	0	0	0.0%	0	0	0	0	47	-100.0%	0	0	0.0%	0	0.0%	1,255	368	241.0%	
EIA FLAT TAX ONHWAY DIESE	A5	0	0	0.0%	0	0	0	116	134	-13.4%	0	0	0.0%	0	0.0%	7,644	10,672	-28.4%	
ELEC ERCOT DLY OFF PK	R4	0	0	0.0%	0	0	0	0	0	0.0%	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%	0	0	0.0%	0	0.0%	0	0	0.0%	
ELEC ERCOT DLY PEAK	N1	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0.0%	0	0	0.0%	
ELEC ERCOT DLY PEAK	R1	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0.0%	0	0	0.0%	
ELEC ERCOT OFF PEAK	O1	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0.0%	-	0	0.0%	
ELEC FINSETTLED	47	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0.0%	0	1,270	-100.0%	
ELEC FINSETTLED	49	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0.0%	0	0	0.0%	
ELEC MISO PEAK	4L	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0.0%	3,825	0	0.0%	
ELEC MISO PEAK	55	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0.0%	0	0	0.0%	
ELEC NYISO OFF-PEAK	4M	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0.0%	70,200	0	0.0%	
ELEC NYISO OFF-PEAK	58	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0.0%	0	0	0.0%	
ELECTRICITY ERCOT PEAK	ERE	0	-	-	0	-	0	-	-	0	-	-	0	-	-	690	-	-	
ELECTRICITY OFF PEAK	46	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	23,480	-100.0%	
ELECTRICITY OFF PEAK	4P	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	

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Commodity Indicator	Open Outcry NOV 2017	Open Outcry NOV 2016	% CHG	ELEC NOV 2017	ELEC NOV 2016	% CHG	CME ClearPort NOV 2017	CME ClearPort NOV 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG	CME ClearPort Y.T.D 2017	CME ClearPort Y.T.D 2016	% CHG	
Energy Futures																			
ELECTRICITY OFF PEAK	50	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	
ELEC WEST POWER OFF-PEAK	MDA	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	1,840	-100.0%	
ELEC WEST POWER PEAK	MDC	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	1,540	5,390	-71.4%	
EL PASO PERMIAN INDEX SWA EMISSIONS	IL	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	1,612	-100.0%	
ERCOT DAILY 5MW PEAK	CPL	-	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%	
ERCOT HOUSTON Z MCPE 5M	ERW	0	-	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	
ERCOT NORTH ZMCPE 5MW OF	I1	0	-	0	-	-	0	-	-	0	-	-	0	-	-	3,880	-	-	
ERCOT NORTH ZMCPE 5MW OF	I8	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	
ERCOT NORTH ZMCPE 5MW OF	I6	0	0.0%	0	0	0	39,200	0	0.0%	0	0	0.0%	0	0	0.0%	115,120	4,280	2,589.7%	
ERCOT NORTH ZMCPE 5MW PE	I5	0	0.0%	0	0	0	2,100	0	0.0%	0	0	0.0%	0	0	0.0%	6,810	235	2,797.9%	
ETHANOL T2 FOB ROTT INCL D	Z1	0	0.0%	0	0	0	5,559	5,504	1.0%	0	0	0.0%	0	0	0.0%	44,045	27,748	58.7%	
EU LOW SULPHUR GASOIL CRA	LSC	-	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%	
EURO 1% FUEL OIL NEW BALM	KX	0	0.0%	0	0	0	0	10	-100.0%	0	0	0.0%	0	0	0.0%	18	235	-92.3%	
EURO 3.5% FUEL OIL RDAM B	KR	0	0.0%	0	0	0	740	395	87.3%	0	0	0.0%	0	0	0.0%	4,877	3,695	32.0%	
EURO 3.5% FUEL OIL SPREAD	FK	0	0.0%	0	0	0	180	2,859	-93.7%	0	0	0.0%	0	0	0.0%	4,466	8,813	-49.3%	
EURO-DENOMINATED PETRO P	IBE	-	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%	
EURO-DENOMINATED PETRO P	NCP	0	0.0%	0	0	0	0	198	-100.0%	0	0	0.0%	0	0	0.0%	1,514	356	325.3%	
EURO GASOIL 10 CAL SWAP	GT	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	3	-100.0%	
EURO GASOIL 10PPM VS ICE	ET	0	0.0%	0	0	0	5	15	-66.7%	0	0	0.0%	0	0	0.0%	430	694	-38.0%	
EUROPE 1% FUEL OIL NWE CA	UF	0	0.0%	0	0	0	0	13	-100.0%	0	0	0.0%	0	0	0.0%	709	1,470	-51.8%	
EUROPE 1% FUEL OIL RDAM C	UH	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	39	134	-70.9%	
EUROPE 3.5% FUEL OIL MED	UI	0	0.0%	0	0	0	320	530	-39.6%	0	0	0.0%	0	0	0.0%	1,701	4,063	-58.1%	
EUROPE 3.5% FUEL OIL RDAM	UV	0	0.0%	0	0	0	8,695	10,529	-17.4%	0	0	0.0%	0	0	0.0%	78,083	79,148	-1.3%	
EUROPEAN GASOIL (ICE)	7F	0	0.0%	1,490	11,141	-0.87	0	0	0.0%	0	0	0.0%	30,762	1,485,608	-97.9%	58	77,400	-99.9%	
EUROPEAN NAPHTHA BALMO	KZ	0	0.0%	0	0	0	135	273	-50.5%	0	0	0.0%	0	0	0.0%	3,656	1,970	85.6%	
EUROPEAN NAPHTHA CRACK SF	EN	0	0.0%	0	0	0	7,541	10,537	-28.4%	0	0	0.0%	0	0	0.0%	75,329	62,816	19.9%	
EUROPE DATED BRENT SWAP	UB	0	0.0%	0	0	0	0	50	-100.0%	0	0	0.0%	0	0	0.0%	2,540	26,638	-90.5%	
EUROPE JET KERO NWE CALS	UJ	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	105	38	176.3%	
EUROPE NAPHTHA CALSWAP	UN	0	0.0%	0	0	0	1,963	2,267	-13.4%	0	0	0.0%	0	0	0.0%	29,707	17,100	73.7%	
EURO PROPANE CIF ARA SWA	PS	0	0.0%	0	0	0	1,740	1,685	3.3%	0	0	0.0%	0	0	0.0%	14,275	14,689	-2.8%	
FL GAS ZONE 3 NAT GAS IND	Q9	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	8,310	-100.0%	
FLORIDA GAS ZONE3 BASIS S	FP	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	5,449	-100.0%	
FREIGHT MARKETS	FLP	0	0.0%	0	0	0	18	304	-94.1%	0	0	0.0%	0	0	0.0%	1,622	2,289	-29.1%	
FUEL OIL CRACK VS ICE	FO	0	0.0%	0	0	0	1,588	4,666	-66.0%	0	0	0.0%	0	0	0.0%	39,399	48,488	-18.7%	

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Commodity Indicator	Open Outcry NOV 2017	Open Outcry NOV 2016	% CHG	ELEC NOV 2017	ELEC NOV 2016	% CHG	CME ClearPort NOV 2017	CME ClearPort NOV 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG	CME ClearPort Y.T.D 2017	CME ClearPort Y.T.D 2016	% CHG	
Energy Futures																			
FUEL OIL NWE CRACK VS ICE	FI	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	32	-100.0%	
FUEL OIL (PLATS) CAR CM	1W	0	0	0.0%	0	0	0	8	-100.0%	0	0	0.0%	0	0	0.0%	20	1,129	-98.2%	
FUEL OIL (PLATS) CAR CN	1X	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	54	-100.0%	
FUELOIL SWAP:CARGOES VS.B	FS	0	0	0.0%	0	0	0	171	-72.6%	0	0	0.0%	0	0	0.0%	2,974	3,839	-22.5%	
GAS EURO-BOB OXY NWE BAR	7H	0	0	0.0%	0	0	0	3,197	-62.0%	0	0	0.0%	0	0	0.0%	68,825	77,099	-10.7%	
GAS EURO-BOB OXY NWE BAR	7K	0	0	0.0%	0	0	0	17,089	-2.4%	0	0	0.0%	0	0	0.0%	208,435	158,205	31.7%	
GASOIL 0.1 BRGS FOB VS IC	6V	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	6	-100.0%	
GASOIL 0.1 CARGOES CIF NE	TW	-	0	0.0%	-	0	0	-	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%	
GASOIL 0.1 CIF MED BALMO	X6	-	0	0.0%	-	0	0	-	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%	
GASOIL 0.1 CIF MED SWAP	Z4	0	0	0.0%	0	0	0	0	-100.0%	0	0	0.0%	0	0	0.0%	0	95	-100.0%	
GASOIL 0.1CIF MED VS ICE	Z5	0	0	0.0%	0	0	0	0	-100.0%	0	0	0.0%	0	0	0.0%	50	195	-74.4%	
GASOIL 0.1 CIF NWE VS ISE	TU	0	0	0.0%	0	0	0	0	-100.0%	0	0	0.0%	0	0	0.0%	0	50	-100.0%	
GASOIL 0.1 CIF VS ICE GAS	8W	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	20	5	300.0%	
GASOIL 0.1 CRG CIF NW VS	4V	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	5	-100.0%	
GASOIL 0.1 RDAM BRGS VS I	WQ	0	0	0.0%	0	0	0	120	0.0%	0	0	0.0%	0	0	0.0%	294	120	145.0%	
GASOIL 0.1 ROTTERDAM BARG	VL	0	0	0.0%	0	0	0	45	0.0%	0	0	0.0%	0	0	0.0%	155	30	416.7%	
GASOIL 10P CRG CIF NW VS	3V	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	25	15	66.7%	
GASOIL 10PPM CARGOES CIF	TY	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	3	-100.0%	
GASOIL 10PPM VS ICE SWAP	TP	0	0	0.0%	0	0	0	15	66.7%	0	0	0.0%	0	0	0.0%	727	904	-19.6%	
GASOIL BULLET SWAP	BG	0	-	-	0	-	0	-	-	0	-	-	0	-	-	130	-	-	
GASOIL CALENDAR SWAP	GX	0	0	0.0%	0	0	0	0	-100.0%	0	0	0.0%	0	0	0.0%	244	329	-25.8%	
GASOIL CRACK SPREAD CALE	GZ	0	0	0.0%	0	0	0	7,395	21.4%	0	0	0.0%	0	0	0.0%	75,163	56,073	34.0%	
GASOIL MINI CALENDAR SWAP	QA	0	0	0.0%	0	0	0	119	-47.3%	0	0	0.0%	0	0	0.0%	1,469	2,635	-44.3%	
GASOLINE UP-DOWN BALMO S	1K	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	810	-100.0%	
GC ULSD VS GC JET SPREAD	VV	-	0	0.0%	-	0	0	-	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%	
GROUP THREE ULSD (PLATTS)	A7	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	125	300	-58.3%	
GRP THREE ULSD(PLT)VS HEA	A6	0	0	0.0%	0	0	0	5,535	134.0%	0	0	0.0%	0	0	0.0%	47,830	30,408	57.3%	
GRP THREE UNL GS (PLT) VS	A8	0	0	0.0%	0	0	0	2,005	278.3%	0	0	0.0%	0	0	0.0%	12,139	16,420	-26.1%	
GULF COAST 3% FUEL OIL BA	VZ	0	0	0.0%	0	0	0	1,132	-36.5%	0	0	0.0%	0	0	0.0%	12,737	8,599	48.1%	
GULF COAST GASOLINE CLND	GS	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	1,300	-100.0%	
GULF COAST JET FUEL CLNDR	GE	0	0	0.0%	0	0	0	45	-64.3%	0	0	0.0%	0	0	0.0%	988	1,803	-45.2%	
GULF COAST JET VS NYM 2 H	ME	0	0	0.0%	0	0	0	27,375	6.3%	0	0	0.0%	0	0	0.0%	455,089	353,130	28.9%	
GULF COAST NO.6 FUEL OIL	MF	0	0	0.0%	0	0	0	59,771	7.2%	0	0	0.0%	0	0	0.0%	570,037	630,780	-9.6%	
GULF COAST NO.6 FUEL OIL	MG	0	0	0.0%	0	0	0	5,278	89.7%	0	0	0.0%	0	0	0.0%	17,681	9,648	83.3%	

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Commodity Indicator	Open Outcry NOV 2017	Open Outcry NOV 2016	% CHG	ELEC NOV 2017	ELEC NOV 2016	% CHG	CME ClearPort NOV 2017	CME ClearPort NOV 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG	CME ClearPort Y.T.D 2017	CME ClearPort Y.T.D 2016	% CHG	
Energy Futures																			
GULF COAST ULSD CALENDAR	LY	0	0	0.0%	0	0	0	54	299	-81.9%	0	0	0.0%	0	3	-100.0%	5,574	9,224	-39.6%
GULF COAST ULSD CRACK SP	GY	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	3,870	6,881	-43.8%
HEATING OIL BALMO CLNDR S	1G	0	0	0.0%	0	0	0	0	19	-100.0%	0	0	0.0%	0	0	0.0%	830	479	73.3%
HEATING OIL CRCK SPRD BAL	1H	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	20	-100.0%
HEATING OIL PHY	HOL	0	0	0.0%	0	0	0	0	0	0.0%	0	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%	-	0	0.0%	-	0	0.0%
HENRY HUB BASIS SWAP	HB	0	0	0.0%	0	1,007	-1	0	8,806	-100.0%	0	0	0.0%	2,996	1,038	188.6%	49,736	197,512	-74.8%
HENRY HUB FINANCIAL LAST	NBP	0	-	-	1,762	-	0	-	-	-	0	-	-	4,257	-	-	0	-	-
HENRY HUB FINANCIAL LAST	TTE	0	-	-	134	-	0	-	-	-	0	-	-	887	-	-	0	-	-
HENRY HUB INDEX SWAP FUTL	IN	0	0	0.0%	0	0	0	0	8,806	-100.0%	0	0	0.0%	2,996	0	0.0%	47,546	179,440	-73.5%
HENRY HUB SWAP	NN	0	0	0.0%	3,189	100,506	-0.97	181,180	306,535	-40.9%	0	1,472	-100.0%	65,169	2,050,941	-96.8%	1,985,287	2,588,997	-23.3%
HENRY HUB SWING FUTURE	SN	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	290	-100.0%
HOUSTON SHIP CHANNEL BASI	NH	0	0	0.0%	0	0	0	5,480	0	0.0%	0	0	0.0%	0	1,102	-100.0%	9,257	29,298	-68.4%
HOUSTON SHIP CHANNEL INDE	IP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	186	-100.0%
HUSTN SHIP CHNL PIPE SWP	XJ	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	719	0	0.0%
ICE BRENT DUBAI SWAP	DB	0	0	0.0%	0	0	0	20,075	6,573	205.4%	0	0	0.0%	0	0	0.0%	117,530	22,081	432.3%
ICE GASOIL BALMO SWAP	U9	0	-	-	0	-	0	-	-	-	0	-	-	0	-	-	9	-	-
IN DELIVERY MONTH EUA	6T	0	0	0.0%	0	0	0	0	4,490	-100.0%	0	0	0.0%	0	225	-100.0%	2,850	35,766	-92.0%
INDIANA MISO	FAD	0	0	0.0%	0	0	0	0	0	0.0%	0	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%	-	0	0.0%	-	0	0.0%
INDIANA MISO	FTD	0	0	0.0%	0	0	0	0	0	0.0%	0	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%	0	0	0.0%	0	0	0.0%	0	0	0.0%
INDIANA MISO	PDD	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	112	-100.0%
INDIANA MISO	PDM	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
INDIANA MISO	PTD	0	0	0.0%	0	0	0	0	0	0.0%	0	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%	0	0	0.0%	0	0	0.0%	0	0	0.0%
INDONESIAN COAL	MCC	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	5	220	-97.7%
ISO NEW ENGLAND OFF-PEAK	KI	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
ISO NEW ENGLAND PK LMP	NI	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	10	20	-50.0%
JAPAN C&F NAPHTHA CRACK S	JB	0	0	0.0%	0	0	0	830	153	442.5%	0	0	0.0%	0	0	0.0%	6,643	4,371	52.0%
JAPAN C&F NAPHTHA SWAP	JA	0	0	0.0%	0	0	0	1,564	1,472	6.3%	0	0	0.0%	0	0	0.0%	16,774	13,805	21.5%
JAPAN NAPHTHA BALMO SWAP	E6	0	0	0.0%	0	0	0	0	30	-100.0%	0	0	0.0%	0	0	0.0%	1,410	405	248.1%
JET AV FUEL (P) CAR FM ICE G	1V	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	36	172	-79.1%
JET BARGES VS ICE GASOIL	JR	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	22	-100.0%

NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator	Open Outcry NOV 2017	Open Outcry NOV 2016	% CHG	ELEC NOV 2017	ELEC NOV 2016	% CHG	CME ClearPort NOV 2017	CME ClearPort NOV 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG	CME ClearPort Y.T.D 2017	CME ClearPort Y.T.D 2016	% CHG	
Energy Futures																			
JET CIF NWE VS ICE	JC	0	0	0.0%	0	0	0	273	0	0.0%	0	0	0.0%	0	0	0.0%	1,248	775	61.0%
JET FUEL BRG FOB RDM VS I	9Q	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	5	2	150.0%
JET FUEL CRG CIF NEW VS I	6X	0	0	0.0%	0	0	0	2	0	0.0%	0	0	0.0%	0	0	0.0%	64	30	113.3%
JET FUEL UP-DOWN BALMO CL	1M	0	0	0.0%	0	0	0	4,130	6,650	-37.9%	0	0	0.0%	0	0	0.0%	76,391	49,055	55.7%
LA CARB DIESEL (OPIS)	LX	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	52	-100.0%
LA CARB DIESEL (OPIS) SWA	KL	0	0	0.0%	0	0	0	125	100	25.0%	0	0	0.0%	0	0	0.0%	2,120	7,277	-70.9%
LA CARBOB GASOLINE(OPIS)S	JL	0	0	0.0%	0	0	0	300	0	0.0%	0	0	0.0%	0	0	0.0%	2,775	5,950	-53.4%
LA JET FUEL VS NYM NO 2 H	MQ	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	25	810	-96.9%
LA JET (OPIS) SWAP	JS	0	0	0.0%	0	0	0	740	900	-17.8%	0	0	0.0%	0	0	0.0%	18,865	21,212	-11.1%
LLS (ARGUS) CALENDAR SWAP	XA	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
LLS (ARGUS) VS WTI SWAP	WJ	0	0	0.0%	0	0	0	8,239	2,872	186.9%	0	0	0.0%	15	0	0.0%	55,945	66,943	-16.4%
MARS (ARGUS) VS WTI SWAP	YX	0	0	0.0%	0	0	0	1,370	6,939	-80.3%	0	0	0.0%	70	0	0.0%	33,949	47,761	-28.9%
MARS (ARGUS) VS WTI TRD M	YV	0	0	0.0%	150	0	0	37,937	7,851	383.2%	0	0	0.0%	950	0	0.0%	233,766	125,898	85.7%
MARS BLEND CRUDE OIL	MB	0	0	0.0%	0	0	0	1,000	2,832	-64.7%	0	0	0.0%	200	0	0.0%	14,768	18,856	-21.7%
MCCLOSKEY ARA ARGS COAL	MTF	0	0	0.0%	0	0	0	28,239	104,385	-72.9%	0	0	0.0%	0	0	0.0%	481,972	1,744,224	-72.4%
MCCLOSKEY RCH BAY COAL	MFF	0	0	0.0%	0	0	0	2,635	12,728	-79.3%	0	0	0.0%	0	0	0.0%	52,976	182,615	-71.0%
MGF FUT	MGF	0	0	0.0%	0	0	0	30	0	0.0%	0	0	0.0%	0	0	0.0%	316	100	216.0%
MGN1 SWAP FUT	MGN	0	0	0.0%	0	0	0	70	122	-42.6%	0	0	0.0%	0	0	0.0%	1,074	1,549	-30.7%
MICHCON NG INDEX SWAP	Y8	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	2,200	-100.0%
MICHIGAN BASIS	NF	0	0	0.0%	0	273	-1	156	1,337	-88.3%	0	0	0.0%	0	1,039	-100.0%	2,748	25,334	-89.2%
MICHIGAN MISO	HMO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	106,440	127,640	-16.6%
MICHIGAN MISO	HMW	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	5,730	7,240	-20.9%
MINI GAS EUROBOB OXY NWE	MEB	0	0	0.0%	0	0	0	195	503	-61.2%	0	0	0.0%	0	0	0.0%	4,710	4,739	-0.6%
MINI RBOB V. EBOBARG NWE B	MXR	0	0	0.0%	0	0	0	90	1,405	-93.6%	0	0	0.0%	0	0	0.0%	5,726	3,841	49.1%
MINI RBOB V. EBOB(ARGUS) N	MXB	0	0	0.0%	0	0	0	1,503	2,988	-49.7%	0	0	0.0%	0	0	0.0%	24,633	17,186	43.3%
MJB FUT	MJB	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
MJC FUT	MJC	0	0	0.0%	0	0	0	115	20	475.0%	0	0	0.0%	0	0	0.0%	1,305	895	45.8%
MNC FUT	MNC	0	0	0.0%	0	0	0	2,750	4,970	-44.7%	0	0	0.0%	0	0	0.0%	43,845	43,793	0.1%
MONT BELVIEU ETHANE 5 DECI	CO	0	0	0.0%	0	0	0	12,620	50,880	-75.2%	0	0	0.0%	0	0	0.0%	242,042	539,175	-55.1%
MONT BELVIEU ETHANE OPIS E	8C	0	0	0.0%	0	0	0	180	75	140.0%	0	0	0.0%	0	0	0.0%	2,870	1,545	85.8%
MONT BELVIEU LDH PROPANE	BO	0	0	0.0%	74	0	0	101,125	101,228	-0.1%	0	0	0.0%	401	158	153.8%	1,021,210	1,259,501	-18.9%
MONT BELVIEU LDH PROPANE	8O	0	0	0.0%	0	0	0	1,113	603	84.6%	0	0	0.0%	0	0	0.0%	18,034	9,785	84.3%
MONT BELVIEU NATURAL GAS	7Q	0	0	0.0%	0	0	0	15,730	6,686	135.3%	0	0	0.0%	20	0	0.0%	63,786	86,896	-26.6%
MONT BELVIEU NATURAL GAS	RO	0	0	0.0%	0	0	0	480	20	2,300.0%	0	0	0.0%	0	0	0.0%	3,344	1,781	87.8%

NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator	Open Outcry NOV 2017	Open Outcry NOV 2016	% CHG	ELEC NOV 2017	ELEC NOV 2016	% CHG	CME ClearPort NOV 2017	CME ClearPort NOV 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG	CME ClearPort Y.T.D 2017	CME ClearPort Y.T.D 2016	% CHG	
Energy Futures																			
MONT BELVIEU NORMAL BUTA	D0	0	0	0.0%	0	0	0	42,791	35,273	21.3%	0	0	0.0%	0	0	0.0%	327,670	307,038	6.7%
MONT BELVIEU NORMAL BUTA	8J	0	0	0.0%	0	0	0	584	357	63.6%	0	0	0.0%	0	0	0.0%	7,740	6,475	19.5%
NAT GAS BASIS SWAP	SGW	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
NAT GAS BASIS SWAP	TZ6	0	0	0.0%	0	0	0	422	1,898	-77.8%	0	0	0.0%	0	0	0.0%	2,587	37,208	-93.0%
NATURAL GAS	HBI	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	3,540	-100.0%
NATURAL GAS	XIC	0	-	-	0	-	0	0	-	-	0	-	0	-	-	0	44	-	-
NATURAL GAS	XSC	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
NATURAL GAS FIXED PRICE S	CFS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
NATURAL GAS FIXED PRICE S	DSF	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	360	0	0.0%
NATURAL GAS FIXED PRICE S	MFS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
NATURAL GAS FIXED PRICE S	PFS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
NATURAL GAS FIXED PRICE S	WFS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
NATURAL GAS FIXED PRICE S	Z5P	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
NATURAL GAS FIXED PRICE S	ZTS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
NATURAL GAS INDEX	TZI	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	656	6,702	-90.2%
NATURAL GAS PEN SWP	NP	0	0	0.0%	0	0	0	84,159	145,941	-42.3%	0	92	-100.0%	62	0	0.0%	925,745	1,227,675	-24.6%
NEPOOL CNCTCT 5MW D AH O	P3	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	11,925	-100.0%
NEPOOL CONECTIC 5MW D AH	P2	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	635	-100.0%
NEPOOL INTR HUB 5MW D AH	H2	0	0	0.0%	0	0	0	0	28,690	-100.0%	0	0	0.0%	0	0	0.0%	235,140	511,929	-54.1%
NEPOOL INTR HUB 5MW D AH	U6	0	0	0.0%	0	0	0	0	255	-100.0%	0	0	0.0%	0	0	0.0%	17,275	44,360	-61.1%
NEPOOL NE MASS 5MW D AH O	P8	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	14,040	0	0.0%
NEPOOL NE MASS 5MW D AH P	P7	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	765	640	19.5%
NEPOOL NEW HAMP 5MW D AH	U2	0	0	0.0%	0	0	0	0	0	0.0%	0	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%	0	0	0.0%	0	0	0.0%	0	0	0.0%
NEPOOL RHD ISLD 5MW D AH	U4	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
NEPOOL RHODE IL 5MW D AH	U5	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
NEPOOL SE MASS 5MW D AH O	P5	0	0	0.0%	0	0	0	0	0	0.0%	0	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%	0	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	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	4,000	-100.0%
NEPOOL W CNTR M 5MW D AH	R6	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	1,685	-100.0%
NEW ENGLAND HUB PEAK DAIL	CE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
NEW YORK ETHANOL SWAP	EZ	0	0	0.0%	0	0	0	1,105	2,140	-48.4%	0	0	0.0%	0	0	0.0%	9,250	17,005	-45.6%
NEW YORK HUB ZONE G PEAK	GN	0	0	0.0%	0	0	0	0	0	0.0%	0	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%	0	0	0.0%	0	0	0.0%	0	0	0.0%

NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator	Open Outcry NOV 2017	Open Outcry NOV 2016	% CHG	ELEC NOV 2017	ELEC NOV 2016	% CHG	CME ClearPort NOV 2017	CME ClearPort NOV 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG	CME ClearPort Y.T.D 2017	CME ClearPort Y.T.D 2016	% CHG	
Energy Futures																			
NGPL MID-CONTINENT	NL	0	0	0.0%	0	0	0	600	372	61.3%	0	0	0.0%	0	0	0.0%	4,674	30,002	-84.4%
NGPL MIDCONTINENT INDEX	IW	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	7,841	-100.0%
NGPL MIDCONTINENT SWING S	PX	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	620	-100.0%
NGPL TEX/OK	PD	0	0	0.0%	0	0	0	1,080	3,028	-64.3%	0	0	0.0%	0	0	0.0%	9,214	31,992	-71.2%
NGPL TEXOK INDEX	OI	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	360	-100.0%
N ILLINOIS HUB DAILY	UD	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
N ILLINOIS HUB MTHLY	UM	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
NO 2 UP-DOWN SPREAD CALE	UT	0	0	0.0%	0	0	0	0	100	-100.0%	0	0	0.0%	0	0	0.0%	3,659	2,662	37.5%
NORTHEN NATURAL GAS DEM	PE	0	0	0.0%	0	0	0	0	54	-100.0%	0	0	0.0%	0	0	0.0%	0	3,989	-100.0%
NORTHEN NATURAL GAS VENT	PF	0	0	0.0%	0	0	0	48	481	-90.0%	0	0	0.0%	0	0	0.0%	132	9,216	-98.6%
NORTHERN ILLINOIS OFF-PEA	UO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
NORTHWEST ROCKIES BASIS S	NR	0	0	0.0%	0	1,033	-1	0	22,666	-100.0%	0	0	0.0%	0	3,848	-100.0%	3,088	177,264	-98.3%
N ROCKIES PIPE SWAP	XR	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	334	0	0.0%
NY1% VS GC SPREAD SWAP	VR	0	0	0.0%	0	0	0	1,505	2,590	-41.9%	0	0	0.0%	0	0	0.0%	23,477	26,248	-10.6%
NY 2.2% FUEL OIL (PLATTS	Y3	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	489	-100.0%
NY 3.0% FUEL OIL (PLATTS	H1	0	0	0.0%	0	0	0	0	175	-100.0%	0	0	0.0%	0	0	0.0%	3,260	2,300	41.7%
NY HARBOR 1% FUEL OIL BAL	VK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	25	101	-75.2%
NY HARBOR HEAT OIL SWP	MP	0	6	-100.0%	0	0	0	1,067	1,594	-33.1%	0	45	-100.0%	3	12	-75.0%	23,481	24,225	-3.1%
NY HARBOR LOW SULPUR GAS	NLS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	4,273	5,031	-15.1%
NY HARBOR RESIDUAL FUEL 1	MM	0	0	0.0%	0	0	0	780	2,036	-61.7%	0	0	0.0%	0	0	0.0%	26,062	37,490	-30.5%
NY HARBOR RESIDUAL FUEL C	ML	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
NYH NO 2 CRACK SPREAD CAL	HK	0	0	0.0%	0	0	0	420	1,670	-74.9%	0	0	0.0%	0	0	0.0%	14,034	21,772	-35.5%
NY H OIL PLATTS VS NYMEX	YH	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
NYISO A	KA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
NYISO A OFF-PEAK	KB	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
NYISO CAPACITY	LHV	0	0	0.0%	0	0	0	0	138	-100.0%	0	0	0.0%	0	0	0.0%	453	306	48.0%
NYISO CAPACITY	NNC	0	0	0.0%	0	0	0	0	132	-100.0%	0	0	0.0%	0	0	0.0%	2,306	1,905	21.0%
NYISO CAPACITY	NRS	0	0	0.0%	0	0	0	132	150	-12.0%	0	0	0.0%	0	0	0.0%	2,899	2,323	24.8%
NYISO G	KG	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
NYISO G OFF-PEAK	KH	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
NYISO J	KJ	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	172	-100.0%
NYISO J OFF-PEAK	KK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	80	-100.0%
NYISO ZONE A 5MW D AH O P	K4	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	32,760	239,365	-86.3%
NYISO ZONE A 5MW D AH PK	K3	0	0	0.0%	0	0	0	0	2,960	-100.0%	0	0	0.0%	0	0	0.0%	6,815	6,560	3.9%

NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator	Open Outcry NOV 2017	Open Outcry NOV 2016	% CHG	ELEC NOV 2017	ELEC NOV 2016	% CHG	CME ClearPort NOV 2017	CME ClearPort NOV 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG	CME ClearPort Y.T.D 2017	CME ClearPort Y.T.D 2016	% CHG	
Energy Futures																			
NYISO ZONE C 5MW D AH O P	A3	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	54,290	-100.0%	
NYISO ZONE C 5MW D AH PK	Q5	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	110	1,512	-92.7%	
NYISO ZONE G 5MW D AH O P	D2	0	0	0.0%	0	0	0	38,600	-100.0%	0	0	0.0%	0	0	0.0%	780,585	444,481	75.6%	
NYISO ZONE G 5MW D AH PK	T3	0	0	0.0%	0	0	2,560	1,280	100.0%	0	0	0.0%	0	0	0.0%	57,604	34,668	66.2%	
NYISO ZONE J 5MW D AH O P	D4	0	0	0.0%	0	0	0	38,600	-100.0%	0	0	0.0%	0	0	0.0%	226,600	195,471	15.9%	
NYISO ZONE J 5MW D AH PK	D3	0	0	0.0%	0	0	1,815	860	111.0%	0	0	0.0%	0	0	0.0%	26,790	14,431	85.6%	
NY JET FUEL (PLATTS) HEAT OI	1U	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	
NYMEX ALUMINUM FUTURES	AN	0	0	0.0%	0	0	0	0	0.0%	0	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	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	
NY ULSD (ARGUS) VS HEATING	7Y	0	0	0.0%	0	0	13	394	-96.7%	0	0	0.0%	0	0	0.0%	8,245	7,859	4.9%	
ONEOK OKLAHOMA NG BASIS	8X	0	0	0.0%	0	0	0	346	-100.0%	0	0	0.0%	0	0	0.0%	1,788	1,411	26.7%	
ONTARIO POWER SWAPS	OFD	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	160	-100.0%	
ONTARIO POWER SWAPS	OFM	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	3,750	-100.0%	
ONTARIO POWER SWAPS	OPD	0	0	0.0%	0	0	0	20	-100.0%	0	0	0.0%	0	0	0.0%	505	490	3.1%	
ONTARIO POWER SWAPS	OPM	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	650	440	47.7%	
PANHANDLE BASIS SWAP FUT	PH	0	0	0.0%	0	56	-1	0	9,000	-100.0%	0	0	0.0%	0	1,002	-100.0%	3,060	94,316	-96.8%
PANHANDLE INDEX SWAP FUT	IV	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	3,472	-100.0%	
PANHANDLE PIPE SWAP	XH	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	3,228	0	0.0%	
PERMIAN BASIS SWAP	PM	0	0	0.0%	0	0	0	16,424	-100.0%	0	0	0.0%	0	0	0.0%	1,381	61,222	-97.7%	
PETROCHEMICALS	22	0	0	0.0%	0	0	0	142	89	59.6%	0	0	0.0%	0	0	0.0%	923	554	66.6%
PETROCHEMICALS	32	0	0	0.0%	0	0	0	151	65	132.3%	0	0	0.0%	0	0	0.0%	1,201	666	80.3%
PETROCHEMICALS	8I	0	0	0.0%	0	0	0	448	300	49.3%	0	0	0.0%	0	0	0.0%	6,546	2,822	132.0%
PETROCHEMICALS	91	0	0	0.0%	0	0	0	837	143	485.3%	0	0	0.0%	0	0	0.0%	3,090	1,825	69.3%
PETROCHEMICALS	HPE	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	48	-100.0%	
PETROCHEMICALS	JKM	0	-	-	0	-	-	165	-	-	0	-	0	-	-	725	-	-	
PETROCHEMICALS	LPE	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	
PETROCHEMICALS	MAC	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	50	110	-54.5%	
PETROCHEMICALS	MAE	0	0	0.0%	0	0	0	90	0	0.0%	0	0	0.0%	0	0	0.0%	500	445	12.4%
PETROCHEMICALS	MAS	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	375	990	-62.1%	
PETROCHEMICALS	MBE	0	0	0.0%	0	0	0	180	1,380	-87.0%	0	0	0.0%	0	0	0.0%	12,240	30,680	-60.1%
PETROCHEMICALS	MNB	0	0	0.0%	0	0	0	2,021	1,697	19.1%	0	0	0.0%	0	0	0.0%	19,235	21,347	-9.9%
PETROCHEMICALS	MPS	0	-	-	0	-	-	60	-	-	0	-	0	-	-	100	-	-	
PETRO CRCKS & SPRDS ASIA	JNC	0	-	-	0	-	-	0	-	-	0	-	0	-	-	150	-	-	
PETRO CRCKS & SPRDS ASIA	STI	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	182	1,050	-82.7%	

NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator	Open Outcry NOV 2017	Open Outcry NOV 2016	% CHG	ELEC NOV 2017	ELEC NOV 2016	% CHG	CME ClearPort NOV 2017	CME ClearPort NOV 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG	CME ClearPort Y.T.D 2017	CME ClearPort Y.T.D 2016	% CHG	
Energy Futures																			
PETRO CRCKS & SPRDS ASIA	STR	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	264	64	312.5%	
PETRO CRCKS & SPRDS ASIA	STS	0	0	0.0%	0	0	378	150	152.0%	0	0	0.0%	0	0	0.0%	1,688	230	633.9%	
PETRO CRCKS & SPRDS NA	CRB	0	0	0.0%	0	0	350	20	1,650.0%	0	0	0.0%	0	0	0.0%	2,780	1,209	129.9%	
PETRO CRCKS & SPRDS NA	EXR	0	0	0.0%	0	0	2,090	3,440	-39.2%	0	0	0.0%	0	0	0.0%	27,091	18,063	50.0%	
PETRO CRCKS & SPRDS NA	FOC	0	0	0.0%	0	0	150	1,150	-87.0%	0	0	0.0%	0	0	0.0%	7,203	11,155	-35.4%	
PETRO CRCKS & SPRDS NA	GBB	0	0	0.0%	0	0	1,275	250	410.0%	0	0	0.0%	0	0	0.0%	12,903	2,640	388.8%	
PETRO CRCKS & SPRDS NA	GCC	0	0	0.0%	0	0	0	475	-100.0%	0	0	0.0%	0	0	0.0%	1,310	2,500	-47.6%	
PETRO CRCKS & SPRDS NA	GCI	0	0	0.0%	0	0	350	1,919	-81.8%	0	0	0.0%	0	0	0.0%	10,598	13,487	-21.4%	
PETRO CRCKS & SPRDS NA	GCM	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	59	66	-10.6%	
PETRO CRCKS & SPRDS NA	GCU	0	0	0.0%	0	0	9,956	8,730	14.0%	0	0	0.0%	0	0	0.0%	65,632	81,365	-19.3%	
PETRO CRCKS & SPRDS NA	GFC	0	0	0.0%	0	0	0	250	-100.0%	0	0	0.0%	0	0	0.0%	535	379	41.2%	
PETRO CRCKS & SPRDS NA	HOB	0	0	0.0%	0	0	3,207	455	604.8%	0	0	0.0%	0	0	0.0%	32,936	35,364	-6.9%	
PETRO CRCKS & SPRDS NA	KSD	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	75	0	0.0%	
PETRO CRCKS & SPRDS NA	MFR	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	30	-100.0%	
PETRO CRCKS & SPRDS NA	NFG	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	109	1,008	-89.2%	
PETRO CRCKS & SPRDS NA	NYF	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	1,125	490	129.6%	
PETRO CRCKS & SPRDS NA	NYH	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	450	-100.0%	
PETRO CRCKS & SPRDS NA	RBB	0	0	0.0%	0	0	6,552	13,296	-50.7%	0	0	0.0%	0	0	0.0%	84,679	115,250	-26.5%	
PETRO CRCKS & SPRDS NA	RVG	0	0	0.0%	0	0	15,915	15,510	2.6%	0	0	0.0%	0	0	0.0%	173,227	98,378	76.1%	
PETRO CRCKS & SPRDS NA	SF3	0	0	0.0%	0	0	0	30	-100.0%	0	0	0.0%	0	0	0.0%	15	64	-76.6%	
PETRO CRK&SPRD EURO	1NB	0	0	0.0%	0	0	645	1,293	-50.1%	0	0	0.0%	0	0	0.0%	13,219	17,687	-25.3%	
PETRO CRK&SPRD EURO	1ND	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	425	0	0.0%	
PETRO CRK&SPRD EURO	43	0	0	0.0%	0	0	141	7	1,914.3%	0	0	0.0%	0	0	0.0%	3,496	2,156	62.2%	
PETRO CRK&SPRD EURO	BFR	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	
PETRO CRK&SPRD EURO	BOB	0	0	0.0%	0	0	1,325	5,655	-76.6%	0	0	0.0%	0	0	0.0%	19,524	27,463	-28.9%	
PETRO CRK&SPRD EURO	EGB	0	-	-	0	-	0	-	-	0	-	-	0	-	-	5	-	-	
PETRO CRK&SPRD EURO	EGN	0	-	-	0	-	0	-	-	0	-	-	0	-	-	18	-	-	
PETRO CRK&SPRD EURO	EOB	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	127	97	30.9%	
PETRO CRK&SPRD EURO	EPN	0	0	0.0%	0	0	1,099	435	152.6%	0	0	0.0%	0	0	0.0%	5,759	2,908	98.0%	
PETRO CRK&SPRD EURO	EVC	0	0	0.0%	0	0	3,454	4,370	-21.0%	0	0	0.0%	0	0	0.0%	26,811	21,125	26.9%	
PETRO CRK&SPRD EURO	FBT	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	480	-100.0%	
PETRO CRK&SPRD EURO	FVB	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	
PETRO CRK&SPRD EURO	GCB	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	739	1,130	-34.6%	
PETRO CRK&SPRD EURO	GOC	0	0	0.0%	0	0	0	30	-100.0%	0	0	0.0%	0	0	0.0%	120	129	-7.0%	

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NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator	Open Outcry NOV 2017	Open Outcry NOV 2016	% CHG	ELEC NOV 2017	ELEC NOV 2016	% CHG	CME ClearPort NOV 2017	CME ClearPort NOV 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG	CME ClearPort Y.T.D 2017	CME ClearPort Y.T.D 2016	% CHG	
Energy Futures																			
PETRO CRK&SPRD EURO	LSU	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
PETRO CRK&SPRD EURO	MGB	0	0	0.0%	0	0	0	80	0	0.0%	0	0	0.0%	0	0	0.0%	150	40	275.0%
PETRO CRK&SPRD EURO	MUD	0	0	0.0%	0	0	0	10	32	-68.8%	0	0	0.0%	0	0	0.0%	898	1,231	-27.1%
PETRO CRK&SPRD EURO	NBB	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	134	198	-32.3%
PETRO CRK&SPRD EURO	NOB	0	0	0.0%	0	0	0	1,125	1,078	4.4%	0	0	0.0%	0	0	0.0%	11,950	5,908	102.3%
PETRO CRK&SPRD EURO	SFB	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	178	165	7.9%
PETRO CRK&SPRD EURO	SFC	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
PETROLEUM PRODUCTS	D44	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
PETROLEUM PRODUCTS	D45	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
PETROLEUM PRODUCTS	D46	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	30	-100.0%
PETROLEUM PRODUCTS	D64	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
PETROLEUM PRODUCTS	D65	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
PETROLEUM PRODUCTS	EWB	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
PETROLEUM PRODUCTS	EWG	0	0	0.0%	0	0	0	5,425	6,693	-18.9%	0	0	0.0%	0	0	0.0%	30,049	18,652	61.1%
PETROLEUM PRODUCTS	MBS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	80	559	-85.7%
PETROLEUM PRODUCTS	MGS	0	-	-	0	-	0	-	-	-	0	-	-	0	-	-	20	-	-
PETROLEUM PRODUCTS	MHE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	30	-100.0%
PETROLEUM PRODUCTS	MME	0	-	-	0	-	30	-	-	0	-	-	0	-	-	50	-	-	
PETROLEUM PRODUCTS	MPE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	100	1,363	-92.7%
PETROLEUM PRODUCTS	VU	0	0	0.0%	0	0	0	0	129	-100.0%	0	0	0.0%	0	0	0.0%	3,014	3,727	-19.1%
PETROLEUM PRODUCTS ASIA	E6M	0	0	0.0%	0	0	0	20	0	0.0%	0	0	0.0%	0	0	0.0%	242	467	-48.2%
PETROLEUM PRODUCTS ASIA	MJN	0	0	0.0%	0	0	0	1,022	1,733	-41.0%	0	0	0.0%	0	0	0.0%	19,395	14,678	32.1%
PETROLEUM PRODUCTS ASIA	MSB	0	-	-	0	-	0	-	-	0	-	-	0	-	-	45	-	-	
PETRO OUTRIGHT EURO	0A	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
PETRO OUTRIGHT EURO	0B	0	0	0.0%	0	0	0	50	50	0.0%	0	0	0.0%	0	0	0.0%	163	1,420	-88.5%
PETRO OUTRIGHT EURO	0C	0	0	0.0%	0	0	0	40	20	100.0%	0	0	0.0%	0	0	0.0%	70	221	-68.3%
PETRO OUTRIGHT EURO	0D	0	0	0.0%	0	0	0	1,804	4,713	-61.7%	0	0	0.0%	0	0	0.0%	25,276	44,700	-43.5%
PETRO OUTRIGHT EURO	0E	0	0	0.0%	0	0	0	8	1,446	-99.4%	0	0	0.0%	0	0	0.0%	4,104	10,909	-62.4%
PETRO OUTRIGHT EURO	0F	0	0	0.0%	0	0	0	433	1,335	-67.6%	0	0	0.0%	0	0	0.0%	11,273	14,031	-19.7%
PETRO OUTRIGHT EURO	1T	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	102	20	410.0%
PETRO OUTRIGHT EURO	33	0	0	0.0%	0	0	0	0	12	-100.0%	0	0	0.0%	0	0	0.0%	80	351	-77.2%
PETRO OUTRIGHT EURO	5L	0	0	0.0%	0	0	0	0	307	-100.0%	0	0	0.0%	0	0	0.0%	709	2,159	-67.2%
PETRO OUTRIGHT EURO	63	0	0	0.0%	0	0	0	10	160	-93.8%	0	0	0.0%	0	0	0.0%	777	1,605	-51.6%
PETRO OUTRIGHT EURO	6L	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	7	0	0.0%

NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator	Open Outcry NOV 2017	Open Outcry NOV 2016	% CHG	ELEC NOV 2017	ELEC NOV 2016	% CHG	CME ClearPort NOV 2017	CME ClearPort NOV 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG	CME ClearPort Y.T.D 2017	CME ClearPort Y.T.D 2016	% CHG	
Energy Futures																			
PETRO OUTRIGHT EURO	7I	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	1,157	1,513	-23.5%	
PETRO OUTRIGHT EURO	7P	-	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%	
PETRO OUTRIGHT EURO	7R	0	0.0%	0	0	0	145	539	-73.1%	0	0	0.0%	0	0	0.0%	2,505	3,280	-23.6%	
PETRO OUTRIGHT EURO	88	0	0.0%	0	0	0	15	0	0.0%	0	0	0.0%	0	0	0.0%	75	55	36.4%	
PETRO OUTRIGHT EURO	CBB	0	0.0%	0	0	0	10	30	-66.7%	0	0	0.0%	0	0	0.0%	52	30	73.3%	
PETRO OUTRIGHT EURO	CGB	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	50	6	733.3%	
PETRO OUTRIGHT EURO	CPB	0	0.0%	0	0	0	5	423	-98.8%	0	0	0.0%	0	0	0.0%	2,853	1,422	100.6%	
PETRO OUTRIGHT EURO	EFF	0	0.0%	0	0	0	0	33	-100.0%	0	0	0.0%	0	0	0.0%	310	534	-41.9%	
PETRO OUTRIGHT EURO	EFM	0	0.0%	0	0	0	0	8	-100.0%	0	0	0.0%	0	0	0.0%	453	673	-32.7%	
PETRO OUTRIGHT EURO	ENS	0	0.0%	0	0	0	0	10	-100.0%	0	0	0.0%	0	0	0.0%	180	1,171	-84.6%	
PETRO OUTRIGHT EURO	ESB	0	-	-	0	-	0	-	-	0	-	-	0	-	-	69	-	-	
PETRO OUTRIGHT EURO	EWN	0	0.0%	0	0	0	385	349	10.3%	0	0	0.0%	0	0	0.0%	7,491	2,070	261.9%	
PETRO OUTRIGHT EURO	FBD	0	0.0%	0	0	0	0	20	-100.0%	0	0	0.0%	0	0	0.0%	20	40	-50.0%	
PETRO OUTRIGHT EURO	MBB	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	550	84	554.8%	
PETRO OUTRIGHT EURO	MBN	0	0.0%	0	0	0	595	901	-34.0%	0	0	0.0%	0	0	0.0%	11,086	16,268	-31.9%	
PETRO OUTRIGHT EURO	SMU	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	40	340	-88.2%	
PETRO OUTRIGHT EURO	T0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	164	1,328	-87.7%	
PETRO OUTRIGHT EURO	ULB	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	375	490	-23.5%	
PETRO OUTRIGHT EURO	V0	0	0.0%	0	0	0	0	135	-100.0%	0	0	0.0%	0	0	0.0%	150	240	-37.5%	
PETRO OUTRIGHT EURO	W0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	50	-100.0%	
PETRO OUTRIGHT EURO	X0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	150	-100.0%	
PETRO OUTRIGHT EURO	Y0	-	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%	
PETRO OUTRIGHT NA	FCB	0	0.0%	0	0	0	0	64	-100.0%	0	0	0.0%	0	0	0.0%	1,836	2,662	-31.0%	
PETRO OUTRIGHT NA	FOB	-	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%	
PETRO OUTRIGHT NA	FOM	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	50	8	525.0%	
PETRO OUTRIGHT NA	GBA	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	8	-100.0%	
PETRO OUTRIGHT NA	GUD	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	13	-100.0%	
PETRO OUTRIGHT NA	JE	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	420	439	-4.3%	
PETRO OUTRIGHT NA	JET	0	0.0%	0	0	0	2,726	10,203	-73.3%	0	0	0.0%	0	0	0.0%	44,086	55,908	-21.1%	
PETRO OUTRIGHT NA	JTB	0	-	-	0	-	375	-	-	0	-	-	0	-	-	3,813	-	-	
PETRO OUTRIGHT NA	MBL	0	0.0%	0	0	0	0	91	-100.0%	0	0	0.0%	0	0	0.0%	266	325	-18.2%	
PETRO OUTRIGHT NA	MEN	0	0.0%	0	0	0	591	669	-11.7%	0	0	0.0%	0	0	0.0%	6,548	6,948	-5.8%	
PETRO OUTRIGHT NA	MEO	0	0.0%	0	0	0	2,753	9,904	-72.2%	0	0	0.0%	0	0	0.0%	91,604	112,771	-18.8%	
PETRO OUTRIGHT NA	MFD	0	0.0%	0	0	0	0	33	-100.0%	0	0	0.0%	0	0	0.0%	203	1,091	-81.4%	

NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator	Open Outcry NOV 2017	Open Outcry NOV 2016	% CHG	ELEC NOV 2017	ELEC NOV 2016	% CHG	CME ClearPort NOV 2017	CME ClearPort NOV 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG	CME ClearPort Y.T.D 2017	CME ClearPort Y.T.D 2016	% CHG
Energy Futures																		
PETRO OUTRIGHT NA	MMF	0	0	0.0%	0	0	0	290	-100.0%	0	0	0.0%	0	0	0.0%	510	1,876	-72.8%
PETRO OUTRIGHT NA	NYT	0	0	0.0%	0	0	0	125	-100.0%	0	0	0.0%	0	0	0.0%	625	225	177.8%
PETRO OUTRIGHT NA	XER	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
PJM AD HUB 5MW REAL TIME	V3	0	0	0.0%	0	0	14,880	22,800	-34.7%	0	0	0.0%	0	0	0.0%	288,349	1,270,058	-77.3%
PJM AD HUB 5MW REAL TIME	Z9	0	0	0.0%	0	0	0	4,240	-100.0%	0	0	0.0%	0	0	0.0%	22,831	104,554	-78.2%
PJM AECO DA OFF-PEAK	X1	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
PJM AECO DA PEAK	Y1	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
PJM APS ZONE DA OFF-PEAK	W4	0	0	0.0%	0	0	0	0	0.0%	0	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	0	0.0%	0	0	0.0%	0	0	0.0%
PJM ATSI ELEC	MOD	0	0	0.0%	0	0	0	27,690	-100.0%	0	0	0.0%	0	0	0.0%	46,800	33,695	38.9%
PJM ATSI ELEC	MPD	0	0	0.0%	0	0	0	1,480	-100.0%	0	0	0.0%	0	0	0.0%	2,550	1,795	42.1%
PJM BGE DA OFF-PEAK	R3	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	23,400	-100.0%
PJM BGE DA PEAK	E3	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	1,275	-100.0%
PJM COMED 5MW D AH O PK	D9	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	85,390	257,480	-66.8%
PJM COMED 5MW D AH PK	D8	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	4,675	14,650	-68.1%
PJM DAILY	JD	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	1,300	-100.0%
PJM DAYTON DA OFF-PEAK	R7	0	0	0.0%	0	0	0	27,690	-100.0%	0	0	0.0%	0	0	0.0%	211,995	55,000	285.4%
PJM DAYTON DA PEAK	D7	0	0	0.0%	0	0	0	1,480	-100.0%	0	0	0.0%	0	0	0.0%	5,250	23,423	-77.6%
PJM DUQUESNE 5MW D AH PK	D5	-	0	0.0%	-	0	-	0	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	0.0%	-	0	0.0%
PJM JCPL DA OFF-PEAK	F2	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
PJM JCPL DA PEAK	J2	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
PJM NI HUB 5MW REAL TIME	B3	0	0	0.0%	0	0	200	5,285	-96.2%	0	0	0.0%	0	0	0.0%	79,300	75,314	5.3%
PJM NI HUB 5MW REAL TIME	B6	0	0	0.0%	0	0	19,120	237,875	-92.0%	0	0	0.0%	0	0	0.0%	1,719,650	1,888,577	-8.9%
PJM NILL DA OFF-PEAK	L3	0	0	0.0%	0	0	1,944	190,515	-99.0%	0	0	0.0%	0	0	0.0%	689,738	1,074,692	-35.8%
PJM NILL DA PEAK	N3	0	0	0.0%	0	0	160	3,825	-95.8%	0	0	0.0%	0	0	0.0%	39,492	47,480	-16.8%
PJM OFF-PEAK LMP SWAP FUT	JP	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	140	-100.0%
PJM PECO ZONE5MW PEAK CA	4N	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
PJM PEPKO DA OFF-PEAK	Q8	-	0	0.0%	-	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
PJM PPL DA OFF-PEAK	F5	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
PJM PPL DA PEAK	L5	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
PJM PSEG DA OFF-PEAK	W6	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	163,800	-100.0%
PJM PSEG DA PEAK	L6	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	5,100	-100.0%
PJM WES HUB PEAK LMP 50 M	4S	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%

NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator	Open Outcry NOV 2017	Open Outcry NOV 2016	% CHG	ELEC NOV 2017	ELEC NOV 2016	% CHG	CME ClearPort NOV 2017	CME ClearPort NOV 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG	CME ClearPort Y.T.D 2017	CME ClearPort Y.T.D 2016	% CHG	
Energy Futures																			
PJM WESTH DA OFF-PEAK	E4	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	54,300	825,010	-93.4%	
PJM WESTHDA PEAK	J4	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	8,620	45,673	-81.1%	
PJM WESTH RT OFF-PEAK	N9	0	0	0.0%	0	0	0	27,120	93,200	-70.9%	0	0	0.0%	0	0	0.0%	2,185,415	6,185,140	-64.7%
PJM WESTH RT PEAK	L1	0	0	0.0%	0	0	0	4,600	35,499	-87.0%	0	0	0.0%	0	0	0.0%	208,591	616,215	-66.1%
PLASTICS	PGP	0	0	0.0%	0	0	0	270	1,520	-82.2%	0	0	0.0%	0	0	0.0%	5,984	4,879	22.6%
PREMIUM UNLD 10P FOB MED	3G	0	0	0.0%	0	0	0	193	164	17.7%	0	0	0.0%	0	0	0.0%	864	2,791	-69.0%
PREMIUM UNLEAD 10PPM FOB	8G	0	0	0.0%	0	0	0	10	5	100.0%	0	0	0.0%	0	0	0.0%	162	359	-54.9%
PREM UNL GAS 10PPM RDAM F	7N	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	7	7	0.0%
PREM UNL GAS 10PPM RDAM F	7L	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	37	274	-86.5%
PROPANE NON-LDH MB (OPIS)	1S	0	0	0.0%	0	0	0	0	112	-100.0%	0	0	0.0%	0	0	0.0%	4,927	5,847	-15.7%
PROPANE NON-LDH MT. BEL (O	1R	0	0	0.0%	0	0	0	9,825	17,903	-45.1%	0	0	0.0%	0	0	0.0%	78,535	126,702	-38.0%
RBOB CALENDAR SWAP	RL	0	0	0.0%	0	0	0	7,924	6,207	27.7%	0	0	0.0%	5	0	0.0%	79,933	73,259	9.1%
RBOB CRACK SPREAD	RM	0	0	0.0%	0	0	0	650	550	18.2%	0	0	0.0%	0	0	0.0%	10,807	15,325	-29.5%
RBOB CRACK SPREAD BALMO	1E	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	350	-100.0%
RBOB GASOLINE BALMO CLND	1D	0	0	0.0%	0	0	0	815	1,501	-45.7%	0	0	0.0%	0	0	0.0%	10,365	8,497	22.0%
RBOB PHY	RBL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
RBOB (PLATTS) CAL SWAP	RY	0	0	0.0%	0	0	0	0	297	-100.0%	0	0	0.0%	0	0	0.0%	0	297	-100.0%
RBOB SPREAD (PLATTS) SWAP	RI	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
RBOB UP-DOWN CALENDAR S	RV	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	9,203	-100.0%
RBOB VS HEATING OIL SWAP	RH	0	0	0.0%	0	0	0	200	1,758	-88.6%	0	0	0.0%	0	0	0.0%	17,070	17,530	-2.6%
ROCKIES KERN OPAL - NW IN	IR	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	1,046	-100.0%
SAN JUAN BASIS SWAP	NJ	0	0	0.0%	0	0	0	0	6,677	-100.0%	0	0	0.0%	0	0	0.0%	2,254	75,958	-97.0%
SAN JUAN PIPE SWAP	XX	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
SINGAPORE 180CST BALMO	BS	0	0	0.0%	0	0	0	110	24	358.3%	0	0	0.0%	0	0	0.0%	682	555	22.9%
SINGAPORE 380CST BALMO	BT	0	0	0.0%	0	0	0	373	402	-7.2%	0	0	0.0%	0	0	0.0%	2,528	1,759	43.7%
SINGAPORE 380CST FUEL OIL	SE	0	0	0.0%	0	0	0	8,298	13,863	-40.1%	0	0	0.0%	0	0	0.0%	105,852	88,748	19.3%
SINGAPORE FUEL 180CST CAL	UA	0	0	0.0%	0	0	0	849	1,319	-35.6%	0	0	0.0%	0	0	0.0%	11,375	12,703	-10.5%
SINGAPORE FUEL OIL SPREAD	SD	0	0	0.0%	0	0	0	145	1,263	-88.5%	0	0	0.0%	0	0	0.0%	6,943	7,287	-4.7%
SINGAPORE GASOIL	MTB	0	0	0.0%	0	0	0	30	585	-94.9%	0	0	0.0%	0	0	0.0%	1,520	2,727	-44.3%
SINGAPORE GASOIL	MTS	0	0	0.0%	0	0	0	4,382	4,778	-8.3%	0	0	0.0%	0	0	0.0%	52,537	42,339	24.1%
SINGAPORE GASOIL	STL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	100	-100.0%
SINGAPORE GASOIL	STZ	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	800	180	344.4%
SINGAPORE GASOIL CALEND	MSG	0	0	0.0%	0	0	0	493	0	0.0%	0	0	0.0%	0	0	0.0%	3,153	573	450.3%
SINGAPORE GASOIL SWAP	SG	0	0	0.0%	0	0	0	1,163	10,497	-88.9%	0	0	0.0%	36	0	0.0%	89,033	69,362	28.4%

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Commodity Indicator	Open Outcry NOV 2017	Open Outcry NOV 2016	% CHG	ELEC NOV 2017	ELEC NOV 2016	% CHG	CME ClearPort NOV 2017	CME ClearPort NOV 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG	CME ClearPort Y.T.D 2017	CME ClearPort Y.T.D 2016	% CHG	
Energy Futures																			
SINGAPORE GASOIL VS ICE	GA	0	0	0.0%	0	0	0	40	13,686	-99.7%	0	0	0.0%	0	0	0.0%	70,169	36,839	90.5%
SINGAPORE JET KERO BALMO	BX	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	536	156	243.6%
SINGAPORE JET KERO GASOIL	RK	0	0	0.0%	0	0	0	225	1,390	-83.8%	0	0	0.0%	0	0	0.0%	18,310	9,765	87.5%
SINGAPORE JET KEROSENE S	KS	0	0	0.0%	0	0	0	350	1,077	-67.5%	0	0	0.0%	0	0	0.0%	12,979	7,575	71.3%
SINGAPORE JET KERO VS. GAS	Z0	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	50	50	0.0%
SINGAPORE MOGAS 92 UNLEA	1P	0	0	0.0%	0	0	0	265	1,761	-85.0%	0	0	0.0%	0	0	0.0%	1,796	5,578	-67.8%
SINGAPORE MOGAS 92 UNLEA	1N	0	0	0.0%	0	0	0	9,249	25,558	-63.8%	0	0	0.0%	5	0	0.0%	81,956	107,948	-24.1%
SINGAPORE NAPHTHA BALMO	KU	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	20	-100.0%
SINGAPORE NAPHTHA SWAP	SP	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
SING FUEL	MSD	0	0	0.0%	0	0	0	50	35	42.9%	0	0	0.0%	0	0	0.0%	120	65	84.6%
SOCAL BASIS SWAP	NS	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
SOCAL PIPE SWAP	XN	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	5,864	-100.0%
SONAT BASIS SWAP FUTURE	SZ	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	368	-100.0%
SOUTHERN NAT LA NAT GAS	M8	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	612	-100.0%
SOUTH STAR TEX OKLHM KNS	8Z	0	0	0.0%	0	0	0	0	90	-100.0%	0	0	0.0%	0	0	0.0%	0	2,292	-100.0%
Sumas Basis Swap	NK	0	0	0.0%	0	0	0	0	2,423	-100.0%	0	0	0.0%	0	0	0.0%	6,238	18,059	-65.5%
SUMAS NAT GAS PLATTS FIXE	DVS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	306	0	0.0%
TC2 ROTTERDAM TO USAC 37K	TM	0	0	0.0%	0	0	0	80	0	0.0%	0	0	0.0%	0	0	0.0%	80	0	0.0%
TC5 RAS TANURA TO YOKOHA	TH	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	15	-100.0%
TCO BASIS SWAP	TC	0	0	0.0%	0	0	0	667	604	10.4%	0	0	0.0%	0	0	0.0%	8,949	33,676	-73.4%
TCO NG INDEX SWAP	Q1	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	240	-100.0%
TD3 MEG TO JAPAN 250K MT	TL	0	-	-	0	-	0	0	-	-	0	-	-	0	-	-	30	-	-
TENN 800 LEG NAT GAS INDE	L4	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	1,285	-100.0%
TENNESSEE 500 LEG BASIS S	NM	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	428	1,630	-73.7%
TENNESSEE 800 LEG NG BASI	6Z	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	1,526	-100.0%
TENNESSEE ZONE 0 BASIS SW	NQ	0	0	0.0%	0	0	0	484	0	0.0%	0	0	0.0%	0	0	0.0%	484	3,028	-84.0%
Tetco ELA Basis	TE	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
TETCO M-3 INDEX	IX	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	8,365	-100.0%
Tetco STX Basis	TX	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	1,611	-100.0%
TEXAS EASTERN ZONE M-3 BA	NX	0	0	0.0%	0	0	0	908	3,126	-71.0%	0	0	0.0%	0	31	-100.0%	9,512	83,137	-88.6%
TEXAS GAS ZONE1 NG BASIS	9F	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	248	-100.0%
TRANSCO ZONE 1 NG BASIS	8E	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
Transco Zone 3 Basis	CZ	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	302	1,032	-70.7%
TRANSCO ZONE 3 NG INDEX S	Y6	0	-	-	0	-	0	-	-	-	0	-	-	0	-	-	6,256	-	-

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Commodity Indicator	Open Outcry NOV 2017	Open Outcry NOV 2016	% CHG	ELEC NOV 2017	ELEC NOV 2016	% CHG	CME ClearPort NOV 2017	CME ClearPort NOV 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG	CME ClearPort Y.T.D 2017	CME ClearPort Y.T.D 2016	% CHG	
Energy Futures																			
TRANSCO ZONE4 BASIS SWAP	TR	0	0	0.0%	0	1,284	-1	0	2,972	-100.0%	0	0	0.0%	0	1,930	-100.0%	13,239	21,808	-39.3%
TRANSCO ZONE 4 NAT GAS IN	B2	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	465	1,457	-68.1%
TRANSCO ZONE 6 BASIS SWAP	NZ	0	0	0.0%	0	0	0	856	1,863	-54.1%	0	0	0.0%	0	0	0.0%	3,726	13,968	-73.3%
TRANSCO ZONE 6 INDEX	IT	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	856	6,742	-87.3%
TRANSCO ZONE 6 PIPE SWAP	XZ4	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
UCM FUT	UCM	0	0	0.0%	0	0	0	30	15	100.0%	0	0	0.0%	0	0	0.0%	295	343	-14.0%
ULSD 10PPM CIF MED BALMO	X7	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	38	-100.0%
ULSD 10PPM CIF MED SWAP	Z6	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	30	45	-33.3%
ULSD 10PPM CIF MED VS ICE	Z7	0	0	0.0%	0	0	0	15	15	0.0%	0	0	0.0%	0	0	0.0%	81	180	-55.0%
ULSD 10PPM CIF NW BALMO S	B1	0	-	-	0	-	0	-	-	-	0	-	-	0	-	-	6	-	-
ULSD 10PPM CIF VS ICE GAS	7V	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	35	-100.0%
ULSD UP-DOWN BALMO SWP	1L	0	0	0.0%	0	0	0	6,771	8,558	-20.9%	0	0	0.0%	0	0	0.0%	53,463	66,008	-19.0%
UP DOWN GC ULSD VS NMX H	LT	0	0	0.0%	0	0	0	41,802	53,661	-22.1%	0	0	0.0%	0	0	0.0%	516,471	583,452	-11.5%
USGC UNL 87 CRACK SPREAD	RU	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	175	-100.0%
VENTURA NAT GAS PLATTS FIX	DVA	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
WAHA BASIS	NW	0	0	0.0%	0	0	0	0	1,825	-100.0%	0	0	0.0%	0	0	0.0%	6,064	44,649	-86.4%
WAHA INDEX SWAP FUTURE	IY	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	8,728	-100.0%
WESTERN RAIL DELIVERY PRB	QP	0	0	0.0%	0	0	0	120	0	0.0%	0	0	0.0%	0	0	0.0%	2,520	9,237	-72.7%
WTI-BRENT BULLET SWAP	BY	0	0	0.0%	0	0	0	0	500	-100.0%	0	0	0.0%	0	0	0.0%	904	500	80.8%
WTI-BRENT CALENDAR SWAP	BK	0	0	0.0%	0	0	0	38,056	11,672	226.0%	0	0	0.0%	120	0	0.0%	209,302	127,116	64.7%
WTI CALENDAR	CS	0	0	0.0%	0	0	0	37,055	33,473	10.7%	0	1,069	-100.0%	0	0	0.0%	405,892	331,508	22.4%
WTS (ARGUS) VS WTI SWAP	FF	0	0	0.0%	0	0	0	6,022	3,720	61.9%	0	0	0.0%	0	0	0.0%	59,192	42,110	40.6%
WTS (ARGUS) VS WTI TRD MT	FH	0	0	0.0%	0	0	0	1,626	500	225.2%	0	0	0.0%	0	0	0.0%	9,936	12,208	-18.6%
Energy Options																			
12 MO GASOIL CAL SWAP SPR	GXZ	0	-	-	0	-	0	200	-	-	0	-	-	0	-	-	830	-	-
1 MO GASOIL CAL SWAP SPR	GXA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
APPALACHIAN COAL	6K	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
BRENT CALENDAR SWAP	BA	0	0	0.0%	0	0	0	0	105	-100.0%	0	0	0.0%	0	0	0.0%	5,347	13,533	-60.5%
BRENT CRUDE OIL 12 M CSO	9Y	0	-	-	0	-	0	0	-	-	0	-	-	0	-	-	2,000	-	-
BRENT OIL LAST DAY	BE	0	0	0.0%	0	0	0	1,709	7,000	-75.6%	0	3,000	-100.0%	0	0	0.0%	37,281	40,890	-8.8%
BRENT OIL LAST DAY	BZO	0	0	0.0%	26,233	7,304	2.59	42,207	31,400	34.4%	0	2,473	-100.0%	129,419	32,612	296.8%	336,835	191,313	76.1%

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Commodity Indicator	Open Outcry NOV 2017	Open Outcry NOV 2016	% CHG	ELEC NOV 2017	ELEC NOV 2016	% CHG	CME ClearPort NOV 2017	CME ClearPort NOV 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG	CME ClearPort Y.T.D 2017	CME ClearPort Y.T.D 2016	% CHG
Energy Options																		
BRENT OIL LAST DAY	OS	0	0	0.0%	48	0	0	0	0.0%	0	4,436	-100.0%	192	0	0.0%	3,700	7,798	-52.6%
COAL API2 INDEX	CLA	0	0	0.0%	0	0	0	325	-81.5%	0	0	0.0%	0	0	0.0%	10,208	53,993	-81.1%
COAL API2 INDEX	CQA	0	0	0.0%	0	0	0	20	0.0%	0	0	0.0%	0	0	0.0%	775	101,534	-99.2%
COAL API2 INDEX	MTC	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	50	150	-66.7%
COAL API4 INDEX	RLA	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	100	-100.0%
COAL API4 INDEX	RQA	0	0	0.0%	0	0	0	30	-50.0%	0	0	0.0%	0	0	0.0%	30	1,540	-98.1%
COAL SWAP	CPF	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	180	585	-69.2%
COAL SWAP	RPF	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	605	1,086	-44.3%
CRUDE OIL 1MO	WA	0	0	0.0%	62,490	50,567	0.24	156,650	-23.3%	0	100	-100.0%	385,190	641,476	-40.0%	1,594,989	2,115,210	-24.6%
CRUDE OIL APO	AO	0	39	-100.0%	65	0	0	65,300	207.6%	0	7,290	-100.0%	135	0	0.0%	545,083	316,693	72.1%
CRUDE OIL CALNDR STRIP	6F	-	0	0.0%	-	0	0	-	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
CRUDE OIL OUTRIGHTS	AH	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	2,290	-100.0%
CRUDE OIL OUTRIGHTS	DBP	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
CRUDE OIL OUTRIGHTS	WCI	0	-	-	0	-	0	-	-	0	-	-	0	-	-	11,770	-	-
CRUDE OIL PHY	CD	0	0	0.0%	0	0	0	2,140	9.7%	0	0	0.0%	25	0	0.0%	31,235	37,725	-17.2%
CRUDE OIL PHY	LC	0	305	-100.0%	0	7	-1	15,815	30.6%	0	12,144	-100.0%	13	8	62.5%	248,629	285,374	-12.9%
CRUDE OIL PHY	LO	0	2,190	-100.0%	3,320,547	3,734,003	-0.11	702,319	-47.2%	0	205,509	-100.0%	32,397,260	31,469,001	2.9%	8,166,309	9,848,004	-17.1%
CRUDE OIL PHY	LO1	0	0	0.0%	16,401	21,550	-0.24	0	-100.0%	0	1,350	-100.0%	159,009	74,750	112.7%	750	950	-21.1%
CRUDE OIL PHY	LO2	0	0	0.0%	26,199	4,228	5.2	0	0.0%	0	350	-100.0%	149,782	43,446	244.8%	250	400	-37.5%
CRUDE OIL PHY	LO3	0	0	0.0%	13,257	4,101	2.23	50	0.0%	0	1,215	-100.0%	95,792	30,650	212.5%	250	50	400.0%
CRUDE OIL PHY	LO4	0	0	0.0%	17,281	5,365	2.22	0	0.0%	0	1,750	-100.0%	179,251	47,973	273.6%	300	630	-52.4%
CRUDE OIL PHY	LO5	0	0	0.0%	0	0	0	0	0.0%	0	585	-100.0%	53,239	23,850	123.2%	250	700	-64.3%
DAILY CRUDE OIL	DNM	-	0	0.0%	-	0	0	-	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
ELEC FINSETTLED	PML	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	264	-100.0%
ELEC MISO PEAK	9T	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	820	3,420	-76.0%
ELECTRICITY OFF PEAK	N9P	-	0	0.0%	-	0	0	-	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
ETHANOL	CE1	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	75	25	200.0%
ETHANOL	CE3	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	325	25	1,200.0%
ETHANOL SWAP	CVR	0	0	0.0%	0	0	0	10,218	11.6%	0	0	0.0%	0	0	0.0%	67,303	73,411	-8.3%
ETHANOL SWAP	GVR	0	0	0.0%	0	0	0	78	-62.9%	0	0	0.0%	0	0	0.0%	1,658	3,668	-54.8%
EURO-DENOMINATED PETRO P	EFB	-	0	0.0%	-	0	0	-	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
EURO-DENOMINATED PETRO P	NWE	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
EUROPEAN JET KEROSENE N	30	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	60	-100.0%
GASOIL CRACK SPREAD AVG P	3U	-	0	0.0%	-	0	0	-	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%

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Commodity Indicator	Open Outcry NOV 2017	Open Outcry NOV 2016	% CHG	ELEC NOV 2017	ELEC NOV 2016	% CHG	CME ClearPort NOV 2017	CME ClearPort NOV 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG	CME ClearPort Y.T.D 2017	CME ClearPort Y.T.D 2016	% CHG	
Energy Options																			
GASOLINE	GCE	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	872	-100.0%	
HEATING OIL CRACK OPTIONS	CH	0	-	-	0	-	0	-	-	0	-	-	0	-	-	100	-	-	
HEATING OIL CRK SPD AVG PR	3W	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	300	-100.0%	
HEATING OIL PHY	LB	0	0	0.0%	0	0	0	0	0.0%	0	169	-100.0%	8	0	0.0%	2,720	60	4,433.3%	
HEATING OIL PHY	OH	0	591	-100.0%	4,252	7,511	-0.43	30,036	49,679	-39.5%	0	7,436	-100.0%	53,911	72,673	-25.8%	302,914	490,190	-38.2%
HENRY HUB FINANCIAL LAST	E7	0	0	0.0%	0	0	0	2,722	3,175	-14.3%	0	68	-100.0%	0	0	0.0%	41,398	23,463	76.4%
HO 1 MONTH CLNDR OPTIONS	FA	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	1,700	5,900	-71.2%	
HUSTN SHIP CHNL PIPE SWP	PK	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	
LLS CRUDE OIL	WJO	0	0	0.0%	0	0	0	1,800	0	0.0%	0	0	0.0%	0	0	0.0%	6,900	11,730	-41.2%
LLS CRUDE OIL	YVO	0	-	-	0	-	0	-	-	0	-	-	0	-	-	3,750	-	-	
MCCLOSKY ARA ARGS COAL	MTO	0	0	0.0%	0	0	0	150	0	0.0%	0	0	0.0%	0	0	0.0%	1,600	8,905	-82.0%
MCCLOSKY RCH BAY COAL	MFO	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	2,485	-100.0%	
NATURAL GAS	G10	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	450	500	-10.0%	
NATURAL GAS 12 M CSO FIN	G7	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
NATURAL GAS 1 M CSO FIN	G4	0	0	0.0%	0	0	0	42,765	32,990	29.6%	0	200	-100.0%	3,920	0	0.0%	427,074	113,884	275.0%
NATURAL GAS 2 M CSO FIN	G2	0	0	0.0%	0	0	0	2,000	680	194.1%	0	0	0.0%	0	0	0.0%	11,550	4,055	184.8%
NATURAL GAS 3 M CSO FIN	G3	0	0	0.0%	0	0	0	26,000	100	25,900.0%	0	250	-100.0%	0	0	0.0%	146,425	226,982	-35.5%
NATURAL GAS 5 M CSO FIN	G5	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	4,050	1,200	237.5%	
NATURAL GAS 6 M CSO FIN	G6	0	0	0.0%	0	0	0	6,600	3,600	83.3%	0	0	0.0%	0	0	0.0%	57,270	9,200	522.5%
NATURAL GAS OPTION ON CAL	6J	0	0	0.0%	0	0	0	2,900	6,900	-58.0%	0	0	0.0%	0	0	0.0%	12,670	25,708	-50.7%
NATURAL GAS PHY	KD	0	0	0.0%	37,557	26	1,443.5	15,230	28,795	-47.1%	0	0	0.0%	135,512	226	59,861.1%	320,305	348,736	-8.2%
NATURAL GAS PHY	LN	0	90	-100.0%	1,669,852	727,696	1.29	1,088,805	1,506,108	-27.7%	0	10,392	-100.0%	11,941,723	5,091,185	134.6%	12,979,849	16,401,369	-20.9%
NATURAL GAS PHY	ON	0	623	-100.0%	255,081	345,268	-0.26	7,862	12,739	-38.3%	0	12,059	-100.0%	2,145,533	3,011,342	-28.8%	78,922	87,173	-9.5%
NATURAL GAS PHY	ON1	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	2	-100.0%	0	0	0.0%
NATURAL GAS PHY	ON5	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
NG HH 3 MONTH CAL	IC	0	0	0.0%	0	0	0	0	0	0.0%	0	500	-100.0%	0	0	0.0%	0	0	0.0%
N ROCKIES PIPE SWAP	ZR	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	4,030	6,540	-38.4%
NY HARBOR HEAT OIL SWP	AT	0	55	-100.0%	26	9	1.89	2,847	3,198	-11.0%	0	1,627	-100.0%	509	15	3,293.3%	34,870	59,071	-41.0%
NYISO ZONE G 5MW PEAK OPT	9U	0	0	0.0%	0	0	0	0	10,740	-100.0%	0	0	0.0%	0	0	0.0%	19,830	11,160	77.7%
NYMEX EUROPEAN GASOIL AP	F7	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	30	-100.0%
NYMEX EUROPEAN GASOIL OP	F8	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
PANHANDLE PIPE SWAP	PU	0	-	-	0	-	0	0	-	0	-	-	0	-	-	8,640	-	-	
PETROCHEMICALS	4H	0	0	0.0%	8	5	0.6	635	200	217.5%	0	0	0.0%	16	15	6.7%	8,361	11,211	-25.4%
PETROCHEMICALS	4I	-	0	0.0%	-	0	0	-	0	0.0%	-	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.

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Commodity Indicator	Open Outcry NOV 2017	Open Outcry NOV 2016	% CHG	ELEC NOV 2017	ELEC NOV 2016	% CHG	CME ClearPort NOV 2017	CME ClearPort NOV 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG	CME ClearPort Y.T.D 2017	CME ClearPort Y.T.D 2016	% CHG	
Energy Options																			
PETROCHEMICALS	4J	0	0	0.0%	0	0	0	420	-100.0%	0	0	0.0%	0	0	0.0%	2,945	6,305	-53.3%	
PETROCHEMICALS	4K	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	1,200	1,560	-23.1%	
PETROCHEMICALS	CPR	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	18	520	-96.5%	
PETRO OUTRIGHT EURO	8H	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	300	0	0.0%	
PETRO OUTRIGHT NA	DAP	0	-	-	0	-	72	-	-	0	-	-	0	-	-	72	-	-	
PGE CITYGATE PIPE SWAP	CW	-	0	0.0%	-	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%	
PJM CALENDAR STRIP	6O	-	0	0.0%	-	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%	
PJM ELECTRIC	6OO	-	0	0.0%	-	0	-	0	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	0	0.0%	0	0	0.0%	0	0	0.0%	
PJM WES HUB PEAK CAL MTH	6OA	0	0	0.0%	0	0	0	340	-100.0%	0	0	0.0%	0	0	0.0%	3,960	1,090	263.3%	
PJM WES HUB PEAK CAL MTH	JOA	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	10,300	-100.0%	
PJM WES HUB PEAK LMP 50MW	PMA	0	0	0.0%	0	0	788	2,644	-70.2%	0	0	0.0%	0	0	0.0%	13,817	11,935	15.8%	
RBOB 1MO CAL SPD OPTIONS	ZA	0	0	0.0%	0	0	1,200	1,800	-33.3%	0	0	0.0%	0	0	0.0%	6,708	11,850	-43.4%	
RBOB CALENDAR SWAP	RA	0	0	0.0%	0	0	50	0	0.0%	0	50	-100.0%	10	0	0.0%	2,855	6,535	-56.3%	
RBOB PHY	OB	0	93	-100.0%	6,740	10,011	6,925	12,784	-45.8%	0	8,599	-100.0%	75,996	85,756	-11.4%	206,761	284,250	-27.3%	
RBOB PHY	RF	0	0	0.0%	0	0	175	40	337.5%	0	0	0.0%	0	0	0.0%	1,335	60	2,125.0%	
ROTTERDAM 3.5%FUEL OIL CL	Q6	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	520	-100.0%	
SAN JUAN PIPE SWAP	PJ	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	3,240	9,108	-64.4%	
SHORT TERM	U11	0	0	0.0%	0	0	0	955	-100.0%	0	0	0.0%	30	0	0.0%	5,940	3,205	85.3%	
SHORT TERM	U12	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	4,604	3,730	23.4%	
SHORT TERM	U13	0	0	0.0%	52	0	1,350	0	0.0%	0	0	0.0%	124	0	0.0%	3,835	4,261	-10.0%	
SHORT TERM	U14	0	0	0.0%	225	0	50	450	-88.9%	0	0	0.0%	225	0	0.0%	3,405	5,225	-34.8%	
SHORT TERM	U15	0	0	0.0%	0	0	500	300	66.7%	0	0	0.0%	25	0	0.0%	5,200	3,425	51.8%	
SHORT TERM	U22	0	0	0.0%	0	0	100	530	-81.1%	0	0	0.0%	25	0	0.0%	2,957	3,805	-22.3%	
SHORT TERM	U23	0	0	0.0%	0	0	0	500	-100.0%	0	0	0.0%	100	0	0.0%	1,572	2,180	-27.9%	
SHORT TERM	U24	0	0	0.0%	5	0	0	0	0.0%	0	0	0.0%	5	0	0.0%	3,220	2,080	54.8%	
SHORT TERM	U25	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	940	505	86.1%	
SHORT TERM	U26	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	292	1,580	-81.5%	
SHORT TERM CRUDE OIL	C02	-	0	0.0%	-	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%	
SHORT TERM NATURAL GAS	U01	0	0	0.0%	201	0	200	650	-69.2%	0	0	0.0%	201	0	0.0%	3,515	5,025	-30.0%	
SHORT TERM NATURAL GAS	U02	0	0	0.0%	100	0	375	700	-46.4%	0	0	0.0%	158	0	0.0%	3,800	4,200	-9.5%	
SHORT TERM NATURAL GAS	U03	0	0	0.0%	53	0	0	1,450	-100.0%	0	0	0.0%	53	0	0.0%	2,220	3,070	-27.7%	
SHORT TERM NATURAL GAS	U04	0	0	0.0%	0	0	0	625	-100.0%	0	0	0.0%	0	0	0.0%	1,170	5,000	-76.6%	
SHORT TERM NATURAL GAS	U05	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	35	0	0.0%	10,105	2,725	270.8%	

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Commodity Indicator	Open Outcry NOV 2017	Open Outcry NOV 2016	% CHG	ELEC NOV 2017	ELEC NOV 2016	% CHG	CME ClearPort NOV 2017	CME ClearPort NOV 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG	CME ClearPort Y.T.D 2017	CME ClearPort Y.T.D 2016	% CHG	
Energy Options																			
SHORT TERM NATURAL GAS	U06	0	0	0.0%	100	0	0	525	0	0.0%	0	0	0.0%	285	0	0.0%	8,385	2,905	188.6%
SHORT TERM NATURAL GAS	U07	0	0	0.0%	115	0	0	100	1,000	-90.0%	0	0	0.0%	115	0	0.0%	3,385	4,800	-29.5%
SHORT TERM NATURAL GAS	U08	0	0	0.0%	162	0	0	600	100	500.0%	0	0	0.0%	162	0	0.0%	5,070	3,322	52.6%
SHORT TERM NATURAL GAS	U09	0	0	0.0%	173	0	0	260	600	-56.7%	0	0	0.0%	314	0	0.0%	4,900	5,442	-10.0%
SHORT TERM NATURAL GAS	U10	0	0	0.0%	277	0	0	100	500	-80.0%	0	0	0.0%	277	0	0.0%	5,752	4,595	25.2%
SHORT TERM NATURAL GAS	U16	0	0	0.0%	115	0	0	450	250	80.0%	0	0	0.0%	390	0	0.0%	6,620	3,860	71.5%
SHORT TERM NATURAL GAS	U17	0	0	0.0%	33	0	0	925	450	105.6%	0	0	0.0%	43	0	0.0%	5,104	1,405	263.3%
SHORT TERM NATURAL GAS	U18	0	0	0.0%	0	0	0	0	200	-100.0%	0	0	0.0%	85	0	0.0%	1,612	3,055	-47.2%
SHORT TERM NATURAL GAS	U19	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	175	0	0.0%	4,385	1,530	186.6%
SHORT TERM NATURAL GAS	U20	0	0	0.0%	127	0	0	350	0	0.0%	0	0	0.0%	210	0	0.0%	3,795	1,430	165.4%
SHORT TERM NATURAL GAS	U21	0	0	0.0%	188	0	0	300	750	-60.0%	0	0	0.0%	188	0	0.0%	3,024	1,875	61.3%
SHORT TERM NATURAL GAS	U27	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	1,870	1,050	78.1%
SHORT TERM NATURAL GAS	U28	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	3,255	3,925	-17.1%
SHORT TERM NATURAL GAS	U29	0	0	0.0%	221	0	0	100	450	-77.8%	0	0	0.0%	221	0	0.0%	535	3,175	-83.1%
SHORT TERM NATURAL GAS	U30	0	0	0.0%	670	0	0	300	750	-60.0%	0	0	0.0%	675	0	0.0%	4,070	1,700	139.4%
SHORT TERM NATURAL GAS	U31	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	50	0	0.0%	6,200	1,125	451.1%
SINGAPORE FUEL OIL 180 CS	C5	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
SINGAPORE GASOIL CALEND	M2	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
SINGAPORE JET FUEL CALEND	N2	0	0	0.0%	0	0	0	0	480	-100.0%	0	0	0.0%	0	0	0.0%	0	960	-100.0%
SOCAL PIPE SWAP	ZN	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	11,200	-100.0%
WTI 12 MONTH CALENDAR OPT	WZ	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
WTI-BRENT BULLET SWAP	BV	0	0	0.0%	13,024	0	0	57,050	6,850	732.8%	0	0	0.0%	54,628	0	0.0%	450,923	180,050	150.4%
WTI CRUDE OIL 1 M CSO FI	7A	0	0	0.0%	3,700	2,250	0.64	125,600	245,942	-48.9%	0	0	0.0%	7,700	28,376	-72.9%	693,115	1,650,139	-58.0%

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Metals Futures																			
COMEX GOLD	GC	0	6,816	-100.0%	8,313,211	6,770,550	0.23	310,127	209,231	48.2%	0	97,593	-100.0%	65,353,608	51,164,656	27.7%	2,261,536	1,596,501	41.7%
NYMEX HOT ROLLED STEEL	HR	0	0	0.0%	837	219	2.82	3,761	2,404	56.4%	0	0	0.0%	4,742	4,812	-1.5%	52,956	46,355	14.2%
NYMEX PLATINUM	PL	0	40	-100.0%	373,171	350,006	0.07	7,833	5,919	32.3%	0	78	-100.0%	4,151,624	3,422,373	21.3%	131,001	71,484	83.3%
PALLADIUM	PA	0	32	-100.0%	148,736	185,119	-0.2	4,481	8,448	-47.0%	0	95	-100.0%	1,265,327	1,256,729	0.7%	64,523	47,744	35.1%
URANIUM	UX	0	0	0.0%	2	2	0	976	0	0.0%	0	0	0.0%	429	995	-56.9%	5,023	6,300	-20.3%
COMEX SILVER	SI	0	663	-100.0%	2,468,023	2,160,823	0.14	71,491	36,943	93.5%	0	10,338	-100.0%	21,142,786	16,631,951	27.1%	504,097	230,946	118.3%
COMEX E-Mini GOLD	QO	0	0	0.0%	7,107	17,592	-0.6	0	0	0.0%	0	0	0.0%	87,450	122,924	-28.9%	0	0	0.0%
COMEX E-Mini SILVER	QI	0	0	0.0%	806	1,695	-0.52	0	0	0.0%	0	0	0.0%	8,890	13,974	-36.4%	0	0	0.0%
COMEX COPPER	HG	0	420	-100.0%	2,961,088	3,495,610	-0.15	31,341	13,982	124.2%	0	1,342	-100.0%	24,409,645	19,876,582	22.8%	288,227	39,374	632.0%
COMEX MINY COPPER	QC	0	0	0.0%	629	1,073	-0.41	0	0	0.0%	0	0	0.0%	7,642	6,116	25.0%	0	0	0.0%
ALUMINUM	A38	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	30	87	-65.5%
ALUMINUM	AEP	0	0	0.0%	0	105	-1	2,886	1,980	45.8%	0	0	0.0%	78	2,943	-97.3%	27,545	9,721	183.4%
ALUMINUM	ALA	0	0	0.0%	0	0	0	75	0	0.0%	0	0	0.0%	0	0	0.0%	5,425	60	8,941.7%
ALUMINUM	ALI	0	0	0.0%	0	1,124	-1	0	0	0.0%	0	0	0.0%	4,197	7,606	-44.8%	1,061	135	685.9%
ALUMINUM	AUP	0	0	0.0%	398	291	0.37	4,364	9,549	-54.3%	0	0	0.0%	2,665	5,225	-49.0%	73,682	61,178	20.4%
ALUMINUM	EDP	0	0	0.0%	0	30	-1	480	2,210	-78.3%	0	0	0.0%	44	110	-60.0%	9,586	8,899	7.7%
ALUMINUM	MJP	0	0	0.0%	0	60	-1	1,695	1,680	0.9%	0	0	0.0%	260	1,059	-75.4%	15,303	7,284	110.1%
COPPER	HGS	0	0	0.0%	0	0	0	3,437	400	759.3%	0	0	0.0%	0	0	0.0%	5,043	2,760	82.7%
E-MICRO GOLD	MGC	0	0	0.0%	112,421	96,161	0.17	0	0	0.0%	0	0	0.0%	1,058,548	917,670	15.4%	0	0	0.0%
FERROUS PRODUCTS	BUS	0	0	0.0%	0	10	-1	170	150	13.3%	0	0	0.0%	85	10	750.0%	1,305	962	35.7%
FERROUS PRODUCTS	SSF	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
GOLD	GPS	0	0	0.0%	0	2	-1	0	0	0.0%	0	0	0.0%	1	2	-50.0%	0	0	0.0%
Gold Kilo	GCK	0	0	0.0%	285	4,786	-0.94	0	0	0.0%	0	0	0.0%	3,561	52,432	-93.2%	0	0	0.0%
IRON ORE 58 CHINA TSI FUTUR	TIC	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
IRON ORE 62 CHINA PLATTS FL	PIO	0	0	0.0%	0	0	0	870	46	1,791.3%	0	0	0.0%	0	0	0.0%	9,432	3,056	208.6%
IRON ORE 62 CHINA TSI FUTUR	TIO	0	0	0.0%	30	1,328	-0.98	3,670	25,337	-85.5%	0	0	0.0%	2,840	6,634	-57.2%	84,534	178,959	-52.8%
LNDN ZINC	ZNC	0	0	0.0%	10	0	0	0	0	0.0%	0	0	0.0%	125	227	-44.9%	0	0	0.0%
METALS	LED	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	25	-100.0%	0	0	0.0%
SILVER	SIL	0	0	0.0%	7,866	11,856	-0.34	0	0	0.0%	0	0	0.0%	66,270	95,462	-30.6%	0	0	0.0%

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Metals Options																			
COMEX COPPER	HX	0	206	-100.0%	11,975	4,442	1.7	700	180	288.9%	0	1,394	-100.0%	82,241	28,264	191.0%	5,120	6,701	-23.6%
COMEX GOLD	OG	0	20,472	-100.0%	564,034	1,063,545	-0.47	174,293	197,359	-11.7%	0	613,331	-100.0%	7,077,375	6,795,738	4.1%	2,067,924	1,681,277	23.0%
COMEX SILVER	SO	0	7,194	-100.0%	84,947	114,235	-0.26	19,791	6,135	222.6%	0	86,989	-100.0%	1,161,289	1,107,396	4.9%	165,656	99,300	66.8%
COPPER	H4E	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
GOLD	OG1	0	0	0.0%	8,140	1,690	3.82	150	0	0.0%	0	86	-100.0%	41,064	13,915	195.1%	1,650	100	1,550.0%
GOLD	OG2	0	0	0.0%	8,959	7,775	0.15	0	0	0.0%	0	290	-100.0%	39,641	17,117	131.6%	2,658	1,788	48.7%
GOLD	OG3	0	0	0.0%	4,609	1,033	3.46	0	0	0.0%	0	90	-100.0%	39,520	9,191	330.0%	1,915	650	194.6%
GOLD	OG4	0	0	0.0%	3,274	712	3.6	0	0	0.0%	0	0	0.0%	22,763	6,704	239.5%	250	412	-39.3%
GOLD	OG5	0	0	0.0%	0	0	0	0	0	0.0%	0	200	-100.0%	9,631	2,654	262.9%	0	100	-100.0%
HOT ROLLED COIL STEEL CALL	HRO	0	-	-	0	-	0	-	-	0	-	-	0	-	-	330	-	-	
IRON ORE 62 CHINA TSI CALL C	ICT	0	0	0.0%	0	0	0	1,284	2,840	-54.8%	0	0	0.0%	0	0	0.0%	18,094	39,589	-54.3%
IRON ORE 62 CHINA TSI PUT O	ICT	0	0	0.0%	0	0	0	750	2,690	-72.1%	0	0	0.0%	0	0	0.0%	26,105	32,056	-18.6%
NYMEX PLATINUM	PO	0	175	-100.0%	2,124	478	3.44	1,575	2,755	-42.8%	0	2,429	-100.0%	13,008	8,123	60.1%	17,556	36,694	-52.2%
PALLADIUM	PAO	0	200	-100.0%	1,724	897	0.92	5,142	3,484	47.6%	0	522	-100.0%	13,313	3,443	286.7%	51,777	33,875	52.8%
SILVER	SO1	0	0	0.0%	15	199	-0.92	0	0	0.0%	0	0	0.0%	656	559	17.4%	25	0	0.0%
SILVER	SO2	0	0	0.0%	4	337	-0.99	0	0	0.0%	0	0	0.0%	217	618	-64.9%	0	0	0.0%
SILVER	SO3	0	0	0.0%	18	79	-0.77	0	0	0.0%	0	0	0.0%	607	543	11.8%	0	0	0.0%
SILVER	SO4	0	0	0.0%	1	43	-0.98	0	0	0.0%	0	0	0.0%	188	257	-26.8%	0	0	0.0%
SILVER	SO5	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	4	250	-98.4%	0	0	0.0%
TOTAL FUTURES GROUP																			
Commodities and Alternative Investments Future		0	0	0.0%	5	20	-75.0%	0	0	0.0%	0	0	0.0%	189	3,758	-95.0%	0	0	0.0%
Energy Futures		0	160	-100.0%	45,570,497	45,366,709	0.4%	3,016,031	4,144,480	-27.2%	0	27,236	-100.0%	484,489,080	432,616,113	12.0%	39,610,951	49,329,635	-19.7%
Metals Futures		0	7,971	-100.0%	14,394,620	13,098,442	9.9%	447,657	318,279	40.6%	0	109,446	-100.0%	117,570,817	93,590,517	25.6%	3,540,309	2,311,805	53.1%
TOTAL FUTURES		0	8,131	-100.0%	59,965,122	58,465,171	2.6%	3,463,688	4,462,759	-22.4%	0	136,682	-100.0%	602,060,086	526,210,388	14.4%	43,151,260	51,641,440	-16.4%
TOTAL OPTIONS GROUP																			
Energy Options		0	3,986	-100.0%	5,475,578	4,919,901	11.3%	2,425,858	3,560,666	-31.9%	0	281,552	-100.0%	47,972,944	40,653,356	18.0%	27,051,201	33,233,737	-18.6%
Metals Options		0	28,247	-100.0%	689,824	1,195,465	-42.3%	203,685	215,443	-5.5%	0	705,331	-100.0%	8,501,517	7,994,772	6.3%	2,359,060	1,932,542	22.1%
TOTAL OPTIONS		0	32,233	-100.0%	6,165,402	6,115,366	0.8%	2,629,543	3,776,109	-30.4%	0	986,883	-100.0%	56,474,461	48,648,128	16.1%	29,410,261	35,166,279	-16.4%



NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator	Open Outcry NOV 2017	Open Outcry NOV 2016	% CHG	ELEC NOV 2017	ELEC NOV 2016	% CHG	CME ClearPort NOV 2017	CME ClearPort NOV 2016	% CHG	Open Outcry Y.T.D 2017	Open Outcry Y.T.D 2016	% CHG	ELEC Y.T.D 2017	ELEC Y.T.D 2016	% CHG	CME ClearPort Y.T.D 2017	CME ClearPort Y.T.D 2016	% CHG
TOTAL COMBINED																		
Commodities and Alternative Investments	0	0	0.0%	5	20	-75.0%	0	0	0.0%	0	0	0.0%	189	3,758	-95.0%	0	0	0.0%
Energy	0	4,146	-100.0%	51,046,075	50,286,610	1.5%	5,441,889	7,705,146	-29.4%	0	308,788	-100.0%	532,462,024	473,269,469	12.5%	66,662,152	82,563,372	-19.3%
Metals	0	36,218	-100.0%	15,084,444	14,293,907	5.5%	651,342	533,722	22.0%	0	814,777	-100.0%	126,072,334	101,585,289	24.1%	5,899,369	4,244,347	39.0%
GRAND TOTAL	0	40,364	-100.0%	66,130,524	64,580,537	2.4%	6,093,231	8,238,868	-26.0%	0	1,123,565	-100.0%	658,534,547	574,858,516	14.6%	72,561,521	86,807,719	-16.4%

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