

NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator	Open Outcry NOV 2018	Open Outcry NOV 2017	% CHG	ELEC NOV 2018	ELEC NOV 2017	% CHG	CME ClearPort NOV 2018	CME ClearPort NOV 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG	CME ClearPort Y.T.D 2018	CME ClearPort Y.T.D 2017	% CHG	
Ag Products Futures																			
COCOA TAS	CJ	0	0	0.0%	0	1	-1	0	0	0.0%	0	0	0.0%	5	87	-94.3%	0	0	0.0%
COFFEE	KT	0	0	0.0%	0	1	-1	0	0	0.0%	0	0	0.0%	0	41	-100.0%	0	0	0.0%
COTTON	TT	0	0	0.0%	1	3	-0.67	0	0	0.0%	0	0	0.0%	21	19	10.5%	0	0	0.0%
SUGAR 11	YO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	58	42	38.1%	0	0	0.0%
Energy Futures																			
CRUDE OIL PHY	CL	0	0	0.0%	26,949,840	27,068,603	0	620,721	567,103	9.5%	0	0	0.0%	278,477,981	283,703,452	-1.8%	5,226,333	6,140,346	-14.9%
CRUDE OIL	WS	0	0	0.0%	0	0	0	0	15,209	-100.0%	0	0	0.0%	89	304	-70.7%	15,550	74,196	-79.0%
MINY WTI CRUDE OIL	QM	0	0	0.0%	615,655	235,179	1.62	0	0	0.0%	0	0	0.0%	4,074,872	2,834,261	43.8%	0	0	0.0%
BRENT OIL LAST DAY	BZ	0	0	0.0%	2,220,732	1,535,316	0.45	49,537	35,054	41.3%	0	0	0.0%	19,734,445	20,280,916	-2.7%	430,421	264,365	62.8%
HEATING OIL PHY	HO	0	0	0.0%	4,309,272	3,320,816	0.3	207,509	228,462	-9.2%	0	0	0.0%	40,965,345	37,488,106	9.3%	2,073,539	2,603,675	-20.4%
HTG OIL	BH	0	0	0.0%	0	0	0	24	0	0.0%	0	0	0.0%	0	144	-100.0%	120	196	-38.8%
MINY HTG OIL	QH	0	0	0.0%	4	4	0	0	0	0.0%	0	0	0.0%	44	32	37.5%	0	0	0.0%
RBOB PHY	RB	0	0	0.0%	3,784,893	3,493,215	0.08	168,869	224,130	-24.7%	0	0	0.0%	43,873,965	43,324,640	1.3%	2,335,243	3,217,796	-27.4%
MINY RBOB GAS	QU	0	0	0.0%	6	4	0.5	0	0	0.0%	0	0	0.0%	43	47	-8.5%	0	0	0.0%
NATURAL GAS	HP	0	0	0.0%	76,626	38,452	0.99	141,344	76,425	84.9%	0	0	0.0%	560,641	393,799	42.4%	783,872	1,122,996	-30.2%
LTD NAT GAS	HH	0	0	0.0%	303,243	157,723	0.92	332,929	155,620	113.9%	0	0	0.0%	2,364,603	1,408,252	67.9%	1,820,152	1,815,706	0.2%
MINY NATURAL GAS	QG	0	0	0.0%	112,587	28,377	2.97	0	0	0.0%	0	0	0.0%	387,425	271,600	42.6%	36	0	0.0%
PJM MONTHLY	JM	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	120	-100.0%
NATURAL GAS PHY	NG	0	0	0.0%	13,892,304	9,685,384	0.43	327,042	321,131	1.8%	0	0	0.0%	103,290,989	94,669,998	9.1%	3,113,815	3,221,191	-3.3%
RBOB GAS	RT	0	0	0.0%	0	0	0	0	1,850	-100.0%	0	0	0.0%	0	0	0.0%	14,386	26,546	-45.8%
3.5% FUEL OIL CID MED SWA	7D	0	0	0.0%	0	0	0	0	70	-100.0%	0	0	0.0%	0	0	0.0%	612	1,035	-40.9%
3.5% FUEL OIL CIF BALMO S	8D	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	95	175	-45.7%
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	0	0.0%
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	0	0.0%
ALGONQUIN CITYGATES BASIS	B4	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
ANR LOUISIANA BASIS SWAP	ND	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
ANR OKLAHOMA	NE	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 (PHY)	QL	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	0	0	0.0%	-	0	0.0%

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Energy Futures																			
ARGUS LLS VS. WTI (ARG) T	E5	0	0	0.0%	0	0	0	18,221	55,150	-67.0%	0	0	0.0%	30	60	-50.0%	240,986	159,882	50.7%
ARGUS PROPAN FAR EST INDE	7E	0	0	0.0%	0	0	0	5,595	3,932	42.3%	0	0	0.0%	0	0	0.0%	65,519	28,462	130.2%
ARGUS PROPAN(SAUDI ARAMC	9N	0	0	0.0%	0	0	0	2,726	1,106	146.5%	0	0	0.0%	0	0	0.0%	31,145	11,496	170.9%
AUSTRIALIAN COKE COAL	ACT	0	0	0.0%	0	0	0	0	120	-100.0%	0	0	0.0%	0	0	0.0%	20	120	-83.3%
AUSTRIALIAN COKE COAL	ALW	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	1,003	-100.0%
BRENT BALMO SWAP	J9	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	285	578	-50.7%
BRENT CALENDAR SWAP	CY	0	0	0.0%	0	0	0	2,125	2,555	-16.8%	0	0	0.0%	0	0	0.0%	38,237	30,743	24.4%
BRENT CFD SWAP	6W	0	-	-	0	-	0	0	-	-	0	-	0	-	-	0	300	-	-
BRENT FINANCIAL FUTURES	BB	0	0	0.0%	0	0	0	1,000	1,010	-1.0%	0	0	0.0%	0	0	0.0%	20,864	43,043	-51.5%
BRENT FINANCIAL FUTURES	MBC	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	127	0	0.0%
BRENT FINANCIAL FUTURES	MDB	0	0	0.0%	0	0	0	0	52	-100.0%	0	0	0.0%	0	0	0.0%	224	330	-32.1%
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%	0	7,940	-100.0%
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	0	0.0%	0	0	0.0%	0	0	0.0%	0	7,344	-100.0%
CENTERPOINT BASIS SWAP	PW	0	0	0.0%	0	0	0	0	465	-100.0%	0	0	0.0%	0	0	0.0%	36	999	-96.4%
CENTERPOINT EAST INDEX	II	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
CEU ENERGY	DEB	0	-	-	1,377	-	0	-	-	-	0	-	-	4,479	-	-	0	-	-
CEU ENERGY	TTF	0	-	-	3,685	-	0	-	-	-	0	-	-	18,071	-	-	10	-	-
CEU ENERGY	UKG	0	-	-	2,031	-	0	-	-	-	0	-	-	48,262	-	-	150	-	-
CHICAGO ETHANOL SWAP	CU	0	0	0.0%	66	621	-0.89	86,941	108,890	-20.2%	0	0	0.0%	2,071	4,204	-50.7%	1,052,327	1,242,990	-15.3%
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	932	155	501.3%	0	0	0.0%	0	0	0.0%	5,007	1,638	205.7%
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%	950	0	0.0%
CIG BASIS	CI	0	0	0.0%	0	0	0	0	730	-100.0%	0	0	0.0%	0	0	0.0%	221	1,456	-84.8%
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%	0	720	-100.0%
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	0	0.0%
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	0	0.0%	0	0	0.0%	0	0	0.0%	0	326,080	-100.0%
CIN HUB 5MW D AH PK	H5	0	0	0.0%	0	0	0	538	600	-10.3%	0	0	0.0%	0	0	0.0%	12,376	18,293	-32.3%
CIN HUB 5MW REAL TIME O P	H4	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	397,000	-100.0%
CIN HUB 5MW REAL TIME PK	H3	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	1,505	25,625	-94.1%
COAL SWAP	ACM	0	0	0.0%	0	0	0	60	70	-14.3%	0	0	0.0%	0	0	0.0%	570	1,675	-66.0%

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Energy Futures																			
COAL SWAP	SSI	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	
COLUMB GULF MAINLINE NG B	5Z	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	999	-100.0%	
COLUMBIA GULF MAIN NAT G	L2	-	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%	0	1,332	-100.0%	
CONWAY NATURAL GASOLINE	8L	0	0	0.0%	0	0	0	916	663.3%	0	0	0.0%	5	0	0.0%	2,649	2,950	-10.2%	
CONWAY NORMAL BUTANE (O	8M	0	0	0.0%	0	0	0	70	-6.7%	0	0	0.0%	0	0	0.0%	2,831	8,040	-64.8%	
CONWAY PROPANE 5 DECIMAL	8K	0	0	0.0%	16	4	3	13,712	30.0%	0	0	0.0%	48	58	-17.2%	174,954	98,959	76.8%	
CRUDE OIL	CHB	-	0	0.0%	-	0	0	-	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%	
CRUDE OIL	LPS	0	0	0.0%	0	0	0	3,600	27.9%	0	0	0.0%	0	203	-100.0%	48,985	41,866	17.0%	
CRUDE OIL OUTRIGHTS	37	-	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	192	37.1%	0	0	0.0%	0	0	0.0%	2,677	5,787	-53.7%	
CRUDE OIL OUTRIGHTS	CC5	0	0	0.0%	0	0	0	30	0.0%	0	0	0.0%	0	0	0.0%	330	600	-45.0%	
CRUDE OIL OUTRIGHTS	CPD	0	-	-	0	-	0	0	-	0	-	-	0	-	-	2,956	-	-	
CRUDE OIL OUTRIGHTS	CSN	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	30	-100.0%	
CRUDE OIL OUTRIGHTS	CSW	0	0	0.0%	0	0	0	30	-80.6%	0	0	0.0%	0	0	0.0%	2,315	2,705	-14.4%	
CRUDE OIL OUTRIGHTS	DBL	0	0	0.0%	0	0	0	0	411	-100.0%	0	0	0.0%	0	0	0.0%	99	2,036	-95.1%
CRUDE OIL OUTRIGHTS	FE	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	330	-100.0%	
CRUDE OIL OUTRIGHTS	GSW	0	0	0.0%	0	0	0	0	45	-100.0%	0	0	0.0%	0	0	0.0%	105	200	-47.5%
CRUDE OIL OUTRIGHTS	HTT	0	0	0.0%	0	0	0	38,047	-11.5%	0	0	0.0%	0	0	0.0%	529,495	210,365	151.7%	
CRUDE OIL OUTRIGHTS	LSW	0	0	0.0%	0	0	0	0	1,215	-100.0%	0	0	0.0%	0	0	0.0%	335	4,125	-91.9%
CRUDE OIL OUTRIGHTS	SSW	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	960	-100.0%	
CRUDE OIL OUTRIGHTS	UMD	0	-	-	0	-	0	0	-	0	-	-	0	-	-	4,800	-	-	
CRUDE OIL OUTRIGHTS	UNS	0	-	-	0	-	0	0	-	0	-	-	0	-	-	7,554	-	-	
CRUDE OIL OUTRIGHTS	WCC	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	24,737	-100.0%	
CRUDE OIL OUTRIGHTS	WCW	0	0	0.0%	0	0	0	2,162	-87.3%	0	0	0.0%	0	0	0.0%	65,018	72,796	-10.7%	
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 PHY	HCL	0	-	-	10,095	-	0	-	-	0	-	-	10,095	-	-	0	-	-	
CRUDE OIL SPRDS	38	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	2,055	0	0.0%	
CRUDE OIL SPRDS	WTT	0	0	0.0%	0	0	0	10,718	-75.0%	0	0	0.0%	0	50	-100.0%	415,278	140,514	195.5%	
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%	

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Energy Futures																			
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%	
DAILY PJM	WOR	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	
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%	0	1,400	-100.0%	
DATED TO FRONTLINE BRENT	FY	0	0	0.0%	0	0	0	400	-100.0%	0	0	0.0%	0	0	0.0%	3,360	14,450	-76.7%	
DEMARC INDEX FUTURE	DI	-	0	0.0%	-	0	0	-	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%	
DEMARC SWING SWAP	DT	-	0	0.0%	-	0	0	-	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%	
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%	5	0	0.0%	
DIESEL 10PPM BARGES FOB B	U7	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	3	-100.0%	
DLY GAS EURO-BOB OXY	GBR	-	0	0.0%	-	0	0	-	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%	
DOMINION TRAN INC - APP I	IH	0	0	0.0%	0	0	0	2,920	-100.0%	0	0	0.0%	0	0	0.0%	0	2,920	-100.0%	
DOMINION TRANSMISSION INC	PG	0	0	0.0%	0	0	0	4,508	-100.0%	0	0	0.0%	0	0	0.0%	126	53,117	-99.8%	
DUBAI CRUDE OIL BALMO	BI	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	125	0	0.0%	
DUBAI CRUDE OIL CALENDAR	DC	0	0	0.0%	0	0	0	15,305	4,162	267.7%	0	0	0.0%	0	0	0.0%	99,807	81,936	21.8%
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%	0	1,500	-100.0%	
EASTERN RAIL DELIVERY CSX	QX	0	0	0.0%	0	0	0	15	-100.0%	0	0	0.0%	0	0	0.0%	245	4,855	-95.0%	
EAST/WEST FUEL OIL SPREAD	EW	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	187	1,255	-85.1%	
EIA FLAT TAX ONHWAY DIESE	A5	0	0	0.0%	0	0	0	313	116	169.8%	0	0	0.0%	0	0	0.0%	3,170	7,644	-58.5%
ELEC ERCOT DLY OFF PK	I4	0	-	-	0	-	0	-	-	0	-	-	0	-	-	0	-	-	
ELEC ERCOT DLY OFF PK	R4	-	0	0.0%	-	0	0	-	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%	
ELEC ERCOT DLY PEAK	I3	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%	
ELEC ERCOT DLY PEAK	R1	-	0	0.0%	-	0	0	-	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%	
ELEC ERCOT OFF PEAK	I2	0	-	-	0	-	0	-	-	0	-	-	0	-	-	19,600	-	-	
ELEC FINSETTLED	47	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	
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%	0	3,825	-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.

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Commodity Indicator	Open Outcry NOV 2018	Open Outcry NOV 2017	% CHG	ELEC NOV 2018	ELEC NOV 2017	% CHG	CME ClearPort NOV 2018	CME ClearPort NOV 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG	CME ClearPort Y.T.D 2018	CME ClearPort Y.T.D 2017	% CHG	
Energy Futures																			
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%	0	70,200	-100.0%	
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	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	690	-100.0%	
ELECTRICITY OFF PEAK	46	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	
ELECTRICITY OFF PEAK	4P	0	0.0%	0	0	0	55,380	0	0.0%	0	0	0.0%	0	0	0.0%	55,380	0	0.0%	
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	0	0.0%	
ELEC WEST POWER PEAK	MDC	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	1,540	-100.0%	
EL PASO PERMIAN INDEX SWA	IL	-	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%	
ERCOT DAILY 5MW PEAK	ERW	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	
ERCOT HOUSTON Z MCPE 5M	I1	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	1,950	3,880	-49.7%	
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	0	39,200	-100.0%	0	0	0.0%	0	0	0.0%	19,600	115,120	-83.0%	
ERCOT NORTH ZMCPE 5MW PE	I5	0	0.0%	0	0	0	0	2,100	-100.0%	0	0	0.0%	0	0	0.0%	5,050	6,810	-25.8%	
ETHANOL SWAP	MT2	0	-	0	-	-	270	-	-	0	-	-	0	-	-	670	-	-	
ETHANOL T2 FOB ROTT INCL D	Z1	0	0.0%	0	0	0	6,461	5,559	16.2%	0	0	0.0%	0	0	0.0%	37,812	44,045	-14.2%	
EURO 1% FUEL OIL NEW BALM	KX	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	33	18	83.3%	
EURO 3.5% FUEL OIL RDAM B	KR	0	0.0%	0	0	0	235	740	-68.2%	0	0	0.0%	0	0	0.0%	5,674	4,877	16.3%	
EURO 3.5% FUEL OIL SPREAD	FK	0	0.0%	0	0	0	0	180	-100.0%	0	0	0.0%	0	0	0.0%	840	4,466	-81.2%	
EURO-DENOMINATED PETRO P	NCP	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	640	1,514	-57.7%	
EURO GASOIL 10 CAL SWAP	GT	-	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%	
EURO GASOIL 10PPM VS ICE	ET	0	0.0%	0	0	0	0	5	-100.0%	0	0	0.0%	0	0	0.0%	370	430	-14.0%	
EUROPE 1% FUEL OIL NWE CA	UF	0	0.0%	0	0	0	120	0	0.0%	0	0	0.0%	0	0	0.0%	546	709	-23.0%	
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%	3	39	-92.3%	
EUROPE 3.5% FUEL OIL MED	UI	0	0.0%	0	0	0	4	320	-98.8%	0	0	0.0%	0	0	0.0%	991	1,701	-41.7%	
EUROPE 3.5% FUEL OIL RDAM	UV	0	0.0%	0	0	0	3,205	8,695	-63.1%	0	0	0.0%	0	0	0.0%	77,095	78,083	-1.3%	
EUROPEAN GASOIL (ICE)	7F	0	0.0%	1,254	1,490	-0.16	0	0	0.0%	0	0	0.0%	6,929	30,762	-77.5%	0	58	-100.0%	
EUROPEAN NAPHTHA BALMO	KZ	0	0.0%	0	0	0	184	135	36.3%	0	0	0.0%	0	0	0.0%	3,039	3,656	-16.9%	
EUROPEAN NAPHTHA CRACK SF	EN	0	0.0%	0	0	0	8,523	7,541	13.0%	0	0	0.0%	0	0	0.0%	103,391	75,329	37.3%	
EUROPE DATED BRENT SWAP	UB	0	0.0%	0	0	0	2,520	0	0.0%	0	0	0.0%	0	0	0.0%	4,720	2,540	85.8%	
EUROPE JET KERO NWE CALS	UJ	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	39	105	-62.9%	
EUROPE NAPHTHA CALSWAP	UN	0	0.0%	0	0	0	2,614	1,963	33.2%	0	0	0.0%	0	0	0.0%	38,106	29,707	28.3%	
EURO PROPANE CIF ARA SWA	PS	0	0.0%	0	0	0	2,051	1,740	17.9%	0	0	0.0%	0	0	0.0%	20,318	14,275	42.3%	

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Commodity Indicator	Open Outcry NOV 2018	Open Outcry NOV 2017	% CHG	ELEC NOV 2018	ELEC NOV 2017	% CHG	CME ClearPort NOV 2018	CME ClearPort NOV 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG	CME ClearPort Y.T.D 2018	CME ClearPort Y.T.D 2017	% CHG	
Energy Futures																			
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%
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%	0	0	0.0%
FREIGHT MARKETS	FLP	0	0	0.0%	0	0	0	337	18	1,772.2%	0	0	0.0%	0	0	0.0%	2,185	1,622	34.7%
FREIGHT MARKETS	FRC	0	-	-	0	-	0	-	-	-	0	-	0	-	-	0	600	-	-
FREIGHT MARKETS	FRS	0	-	-	0	-	0	-	-	-	0	-	0	-	-	0	0	-	-
FREIGHT MARKETS	T2D	0	-	-	0	-	0	-	-	-	0	-	0	-	-	0	4,673	-	-
FREIGHT MARKETS	TC6	0	-	-	0	-	0	-	-	-	0	-	0	-	-	0	240	-	-
FREIGHT MARKETS	TD3	0	-	-	0	-	0	-	-	-	0	-	0	-	-	0	30	-	-
FREIGHT MARKETS	TD8	0	-	-	0	-	0	-	-	-	0	-	0	-	-	0	150	-	-
FUEL OIL CRACK VS ICE	FO	0	0	0.0%	0	0	0	1,442	1,588	-9.2%	0	0	0.0%	0	0	0.0%	37,502	39,399	-4.8%
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%	171	0	0.0%
FUEL OIL (PLATS) CAR CM	1W	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	154	20	670.0%
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%	120	0	0.0%
FUELOIL SWAP:CARGOES VS.B	FS	0	0	0.0%	0	0	0	15	171	-91.2%	0	0	0.0%	0	0	0.0%	2,129	2,974	-28.4%
GAS EURO-BOB OXY NWE BAR	7H	0	0	0.0%	0	0	0	5,318	3,197	66.3%	0	0	0.0%	0	0	0.0%	81,582	68,825	18.5%
GAS EURO-BOB OXY NWE BAR	7K	0	0	0.0%	0	0	0	12,780	17,089	-25.2%	0	0	0.0%	0	0	0.0%	198,152	208,435	-4.9%
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%
GASOIL 0.1 CIF MED SWAP	Z4	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
GASOIL 0.1CIF MED VS ICE	Z5	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	10	50	-80.0%
GASOIL 0.1 CIF NWE VS ISE	TU	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
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	0.0%	0	20	-100.0%
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%
GASOIL 0.1 RDAM BRGS VS I	WQ	0	0	0.0%	0	0	0	0	120	-100.0%	0	0	0.0%	0	0	0.0%	10	294	-96.6%
GASOIL 0.1 ROTTERDAM BARG	VL	0	0	0.0%	0	0	0	26	45	-42.2%	0	0	0.0%	0	0	0.0%	1,496	155	865.2%
GASOIL 10P CRG CIF NW VS	3V	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	25	-100.0%
GASOIL 10PPM CARGOES CIF	TY	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
GASOIL 10PPM VS ICE SWAP	TP	0	0	0.0%	0	0	0	0	15	-100.0%	0	0	0.0%	0	0	0.0%	12	727	-98.3%
GASOIL BULLET SWAP	BG	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	130	-100.0%
GASOIL CALENDAR SWAP	GX	0	0	0.0%	0	0	0	12	0	0.0%	0	0	0.0%	0	0	0.0%	66	244	-73.0%
GASOIL CRACK SPREAD CALE	GZ	0	0	0.0%	0	0	0	604	7,395	-91.8%	0	0	0.0%	0	0	0.0%	38,106	75,163	-49.3%
GASOIL MINI CALENDAR SWAP	QA	0	0	0.0%	0	0	0	803	119	574.8%	0	0	0.0%	0	0	0.0%	2,827	1,469	92.4%
GASOLINE UP-DOWN BALMO S	1K	-	0	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	45	0	0.0%	0	0	0.0%	0	0	0.0%	250	125	100.0%
GROUP THREE UNLEAD GAS (F	A9	0	-	-	0	-	0	0	-	-	0	-	0	-	-	0	425	-	-



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Energy Futures																			
GRP THREE ULSD(PLT)VS HEA	A6	0	0	0.0%	0	0	0	3,826	5,535	-30.9%	0	0	0.0%	0	0	0.0%	39,259	47,830	-17.9%
GRP THREE UNL GS (PLT) VS	A8	0	0	0.0%	0	0	0	1,735	2,005	-13.5%	0	0	0.0%	0	0	0.0%	23,342	12,139	92.3%
GULF COAST 3% FUEL OIL BA	VZ	0	0	0.0%	0	0	0	703	1,132	-37.9%	0	0	0.0%	0	0	0.0%	13,602	12,737	6.8%
GULF COAST GASOLINE CLND	GS	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
GULF COAST JET FUEL CLNDR	GE	0	0	0.0%	0	0	0	207	45	360.0%	0	0	0.0%	0	0	0.0%	1,402	988	41.9%
GULF COAST JET VS NYM 2 H	ME	0	0	0.0%	0	0	0	22,758	27,375	-16.9%	0	0	0.0%	0	0	0.0%	387,389	455,089	-14.9%
GULF COAST NO.6 FUEL OIL	MF	0	0	0.0%	0	0	0	30,573	59,771	-48.8%	0	0	0.0%	0	0	0.0%	577,851	570,037	1.4%
GULF COAST NO.6 FUEL OIL	MG	0	0	0.0%	0	0	0	830	5,278	-84.3%	0	0	0.0%	0	0	0.0%	17,306	17,681	-2.1%
GULF COAST ULSD CALENDAR	LY	0	0	0.0%	0	0	0	254	54	370.4%	0	0	0.0%	0	0	0.0%	3,573	5,574	-35.9%
GULF COAST ULSD CRACK SP	GY	0	0	0.0%	0	0	0	240	0	0.0%	0	0	0.0%	0	0	0.0%	1,655	3,870	-57.2%
HEATING OIL BALMO CLNDR S	1G	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	243	830	-70.7%
HEATING OIL CRCK SPRD BAL	1H	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
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%
HENRY HUB BASIS SWAP	HB	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	2,996	-100.0%	32,088	49,736	-35.5%
HENRY HUB FINANCIAL LAST	NBP	0	0	0.0%	0	1,762	-1	0	0	0.0%	0	0	0.0%	26,818	4,257	530.0%	0	0	0.0%
HENRY HUB FINANCIAL LAST	TTE	0	0	0.0%	0	134	-1	0	0	0.0%	0	0	0.0%	885	887	-0.2%	0	0	0.0%
HENRY HUB INDEX SWAP FUTL	IN	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	2,996	-100.0%	32,088	47,546	-32.5%
HENRY HUB SWAP	NN	0	0	0.0%	9,147	3,189	1.87	158,218	181,180	-12.7%	0	0	0.0%	68,731	65,169	5.5%	1,780,385	1,985,287	-10.3%
HENRY HUB SWING FUTURE	SN	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
HOUSTON SHIP CHANNEL BASI	NH	0	0	0.0%	0	0	0	0	5,480	-100.0%	0	0	0.0%	0	0	0.0%	0	9,257	-100.0%
HOUSTON SHIP CHANNEL INDE	IP	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
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%	0	719	-100.0%
ICE BRENT DUBAI SWAP	DB	0	0	0.0%	0	0	0	3,890	20,075	-80.6%	0	0	0.0%	0	0	0.0%	104,308	117,530	-11.2%
ICE GASOIL BALMO SWAP	U9	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	9	-100.0%
IN DELIVERY MONTH EUA	6T	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	1,248	2,850	-56.2%
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	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	0	0.0%
INDIANA MISO	PDM	-	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%
INDONESIAN COAL	MCC	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	5	-100.0%
INDONESIAN COAL ICI4	ICI	0	-	-	0	-	-	205	-	-	0	-	-	0	-	-	1,720	-	-

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 2018	Open Outcry NOV 2017	% CHG	ELEC NOV 2018	ELEC NOV 2017	% CHG	CME ClearPort NOV 2018	CME ClearPort NOV 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG	CME ClearPort Y.T.D 2018	CME ClearPort Y.T.D 2017	% CHG	
Energy Futures																			
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%	
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	-100.0%	
JAPAN C&F NAPHTHA CRACK S	JB	0	0	0.0%	0	0	161	830	-80.6%	0	0	0.0%	0	0	0.0%	1,890	6,643	-71.5%	
JAPAN C&F NAPHTHA SWAP	JA	0	0	0.0%	0	0	1,105	1,564	-29.3%	0	0	0.0%	0	0	0.0%	22,215	16,774	32.4%	
JAPAN NAPHTHA BALMO SWAP	E6	0	0	0.0%	0	0	20	0	0.0%	0	0	0.0%	0	0	0.0%	628	1,410	-55.5%	
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%	5	36	-86.1%	
JET BARGES VS ICE GASOIL	JR	-	0	0.0%	-	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%	
JET CIF NWE VS ICE	JC	0	0	0.0%	0	0	0	273	-100.0%	0	0	0.0%	0	0	0.0%	642	1,248	-48.6%	
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	-100.0%	
JET FUEL CRG CIF NEW VS I	6X	0	0	0.0%	0	0	0	2	-100.0%	0	0	0.0%	0	0	0.0%	0	64	-100.0%	
JET FUEL UP-DOWN BALMO CL	1M	0	0	0.0%	0	0	5,370	4,130	30.0%	0	0	0.0%	0	0	0.0%	65,567	76,391	-14.2%	
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	0.0%	
LA CARB DIESEL (OPIS) SWA	KL	0	0	0.0%	0	0	125	125	0.0%	0	0	0.0%	0	0	0.0%	3,095	2,120	46.0%	
LA CARBOB GASOLINE(OPIS)S	JL	0	0	0.0%	0	0	410	300	36.7%	0	0	0.0%	0	0	0.0%	5,510	2,775	98.6%	
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	-100.0%	
LA JET (OPIS) SWAP	JS	0	0	0.0%	0	0	700	740	-5.4%	0	0	0.0%	0	0	0.0%	21,179	18,865	12.3%	
LLS (ARGUS) CALENDAR SWAP	XA	0	-	-	0	-	0	-	-	0	-	-	0	-	-	607	-	-	
LLS (ARGUS) VS WTI SWAP	WJ	0	0	0.0%	0	0	2,800	8,239	-66.0%	0	0	0.0%	0	15	-100.0%	59,429	55,945	6.2%	
LOS ANGELES CARB GASOLIN	MH	0	-	-	0	-	10	-	-	0	-	-	0	-	-	10	-	-	
MARS (ARGUS) VS WTI SWAP	YX	0	0	0.0%	0	0	985	1,370	-28.1%	0	0	0.0%	0	70	-100.0%	22,270	33,949	-34.4%	
MARS (ARGUS) VS WTI TRD M	YV	0	0	0.0%	0	150	12,665	37,937	-66.6%	0	0	0.0%	575	950	-39.5%	219,391	233,766	-6.1%	
MARS BLEND CRUDE OIL	MB	0	0	0.0%	0	0	0	1,000	-100.0%	0	0	0.0%	0	200	-100.0%	2,319	14,768	-84.3%	
MCCLOSKEY ARA ARGS COAL	MTF	0	0	0.0%	0	0	24,979	28,239	-11.5%	0	0	0.0%	731	0	0.0%	261,910	481,972	-45.7%	
MCCLOSKEY RCH BAY COAL	MFF	0	0	0.0%	0	0	2,100	2,635	-20.3%	0	0	0.0%	0	0	0.0%	32,311	52,976	-39.0%	
MGF FUT	MGF	0	0	0.0%	0	0	10	30	-66.7%	0	0	0.0%	0	0	0.0%	268	316	-15.2%	
MGN1 SWAP FUT	MGN	0	0	0.0%	0	0	120	70	71.4%	0	0	0.0%	0	0	0.0%	813	1,074	-24.3%	
MICHCON NG INDEX SWAP	Y8	-	0	0.0%	-	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%	
MICHIGAN BASIS	NF	0	0	0.0%	0	0	0	156	-100.0%	0	0	0.0%	0	0	0.0%	0	2,748	-100.0%	
MICHIGAN MISO	HMO	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	106,440	-100.0%	
MICHIGAN MISO	HMW	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	5,730	-100.0%	
MINI GAS EUROBOB OXY NWE	MEB	0	0	0.0%	0	0	362	195	85.6%	0	0	0.0%	0	0	0.0%	3,798	4,710	-19.4%	
MINI RBOB V. EBOBARG NWE B	MXR	0	0	0.0%	0	0	0	90	-100.0%	0	0	0.0%	0	0	0.0%	3,383	5,726	-40.9%	
MINI RBOB V. EBOB(ARGUS) N	MXB	0	0	0.0%	0	0	1,322	1,503	-12.0%	0	0	0.0%	0	0	0.0%	20,073	24,633	-18.5%	
MJC FUT	MJC	0	0	0.0%	0	0	50	115	-56.5%	0	0	0.0%	0	0	0.0%	1,460	1,305	11.9%	

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Commodity Indicator	Open Outcry NOV 2018	Open Outcry NOV 2017	% CHG	ELEC NOV 2018	ELEC NOV 2017	% CHG	CME ClearPort NOV 2018	CME ClearPort NOV 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG	CME ClearPort Y.T.D 2018	CME ClearPort Y.T.D 2017	% CHG	
Energy Futures																			
MNC FUT	MNC	0	0	0.0%	0	0	0	5,026	2,750	82.8%	0	0	0.0%	0	0	0.0%	45,790	43,845	4.4%
MONT BELVIEU ETHANE 5 DECI	CO	0	0	0.0%	0	0	0	8,446	12,620	-33.1%	0	0	0.0%	0	0	0.0%	172,811	242,042	-28.6%
MONT BELVIEU ETHANE OPIS E	8C	0	0	0.0%	0	0	0	80	180	-55.6%	0	0	0.0%	0	0	0.0%	1,690	2,870	-41.1%
MONT BELVIEU LDH PROPANE	B0	0	0	0.0%	3	74	-0.96	136,578	101,125	35.1%	0	0	0.0%	212	401	-47.1%	1,382,279	1,021,210	35.4%
MONT BELVIEU LDH PROPANE	8O	0	0	0.0%	0	0	0	1,871	1,113	68.1%	0	0	0.0%	0	0	0.0%	27,019	18,034	49.8%
MONT BELVIEU NATURAL GAS	7Q	0	0	0.0%	0	0	0	7,858	15,730	-50.0%	0	0	0.0%	0	20	-100.0%	91,947	63,786	44.1%
MONT BELVIEU NATURAL GAS	R0	0	0	0.0%	0	0	0	40	480	-91.7%	0	0	0.0%	0	0	0.0%	3,626	3,344	8.4%
MONT BELVIEU NORMAL BUTA	D0	0	0	0.0%	0	0	0	32,903	42,791	-23.1%	0	0	0.0%	0	0	0.0%	399,925	327,670	22.1%
MONT BELVIEU NORMAL BUTA	8J	0	0	0.0%	0	0	0	920	584	57.5%	0	0	0.0%	0	0	0.0%	11,989	7,740	54.9%
NAT GAS BASIS SWAP	TZ6	0	0	0.0%	0	0	0	0	422	-100.0%	0	0	0.0%	0	0	0.0%	0	2,587	-100.0%
NATURAL GAS	HBI	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
NATURAL GAS	XIC	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	44	-100.0%
NATURAL GAS FIXED PRICE S	CFS	-	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%	0	360	-100.0%
NATURAL GAS FIXED PRICE S	MFS	-	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%
NATURAL GAS FIXED PRICE S	WFS	-	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%
NATURAL GAS INDEX	TZI	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	656	-100.0%
NATURAL GAS PEN SWP	NP	0	0	0.0%	0	0	0	54,632	84,159	-35.1%	0	0	0.0%	0	62	-100.0%	390,190	925,745	-57.9%
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	0	0.0%
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	0	0.0%
NEPOOL INTR HUB 5MW D AH	H2	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	136,440	235,140	-42.0%
NEPOOL INTR HUB 5MW D AH	U6	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	12,711	17,275	-26.4%
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%	0	14,040	-100.0%
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%	0	765	-100.0%
NEPOOL NEW HAMP 5MW D AH	U2	-	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%
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%
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%
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	0	0.0%
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	0	0.0%

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Energy Futures																		
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%
NEW YORK ETHANOL SWAP	EZ	0	0	0.0%	0	0	337	1,105	-69.5%	0	0	0.0%	0	0	0.0%	12,028	9,250	30.0%
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%
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%
NGPL MID-CONTINENT	NL	0	0	0.0%	0	0	1,300	600	116.7%	0	0	0.0%	0	0	0.0%	4,748	4,674	1.6%
NGPL MIDCONTINENT INDEX	IW	-	0	0.0%	-	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
NGPL MIDCONTINENT SWING S	PX	-	0	0.0%	-	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
NGPL TEX/OK	PD	0	0	0.0%	0	0	3,080	1,080	185.2%	0	0	0.0%	0	0	0.0%	47,716	9,214	417.9%
NGPL TEXOK INDEX	OI	-	0	0.0%	-	0	-	0	0.0%	-	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	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%
NO 2 UP-DOWN SPREAD CALE	UT	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	2,983	3,659	-18.5%
NORTHEN NATURAL GAS DEM	PE	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
NORTHEN NATURAL GAS VENT	PF	0	0	0.0%	0	0	0	48	-100.0%	0	0	0.0%	0	0	0.0%	100	132	-24.2%
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%
NORTHWEST ROCKIES BASIS S	NR	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	3,088	-100.0%
N ROCKIES PIPE SWAP	XR	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	59	334	-82.3%
NY1% VS GC SPREAD SWAP	VR	0	0	0.0%	0	0	510	1,505	-66.1%	0	0	0.0%	0	0	0.0%	13,908	23,477	-40.8%
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	0.0%
NY 3.0% FUEL OIL (PLATTS	H1	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	1,795	3,260	-44.9%
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%	50	25	100.0%
NY HARBOR HEAT OIL SWP	MP	0	0	0.0%	10	0	4,713	1,067	341.7%	0	0	0.0%	77	3	2,466.7%	27,706	23,481	18.0%
NY HARBOR LOW SULPUR GAS	NLS	0	0	0.0%	0	0	600	0	0.0%	0	0	0.0%	0	0	0.0%	3,445	4,273	-19.4%
NY HARBOR RESIDUAL FUEL 1	MM	0	0	0.0%	0	0	621	780	-20.4%	0	0	0.0%	0	0	0.0%	11,413	26,062	-56.2%
NY HARBOR RESIDUAL FUEL C	ML	0	-	-	0	-	50	-	-	0	-	-	0	-	-	50	-	-
NYH NO 2 CRACK SPREAD CAL	HK	0	0	0.0%	0	0	534	420	27.1%	0	0	0.0%	0	0	0.0%	8,576	14,034	-38.9%
NY H OIL PLATTS VS NYMEX	YH	-	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%
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%
NYISO CAPACITY	LHV	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	646	453	42.6%
NYISO CAPACITY	NNC	0	0	0.0%	0	0	60	0	0.0%	0	0	0.0%	0	0	0.0%	795	2,306	-65.5%
NYISO CAPACITY	NRS	0	0	0.0%	0	0	0	132	-100.0%	0	0	0.0%	0	0	0.0%	335	2,899	-88.4%
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%
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%

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Commodity Indicator	Open Outcry NOV 2018	Open Outcry NOV 2017	% CHG	ELEC NOV 2018	ELEC NOV 2017	% CHG	CME ClearPort NOV 2018	CME ClearPort NOV 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG	CME ClearPort Y.T.D 2018	CME ClearPort Y.T.D 2017	% CHG
Energy Futures																		
NYISO J	KJ	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
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	0.0%
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%	44,264	32,760	35.1%
NYISO ZONE A 5MW D AH PK	K3	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	1,890	6,815	-72.3%
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	0	0.0%
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%	0	110	-100.0%
NYISO ZONE G 5MW D AH O P	D2	0	0	0.0%	0	0	0	11,550	0.0%	0	0	0.0%	0	0	0.0%	626,384	780,585	-19.8%
NYISO ZONE G 5MW D AH PK	T3	0	0	0.0%	0	0	0	635	-75.2%	0	0	0.0%	0	0	0.0%	21,159	57,604	-63.3%
NYISO ZONE J 5MW D AH O P	D4	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	226,600	-100.0%
NYISO ZONE J 5MW D AH PK	D3	0	0	0.0%	0	0	0	0	-100.0%	0	0	0.0%	0	0	0.0%	0	26,790	-100.0%
NY JET FUEL (PLATTS) HEAT OI	1U	-	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	0	0	-100.0%	0	0	0.0%	0	0	0.0%	213	8,245	-97.4%
ONEOK OKLAHOMA NG BASIS	8X	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	2,704	1,788	51.2%
ONTARIO POWER SWAPS	OFD	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
ONTARIO POWER SWAPS	OFM	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
ONTARIO POWER SWAPS	OPD	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	10	505	-98.0%
ONTARIO POWER SWAPS	OPM	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	650	-100.0%
PANHANDLE BASIS SWAP FUT	PH	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	275	3,060	-91.0%
PANHANDLE INDEX SWAP FUT	IV	-	0	0.0%	-	0	0	-	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
PANHANDLE PIPE SWAP	XH	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	3,228	-100.0%
PERMIAN BASIS SWAP	PM	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	1,381	-100.0%
PETROCHEMICALS	22	0	0	0.0%	0	0	0	108	-23.9%	0	0	0.0%	0	0	0.0%	1,978	923	114.3%
PETROCHEMICALS	32	0	0	0.0%	0	0	0	51	-66.2%	0	0	0.0%	0	0	0.0%	1,634	1,201	36.1%
PETROCHEMICALS	3NA	0	-	-	0	-	0	5	-	0	-	-	0	-	-	11	-	-
PETROCHEMICALS	51	0	-	-	0	-	0	0	-	0	-	-	0	-	-	23	-	-
PETROCHEMICALS	8I	0	0	0.0%	0	0	0	0	-100.0%	0	0	0.0%	0	0	0.0%	6,760	6,546	3.3%
PETROCHEMICALS	91	0	0	0.0%	0	0	0	477	-43.0%	0	0	0.0%	0	0	0.0%	4,798	3,090	55.3%
PETROCHEMICALS	HPE	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
PETROCHEMICALS	JKM	0	0	0.0%	0	0	0	3,335	1,921.2%	0	0	0.0%	0	0	0.0%	15,679	725	2,062.6%
PETROCHEMICALS	LPE	-	0	0.0%	-	0	0	-	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
PETROCHEMICALS	MAA	0	-	-	0	-	0	0	-	0	-	-	0	-	-	50	-	-
PETROCHEMICALS	MAC	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	50	-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 Comparison Report - Monthly

Commodity Indicator	Open Outcry NOV 2018	Open Outcry NOV 2017	% CHG	ELEC NOV 2018	ELEC NOV 2017	% CHG	CME ClearPort NOV 2018	CME ClearPort NOV 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG	CME ClearPort Y.T.D 2018	CME ClearPort Y.T.D 2017	% CHG	
Energy Futures																			
PETROCHEMICALS	MAE	0	0	0.0%	0	0	0	522	90	480.0%	0	0	0.0%	0	0	0.0%	2,564	500	412.8%
PETROCHEMICALS	MAS	0	0	0.0%	0	0	0	370	0	0.0%	0	0	0.0%	0	0	0.0%	2,081	375	454.9%
PETROCHEMICALS	MBE	0	0	0.0%	0	0	0	360	180	100.0%	0	0	0.0%	0	0	0.0%	8,890	12,240	-27.4%
PETROCHEMICALS	MNB	0	0	0.0%	0	0	0	1,272	2,021	-37.1%	0	0	0.0%	0	0	0.0%	19,650	19,235	2.2%
PETROCHEMICALS	MPS	0	0	0.0%	0	0	0	203	60	238.3%	0	0	0.0%	0	0	0.0%	1,353	100	1,253.0%
PETRO CRCKS & SPRDS ASIA	JNC	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	150	-100.0%
PETRO CRCKS & SPRDS ASIA	STI	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	182	-100.0%
PETRO CRCKS & SPRDS ASIA	STR	0	0	0.0%	0	0	0	300	0	0.0%	0	0	0.0%	0	0	0.0%	400	264	51.5%
PETRO CRCKS & SPRDS ASIA	STS	0	0	0.0%	0	0	0	30	378	-92.1%	0	0	0.0%	0	0	0.0%	539	1,688	-68.1%
PETRO CRCKS & SPRDS NA	CRB	0	0	0.0%	0	0	0	6,935	350	1,881.4%	0	0	0.0%	0	0	0.0%	29,825	2,780	972.8%
PETRO CRCKS & SPRDS NA	EXR	0	0	0.0%	0	0	0	1,897	2,090	-9.2%	0	0	0.0%	0	0	0.0%	31,209	27,091	15.2%
PETRO CRCKS & SPRDS NA	FOC	0	0	0.0%	0	0	0	200	150	33.3%	0	0	0.0%	0	0	0.0%	6,975	7,203	-3.2%
PETRO CRCKS & SPRDS NA	GBB	0	0	0.0%	0	0	0	440	1,275	-65.5%	0	0	0.0%	0	0	0.0%	12,725	12,903	-1.4%
PETRO CRCKS & SPRDS NA	GCC	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	1,740	1,310	32.8%
PETRO CRCKS & SPRDS NA	GCI	0	0	0.0%	0	0	0	539	350	54.0%	0	0	0.0%	0	0	0.0%	14,600	10,598	37.8%
PETRO CRCKS & SPRDS NA	GCM	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	163	59	176.3%
PETRO CRCKS & SPRDS NA	GCU	0	0	0.0%	0	0	0	6,359	9,956	-36.1%	0	0	0.0%	0	0	0.0%	122,174	65,632	86.2%
PETRO CRCKS & SPRDS NA	GFC	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	40	535	-92.5%
PETRO CRCKS & SPRDS NA	HOB	0	0	0.0%	0	0	0	453	3,207	-85.9%	0	0	0.0%	0	0	0.0%	9,122	32,936	-72.3%
PETRO CRCKS & SPRDS NA	KSD	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	75	-100.0%
PETRO CRCKS & SPRDS NA	MFR	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	4	0	0.0%
PETRO CRCKS & SPRDS NA	NFG	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	50	109	-54.1%
PETRO CRCKS & SPRDS NA	NYF	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	1,125	-100.0%
PETRO CRCKS & SPRDS NA	NYH	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
PETRO CRCKS & SPRDS NA	RBB	0	0	0.0%	0	0	0	3,315	6,552	-49.4%	0	0	0.0%	0	0	0.0%	57,610	84,679	-32.0%
PETRO CRCKS & SPRDS NA	RVG	0	0	0.0%	0	0	0	14,599	15,915	-8.3%	0	0	0.0%	0	0	0.0%	174,729	173,227	0.9%
PETRO CRCKS & SPRDS NA	SF3	0	0	0.0%	0	0	0	25	0	0.0%	0	0	0.0%	0	0	0.0%	346	15	2,206.7%
PETRO CRK&SPRD EURO	1NB	0	0	0.0%	0	0	0	1,625	645	151.9%	0	0	0.0%	0	0	0.0%	19,716	13,219	49.1%
PETRO CRK&SPRD EURO	1ND	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	100	425	-76.5%
PETRO CRK&SPRD EURO	43	0	0	0.0%	0	0	0	0	141	-100.0%	0	0	0.0%	0	0	0.0%	3,414	3,496	-2.3%
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	0.0%
PETRO CRK&SPRD EURO	BOB	0	0	0.0%	0	0	0	980	1,325	-26.0%	0	0	0.0%	0	0	0.0%	17,716	19,524	-9.3%
PETRO CRK&SPRD EURO	EGB	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	5	-100.0%
PETRO CRK&SPRD EURO	EGN	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	18	-100.0%

NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator	Open Outcry NOV 2018	Open Outcry NOV 2017	% CHG	ELEC NOV 2018	ELEC NOV 2017	% CHG	CME ClearPort NOV 2018	CME ClearPort NOV 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG	CME ClearPort Y.T.D 2018	CME ClearPort Y.T.D 2017	% CHG
Energy Futures																		
PETRO CRK&SPRD EURO	EOB	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	222	127	74.8%
PETRO CRK&SPRD EURO	EPN	0	0	0.0%	0	0	693	1,099	-36.9%	0	0	0.0%	0	0	0.0%	10,486	5,759	82.1%
PETRO CRK&SPRD EURO	EVC	0	0	0.0%	0	0	1,138	3,454	-67.1%	0	0	0.0%	0	0	0.0%	21,132	26,811	-21.2%
PETRO CRK&SPRD EURO	FBT	-	0	0.0%	-	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
PETRO CRK&SPRD EURO	FVB	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	30	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%	680	739	-8.0%
PETRO CRK&SPRD EURO	GOC	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	84	120	-30.0%
PETRO CRK&SPRD EURO	MGB	0	0	0.0%	0	0	110	80	37.5%	0	0	0.0%	0	0	0.0%	220	150	46.7%
PETRO CRK&SPRD EURO	MUD	0	0	0.0%	0	0	10	10	0.0%	0	0	0.0%	0	0	0.0%	173	898	-80.7%
PETRO CRK&SPRD EURO	NBB	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	182	134	35.8%
PETRO CRK&SPRD EURO	NOB	0	0	0.0%	0	0	2,271	1,125	101.9%	0	0	0.0%	0	0	0.0%	20,710	11,950	73.3%
PETRO CRK&SPRD EURO	SFB	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	125	178	-29.8%
PETROLEUM PRODUCTS	D46	-	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%
PETROLEUM PRODUCTS	EWG	0	0	0.0%	0	0	4,382	5,425	-19.2%	0	0	0.0%	0	0	0.0%	55,601	30,049	85.0%
PETROLEUM PRODUCTS	MBS	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	80	-100.0%
PETROLEUM PRODUCTS	MGS	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	20	-100.0%
PETROLEUM PRODUCTS	MHE	-	0	0.0%	-	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
PETROLEUM PRODUCTS	MME	0	0	0.0%	0	0	30	30	0.0%	0	0	0.0%	0	0	0.0%	60	50	20.0%
PETROLEUM PRODUCTS	MPE	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	100	-100.0%
PETROLEUM PRODUCTS	VU	0	0	0.0%	0	0	295	0	0.0%	0	0	0.0%	0	0	0.0%	1,339	3,014	-55.6%
PETROLEUM PRODUCTS ASIA	E6M	0	0	0.0%	0	0	0	20	-100.0%	0	0	0.0%	0	0	0.0%	714	242	195.0%
PETROLEUM PRODUCTS ASIA	MJN	0	0	0.0%	0	0	2,265	1,022	121.6%	0	0	0.0%	0	0	0.0%	21,300	19,395	9.8%
PETROLEUM PRODUCTS ASIA	MSB	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	45	-100.0%
PETRO OUTRIGHT EURO	OB	0	0	0.0%	0	0	40	50	-20.0%	0	0	0.0%	0	0	0.0%	124	163	-23.9%
PETRO OUTRIGHT EURO	OC	0	0	0.0%	0	0	0	40	-100.0%	0	0	0.0%	0	0	0.0%	23	70	-67.1%
PETRO OUTRIGHT EURO	OD	0	0	0.0%	0	0	1,491	1,804	-17.4%	0	0	0.0%	0	0	0.0%	14,592	25,276	-42.3%
PETRO OUTRIGHT EURO	OE	0	0	0.0%	0	0	0	8	-100.0%	0	0	0.0%	0	0	0.0%	238	4,104	-94.2%
PETRO OUTRIGHT EURO	OF	0	0	0.0%	0	0	444	433	2.5%	0	0	0.0%	0	0	0.0%	5,575	11,273	-50.5%
PETRO OUTRIGHT EURO	1T	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	39	102	-61.8%
PETRO OUTRIGHT EURO	33	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	80	-100.0%
PETRO OUTRIGHT EURO	5L	0	0	0.0%	0	0	40	0	0.0%	0	0	0.0%	0	0	0.0%	264	709	-62.8%
PETRO OUTRIGHT EURO	63	0	0	0.0%	0	0	40	10	300.0%	0	0	0.0%	0	0	0.0%	217	777	-72.1%
PETRO OUTRIGHT EURO	6L	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	7	-100.0%

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Commodity Indicator	Open Outcry NOV 2018	Open Outcry NOV 2017	% CHG	ELEC NOV 2018	ELEC NOV 2017	% CHG	CME ClearPort NOV 2018	CME ClearPort NOV 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG	CME ClearPort Y.T.D 2018	CME ClearPort Y.T.D 2017	% CHG
Energy Futures																		
PETRO OUTRIGHT EURO	7I	0	0.0%	0	0	0	74	0	0.0%	0	0	0.0%	0	0	0.0%	1,235	1,157	6.7%
PETRO OUTRIGHT EURO	7R	0	0.0%	0	0	0	73	145	-49.7%	0	0	0.0%	0	0	0.0%	3,006	2,505	20.0%
PETRO OUTRIGHT EURO	88	0	0.0%	0	0	0	20	15	33.3%	0	0	0.0%	0	0	0.0%	125	75	66.7%
PETRO OUTRIGHT EURO	CBB	0	0.0%	0	0	0	25	10	150.0%	0	0	0.0%	0	0	0.0%	80	52	53.8%
PETRO OUTRIGHT EURO	CGB	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	CPB	0	0.0%	0	0	0	127	5	2,440.0%	0	0	0.0%	0	0	0.0%	3,453	2,853	21.0%
PETRO OUTRIGHT EURO	EFF	0	0.0%	0	0	0	21	0	0.0%	0	0	0.0%	0	0	0.0%	185	310	-40.3%
PETRO OUTRIGHT EURO	EFM	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	453	-100.0%
PETRO OUTRIGHT EURO	ENS	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	145	180	-19.4%
PETRO OUTRIGHT EURO	ESB	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	69	-100.0%
PETRO OUTRIGHT EURO	EWN	0	0.0%	0	0	0	719	385	86.8%	0	0	0.0%	0	0	0.0%	7,862	7,491	5.0%
PETRO OUTRIGHT EURO	FBD	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	20	-100.0%
PETRO OUTRIGHT EURO	FLB	0	-	-	0	-	0	-	-	0	-	-	0	-	-	5	-	-
PETRO OUTRIGHT EURO	GES	0	-	-	0	-	0	-	-	0	-	-	0	-	-	5	-	-
PETRO OUTRIGHT EURO	MBB	0	0.0%	0	0	0	50	0	0.0%	0	0	0.0%	0	0	0.0%	321	550	-41.6%
PETRO OUTRIGHT EURO	MBN	0	0.0%	0	0	0	150	595	-74.8%	0	0	0.0%	0	0	0.0%	9,117	11,086	-17.8%
PETRO OUTRIGHT EURO	MEF	0	-	-	0	-	361	-	-	0	-	-	0	-	-	1,500	-	-
PETRO OUTRIGHT EURO	SMU	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	553	40	1,282.5%
PETRO OUTRIGHT EURO	T0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	9	164	-94.5%
PETRO OUTRIGHT EURO	ULB	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	375	-100.0%
PETRO OUTRIGHT EURO	V0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	980	150	553.3%
PETRO OUTRIGHT EURO	W0	-	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
PETRO OUTRIGHT EURO	X0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	116	0	0.0%
PETRO OUTRIGHT NA	FCB	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	808	1,836	-56.0%
PETRO OUTRIGHT NA	FOM	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	8	50	-84.0%
PETRO OUTRIGHT NA	GBA	-	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
PETRO OUTRIGHT NA	GUD	-	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
PETRO OUTRIGHT NA	JE	0	0.0%	0	0	0	42	0	0.0%	0	0	0.0%	0	0	0.0%	111	420	-73.6%
PETRO OUTRIGHT NA	JET	0	0.0%	0	0	0	1,965	2,726	-27.9%	0	0	0.0%	0	0	0.0%	33,390	44,086	-24.3%
PETRO OUTRIGHT NA	JTB	0	0.0%	0	0	0	900	375	140.0%	0	0	0.0%	0	0	0.0%	7,550	3,813	98.0%
PETRO OUTRIGHT NA	MBL	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	40	266	-85.0%
PETRO OUTRIGHT NA	MEN	0	0.0%	0	0	0	373	591	-36.9%	0	0	0.0%	0	0	0.0%	4,752	6,548	-27.4%
PETRO OUTRIGHT NA	MEO	0	0.0%	0	0	0	2,497	2,753	-9.3%	0	0	0.0%	0	0	0.0%	38,503	91,604	-58.0%
PETRO OUTRIGHT NA	MFD	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	100	203	-50.7%

NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator	Open Outcry NOV 2018	Open Outcry NOV 2017	% CHG	ELEC NOV 2018	ELEC NOV 2017	% CHG	CME ClearPort NOV 2018	CME ClearPort NOV 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG	CME ClearPort Y.T.D 2018	CME ClearPort Y.T.D 2017	% CHG	
Energy Futures																			
PETRO OUTRIGHT NA	MMF	0	0	0.0%	0	0	0	27	0	0.0%	0	0	0.0%	0	0	0.0%	220	510	-56.9%
PETRO OUTRIGHT NA	NYT	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	625	-100.0%
PETRO OUTRIGHT NA	XER	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	300	0	0.0%
PJM AD HUB 5MW REAL TIME	V3	0	0	0.0%	0	0	0	23,360	14,880	57.0%	0	0	0.0%	0	0	0.0%	64,757	288,349	-77.5%
PJM AD HUB 5MW REAL TIME	Z9	0	0	0.0%	0	0	0	1,285	0	0.0%	0	0	0.0%	0	0	0.0%	14,358	22,831	-37.1%
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	0.0%
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	0.0%
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	0.0%
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	0.0%
PJM ATSI ELEC	MOD	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	46,800	-100.0%
PJM ATSI ELEC	MPD	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	2,550	-100.0%
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%	0	0	0.0%
PJM BGE DA PEAK	E3	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
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	0.0%	0	85,390	-100.0%
PJM COMED 5MW D AH PK	D8	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	4,675	-100.0%
PJM DAILY	JD	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
PJM DAYTON DA OFF-PEAK	R7	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	211,995	-100.0%
PJM DAYTON DA PEAK	D7	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	5,250	-100.0%
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	0.0%
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	0.0%
PJM NI HUB 5MW REAL TIME	B3	0	0	0.0%	0	0	0	0	200	-100.0%	0	0	0.0%	0	0	0.0%	6,380	79,300	-92.0%
PJM NI HUB 5MW REAL TIME	B6	0	0	0.0%	0	0	0	0	19,120	-100.0%	0	0	0.0%	0	0	0.0%	5,925	1,719,650	-99.7%
PJM NILL DA OFF-PEAK	L3	0	0	0.0%	0	0	0	0	1,944	-100.0%	0	0	0.0%	0	0	0.0%	770	689,738	-99.9%
PJM NILL DA PEAK	N3	0	0	0.0%	0	0	0	0	160	-100.0%	0	0	0.0%	0	0	0.0%	64	39,492	-99.8%
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%	0	0	0.0%
PJM PECO ZONE5MW PEAK CA	4N	0	0	0.0%	0	0	0	2,960	0	0.0%	0	0	0.0%	0	0	0.0%	2,960	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	0.0%
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	0.0%
PJM PSEG DA OFF-PEAK	W6	0	0	0.0%	0	0	0	55,380	0	0.0%	0	0	0.0%	0	0	0.0%	78,780	0	0.0%
PJM PSEG DA PEAK	L6	0	0	0.0%	0	0	0	2,960	0	0.0%	0	0	0.0%	0	0	0.0%	4,235	0	0.0%
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%
PJM WESTH DA OFF-PEAK	E4	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	101,810	54,300	87.5%
PJM WESTHDA PEAK	J4	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	5,525	8,620	-35.9%
PJM WESTH RT OFF-PEAK	N9	0	0	0.0%	0	0	0	23,360	27,120	-13.9%	0	0	0.0%	0	0	0.0%	372,480	2,185,415	-83.0%

NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator	Open Outcry NOV 2018	Open Outcry NOV 2017	% CHG	ELEC NOV 2018	ELEC NOV 2017	% CHG	CME ClearPort NOV 2018	CME ClearPort NOV 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG	CME ClearPort Y.T.D 2018	CME ClearPort Y.T.D 2017	% CHG	
Energy Futures																			
PJM WESTH RT PEAK	L1	0	0	0.0%	0	0	0	1,799	4,600	-60.9%	0	0	0.0%	0	0	0.0%	60,990	208,591	-70.8%
PLASTICS	PGP	0	0	0.0%	0	0	0	709	270	162.6%	0	0	0.0%	0	0	0.0%	5,023	5,984	-16.1%
PREMIUM UNLD 10P FOB MED	3G	0	0	0.0%	0	0	0	446	193	131.1%	0	0	0.0%	0	0	0.0%	2,838	864	228.5%
PREMIUM UNLEAD 10PPM FOB	8G	0	0	0.0%	0	0	0	5	10	-50.0%	0	0	0.0%	0	0	0.0%	443	162	173.5%
PREM UNL GAS 10PPM RDAM F	7N	0	0	0.0%	0	0	0	3	0	0.0%	0	0	0.0%	0	0	0.0%	83	7	1,085.7%
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%	326	37	781.1%
PROPANE NON-LDH MB (OPIS)	1S	0	0	0.0%	0	0	0	7	0	0.0%	0	0	0.0%	0	0	0.0%	5,196	4,927	5.5%
PROPANE NON-LDH MT. BEL (O	1R	0	0	0.0%	0	0	0	12,383	9,825	26.0%	0	0	0.0%	0	0	0.0%	139,177	78,535	77.2%
RBOB CALENDAR SWAP	RL	0	0	0.0%	0	0	0	3,612	7,924	-54.4%	0	0	0.0%	0	5	-100.0%	62,151	79,933	-22.2%
RBOB CRACK SPREAD	RM	0	0	0.0%	0	0	0	55	650	-91.5%	0	0	0.0%	0	0	0.0%	9,583	10,807	-11.3%
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	0	0.0%
RBOB GASOLINE BALMO CLND	1D	0	0	0.0%	0	0	0	396	815	-51.4%	0	0	0.0%	0	0	0.0%	11,178	10,365	7.8%
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%	-	0	0.0%	-	0	0.0%	-	0	0.0%
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%
RBOB VS HEATING OIL SWAP	RH	0	0	0.0%	0	0	0	0	200	-100.0%	0	0	0.0%	0	0	0.0%	1,975	17,070	-88.4%
ROCKIES KERN OPAL - NW IN	IR	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
SAN JUAN BASIS SWAP	NJ	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	58	2,254	-97.4%
SAN JUAN PIPE SWAP	XX	0	-	-	0	-	0	0	-	-	0	-	0	-	-	0	360	-	-
SINGAPORE 180CST BALMO	BS	0	0	0.0%	0	0	0	10	110	-90.9%	0	0	0.0%	0	0	0.0%	483	682	-29.2%
SINGAPORE 380CST BALMO	BT	0	0	0.0%	0	0	0	93	373	-75.1%	0	0	0.0%	0	0	0.0%	2,294	2,528	-9.3%
SINGAPORE 380CST FUEL OIL	SE	0	0	0.0%	0	0	0	7,770	8,298	-6.4%	0	0	0.0%	0	0	0.0%	91,963	105,852	-13.1%
SINGAPORE FUEL 180CST CAL	UA	0	0	0.0%	0	0	0	426	849	-49.8%	0	0	0.0%	0	0	0.0%	8,482	11,375	-25.4%
SINGAPORE FUEL OIL SPREAD	SD	0	0	0.0%	0	0	0	175	145	20.7%	0	0	0.0%	0	0	0.0%	6,186	6,943	-10.9%
SINGAPORE GASOIL	MAF	0	-	-	0	-	0	747	-	-	0	-	0	-	-	0	2,053	-	-
SINGAPORE GASOIL	MTB	0	0	0.0%	0	0	0	48	30	60.0%	0	0	0.0%	0	0	0.0%	554	1,520	-63.6%
SINGAPORE GASOIL	MTS	0	0	0.0%	0	0	0	5,698	4,382	30.0%	0	0	0.0%	0	0	0.0%	52,920	52,537	0.7%
SINGAPORE GASOIL	STL	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
SINGAPORE GASOIL	STZ	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	4,300	800	437.5%
SINGAPORE GASOIL CALEND	GDH	0	-	-	0	-	0	0	-	-	0	-	0	-	-	0	50	-	-
SINGAPORE GASOIL CALEND	GDL	0	-	-	0	-	0	0	-	-	0	-	0	-	-	0	250	-	-
SINGAPORE GASOIL CALEND	GHS	0	-	-	0	-	0	0	-	-	0	-	0	-	-	0	0	-	-
SINGAPORE GASOIL CALEND	MGO	0	-	-	0	-	0	0	-	-	0	-	0	-	-	0	200	-	-

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Commodity Indicator	Open Outcry NOV 2018	Open Outcry NOV 2017	% CHG	ELEC NOV 2018	ELEC NOV 2017	% CHG	CME ClearPort NOV 2018	CME ClearPort NOV 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG	CME ClearPort Y.T.D 2018	CME ClearPort Y.T.D 2017	% CHG	
Energy Futures																			
SINGAPORE GASOIL CALEND	MSG	0	0	0.0%	0	0	0	130	493	-73.6%	0	0	0.0%	0	0	0.0%	4,882	3,153	54.8%
SINGAPORE GASOIL CALEND	SGG	0	-	-	0	-	0	0	-	-	0	-	0	-	-	325	-	-	
SINGAPORE GASOIL SWAP	SG	0	0	0.0%	0	0	0	1,585	1,163	36.3%	0	0	0.0%	2	36	-94.4%	47,257	89,033	-46.9%
SINGAPORE GASOIL VS ICE	GA	0	0	0.0%	0	0	0	2,403	40	5,907.5%	0	0	0.0%	0	0	0.0%	128,813	70,169	83.6%
SINGAPORE JET KERO BALMO	BX	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	215	536	-59.9%
SINGAPORE JET KERO GASOIL	RK	0	0	0.0%	0	0	0	675	225	200.0%	0	0	0.0%	0	0	0.0%	34,820	18,310	90.2%
SINGAPORE JET KEROSENE S	KS	0	0	0.0%	0	0	0	275	350	-21.4%	0	0	0.0%	0	0	0.0%	13,275	12,979	2.3%
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%	400	50	700.0%
SINGAPORE MOGAS 92 UNLEA	1P	0	0	0.0%	0	0	0	50	265	-81.1%	0	0	0.0%	0	0	0.0%	5,771	1,796	221.3%
SINGAPORE MOGAS 92 UNLEA	1N	0	0	0.0%	0	0	0	14,066	9,249	52.1%	0	0	0.0%	2	5	-60.0%	151,952	81,956	85.4%
SINGAPORE NAPHTHA BALMO	KU	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
SINGAPORE NAPHTHA SWAP	SP	0	-	-	0	-	0	0	-	-	0	-	0	-	-	200	-	-	
SING FUEL	MSD	0	0	0.0%	0	0	0	0	50	-100.0%	0	0	0.0%	0	0	0.0%	100	120	-16.7%
SOCAL PIPE SWAP	XN	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
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	0	0.0%
SOUTHERN NAT LA NAT GAS	M8	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
SOUTH STAR TEX OKLHM KNS	8Z	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
Sumas Basis Swap	NK	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	91	6,238	-98.5%
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%	0	306	-100.0%
TC2 ROTTERDAM TO USAC 37K	TM	0	0	0.0%	0	0	0	195	80	143.8%	0	0	0.0%	0	0	0.0%	1,052	80	1,215.0%
TC5 RAS TANURA TO YOKOHA	TH	0	0	0.0%	0	0	0	160	0	0.0%	0	0	0.0%	0	0	0.0%	1,185	0	0.0%
TCO BASIS SWAP	TC	0	0	0.0%	0	0	0	0	667	-100.0%	0	0	0.0%	0	0	0.0%	0	8,949	-100.0%
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	0	0.0%
TD3 MEG TO JAPAN 250K MT	TL	0	0	0.0%	0	0	0	5,110	0	0.0%	0	0	0.0%	0	0	0.0%	17,546	30	58,386.7%
TENN 800 LEG NAT GAS INDE	L4	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
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%	0	428	-100.0%
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	0	0.0%
TENNESSEE ZONE 0 BASIS SW	NQ	0	0	0.0%	0	0	0	0	484	-100.0%	0	0	0.0%	0	0	0.0%	0	484	-100.0%
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	0	0.0%
Tetco STX Basis	TX	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
TEXAS EASTERN ZONE M-3 BA	NX	0	0	0.0%	0	0	0	0	908	-100.0%	0	0	0.0%	0	0	0.0%	0	9,512	-100.0%
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	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%	0	302	-100.0%
TRANSCO ZONE 3 NG INDEX S	Y6	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	6,256	-100.0%

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Commodity Indicator	Open Outcry NOV 2018	Open Outcry NOV 2017	% CHG	ELEC NOV 2018	ELEC NOV 2017	% CHG	CME ClearPort NOV 2018	CME ClearPort NOV 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG	CME ClearPort Y.T.D 2018	CME ClearPort Y.T.D 2017	% CHG	
Energy Futures																			
TRANSCO ZONE4 BASIS SWAP	TR	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	13,239	-100.0%	
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	-100.0%	
TRANSCO ZONE 6 BASIS SWAP	NZ	0	0	0.0%	0	0	0	856	-100.0%	0	0	0.0%	0	0	0.0%	0	3,726	-100.0%	
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	-100.0%	
UCM FUT	UCM	0	0	0.0%	0	0	0	30	-100.0%	0	0	0.0%	0	0	0.0%	60	295	-79.7%	
ULSD 10PPM CIF MED BALMO	X7	-	0	0.0%	-	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%	
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	-100.0%	
ULSD 10PPM CIF MED VS ICE	Z7	0	0	0.0%	0	0	0	15	-100.0%	0	0	0.0%	0	0	0.0%	14	81	-82.7%	
ULSD 10PPM CIF NW BALMO S	B1	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	6	-100.0%	
ULSD 10PPM CIF VS ICE GAS	7V	-	0	0.0%	-	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%	
ULSD UP-DOWN BALMO SWP	1L	0	0	0.0%	0	0	7,971	6,771	17.7%	0	0	0.0%	0	0	0.0%	64,075	53,463	19.8%	
UP DOWN GC ULSD VS NMX H	LT	0	0	0.0%	0	0	35,075	41,802	-16.1%	0	0	0.0%	0	0	0.0%	362,695	516,471	-29.8%	
USGC UNL 87 CRACK SPREAD	RU	-	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	0.0%	0	0	0.0%	0	0	0.0%	3,201	6,064	-47.2%	
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	0.0%	
WESTERN RAIL DELIVERY PRB	QP	0	0	0.0%	0	0	0	120	-100.0%	0	0	0.0%	0	0	0.0%	25	2,520	-99.0%	
WTI-BRENT BULLET SWAP	BY	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	6,650	904	635.6%	
WTI-BRENT CALENDAR SWAP	BK	0	0	0.0%	0	0	18,361	38,056	-51.8%	0	0	0.0%	6	120	-95.0%	333,505	209,302	59.3%	
WTI CALENDAR	CS	0	0	0.0%	0	0	37,140	37,055	0.2%	0	0	0.0%	0	0	0.0%	373,579	405,892	-8.0%	
WTS (ARGUS) VS WTI SWAP	FF	0	0	0.0%	0	0	3,138	6,022	-47.9%	0	0	0.0%	0	0	0.0%	88,728	59,192	49.9%	
WTS (ARGUS) VS WTI TRD MT	FH	0	0	0.0%	0	0	120	1,626	-92.6%	0	0	0.0%	0	0	0.0%	6,225	9,936	-37.3%	
Energy Options																			
12 MO GASOIL CAL SWAP SPR	GXZ	0	0	0.0%	0	0	0	200	-100.0%	0	0	0.0%	0	0	0.0%	0	830	-100.0%	
1 MO GASOIL CAL SWAP SPR	GXA	-	0	0.0%	-	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%	
BRENT 1 MONTH CAL	AA	0	-	-	0	-	0	-	-	0	-	-	0	-	-	3,000	-	-	
BRENT CALENDAR SWAP	BA	0	0	0.0%	12	0	274	0	0.0%	0	0	0.0%	24	0	0.0%	13,438	5,347	151.3%	
BRENT CRUDE OIL 12 M CSO	9Y	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	2,000	2,000	0.0%	
BRENT CRUDE OIL 1 M CSO	9C	0	-	-	100	-	500	-	-	0	-	-	3,000	-	-	408,088	-	-	
BRENT CRUDE OIL 6 M CSO	9L	0	-	-	0	-	0	-	-	0	-	-	0	-	-	1,000	-	-	
BRENT OIL LAST DAY	BE	0	0	0.0%	0	0	104,456	1,709	6,012.1%	0	0	0.0%	0	0	0.0%	404,176	37,281	984.1%	
BRENT OIL LAST DAY	BZO	0	0	0.0%	126,936	26,233	3.84	54,150	42,207	28.3%	0	0	0.0%	804,459	129,419	521.6%	1,064,258	336,835	216.0%

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 2018	Open Outcry NOV 2017	% CHG	ELEC NOV 2018	ELEC NOV 2017	% CHG	CME ClearPort NOV 2018	CME ClearPort NOV 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG	CME ClearPort Y.T.D 2018	CME ClearPort Y.T.D 2017	% CHG	
Energy Options																			
BRENT OIL LAST DAY	OS	0	0	0.0%	0	48	-1	0	0	0.0%	0	0	0.0%	190	192	-1.0%	1,000	3,700	-73.0%
COAL API2 INDEX	CLA	0	0	0.0%	0	0	0	165	325	-49.2%	0	0	0.0%	0	0	0.0%	6,590	10,208	-35.4%
COAL API2 INDEX	CQA	0	0	0.0%	0	0	0	175	20	775.0%	0	0	0.0%	0	0	0.0%	3,655	775	371.6%
COAL API2 INDEX	MTC	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	50	-100.0%
COAL API4 INDEX	RLA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	25	0	0.0%
COAL API4 INDEX	RQA	0	0	0.0%	0	0	0	0	30	-100.0%	0	0	0.0%	0	0	0.0%	60	30	100.0%
COAL SWAP	CPF	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	180	-100.0%
COAL SWAP	RPF	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	605	-100.0%
CRUDE OIL 1MO	WA	0	0	0.0%	37,230	62,490	-0.4	166,015	156,650	6.0%	0	0	0.0%	188,985	385,190	-50.9%	2,042,165	1,594,989	28.0%
CRUDE OIL APO	AO	0	0	0.0%	5	65	-0.92	53,097	65,300	-18.7%	0	0	0.0%	336	135	148.9%	486,562	545,083	-10.7%
CRUDE OIL CALNDR STRIP	6F	0	-	-	0	-		0	-	-	0	-	-	-	-		170	-	-
CRUDE OIL OUTRIGHTS	AH	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	8,000	0	0.0%
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	0.0%
CRUDE OIL OUTRIGHTS	WCI	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	390	11,770	-96.7%
CRUDE OIL PHY	CD	0	0	0.0%	0	0	0	0	2,140	-100.0%	0	0	0.0%	0	25	-100.0%	20,850	31,235	-33.2%
CRUDE OIL PHY	LC	0	0	0.0%	0	0	0	24,764	15,815	56.6%	0	0	0.0%	724	13	5,469.2%	128,251	248,629	-48.4%
CRUDE OIL PHY	LO	0	0	0.0%	4,712,119	3,320,547	0.42	1,141,431	702,319	62.5%	0	0	0.0%	33,798,750	32,397,260	4.3%	7,496,204	8,166,309	-8.2%
CRUDE OIL PHY	LO1	0	0	0.0%	11,326	16,401	-0.31	0	0	0.0%	0	0	0.0%	169,105	159,009	6.3%	483	750	-35.6%
CRUDE OIL PHY	LO2	0	0	0.0%	20,248	26,199	-0.23	0	0	0.0%	0	0	0.0%	178,384	149,782	19.1%	450	250	80.0%
CRUDE OIL PHY	LO3	0	0	0.0%	28,426	13,257	1.14	0	50	-100.0%	0	0	0.0%	134,768	95,792	40.7%	325	250	30.0%
CRUDE OIL PHY	LO4	0	0	0.0%	24,112	17,281	0.4	0	0	0.0%	0	0	0.0%	183,252	179,251	2.2%	350	300	16.7%
CRUDE OIL PHY	LO5	0	0	0.0%	21,680	0	0	250	0	0.0%	0	0	0.0%	71,160	53,239	33.7%	475	250	90.0%
ELEC FINSETTLED	PML	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
ELEC MISO PEAK	9T	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	820	-100.0%
ETHANOL	CE1	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	275	75	266.7%
ETHANOL	CE3	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	150	325	-53.8%
ETHANOL SWAP	CVR	0	0	0.0%	0	0	0	3,155	10,218	-69.1%	0	0	0.0%	0	0	0.0%	66,358	67,303	-1.4%
ETHANOL SWAP	GVR	0	0	0.0%	0	0	0	375	78	380.8%	0	0	0.0%	0	0	0.0%	3,493	1,658	110.7%
EURO-DENOMINATED PETRO P	NWE	-	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%	0	0	0.0%
GASOLINE	GCE	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 CRACK OPTIONS	CH	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	100	-100.0%
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%	0	0	0.0%
HEATING OIL PHY	LB	0	0	0.0%	0	0	0	699	0	0.0%	0	0	0.0%	0	8	-100.0%	1,719	2,720	-36.8%

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Energy Options																			
HEATING OIL PHY	OH	0	0	0.0%	7,385	4,252	0.74	47,086	30,036	56.8%	0	0	0.0%	58,392	53,911	8.3%	291,086	302,914	-3.9%
HENRY HUB FINANCIAL LAST	E7	0	0	0.0%	0	0	0	4,073	2,722	49.6%	0	0	0.0%	5	0	0.0%	48,003	41,398	16.0%
HO 1 MONTH CLNDR OPTIONS	FA	0	0	0.0%	0	0	0	2,500	0	0.0%	0	0	0.0%	0	0	0.0%	2,600	1,700	52.9%
HUSTN SHIP CHNL PIPE SWP	PK	-	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	0	1,800	-100.0%	0	0	0.0%	0	0	0.0%	100	6,900	-98.6%
LLS CRUDE OIL	YVO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	3,750	-100.0%
MCCLOSKY ARA ARGS COAL	MTO	0	0	0.0%	0	0	0	0	150	-100.0%	0	0	0.0%	0	0	0.0%	290	1,600	-81.9%
MCCLOSKY RCH BAY COAL	MFO	0	0	0.0%	0	0	0	70	0	0.0%	0	0	0.0%	0	0	0.0%	2,145	0	0.0%
NATURAL GAS	G10	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	450	-100.0%
NATURAL GAS 1 M CSO FIN	G4	0	0	0.0%	250	0	0	122,900	42,765	187.4%	0	0	0.0%	2,629	3,920	-32.9%	489,641	427,074	14.7%
NATURAL GAS 2 M CSO FIN	G2	0	0	0.0%	0	0	0	30	2,000	-98.5%	0	0	0.0%	0	0	0.0%	1,430	11,550	-87.6%
NATURAL GAS 3 M CSO FIN	G3	0	0	0.0%	0	0	0	0	26,000	-100.0%	0	0	0.0%	1	0	0.0%	44,245	146,425	-69.8%
NATURAL GAS 5 M CSO FIN	G5	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	2,550	4,050	-37.0%
NATURAL GAS 6 M CSO FIN	G6	0	0	0.0%	0	0	0	12,100	6,600	83.3%	0	0	0.0%	0	0	0.0%	96,500	57,270	68.5%
NATURAL GAS OPTION ON CAL	6J	0	0	0.0%	0	0	0	6,660	2,900	129.7%	0	0	0.0%	0	0	0.0%	34,302	12,670	170.7%
NATURAL GAS PHY	KD	0	0	0.0%	2,290	37,557	-0.94	3,750	15,230	-75.4%	0	0	0.0%	123,504	135,512	-8.9%	78,085	320,305	-75.6%
NATURAL GAS PHY	LN	0	0	0.0%	1,822,630	1,669,852	0.09	1,145,449	1,088,805	5.2%	0	0	0.0%	12,981,852	11,941,723	8.7%	8,146,196	12,979,849	-37.2%
NATURAL GAS PHY	ON	0	0	0.0%	357,252	255,081	0.4	63,148	7,862	703.2%	0	0	0.0%	2,079,227	2,145,533	-3.1%	155,736	78,922	97.3%
NATURAL GAS PHY	ON1	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
NATURAL GAS WINTER STRIP	6I	0	-	-	0	-	0	0	-	-	0	-	0	-	-	-	2,700	-	-
NG HH 3 MONTH CAL	IC	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
N ROCKIES PIPE SWAP	ZR	0	0	0.0%	0	0	0	1,540	0	0.0%	0	0	0.0%	0	0	0.0%	3,556	4,030	-11.8%
NY HARBOR HEAT OIL SWP	AT	0	0	0.0%	44	26	0.69	5,965	2,847	109.5%	0	0	0.0%	602	509	18.3%	31,500	34,870	-9.7%
NYISO ZONE G 5MW PEAK OPT	9U	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	19,830	-100.0%
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	0	0.0%
NYMEX EUROPEAN GASOIL OP	F8	-	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	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	8,640	-100.0%
PETROCHEMICALS	4H	0	0	0.0%	0	8	-1	10	635	-98.4%	0	0	0.0%	23	16	43.8%	6,639	8,361	-20.6%
PETROCHEMICALS	4J	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	1,350	2,945	-54.2%
PETROCHEMICALS	4K	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	3,300	1,200	175.0%
PETROCHEMICALS	CPR	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	18	-100.0%
PETRO OUTRIGHT EURO	8H	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	300	-100.0%
PETRO OUTRIGHT NA	DAP	0	0	0.0%	0	0	0	360	72	400.0%	0	0	0.0%	0	0	0.0%	552	72	666.7%
PJM MONTHLY	JO	-	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 2018	Open Outcry NOV 2017	% CHG	ELEC NOV 2018	ELEC NOV 2017	% CHG	CME ClearPort NOV 2018	CME ClearPort NOV 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG	CME ClearPort Y.T.D 2018	CME ClearPort Y.T.D 2017	% CHG	
Energy Options																			
PJM WES HUB PEAK CAL MTH	6OA	0	0	0.0%	0	0	0	80	0	0.0%	0	0	0.0%	0	0	0.0%	800	3,960	-79.8%
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%	880	0	0.0%
PJM WES HUB PEAK LMP 50MM	PMA	0	0	0.0%	0	0	0	84	788	-89.3%	0	0	0.0%	0	0	0.0%	7,488	13,817	-45.8%
RBOB 1MO CAL SPD OPTIONS	ZA	0	0	0.0%	0	0	0	0	1,200	-100.0%	0	0	0.0%	0	0	0.0%	700	6,708	-89.6%
RBOB CALENDAR SWAP	RA	0	0	0.0%	0	0	0	75	50	50.0%	0	0	0.0%	0	10	-100.0%	1,125	2,855	-60.6%
RBOB CRACK	RX	0	-	-	0	-	0	0	-	-	0	-	-	2	-	-	0	-	-
RBOB PHY	OB	0	0	0.0%	2,901	6,740	-0.57	11,775	6,925	70.0%	0	0	0.0%	36,662	75,996	-51.8%	99,462	206,761	-51.9%
RBOB PHY	RF	0	0	0.0%	0	0	0	0	175	-100.0%	0	0	0.0%	0	0	0.0%	125	1,335	-90.6%
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%	0	0	0.0%
SAN JUAN PIPE SWAP	PJ	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	2,149	3,240	-33.7%
SHORT TERM	C15	0	-	-	0	-	0	0	-	-	0	-	0	-	-	0	500	-	-
SHORT TERM	U11	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	111	30	270.0%	1,125	5,940	-81.1%
SHORT TERM	U12	0	0	0.0%	0	0	0	800	0	0.0%	0	0	0.0%	100	0	0.0%	1,800	4,604	-60.9%
SHORT TERM	U13	0	0	0.0%	0	52	-1	100	1,350	-92.6%	0	0	0.0%	0	124	-100.0%	500	3,835	-87.0%
SHORT TERM	U14	0	0	0.0%	0	225	-1	0	50	-100.0%	0	0	0.0%	13	225	-94.2%	850	3,405	-75.0%
SHORT TERM	U15	0	0	0.0%	0	0	0	0	500	-100.0%	0	0	0.0%	147	25	488.0%	650	5,200	-87.5%
SHORT TERM	U22	0	0	0.0%	0	0	0	0	100	-100.0%	0	0	0.0%	96	25	284.0%	1,175	2,957	-60.3%
SHORT TERM	U23	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	148	100	48.0%	750	1,572	-52.3%
SHORT TERM	U24	0	0	0.0%	0	5	-1	0	0	0.0%	0	0	0.0%	379	5	7,480.0%	500	3,220	-84.5%
SHORT TERM	U25	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	2	0	0.0%	150	940	-84.0%
SHORT TERM	U26	0	0	0.0%	0	0	0	200	0	0.0%	0	0	0.0%	0	0	0.0%	600	292	105.5%
SHORT TERM NATURAL GAS	U01	0	0	0.0%	0	201	-1	0	200	-100.0%	0	0	0.0%	0	201	-100.0%	550	3,515	-84.4%
SHORT TERM NATURAL GAS	U02	0	0	0.0%	0	100	-1	0	375	-100.0%	0	0	0.0%	98	158	-38.0%	2,700	3,800	-28.9%
SHORT TERM NATURAL GAS	U03	0	0	0.0%	0	53	-1	750	0	0.0%	0	0	0.0%	54	53	1.9%	2,225	2,220	0.2%
SHORT TERM NATURAL GAS	U04	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	125	0	0.0%	1,850	1,170	58.1%
SHORT TERM NATURAL GAS	U05	0	0	0.0%	0	0	0	200	0	0.0%	0	0	0.0%	100	35	185.7%	1,530	10,105	-84.9%
SHORT TERM NATURAL GAS	U06	0	0	0.0%	0	100	-1	0	525	-100.0%	0	0	0.0%	50	285	-82.5%	1,450	8,385	-82.7%
SHORT TERM NATURAL GAS	U07	0	0	0.0%	0	115	-1	250	100	150.0%	0	0	0.0%	1	115	-99.1%	1,850	3,385	-45.3%
SHORT TERM NATURAL GAS	U08	0	0	0.0%	0	162	-1	0	600	-100.0%	0	0	0.0%	52	162	-67.9%	1,425	5,070	-71.9%
SHORT TERM NATURAL GAS	U09	0	0	0.0%	0	173	-1	100	260	-61.5%	0	0	0.0%	34	314	-89.2%	1,600	4,900	-67.3%
SHORT TERM NATURAL GAS	U10	0	0	0.0%	0	277	-1	0	100	-100.0%	0	0	0.0%	0	277	-100.0%	1,250	5,752	-78.3%
SHORT TERM NATURAL GAS	U16	0	0	0.0%	0	115	-1	0	450	-100.0%	0	0	0.0%	150	390	-61.5%	550	6,620	-91.7%
SHORT TERM NATURAL GAS	U17	0	0	0.0%	0	33	-1	0	925	-100.0%	0	0	0.0%	96	43	123.3%	2,200	5,104	-56.9%
SHORT TERM NATURAL GAS	U18	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	22	85	-74.1%	1,600	1,612	-0.7%

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Energy Options																		
SHORT TERM NATURAL GAS U19	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	123	175	-29.7%	225	4,385	-94.9%
SHORT TERM NATURAL GAS U20	0	0	0.0%	0	127	-1	0	350	-100.0%	0	0	0.0%	25	210	-88.1%	1,400	3,795	-63.1%
SHORT TERM NATURAL GAS U21	0	0	0.0%	0	188	-1	0	300	-100.0%	0	0	0.0%	13	188	-93.1%	350	3,024	-88.4%
SHORT TERM NATURAL GAS U27	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	25	0	0.0%	400	1,870	-78.6%
SHORT TERM NATURAL GAS U28	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	100	3,255	-96.9%
SHORT TERM NATURAL GAS U29	0	0	0.0%	0	221	-1	50	100	-50.0%	0	0	0.0%	10	221	-95.5%	500	535	-6.5%
SHORT TERM NATURAL GAS U30	0	0	0.0%	0	670	-1	0	300	-100.0%	0	0	0.0%	0	675	-100.0%	100	4,070	-97.5%
SHORT TERM NATURAL GAS U31	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	27	50	-46.0%	0	6,200	-100.0%
SINGAPORE GASOIL CALENDAR 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 CALENDAR N2	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
SOCAL PIPE SWAP ZN	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
WTI-BRENT BULLET SWAP BV	0	0	0.0%	2,300	13,024	-0.82	29,135	57,050	-48.9%	0	0	0.0%	148,335	54,628	171.5%	690,395	450,923	53.1%
WTI CRUDE OIL 1 M CSO FI 7A	0	0	0.0%	0	3,700	-1	144,140	125,600	14.8%	0	0	0.0%	15,050	7,700	95.5%	851,990	693,115	22.9%

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Metals Futures																			
COMEX GOLD	GC	0	0	0.0%	6,115,530	8,313,211	-0.26	235,710	310,127	-24.0%	0	0	0.0%	73,507,108	65,353,608	12.5%	2,662,473	2,261,536	17.7%
NYMEX HOT ROLLED STEEL	HR	0	0	0.0%	3,633	837	3.34	8,353	3,761	122.1%	0	0	0.0%	33,933	4,742	615.6%	78,431	52,956	48.1%
NYMEX PLATINUM	PL	0	0	0.0%	361,546	373,171	-0.03	11,303	7,833	44.3%	0	0	0.0%	4,829,803	4,151,624	16.3%	135,831	131,001	3.7%
PALLADIUM	PA	0	0	0.0%	143,577	148,736	-0.03	4,533	4,481	1.2%	0	0	0.0%	1,304,704	1,265,327	3.1%	54,120	64,523	-16.1%
URANIUM	UX	0	0	0.0%	27	2	12.5	2,142	976	119.5%	0	0	0.0%	793	429	84.8%	5,655	5,023	12.6%
COMEX SILVER	SI	0	0	0.0%	2,239,156	2,468,023	-0.09	59,969	71,491	-16.1%	0	0	0.0%	22,056,704	21,142,786	4.3%	629,727	504,097	24.9%
COMEX E-Mini GOLD	QO	0	0	0.0%	9,527	7,107	0.34	0	0	0.0%	0	0	0.0%	91,830	87,450	5.0%	0	0	0.0%
COMEX E-Mini SILVER	QI	0	0	0.0%	1,047	806	0.3	0	0	0.0%	0	0	0.0%	12,554	8,890	41.2%	0	0	0.0%
COMEX COPPER	HG	0	0	0.0%	2,521,183	2,961,088	-0.15	25,540	31,341	-18.5%	0	0	0.0%	31,009,521	24,409,645	27.0%	294,445	288,227	2.2%
COMEX MINY COPPER	QC	0	0	0.0%	337	629	-0.46	0	0	0.0%	0	0	0.0%	4,933	7,642	-35.4%	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%	72	30	140.0%
ALUMINUM	AEP	0	0	0.0%	118	0	0	3,729	2,886	29.2%	0	0	0.0%	118	78	51.3%	18,459	27,545	-33.0%
ALUMINUM	ALA	0	0	0.0%	0	0	0	240	75	220.0%	0	0	0.0%	0	0	0.0%	5,755	5,425	6.1%
ALUMINUM	ALI	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	4,197	-100.0%	0	1,061	-100.0%
ALUMINUM	AUP	0	0	0.0%	357	398	-0.1	7,769	4,364	78.0%	0	0	0.0%	8,155	2,665	206.0%	87,333	73,682	18.5%
ALUMINUM	CUP	0	-	-	0	-	0	-	-	0	-	-	25	-	-	180	-	-	
ALUMINUM	EDP	0	0	0.0%	75	0	0	1,530	480	218.8%	0	0	0.0%	122	44	177.3%	16,974	9,586	77.1%
ALUMINUM	MJP	0	0	0.0%	0	0	0	540	1,695	-68.1%	0	0	0.0%	76	260	-70.8%	12,299	15,303	-19.6%
COPPER	HGS	0	0	0.0%	0	0	0	1,417	3,437	-58.8%	0	0	0.0%	0	0	0.0%	16,263	5,043	222.5%
E-MICRO GOLD	MGC	0	0	0.0%	161,742	112,421	0.44	0	0	0.0%	0	0	0.0%	1,645,616	1,058,548	55.5%	0	0	0.0%
FERROUS PRODUCTS	BUS	0	0	0.0%	305	0	0	1,583	170	831.2%	0	0	0.0%	1,123	85	1,221.2%	17,852	1,305	1,268.0%
GOLD	GPS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	1	-100.0%	0	0	0.0%
Gold Kilo	GCK	0	0	0.0%	0	285	-1	0	0	0.0%	0	0	0.0%	136	3,561	-96.2%	0	0	0.0%
IRON ORE 62 CHINA PLATTS FL	PIO	0	0	0.0%	0	0	0	0	870	-100.0%	0	0	0.0%	0	0	0.0%	0	9,432	-100.0%
IRON ORE 62 CHINA TSI FUTUR	TIO	0	0	0.0%	23	30	-0.23	4,770	3,670	30.0%	0	0	0.0%	172	2,840	-93.9%	42,374	84,534	-49.9%
LNDN ZINC	ZNC	0	0	0.0%	2,931	10	292.1	0	0	0.0%	0	0	0.0%	13,475	125	10,680.0%	0	0	0.0%
METALS	LED	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	0	0	0.0%	-	0	0.0%
SILVER	SIL	0	0	0.0%	12,447	7,866	0.58	0	0	0.0%	0	0	0.0%	89,789	66,270	35.5%	0	0	0.0%



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Metals Options																			
COMEX COPPER	HX	0	0	0.0%	33,435	11,975	1.79	7,542	700	977.4%	0	0	0.0%	240,145	82,241	192.0%	86,098	5,120	1,581.6%
COMEX GOLD	OG	0	0	0.0%	719,309	564,034	0.28	169,658	174,293	-2.7%	0	0	0.0%	8,548,130	7,077,375	20.8%	2,232,220	2,067,924	7.9%
COMEX SILVER	SO	0	0	0.0%	131,793	84,947	0.55	37,209	19,791	88.0%	0	0	0.0%	1,415,708	1,161,289	21.9%	316,742	165,656	91.2%
COPPER	H1E	0	-	-	15	-	100	-	-	0	-	-	62	-	-	100	-	-	
COPPER	H2E	0	-	-	12	-	0	-	-	0	-	-	148	-	-	0	-	-	
COPPER	H3E	0	-	-	6	-	0	-	-	0	-	-	113	-	-	0	-	-	
COPPER	H4E	0	-	-	2	-	0	-	-	0	-	-	171	-	-	0	-	-	
COPPER	H5E	0	-	-	0	-	0	-	-	0	-	-	12	-	-	0	-	-	
GOLD	OG1	0	0	0.0%	8,864	8,140	0.09	450	150	200.0%	0	0	0.0%	120,630	41,064	193.8%	1,910	1,650	15.8%
GOLD	OG2	0	0	0.0%	10,640	8,959	0.19	150	0	0.0%	0	0	0.0%	109,378	39,641	175.9%	3,520	2,658	32.4%
GOLD	OG3	0	0	0.0%	16,931	4,609	2.67	100	0	0.0%	0	0	0.0%	122,037	39,520	208.8%	4,000	1,915	108.9%
GOLD	OG4	0	0	0.0%	6,663	3,274	1.04	0	0	0.0%	0	0	0.0%	76,733	22,763	237.1%	1,750	250	600.0%
GOLD	OG5	0	0	0.0%	6,833	0	0	0	0	0.0%	0	0	0.0%	32,861	9,631	241.2%	0	0	0.0%
HOT ROLLED COIL STEEL CALL	HRO	0	0	0.0%	0	0	0	300	0	0.0%	0	0	0.0%	0	0	0.0%	300	330	-9.1%
IRON ORE 62 CHINA TSI CALL C	ICT	0	0	0.0%	0	0	0	0	1,284	-100.0%	0	0	0.0%	0	0	0.0%	200	18,094	-98.9%
IRON ORE 62 CHINA TSI PUT O	ICT	0	0	0.0%	0	0	0	0	750	-100.0%	0	0	0.0%	0	0	0.0%	1,280	26,105	-95.1%
NYMEX PLATINUM	PO	0	0	0.0%	1,421	2,124	-0.33	1,300	1,575	-17.5%	0	0	0.0%	20,018	13,008	53.9%	22,801	17,556	29.9%
PALLADIUM	PAO	0	0	0.0%	443	1,724	-0.74	510	5,142	-90.1%	0	0	0.0%	15,010	13,313	12.7%	13,678	51,777	-73.6%
SILVER	SO1	0	0	0.0%	572	15	37.13	0	0	0.0%	0	0	0.0%	5,550	656	746.0%	0	25	-100.0%
SILVER	SO2	0	0	0.0%	914	4	227.5	0	0	0.0%	0	0	0.0%	5,118	217	2,258.5%	0	0	0.0%
SILVER	SO3	0	0	0.0%	747	18	40.5	0	0	0.0%	0	0	0.0%	6,771	607	1,015.5%	0	0	0.0%
SILVER	SO4	0	0	0.0%	742	1	741	0	0	0.0%	0	0	0.0%	3,919	188	1,984.6%	0	0	0.0%
SILVER	SO5	0	0	0.0%	654	0	0	0	0	0.0%	0	0	0.0%	2,746	4	68,550.0%	0	0	0.0%
TOTAL FUTURES GROUP																			
Ag Products Futures		0	0	0.0%	1	5	-80.0%	0	0	0.0%	0	0	0.0%	84	189	-55.6%	0	0	0.0%
Energy Futures		0	0	0.0%	52,292,846	45,570,497	14.8%	3,039,663	3,016,031	0.8%	0	0	0.0%	493,918,471	484,489,080	1.9%	30,308,230	39,610,951	-23.5%
Metals Futures		0	0	0.0%	11,573,561	14,394,620	-19.6%	369,128	447,657	-17.5%	0	0	0.0%	134,610,690	117,570,817	14.5%	4,078,243	3,540,309	15.2%
TOTAL FUTURES		0	0	0.0%	63,866,408	59,965,122	6.5%	3,408,791	3,463,688	-1.6%	0	0	0.0%	628,529,245	602,060,086	4.4%	34,386,473	43,151,260	-20.3%

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TOTAL OPTIONS GROUP																		
Energy Options	0	0	0.0%	7,177,246	5,475,578	31.1%	3,152,886	2,425,858	30.0%	0	0	0.0%	50,981,422	47,972,944	6.3%	23,294,035	27,051,201	-13.9%
Metals Options	0	0	0.0%	939,996	689,824	36.3%	217,319	203,685	6.7%	0	0	0.0%	10,725,260	8,501,517	26.2%	2,684,599	2,359,060	13.8%
TOTAL OPTIONS	0	0	0.0%	8,117,242	6,165,402	31.7%	3,370,205	2,629,543	28.2%	0	0	0.0%	61,706,682	56,474,461	9.3%	25,978,634	29,410,261	-11.7%
TOTAL COMBINED																		
Ag Products	0	0	0.0%	1	5	-80.0%	0	0	0.0%	0	0	0.0%	84	189	-55.6%	0	0	0.0%
Energy	0	0	0.0%	59,470,092	51,046,075	16.5%	6,192,549	5,441,889	13.8%	0	0	0.0%	544,899,893	532,462,024	2.3%	53,602,265	66,662,152	-19.6%
Metals	0	0	0.0%	12,513,557	15,084,444	-17.0%	586,447	651,342	-10.0%	0	0	0.0%	145,335,950	126,072,334	15.3%	6,762,842	5,899,369	14.6%
GRAND TOTAL	0	0	0.0%	71,983,650	66,130,524	8.9%	6,778,996	6,093,231	11.3%	0	0	0.0%	690,235,927	658,534,547	4.8%	60,365,107	72,561,521	-16.8%