

NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator	Open Outcry APR 2019	Open Outcry APR 2018	% CHG	ELEC APR 2019	ELEC APR 2018	% CHG	CME ClearPort APR 2019	CME ClearPort APR 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG	CME ClearPort Y.T.D 2019	CME ClearPort Y.T.D 2018	% CHG	
Ag Products Futures																			
COCOA TAS	CJ	0	0	0.0%	0	5	-1	0	0	0.0%	0	0	0.0%	0	5	-100.0%	0	0	0.0%
COFFEE	KT	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
COTTON	TT	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	3	2	50.0%	0	0	0.0%
SUGAR 11	YO	0	0	0.0%	0	58	-1	0	0	0.0%	0	0	0.0%	0	58	-100.0%	0	0	0.0%
Energy Futures																			
CRUDE OIL PHY	CL	0	0	0.0%	27,092,267	27,549,926	-0.02	536,344	427,187	25.6%	0	0	0.0%	98,181,907	106,326,542	-7.7%	1,934,385	1,941,577	-0.4%
CRUDE OIL	WS	0	0	0.0%	0	0	0	1,064	0	0.0%	0	0	0.0%	0	89	-100.0%	16,694	4,250	292.8%
MINY WTI CRUDE OIL	QM	0	0	0.0%	299,535	353,922	-0.15	0	0	0.0%	0	0	0.0%	1,555,151	1,187,255	31.0%	0	0	0.0%
BRENT OIL LAST DAY	BZ	0	0	0.0%	2,325,283	1,926,080	0.21	70,091	42,344	65.5%	0	0	0.0%	7,248,937	6,689,842	8.4%	202,710	164,880	22.9%
HEATING OIL PHY	HO	0	0	0.0%	2,798,789	3,888,124	-0.28	200,170	178,208	12.3%	0	0	0.0%	11,941,912	15,347,066	-22.2%	910,715	803,896	13.3%
HTG OIL	BH	0	0	0.0%	0	0	0	48	48	0.0%	0	0	0.0%	0	0	0.0%	48	48	0.0%
MINY HTG OIL	QH	0	0	0.0%	4	3	0.33	0	0	0.0%	0	0	0.0%	14	13	7.7%	0	0	0.0%
RBOB PHY	RB	0	0	0.0%	4,884,590	3,861,657	0.26	359,274	205,700	74.7%	0	0	0.0%	16,782,416	15,274,854	9.9%	1,098,959	890,939	23.3%
MINY RBOB GAS	QU	0	0	0.0%	3	3	0	0	0	0.0%	0	0	0.0%	24	12	100.0%	0	0	0.0%
NATURAL GAS	HP	0	0	0.0%	43,791	45,335	-0.03	62,320	51,597	20.8%	0	0	0.0%	168,860	266,702	-36.7%	273,730	324,200	-15.6%
LTD NAT GAS	HH	0	0	0.0%	133,063	156,924	-0.15	157,476	106,882	47.3%	0	0	0.0%	657,178	932,269	-29.5%	646,549	564,859	14.5%
MINY NATURAL GAS	QG	0	0	0.0%	20,761	17,849	0.16	0	0	0.0%	0	0	0.0%	106,089	132,954	-20.2%	0	24	-100.0%
PJM MONTHLY	JM	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 PHY	NG	0	0	0.0%	6,711,655	8,153,778	-0.18	232,346	255,425	-9.0%	0	0	0.0%	28,457,922	37,069,408	-23.2%	1,059,854	1,270,052	-16.6%
RBOB GAS	RT	0	0	0.0%	0	0	0	60	2,128	-97.2%	0	0	0.0%	0	0	0.0%	60	13,328	-99.5%
3.5% FUEL OIL CID MED SWA	7D	0	0	0.0%	0	0	0	5	48	-89.6%	0	0	0.0%	0	0	0.0%	10	397	-97.5%
3.5% FUEL OIL CIF BALMO S	8D	0	0	0.0%	0	0	0	0	90	-100.0%	0	0	0.0%	0	0	0.0%	20	90	-77.8%
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%
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%
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%
ARGUS LLS VS. WTI (ARG) T	E5	0	0	0.0%	0	0	0	12,251	20,000	-38.7%	0	0	0.0%	0	30	-100.0%	59,776	109,385	-45.4%

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 APR 2019	Open Outcry APR 2018	% CHG	ELEC APR 2019	ELEC APR 2018	% CHG	CME ClearPort APR 2019	CME ClearPort APR 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG	CME ClearPort Y.T.D 2019	CME ClearPort Y.T.D 2018	% CHG	
Energy Futures																			
ARGUS PROPAN FAR EST INDE	7E	0	0	0.0%	0	0	0	6,738	7,863	-14.3%	0	0	0.0%	0	0	0.0%	26,200	28,003	-6.4%
ARGUS PROPAN(SAUDI ARAMC	9N	0	0	0.0%	0	0	0	3,516	3,575	-1.7%	0	0	0.0%	0	0	0.0%	12,518	11,554	8.3%
AUSTRIALIAN COKE COAL	ACT	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
AUSTRIALIAN COKE COAL	ALW	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
BRENT BALMO SWAP	J9	0	0	0.0%	0	0	0	365	0	0.0%	0	0	0.0%	0	0	0.0%	713	50	1,326.0%
BRENT CALENDAR SWAP	CY	0	0	0.0%	0	0	0	2,138	4,548	-53.0%	0	0	0.0%	0	0	0.0%	12,399	7,550	64.2%
BRENT CFD SWAP	6W	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	300	-100.0%
BRENT FINANCIAL FUTURES	BB	0	0	0.0%	0	0	0	3,500	0	0.0%	0	0	0.0%	0	0	0.0%	7,000	10,500	-33.3%
BRENT FINANCIAL FUTURES	MBC	0	-	-	0	-	0	0	-	-	0	-	0	-	-	0	60	-	-
BRENT FINANCIAL FUTURES	MDB	0	0	0.0%	0	0	0	0	144	-100.0%	0	0	0.0%	0	0	0.0%	0	144	-100.0%
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%
CAISO SP15 EZGNHUB5 PEAK	9Z	-	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	0	0.0%
CENTERPOINT BASIS SWAP	PW	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	36	-100.0%
CHICAGO ETHANOL SWAP	CU	0	0	0.0%	1	246	-1	110,148	105,721	4.2%	0	0	0.0%	465	1,006	-53.8%	434,408	435,956	-0.4%
CHICAGO ULSD (PLATTS) SWA	4C	-	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	250	78	220.5%	0	0	0.0%	0	0	0.0%	2,081	1,152	80.6%
CHICAGO UNL GAS PL VS RBO	3C	0	0	0.0%	0	0	0	160	0	0.0%	0	0	0.0%	0	0	0.0%	675	525	28.6%
CIG BASIS	CI	0	0	0.0%	0	0	0	0	56	-100.0%	0	0	0.0%	0	0	0.0%	0	196	-100.0%
CIG ROCKIES NG INDEX SWA	Z8	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
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	0	0.0%
CIN HUB 5MW D AH PK	H5	0	0	0.0%	0	0	0	0	1,100	-100.0%	0	0	0.0%	0	0	0.0%	2,216	4,604	-51.9%
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%	3,920	0	0.0%
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%	325	0	0.0%
COAL SWAP	ACM	0	0	0.0%	0	0	0	0	35	-100.0%	0	0	0.0%	0	0	0.0%	0	185	-100.0%
COAL SWAP	SSI	-	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	364	0	0.0%	0	0	0.0%	0	0	0.0%	364	0	0.0%
COLUMBIA GULF ONSHORE	GL	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
CONWAY NATURAL GASOLINE	8L	0	0	0.0%	0	0	0	140	48	191.7%	0	0	0.0%	0	0	0.0%	984	548	79.6%
CONWAY NORMAL BUTANE (O	8M	0	0	0.0%	0	0	0	310	150	106.7%	0	0	0.0%	0	0	0.0%	823	340	142.1%

NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator	Open Outcry APR 2019	Open Outcry APR 2018	% CHG	ELEC APR 2019	ELEC APR 2018	% CHG	CME ClearPort APR 2019	CME ClearPort APR 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG	CME ClearPort Y.T.D 2019	CME ClearPort Y.T.D 2018	% CHG
Energy Futures																		
CONWAY PROPANE 5 DECIMAL	8K	0	0.0%	90	0	0	14,331	15,943	-10.1%	0	0	0.0%	90	6	1,400.0%	56,705	62,570	-9.4%
CRUDE OIL	LPS	0	0.0%	0	0	0	3,250	4,530	-28.3%	0	0	0.0%	0	0	0.0%	12,325	19,455	-36.6%
CRUDE OIL OUTRIGHTS	42	0	0.0%	0	0	0	522	367	42.2%	0	0	0.0%	0	0	0.0%	2,104	906	132.2%
CRUDE OIL OUTRIGHTS	CC5	0	0.0%	0	0	0	540	0	0.0%	0	0	0.0%	0	0	0.0%	1,350	0	0.0%
CRUDE OIL OUTRIGHTS	CPD	0	0.0%	0	0	0	0	100	-100.0%	0	0	0.0%	0	0	0.0%	0	2,956	-100.0%
CRUDE OIL OUTRIGHTS	CSN	-	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
CRUDE OIL OUTRIGHTS	CSW	0	0.0%	0	0	0	180	0	0.0%	0	0	0.0%	50	0	0.0%	1,980	5	39,500.0%
CRUDE OIL OUTRIGHTS	DBL	0	0.0%	0	0	0	0	16	-100.0%	0	0	0.0%	0	0	0.0%	0	40	-100.0%
CRUDE OIL OUTRIGHTS	FE	-	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
CRUDE OIL OUTRIGHTS	GSW	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	276	105	162.9%
CRUDE OIL OUTRIGHTS	HTT	0	0.0%	0	0	0	69,606	41,900	66.1%	0	0	0.0%	0	0	0.0%	238,559	193,664	23.2%
CRUDE OIL OUTRIGHTS	LSW	0	0.0%	0	0	0	773	60	1,188.3%	0	0	0.0%	0	0	0.0%	2,838	290	878.6%
CRUDE OIL OUTRIGHTS	SSW	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	UMD	0	0.0%	0	0	0	0	700	-100.0%	0	0	0.0%	0	0	0.0%	0	4,700	-100.0%
CRUDE OIL OUTRIGHTS	UNS	0	0.0%	0	0	0	0	500	-100.0%	0	0	0.0%	0	0	0.0%	0	6,054	-100.0%
CRUDE OIL OUTRIGHTS	WCC	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	WCW	0	0.0%	0	0	0	2,975	10,209	-70.9%	0	0	0.0%	0	0	0.0%	24,027	42,061	-42.9%
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	-	-	14,689	-	7,887	-	-	0	-	-	72,425	-	-	19,697	-	-
CRUDE OIL SPRDS	38	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	1,155	-100.0%
CRUDE OIL SPRDS	WTT	0	0.0%	0	0	0	27,137	42,804	-36.6%	0	0	0.0%	0	0	0.0%	83,848	221,374	-62.1%
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%
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%

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 APR 2019	Open Outcry APR 2018	% CHG	ELEC APR 2019	ELEC APR 2018	% CHG	CME ClearPort APR 2019	CME ClearPort APR 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG	CME ClearPort Y.T.D 2019	CME ClearPort Y.T.D 2018	% CHG	
Energy Futures																			
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%	
DATED TO FRONTLINE BRENT	FY	0	0	0.0%	0	0	300	600	-50.0%	0	0	0.0%	0	0	0.0%	900	2,660	-66.2%	
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	5	-100.0%	
DIESEL 10PPM BARGES FOB B	U7	-	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	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	
DOMINION TRANSMISSION INC	PG	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	
DUBAI CRUDE OIL BALMO	BI	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	125	-100.0%	
DUBAI CRUDE OIL CALENDAR	DC	0	0	0.0%	0	0	470	1,184	-60.3%	0	0	0.0%	0	0	0.0%	15,768	8,944	76.3%	
DUTCH TTF NATURAL GAS CAL	TTF	0	0	0.0%	3,888	1,015	2.83	0	0.0%	0	0	0.0%	31,216	3,410	815.4%	0	10	-100.0%	
DY EURO 3.5% FUEL OI RDA	FOR	-	0	0.0%	-	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%	
EASTERN RAIL DELIVERY CSX	QX	0	0	0.0%	0	0	0	30	-100.0%	0	0	0.0%	0	0	0.0%	0	150	-100.0%	
EAST/WEST FUEL OIL SPREAD	EW	0	0	0.0%	0	0	0	20	-100.0%	0	0	0.0%	0	0	0.0%	0	157	-100.0%	
EIA FLAT TAX ONHWAY DIESE	A5	0	0	0.0%	0	0	39	226	-82.7%	0	0	0.0%	0	0	0.0%	1,067	666	60.2%	
ELEC ERCOT DLY OFF PK	I4	0	-	-	0	-	0	-	-	0	-	-	0	-	-	0	-	-	
ELEC ERCOT DLY PEAK	I3	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 OFF PEAK	I2	0	0	0.0%	0	0	0	19,600	-100.0%	0	0	0.0%	0	0	0.0%	0	19,600	-100.0%	
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%	
ELEC MISO PEAK	4L	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	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	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	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%	
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	-	-	
ELECTRICITY OFF PEAK	50	-	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%	
ELEC WEST POWER PEAK	MDC	-	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%	
ERCOT HOUSTON Z MCPE 5M	I1	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	1,510	-100.0%	
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	19,600	-100.0%	0	0	0.0%	0	0	0.0%	0	19,600	-100.0%	

NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator	Open Outcry APR 2019	Open Outcry APR 2018	% CHG	ELEC APR 2019	ELEC APR 2018	% CHG	CME ClearPort APR 2019	CME ClearPort APR 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG	CME ClearPort Y.T.D 2019	CME ClearPort Y.T.D 2018	% CHG	
Energy Futures																			
ERCOT NORTH ZMCPE 5MW PE	I5	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	4,610	-100.0%	
ETHANOL	MTH	0	-	-	0	-	30	-	-	0	-	-	0	-	-	40	-	-	
ETHANOL	Z1B	0	-	-	0	-	0	-	-	0	-	-	0	-	-	0	-	-	
ETHANOL SWAP	MT2	0	0	0.0%	0	0	155	20	675.0%	0	0	0.0%	0	0	0.0%	365	30	1,116.7%	
ETHANOL T2 FOB ROTT INCL D	Z1	0	0	0.0%	0	0	3,129	3,404	-8.1%	0	0	0.0%	0	0	0.0%	16,563	12,531	32.2%	
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%	0	5	-100.0%	
EURO 3.5% FUEL OIL RDAM B	KR	0	0	0.0%	0	0	28	724	-96.1%	0	0	0.0%	0	0	0.0%	173	2,430	-92.9%	
EURO 3.5% FUEL OIL SPREAD	FK	0	0	0.0%	0	0	40	191	-79.1%	0	0	0.0%	0	0	0.0%	85	482	-82.4%	
EURO-DENOMINATED PETRO P	NCP	0	0	0.0%	0	0	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	0	0.0%	0	0	0.0%	0	0	0.0%	0	355	-100.0%	
EUROPE 1% FUEL OIL NWE CA	UF	0	0	0.0%	0	0	9	45	-80.0%	0	0	0.0%	0	0	0.0%	103	303	-66.0%	
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%	0	0	0.0%	
EUROPE 3.5% FUEL OIL MED	UI	0	0	0.0%	0	0	13	111	-88.3%	0	0	0.0%	0	0	0.0%	286	610	-53.1%	
EUROPE 3.5% FUEL OIL RDAM	UV	0	0	0.0%	0	0	1,198	11,803	-89.9%	0	0	0.0%	0	0	0.0%	5,530	32,694	-83.1%	
EUROPEAN GASOIL (ICE)	7F	0	0	0.0%	0	728	-1	0	0.0%	0	0	0.0%	428	1,662	-74.2%	0	0	0.0%	
EUROPEAN NAPHTHA BALMO	KZ	0	0	0.0%	0	0	128	203	-36.9%	0	0	0.0%	0	0	0.0%	885	1,099	-19.5%	
EUROPEAN NAPHTHA CRACK SF	EN	0	0	0.0%	0	0	4,807	8,422	-42.9%	0	0	0.0%	0	0	0.0%	21,914	37,345	-41.3%	
EUROPE DATED BRENT SWAP	UB	0	0	0.0%	0	0	50	0	0.0%	0	0	0.0%	0	0	0.0%	798	0	0.0%	
EUROPE JET KERO NWE CALS	UJ	0	0	0.0%	0	0	5	0	0.0%	0	0	0.0%	0	0	0.0%	5	15	-66.7%	
EUROPE NAPHTHA CALSWAP	UN	0	0	0.0%	0	0	2,548	2,392	6.5%	0	0	0.0%	0	0	0.0%	9,821	13,660	-28.1%	
EURO PROPANE CIF ARA SWA	PS	0	0	0.0%	0	0	2,207	1,649	33.8%	0	0	0.0%	0	0	0.0%	8,528	8,389	1.7%	
FLORIDA GAS ZONE3 BASIS S	FP	-	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	55	44	25.0%	0	0	0.0%	0	0	0.0%	485	492	-1.4%	
FREIGHT MARKETS	FRC	0	0	0.0%	0	0	80	0	0.0%	0	0	0.0%	0	0	0.0%	450	185	143.2%	
FREIGHT MARKETS	FRS	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	
FREIGHT MARKETS	T2D	0	0	0.0%	0	0	335	540	-38.0%	0	0	0.0%	0	0	0.0%	2,210	1,028	115.0%	
FREIGHT MARKETS	TC6	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	240	-100.0%	
FREIGHT MARKETS	TD3	0	-	-	0	-	0	-	-	0	-	-	0	-	-	70	-	-	
FREIGHT MARKETS	TD8	0	-	-	0	-	0	-	-	0	-	-	0	-	-	60	-	-	
FUEL OIL CRACK VS ICE	FO	0	0	0.0%	0	0	1,950	3,932	-50.4%	0	0	0.0%	0	0	0.0%	5,880	18,514	-68.2%	
FUEL OIL NWE CRACK VS ICE	FI	0	0	0.0%	0	0	0	15	-100.0%	0	0	0.0%	0	0	0.0%	15	171	-91.2%	
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	-100.0%	
FUEL OIL (PLATS) CAR CN	1X	0	0	0.0%	0	0	0	27	-100.0%	0	0	0.0%	0	0	0.0%	0	72	-100.0%	
FUELOIL SWAP:CARGOES VS.B	FS	0	0	0.0%	0	0	85	251	-66.1%	0	0	0.0%	0	0	0.0%	814	1,225	-33.6%	

NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator	Open Outcry APR 2019	Open Outcry APR 2018	% CHG	ELEC APR 2019	ELEC APR 2018	% CHG	CME ClearPort APR 2019	CME ClearPort APR 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG	CME ClearPort Y.T.D 2019	CME ClearPort Y.T.D 2018	% CHG	
Energy Futures																			
GAS EURO-BOB OXY NWE BAR	7H	0	0	0.0%	0	0	0	7,018	5,819	20.6%	0	0	0.0%	0	0	0.0%	30,787	29,289	5.1%
GAS EURO-BOB OXY NWE BAR	7K	0	0	0.0%	0	0	0	10,602	23,151	-54.2%	0	0	0.0%	0	0	0.0%	41,669	93,111	-55.2%
GASOIL 0.1 CIF MED SWAP	Z4	-	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%	0	10	-100.0%
GASOIL 0.1 CIF NWE VS ISE	TU	0	0	0.0%	0	0	0	5	0	0.0%	0	0	0.0%	0	0	0.0%	5	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%
GASOIL 0.1 RDAM BRGS VS I	WQ	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	15	5	200.0%
GASOIL 0.1 ROTTERDAM BARG	VL	0	0	0.0%	0	0	0	49	320	-84.7%	0	0	0.0%	0	0	0.0%	73	365	-80.0%
GASOIL 10P CRG CIF NW VS	3V	-	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	0	0.0%	0	0	0.0%	0	0	0.0%	24	12	100.0%
GASOIL BULLET SWAP	BG	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
GASOIL CALENDAR SWAP	GX	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	54	12	350.0%
GASOIL CRACK SPREAD CALE	GZ	0	0	0.0%	0	0	0	0	1,495	-100.0%	0	0	0.0%	0	0	0.0%	462	24,012	-98.1%
GASOIL MINI CALENDAR SWAP	QA	0	0	0.0%	0	0	0	248	110	125.5%	0	0	0.0%	0	0	0.0%	840	536	56.7%
GERMAN POWER BASELOAD C	DEB	0	0	0.0%	2,502	204	11.26	0	0	0.0%	0	0	0.0%	8,439	2,076	306.5%	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	0.0%	0	115	-100.0%
GROUP THREE UNLEAD GAS (F	A9	0	-	-	0	-	-	0	-	-	0	-	0	-	-	-	0	-	-
GRP THREE ULSD(PLT)VS HEA	A6	0	0	0.0%	0	0	0	1,715	3,974	-56.8%	0	0	0.0%	0	0	0.0%	10,355	16,294	-36.4%
GRP THREE UNL GS (PLT) VS	A8	0	0	0.0%	0	0	0	3,809	2,950	29.1%	0	0	0.0%	0	0	0.0%	14,438	8,938	61.5%
GULF COAST 3% FUEL OIL BA	VZ	0	0	0.0%	0	0	0	685	947	-27.7%	0	0	0.0%	0	0	0.0%	3,355	5,496	-39.0%
GULF COAST JET FUEL CLNDR	GE	0	0	0.0%	0	0	0	0	336	-100.0%	0	0	0.0%	0	0	0.0%	267	633	-57.8%
GULF COAST JET VS NYM 2 H	ME	0	0	0.0%	0	0	0	19,945	31,814	-37.3%	0	0	0.0%	0	0	0.0%	75,791	188,133	-59.7%
GULF COAST NO.6 FUEL OIL	MF	0	0	0.0%	0	0	0	24,315	60,240	-59.6%	0	0	0.0%	0	0	0.0%	104,320	241,036	-56.7%
GULF COAST NO.6 FUEL OIL	MG	0	0	0.0%	0	0	0	110	3,665	-97.0%	0	0	0.0%	0	0	0.0%	1,028	8,483	-87.9%
GULF COAST ULSD CALENDAR	LY	0	0	0.0%	0	0	0	164	200	-18.0%	0	0	0.0%	0	0	0.0%	1,277	754	69.4%
GULF COAST ULSD CRACK SP	GY	0	0	0.0%	0	0	0	0	100	-100.0%	0	0	0.0%	0	0	0.0%	0	1,295	-100.0%
HEATING OIL BALMO CLNDR S	1G	0	0	0.0%	0	0	0	35	0	0.0%	0	0	0.0%	0	0	0.0%	45	56	-19.6%
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	4,588	1,240	270.0%	0	0	0.0%	0	0	0.0%	4,588	6,192	-25.9%
HENRY HUB FINANCIAL LAST	NBP	0	0	0.0%	0	1,222	-1	0	0	0.0%	0	0	0.0%	5,290	-100.0%	0	0	0.0%	
HENRY HUB FINANCIAL LAST	TTE	0	0	0.0%	0	26	-1	0	0	0.0%	0	0	0.0%	621	-100.0%	0	0	0.0%	
HENRY HUB INDEX SWAP FUTL	IN	0	0	0.0%	0	0	0	4,588	1,240	270.0%	0	0	0.0%	0	0	0.0%	4,588	6,192	-25.9%
HENRY HUB SWAP	NN	0	0	0.0%	0	122	-1	116,924	130,931	-10.7%	0	0	0.0%	122	13,914	-99.1%	496,120	632,528	-21.6%
HOUSTON SHIP CHANNEL BASI	NH	0	0	0.0%	0	0	0	736	0	0.0%	0	0	0.0%	0	0	0.0%	736	0	0.0%

NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator	Open Outcry APR 2019	Open Outcry APR 2018	% CHG	ELEC APR 2019	ELEC APR 2018	% CHG	CME ClearPort APR 2019	CME ClearPort APR 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG	CME ClearPort Y.T.D 2019	CME ClearPort Y.T.D 2018	% CHG	
Energy Futures																			
HUSTN SHIP CHNL PIPE SWP	XJ	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
ICE BRENT DUBAI SWAP	DB	0	0	0.0%	0	0	0	4,325	13,243	-67.3%	0	0	0.0%	0	0	0.0%	19,450	43,017	-54.8%
ICE GASOIL BALMO SWAP	U9	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
IN DELIVERY MONTH EUA	6T	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
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	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%
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	PTD	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%
INDONESIAN COAL ICI4	ICI	0	0	0.0%	0	0	0	172	115	49.6%	0	0	0.0%	0	0	0.0%	1,605	235	583.0%
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%	0	0	0.0%
JAPAN C&F NAPHTHA CRACK S	JB	0	0	0.0%	0	0	0	169	918	-81.6%	0	0	0.0%	0	0	0.0%	169	1,608	-89.5%
JAPAN C&F NAPHTHA SWAP	JA	0	0	0.0%	0	0	0	1,621	1,984	-18.3%	0	0	0.0%	0	0	0.0%	5,973	7,917	-24.6%
JAPAN NAPHTHA BALMO SWAP	E6	0	0	0.0%	0	0	0	5	37	-86.5%	0	0	0.0%	0	0	0.0%	276	140	97.1%
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%	0	5	-100.0%
JET CIF NWE VS ICE	JC	0	0	0.0%	0	0	0	0	74	-100.0%	0	0	0.0%	0	0	0.0%	70	474	-85.2%
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%
JET FUEL CRG CIF NEW VS I	6X	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
JET FUEL UP-DOWN BALMO CL	1M	0	0	0.0%	0	0	0	4,830	4,460	8.3%	0	0	0.0%	0	0	0.0%	14,479	30,244	-52.1%
JKM LNG Futures	JKM	0	0	0.0%	0	0	0	792	2,000	-60.4%	0	0	0.0%	0	0	0.0%	6,096	3,445	77.0%
LA CARB DIESEL (OPIS)	LX	-	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	0	0	325	-100.0%	0	0	0.0%	0	0	0.0%	285	1,000	-71.5%
LA CARBOB GASOLINE(OPIS)S	JL	0	0	0.0%	0	0	0	100	1,450	-93.1%	0	0	0.0%	0	0	0.0%	1,675	3,275	-48.9%
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%
LA JET (OPIS) SWAP	JS	0	0	0.0%	0	0	0	1,720	2,635	-34.7%	0	0	0.0%	0	0	0.0%	5,495	9,535	-42.4%
LLS (ARGUS) CALENDAR SWAP	XA	0	-	-	0	-	0	0	-	-	0	-	0	-	-	0	0	-	-
LLS (ARGUS) VS WTI SWAP	WJ	0	0	0.0%	0	0	0	4,681	6,085	-23.1%	0	0	0.0%	0	0	0.0%	13,869	19,222	-27.8%
LOS ANGELES CARB GASOLIN	MH	0	-	-	0	-	0	0	-	-	0	-	0	-	-	0	0	-	-
MARS (ARGUS) VS WTI SWAP	YX	0	0	0.0%	0	0	0	560	3,530	-84.1%	0	0	0.0%	0	0	0.0%	7,965	14,545	-45.2%
MARS (ARGUS) VS WTI TRD M	YV	0	0	0.0%	0	0	0	21,792	19,630	11.0%	0	0	0.0%	480	0	0.0%	85,655	114,636	-25.3%
MARS BLEND CRUDE OIL	MB	0	0	0.0%	0	0	0	0	350	-100.0%	0	0	0.0%	0	0	0.0%	0	1,519	-100.0%
MCCLOSKY ARA ARGS COAL	MTF	0	0	0.0%	391	111	2.52	25,654	22,736	12.8%	0	0	0.0%	1,205	369	226.6%	109,985	106,371	3.4%

NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator	Open Outcry APR 2019	Open Outcry APR 2018	% CHG	ELEC APR 2019	ELEC APR 2018	% CHG	CME ClearPort APR 2019	CME ClearPort APR 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG	CME ClearPort Y.T.D 2019	CME ClearPort Y.T.D 2018	% CHG	
Energy Futures																			
MCCLOSKY RCH BAY COAL	MFF	0	0	0.0%	0	0	0	2,327	2,374	-2.0%	0	0	0.0%	0	0	0.0%	10,771	14,020	-23.2%
MGF FUT	MGF	0	0	0.0%	0	0	0	0	50	-100.0%	0	0	0.0%	0	0	0.0%	0	130	-100.0%
MGN1 SWAP FUT	MGN	0	0	0.0%	0	0	0	0	30	-100.0%	0	0	0.0%	0	0	0.0%	170	383	-55.6%
MICHIGAN BASIS	NF	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
MICHIGAN MISO	HMO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
MICHIGAN MISO	HMW	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
MINI GAS EUROBOB OXY NWE	MEB	0	0	0.0%	0	0	0	67	502	-86.7%	0	0	0.0%	0	0	0.0%	703	1,389	-49.4%
MINI RBOB V. EBOBARG NWE B	MXR	0	0	0.0%	0	0	0	1,174	862	36.2%	0	0	0.0%	0	0	0.0%	2,770	1,053	163.1%
MINI RBOB V. EBOB(ARGUS) N	MXB	0	0	0.0%	0	0	0	2,703	2,021	33.7%	0	0	0.0%	0	0	0.0%	8,392	6,217	35.0%
MJC FUT	MJC	0	0	0.0%	0	0	0	0	190	-100.0%	0	0	0.0%	0	0	0.0%	110	970	-88.7%
MNC FUT	MNC	0	0	0.0%	0	0	0	4,109	3,441	19.4%	0	0	0.0%	0	0	0.0%	17,360	14,487	19.8%
MONT BELVIEU ETHANE 5 DECI	C0	0	0	0.0%	0	0	0	14,964	11,593	29.1%	0	0	0.0%	0	0	0.0%	55,792	61,389	-9.1%
MONT BELVIEU ETHANE OPIS E	8C	0	0	0.0%	0	0	0	149	90	65.6%	0	0	0.0%	0	0	0.0%	744	655	13.6%
MONT BELVIEU LDH PROPANE	B0	0	0	0.0%	4	4	0	172,735	138,290	24.9%	0	0	0.0%	35	30	16.7%	560,445	537,251	4.3%
MONT BELVIEU LDH PROPANE	8O	0	0	0.0%	0	0	0	1,126	2,275	-50.5%	0	0	0.0%	0	0	0.0%	12,900	14,044	-8.1%
MONT BELVIEU NATURAL GAS	7Q	0	0	0.0%	0	0	0	8,227	9,135	-9.9%	0	0	0.0%	0	0	0.0%	32,630	38,684	-15.6%
MONT BELVIEU NATURAL GAS	R0	0	0	0.0%	0	0	0	310	228	36.0%	0	0	0.0%	0	0	0.0%	2,519	1,773	42.1%
MONT BELVIEU NORMAL BUTA	D0	0	0	0.0%	0	0	0	44,583	42,033	6.1%	0	0	0.0%	0	0	0.0%	149,775	117,520	27.4%
MONT BELVIEU NORMAL BUTA	8J	0	0	0.0%	0	0	0	1,247	780	59.9%	0	0	0.0%	0	0	0.0%	5,781	3,819	51.4%
NAT GAS BASIS SWAP	TZ6	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	XIC	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%
NATURAL GAS INDEX	TZI	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
NATURAL GAS PEN SWP	NP	0	0	0.0%	0	0	0	31,025	30,813	0.7%	0	0	0.0%	0	0	0.0%	110,877	161,690	-31.4%
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%	16,560	61,920	-73.3%
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%	0	3,415	-100.0%
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	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%	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 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%

NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator	Open Outcry APR 2019	Open Outcry APR 2018	% CHG	ELEC APR 2019	ELEC APR 2018	% CHG	CME ClearPort APR 2019	CME ClearPort APR 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG	CME ClearPort Y.T.D 2019	CME ClearPort Y.T.D 2018	% CHG
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	0	305	-79.9%	0	0	0.0%	0	0	0.0%	2,592	7,461	-65.3%
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	0	0	0.0%	0	0	0.0%	0	0	0.0%	1,240	400	210.0%
NGPL TEX/OK	PD	0	0	0.0%	0	0	0	2,576	-83.0%	0	0	0.0%	0	0	0.0%	2,576	22,836	-88.7%
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	-100.0%	0	0	0.0%	0	0	0.0%	575	1,535	-62.5%
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	0	0.0%	0	0	0.0%	0	0	0.0%	0	100	-100.0%
NORTHERN ILLINOIS OFF-PEA	UO	-	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%	3,106	0	0.0%
N ROCKIES PIPE SWAP	XR	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
NY1% VS GC SPREAD SWAP	VR	0	0	0.0%	0	0	0	150	-82.2%	0	0	0.0%	0	0	0.0%	1,765	7,101	-75.1%
NY 2.2% FUEL OIL (PLATTS	Y3	-	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	75	-62.5%	0	0	0.0%	0	0	0.0%	525	975	-46.2%
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	0	0.0%
NY HARBOR HEAT OIL SWP	MP	0	0	0.0%	0	25	-1	490	-67.2%	0	0	0.0%	0	40	-100.0%	6,178	5,905	4.6%
NY HARBOR LOW SULPUR GAS	NLS	0	0	0.0%	0	0	0	75	-25.0%	0	0	0.0%	0	0	0.0%	390	2,475	-84.2%
NY HARBOR RESIDUAL FUEL 1	MM	0	0	0.0%	0	0	0	1,083	75.0%	0	0	0.0%	0	0	0.0%	3,959	4,536	-12.7%
NY HARBOR RESIDUAL FUEL C	ML	0	-	-	0	-	0	0	-	0	-	-	0	-	-	0	-	-
NYH NO 2 CRACK SPREAD CAL	HK	0	0	0.0%	0	0	0	480	-74.8%	0	0	0.0%	0	0	0.0%	1,345	5,177	-74.0%
NYISO A	KA	-	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%
NYISO CAPACITY	LHV	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	240	144	66.7%
NYISO CAPACITY	NNC	0	0	0.0%	0	0	0	0	-100.0%	0	0	0.0%	0	0	0.0%	0	306	-100.0%
NYISO CAPACITY	NRS	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	60	108	-44.4%
NYISO G	KG	-	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%
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%	0	0	0.0%
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%	0	0	0.0%

NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator	Open Outcry APR 2019	Open Outcry APR 2018	% CHG	ELEC APR 2019	ELEC APR 2018	% CHG	CME ClearPort APR 2019	CME ClearPort APR 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG	CME ClearPort Y.T.D 2019	CME ClearPort Y.T.D 2018	% 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%
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%
NYISO ZONE G 5MW D AH O P	D2	0	0	0.0%	0	0	0	8,160	46,080	-82.3%	0	0	0.0%	0	0	0.0%	13,680	392,350	-96.5%
NYISO ZONE G 5MW D AH PK	T3	0	0	0.0%	0	0	0	0	2,115	-100.0%	0	0	0.0%	0	0	0.0%	0	5,510	-100.0%
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%	0	0	0.0%
NYISO ZONE J 5MW D AH PK	D3	0	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	0.0%
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%	1,450	0	0.0%
NY ULSD (ARGUS) VS HEATING	7Y	0	0	0.0%	0	0	0	750	0	0.0%	0	0	0.0%	0	0	0.0%	1,167	0	0.0%
ONEOK OKLAHOMA NG BASIS	8X	0	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	OFD	0	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%
ONTARIO POWER SWAPS	OPD	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	10	-100.0%
ONTARIO POWER SWAPS	OPM	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
PANHANDLE BASIS SWAP FUT	PH	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	275	-100.0%
PANHANDLE PIPE SWAP	XH	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
PERMIAN BASIS SWAP	PM	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
PETROCHEMICALS	22	0	0	0.0%	0	0	0	179	242	-26.0%	0	0	0.0%	0	0	0.0%	707	652	8.4%
PETROCHEMICALS	32	0	0	0.0%	0	0	0	73	281	-74.0%	0	0	0.0%	0	0	0.0%	470	850	-44.7%
PETROCHEMICALS	3NA	0	-	-	0	-	-	16	-	-	0	-	-	0	-	-	33	-	-
PETROCHEMICALS	51	0	0	0.0%	0	0	0	5	20	-75.0%	0	0	0.0%	0	0	0.0%	5	23	-78.3%
PETROCHEMICALS	8I	0	0	0.0%	0	0	0	932	1,144	-18.5%	0	0	0.0%	0	0	0.0%	2,713	3,559	-23.8%
PETROCHEMICALS	91	0	0	0.0%	0	0	0	295	453	-34.9%	0	0	0.0%	0	0	0.0%	1,885	2,274	-17.1%
PETROCHEMICALS	HPE	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
PETROCHEMICALS	MAA	0	-	-	0	-	-	50	-	-	0	-	-	0	-	-	80	-	-
PETROCHEMICALS	MAC	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
PETROCHEMICALS	MAE	0	0	0.0%	0	0	0	150	240	-37.5%	0	0	0.0%	0	0	0.0%	824	770	7.0%
PETROCHEMICALS	MAS	0	0	0.0%	0	0	0	80	90	-11.1%	0	0	0.0%	0	0	0.0%	575	450	27.8%
PETROCHEMICALS	MBE	0	0	0.0%	0	0	0	335	540	-38.0%	0	0	0.0%	0	0	0.0%	1,115	3,550	-68.6%
PETROCHEMICALS	MNB	0	0	0.0%	0	0	0	1,181	3,014	-60.8%	0	0	0.0%	0	0	0.0%	4,177	8,777	-52.4%
PETROCHEMICALS	MPS	0	0	0.0%	0	0	0	95	115	-17.4%	0	0	0.0%	0	0	0.0%	625	345	81.2%
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	0	0.0%
PETRO CRCKS & SPRDS ASIA	STI	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
PETRO CRCKS & SPRDS ASIA	STR	0	0	0.0%	0	0	0	0	100	-100.0%	0	0	0.0%	0	0	0.0%	0	100	-100.0%

NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator	Open Outcry APR 2019	Open Outcry APR 2018	% CHG	ELEC APR 2019	ELEC APR 2018	% CHG	CME ClearPort APR 2019	CME ClearPort APR 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG	CME ClearPort Y.T.D 2019	CME ClearPort Y.T.D 2018	% CHG	
Energy Futures																			
PETRO CRCKS & SPRDS ASIA	STS	0	0	0.0%	0	0	0	102	0	0.0%	0	0	0.0%	0	0	0.0%	130	409	-68.2%
PETRO CRCKS & SPRDS NA	CRB	0	0	0.0%	0	0	0	10,075	280	3,498.2%	0	0	0.0%	0	0	0.0%	28,815	1,045	2,657.4%
PETRO CRCKS & SPRDS NA	EXR	0	0	0.0%	0	0	0	3,240	2,542	27.5%	0	0	0.0%	0	0	0.0%	13,222	11,467	15.3%
PETRO CRCKS & SPRDS NA	FOC	0	0	0.0%	0	0	0	50	2,100	-97.6%	0	0	0.0%	0	0	0.0%	1,420	4,500	-68.4%
PETRO CRCKS & SPRDS NA	GBB	0	0	0.0%	0	0	0	220	670	-67.2%	0	0	0.0%	0	0	0.0%	3,020	2,845	6.2%
PETRO CRCKS & SPRDS NA	GCC	0	0	0.0%	0	0	0	0	150	-100.0%	0	0	0.0%	0	0	0.0%	0	950	-100.0%
PETRO CRCKS & SPRDS NA	GCI	0	0	0.0%	0	0	0	2,427	660	267.7%	0	0	0.0%	0	0	0.0%	5,913	5,893	0.3%
PETRO CRCKS & SPRDS NA	GCM	0	0	0.0%	0	0	0	0	100	-100.0%	0	0	0.0%	0	0	0.0%	0	121	-100.0%
PETRO CRCKS & SPRDS NA	GCU	0	0	0.0%	0	0	0	2,253	21,025	-89.3%	0	0	0.0%	0	0	0.0%	14,537	50,442	-71.2%
PETRO CRCKS & SPRDS NA	GFC	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	100	0	0.0%
PETRO CRCKS & SPRDS NA	HOB	0	0	0.0%	0	0	0	3,480	475	632.6%	0	0	0.0%	0	0	0.0%	4,440	5,786	-23.3%
PETRO CRCKS & SPRDS NA	KSD	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
PETRO CRCKS & SPRDS NA	MFR	0	-	-	0	-	0	0	-	-	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%	0	50	-100.0%
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	0	0.0%
PETRO CRCKS & SPRDS NA	NYH	-	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	10,220	4,921	107.7%	0	0	0.0%	0	0	0.0%	40,323	18,231	121.2%
PETRO CRCKS & SPRDS NA	RVG	0	0	0.0%	0	0	0	15,655	17,922	-12.6%	0	0	0.0%	0	0	0.0%	62,053	69,101	-10.2%
PETRO CRCKS & SPRDS NA	SF3	0	0	0.0%	0	0	0	130	33	293.9%	0	0	0.0%	0	0	0.0%	481	234	105.6%
PETRO CRK&SPRD EURO	1NB	0	0	0.0%	0	0	0	2,027	2,177	-6.9%	0	0	0.0%	0	0	0.0%	7,564	8,539	-11.4%
PETRO CRK&SPRD EURO	1ND	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	100	-100.0%
PETRO CRK&SPRD EURO	43	0	0	0.0%	0	0	0	75	680	-89.0%	0	0	0.0%	0	0	0.0%	75	1,818	-95.9%
PETRO CRK&SPRD EURO	BFR	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	60	0	0.0%
PETRO CRK&SPRD EURO	BOB	0	0	0.0%	0	0	0	526	2,712	-80.6%	0	0	0.0%	0	0	0.0%	2,179	7,787	-72.0%
PETRO CRK&SPRD EURO	EGB	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
PETRO CRK&SPRD EURO	EGN	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
PETRO CRK&SPRD EURO	EOB	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	15	108	-86.1%
PETRO CRK&SPRD EURO	EPN	0	0	0.0%	0	0	0	615	765	-19.6%	0	0	0.0%	0	0	0.0%	2,492	4,170	-40.2%
PETRO CRK&SPRD EURO	EVC	0	0	0.0%	0	0	0	303	1,680	-82.0%	0	0	0.0%	0	0	0.0%	1,916	7,826	-75.5%
PETRO CRK&SPRD EURO	FBT	0	-	-	0	-	0	0	-	-	0	-	0	-	-	0	60	-	-
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	30	-100.0%
PETRO CRK&SPRD EURO	GCB	0	0	0.0%	0	0	0	0	200	-100.0%	0	0	0.0%	0	0	0.0%	282	375	-24.8%
PETRO CRK&SPRD EURO	GOC	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	84	-100.0%
PETRO CRK&SPRD EURO	MGB	0	0	0.0%	0	0	0	30	0	0.0%	0	0	0.0%	0	0	0.0%	90	80	12.5%

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 APR 2019	Open Outcry APR 2018	% CHG	ELEC APR 2019	ELEC APR 2018	% CHG	CME ClearPort APR 2019	CME ClearPort APR 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG	CME ClearPort Y.T.D 2019	CME ClearPort Y.T.D 2018	% CHG	
Energy Futures																			
PETRO CRK&SPRD EURO	MUD	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	10	123	-91.9%	
PETRO CRK&SPRD EURO	NBB	0	0	0.0%	0	0	21	66	-68.2%	0	0	0.0%	0	0	0.0%	58	96	-39.6%	
PETRO CRK&SPRD EURO	NOB	0	0	0.0%	0	0	462	1,652	-72.0%	0	0	0.0%	0	0	0.0%	2,399	7,073	-66.1%	
PETRO CRK&SPRD EURO	SFB	0	0	0.0%	0	0	21	30	-30.0%	0	0	0.0%	0	0	0.0%	51	30	70.0%	
PETROLEUM PRODUCTS	1NM	0	-	-	0	-	123	-	-	0	-	-	0	-	-	193	-	-	
PETROLEUM PRODUCTS	EWB	-	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	3,292	3,190	3.2%	0	0	0.0%	0	0	0.0%	13,161	22,199	-40.7%	
PETROLEUM PRODUCTS	MBS	-	0	0.0%	-	0	0	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%	
PETROLEUM PRODUCTS	MGS	-	0	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	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	30	-100.0%	
PETROLEUM PRODUCTS	MPE	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	
PETROLEUM PRODUCTS	VU	0	0	0.0%	0	0	0	603	-100.0%	0	0	0.0%	0	0	0.0%	135	603	-77.6%	
PETROLEUM PRODUCTS ASIA	E6M	0	0	0.0%	0	0	0	30	-100.0%	0	0	0.0%	0	0	0.0%	50	374	-86.6%	
PETROLEUM PRODUCTS ASIA	MJN	0	0	0.0%	0	0	1,392	2,697	-48.4%	0	0	0.0%	0	0	0.0%	6,560	9,482	-30.8%	
PETROLEUM PRODUCTS ASIA	MSB	-	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	20	0	0.0%	0	0	0.0%	0	0	0.0%	20	50	-60.0%	
PETRO OUTRIGHT EURO	0C	0	0	0.0%	0	0	10	0	0.0%	0	0	0.0%	0	0	0.0%	15	0	0.0%	
PETRO OUTRIGHT EURO	0D	0	0	0.0%	0	0	1,645	1,859	-11.5%	0	0	0.0%	0	0	0.0%	4,988	4,833	3.2%	
PETRO OUTRIGHT EURO	0E	0	0	0.0%	0	0	20	109	-81.7%	0	0	0.0%	0	0	0.0%	51	119	-57.1%	
PETRO OUTRIGHT EURO	0F	0	0	0.0%	0	0	450	663	-32.1%	0	0	0.0%	0	0	0.0%	1,678	2,435	-31.1%	
PETRO OUTRIGHT EURO	1T	0	0	0.0%	0	0	5	0	0.0%	0	0	0.0%	0	0	0.0%	5	15	-66.7%	
PETRO OUTRIGHT EURO	33	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	
PETRO OUTRIGHT EURO	5L	0	0	0.0%	0	0	10	46	-78.3%	0	0	0.0%	0	0	0.0%	133	89	49.4%	
PETRO OUTRIGHT EURO	63	0	0	0.0%	0	0	0	70	-100.0%	0	0	0.0%	0	0	0.0%	0	107	-100.0%	
PETRO OUTRIGHT EURO	6L	-	0	0.0%	-	0	0	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%	
PETRO OUTRIGHT EURO	7I	0	0	0.0%	0	0	42	365	-88.5%	0	0	0.0%	0	0	0.0%	394	429	-8.2%	
PETRO OUTRIGHT EURO	7R	0	0	0.0%	0	0	114	252	-54.8%	0	0	0.0%	0	0	0.0%	931	1,230	-24.3%	
PETRO OUTRIGHT EURO	88	0	0	0.0%	0	0	0	45	-100.0%	0	0	0.0%	0	0	0.0%	0	95	-100.0%	
PETRO OUTRIGHT EURO	CBB	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	55	-100.0%	
PETRO OUTRIGHT EURO	CGB	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	20	0	0.0%	
PETRO OUTRIGHT EURO	CPB	0	0	0.0%	0	0	67	352	-81.0%	0	0	0.0%	0	0	0.0%	1,292	2,487	-48.0%	
PETRO OUTRIGHT EURO	EFF	0	0	0.0%	0	0	5	93	-94.6%	0	0	0.0%	0	0	0.0%	110	93	18.3%	
PETRO OUTRIGHT EURO	EFM	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	22	0	0.0%	
PETRO OUTRIGHT EURO	ENS	0	0	0.0%	0	0	45	0	0.0%	0	0	0.0%	0	0	0.0%	55	55	0.0%	

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

NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator	Open Outcry APR 2019	Open Outcry APR 2018	% CHG	ELEC APR 2019	ELEC APR 2018	% CHG	CME ClearPort APR 2019	CME ClearPort APR 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG	CME ClearPort Y.T.D 2019	CME ClearPort Y.T.D 2018	% CHG	
Energy Futures																			
PETRO OUTRIGHT EURO	ESB	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
PETRO OUTRIGHT EURO	EWN	0	0	0.0%	0	0	0	373	535	-30.3%	0	0	0.0%	0	0	0.0%	2,870	2,822	1.7%
PETRO OUTRIGHT EURO	FBD	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
PETRO OUTRIGHT EURO	FLB	0	-	-	0	-	0	-	-	-	0	-	0	-	-	0	-	-	-
PETRO OUTRIGHT EURO	GES	0	-	-	0	-	0	-	-	-	0	-	0	-	-	0	-	-	-
PETRO OUTRIGHT EURO	MBB	0	0	0.0%	0	0	0	0	25	-100.0%	0	0	0.0%	0	0	0.0%	0	161	-100.0%
PETRO OUTRIGHT EURO	MBN	0	0	0.0%	0	0	0	420	1,483	-71.7%	0	0	0.0%	0	0	0.0%	1,276	5,499	-76.8%
PETRO OUTRIGHT EURO	MEF	0	-	-	0	-	0	453	-	-	0	-	0	-	-	0	1,423	-	-
PETRO OUTRIGHT EURO	R53	0	-	-	0	-	0	-	-	-	0	-	0	-	-	0	12	-	-
PETRO OUTRIGHT EURO	R5M	0	-	-	0	-	0	4	-	-	0	-	0	-	-	0	4	-	-
PETRO OUTRIGHT EURO	R5O	0	-	-	0	-	0	85	-	-	0	-	0	-	-	0	115	-	-
PETRO OUTRIGHT EURO	S5M	0	-	-	0	-	0	-	-	-	0	-	0	-	-	0	52	-	-
PETRO OUTRIGHT EURO	SMU	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	125	328	-61.9%
PETRO OUTRIGHT EURO	T0	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
PETRO OUTRIGHT EURO	T2B	0	-	-	0	-	0	-	-	-	0	-	0	-	-	0	15	-	-
PETRO OUTRIGHT EURO	ULB	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
PETRO OUTRIGHT EURO	V0	0	0	0.0%	0	0	0	0	300	-100.0%	0	0	0.0%	0	0	0.0%	0	980	-100.0%
PETRO OUTRIGHT EURO	X0	0	-	-	0	-	0	-	-	-	0	-	0	-	-	0	-	-	-
PETRO OUTRIGHT NA	FCB	0	0	0.0%	0	0	0	132	50	164.0%	0	0	0.0%	0	0	0.0%	132	249	-47.0%
PETRO OUTRIGHT NA	FOM	0	0	0.0%	0	0	0	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	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	69	-100.0%
PETRO OUTRIGHT NA	JET	0	0	0.0%	0	0	0	2,100	1,925	9.1%	0	0	0.0%	0	0	0.0%	8,575	9,680	-11.4%
PETRO OUTRIGHT NA	JTB	0	0	0.0%	0	0	0	550	685	-19.7%	0	0	0.0%	0	0	0.0%	2,675	2,460	8.7%
PETRO OUTRIGHT NA	MBL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	10	-100.0%
PETRO OUTRIGHT NA	MEN	0	0	0.0%	0	0	0	185	397	-53.4%	0	0	0.0%	0	0	0.0%	857	1,230	-30.3%
PETRO OUTRIGHT NA	MEO	0	0	0.0%	0	0	0	2,682	3,111	-13.8%	0	0	0.0%	0	0	0.0%	11,254	15,413	-27.0%
PETRO OUTRIGHT NA	MFD	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	30	-100.0%
PETRO OUTRIGHT NA	MMF	0	0	0.0%	0	0	0	134	20	570.0%	0	0	0.0%	0	0	0.0%	360	55	554.5%
PETRO OUTRIGHT NA	NYT	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
PETRO OUTRIGHT NA	XER	0	-	-	0	-	0	-	-	-	0	-	0	-	-	0	0	-	-
PJM AD HUB 5MW REAL TIME	V3	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	70,120	28,032	150.1%
PJM AD HUB 5MW REAL TIME	Z9	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	1,275	7,513	-83.0%
PJM AECO DA OFF-PEAK	X1	-	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%

NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator	Open Outcry APR 2019	Open Outcry APR 2018	% CHG	ELEC APR 2019	ELEC APR 2018	% CHG	CME ClearPort APR 2019	CME ClearPort APR 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG	CME ClearPort Y.T.D 2019	CME ClearPort Y.T.D 2018	% CHG	
Energy Futures																			
PJM APS ZONE DA OFF-PEAK	W4	-	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%
PJM ATSI ELEC	MOD	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	MPD	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 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	0	0.0%
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	0	0.0%
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	0	0.0%
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	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%
PJM JCPL DA PEAK	J2	-	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	0	0.0%	0	0	0.0%	0	0	0.0%	0	5,100	-100.0%
PJM NI HUB 5MW REAL TIME	B6	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
PJM NILL DA OFF-PEAK	L3	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
PJM NILL DA PEAK	N3	0	0	0.0%	0	0	0	22	-100.0%	0	0	0.0%	0	0	0.0%	0	22	-100.0%	
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	-	-	-
PJM PPL DA OFF-PEAK	F5	-	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%
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%	0	0	0.0%
PJM PSEG DA PEAK	L6	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
PJM WESTH DA OFF-PEAK	E4	0	0	0.0%	0	0	0	31,610	-100.0%	0	0	0.0%	0	0	0.0%	0	78,410	-100.0%	
PJM WESTHDA PEAK	J4	0	0	0.0%	0	0	0	1,700	-100.0%	0	0	0.0%	0	0	0.0%	0	4,250	-100.0%	
PJM WESTH RT OFF-PEAK	N9	0	0	0.0%	0	0	0	102,880	-100.0%	0	0	0.0%	0	0	0.0%	23,400	173,080	-86.5%	
PJM WESTH RT PEAK	L1	0	0	0.0%	0	0	4,296	9,860	-56.4%	0	0	0.0%	0	0	0.0%	19,979	34,454	-42.0%	
PLASTICS	PGP	0	0	0.0%	0	0	460	240	91.7%	0	0	0.0%	0	0	0.0%	3,365	1,522	121.1%	
PREMIUM UNLD 10P FOB MED	3G	0	0	0.0%	0	0	118	15	686.7%	0	0	0.0%	0	0	0.0%	660	1,326	-50.2%	
PREMIUM UNLEAD 10PPM FOB	8G	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	18	165	-89.1%	
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%	20	80	-75.0%	
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%	30	10	200.0%	
PROPANE NON-LDH MB (OPIS)	1S	0	0	0.0%	0	0	1,124	487	130.8%	0	0	0.0%	0	0	0.0%	8,174	2,251	263.1%	
PROPANE NON-LDH MT. BEL (O	1R	0	0	0.0%	0	0	18,001	12,775	40.9%	0	0	0.0%	0	0	0.0%	72,519	42,691	69.9%	

NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator	Open Outcry APR 2019	Open Outcry APR 2018	% CHG	ELEC APR 2019	ELEC APR 2018	% CHG	CME ClearPort APR 2019	CME ClearPort APR 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG	CME ClearPort Y.T.D 2019	CME ClearPort Y.T.D 2018	% CHG	
Energy Futures																			
RBOB CALENDAR SWAP	RL	0	0	0.0%	0	0	0	8,994	5,543	62.3%	0	0	0.0%	0	0	0.0%	24,514	17,483	40.2%
RBOB CRACK SPREAD	RM	0	0	0.0%	0	0	0	2,015	1,896	6.3%	0	0	0.0%	0	0	0.0%	4,545	4,468	1.7%
RBOB CRACK SPREAD BALMO	1E	-	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	1,598	3,759	-57.5%	0	0	0.0%	0	0	0.0%	4,301	5,262	-18.3%
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 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 VS HEATING OIL SWAP	RH	0	0	0.0%	0	0	0	0	600	-100.0%	0	0	0.0%	0	0	0.0%	75	1,150	-93.5%
SAN JUAN BASIS SWAP	NJ	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	31	-100.0%
SAN JUAN PIPE SWAP	XX	0	0	0.0%	0	0	0	0	360	-100.0%	0	0	0.0%	0	0	0.0%	0	360	-100.0%
SINGAPORE 180CST BALMO	BS	0	0	0.0%	0	0	0	26	62	-58.1%	0	0	0.0%	0	0	0.0%	63	182	-65.4%
SINGAPORE 380CST BALMO	BT	0	0	0.0%	0	0	0	83	120	-30.8%	0	0	0.0%	0	0	0.0%	198	409	-51.6%
SINGAPORE 380CST FUEL OIL	SE	0	0	0.0%	0	0	0	2,582	9,418	-72.6%	0	0	0.0%	0	0	0.0%	12,341	27,521	-55.2%
SINGAPORE FUEL 180CST CAL	UA	0	0	0.0%	0	0	0	486	1,324	-63.3%	0	0	0.0%	0	0	0.0%	1,321	3,364	-60.7%
SINGAPORE FUEL OIL SPREAD	SD	0	0	0.0%	0	0	0	15	1,525	-99.0%	0	0	0.0%	0	0	0.0%	245	4,140	-94.1%
SINGAPORE GASOIL	MAF	0	-	-	0	-	0	1,576	-	-	0	-	0	-	-	0	7,141	-	-
SINGAPORE GASOIL	MTB	0	0	0.0%	0	0	0	46	0	0.0%	0	0	0.0%	0	0	0.0%	191	268	-28.7%
SINGAPORE GASOIL	MTS	0	0	0.0%	0	0	0	3,224	5,135	-37.2%	0	0	0.0%	0	0	0.0%	14,501	20,330	-28.7%
SINGAPORE GASOIL	STZ	0	0	0.0%	0	0	0	0	150	-100.0%	0	0	0.0%	0	0	0.0%	0	4,300	-100.0%
SINGAPORE GASOIL CALEND A	GDH	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	50	-100.0%
SINGAPORE GASOIL CALEND A	GDL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	250	-100.0%
SINGAPORE GASOIL CALEND A	GHS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
SINGAPORE GASOIL CALEND A	MGO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	200	-100.0%
SINGAPORE GASOIL CALEND A	MSG	0	0	0.0%	0	0	0	19	160	-88.1%	0	0	0.0%	0	0	0.0%	689	3,919	-82.4%
SINGAPORE GASOIL CALEND A	SGG	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	325	-100.0%
SINGAPORE GASOIL SWAP	SG	0	0	0.0%	0	0	0	1,384	5,640	-75.5%	0	0	0.0%	0	1	-100.0%	4,921	21,166	-76.8%
SINGAPORE GASOIL VS ICE	GA	0	0	0.0%	0	0	0	0	9,325	-100.0%	0	0	0.0%	0	0	0.0%	4,340	74,060	-94.1%
SINGAPORE JET KERO BALMO	BX	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	165	-100.0%
SINGAPORE JET KERO GASOIL	RK	0	0	0.0%	0	0	0	0	1,175	-100.0%	0	0	0.0%	0	0	0.0%	100	19,295	-99.5%
SINGAPORE JET KEROSENE S	KS	0	0	0.0%	0	0	0	940	1,210	-22.3%	0	0	0.0%	0	0	0.0%	2,585	4,845	-46.6%
SINGAPORE JET KERO VS. GAS	ZO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	25	-100.0%
SINGAPORE MOGAS 92 UNLEA	1P	0	0	0.0%	0	0	0	450	300	50.0%	0	0	0.0%	0	0	0.0%	1,375	1,663	-17.3%
SINGAPORE MOGAS 92 UNLEA	1N	0	0	0.0%	0	0	0	13,922	11,059	25.9%	0	0	0.0%	0	1	-100.0%	66,400	63,703	4.2%
SINGAPORE NAPHTHA SWAP	SP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	200	-100.0%
SING FUEL	MSD	0	0	0.0%	0	0	0	0	55	-100.0%	0	0	0.0%	0	0	0.0%	0	55	-100.0%

NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator	Open Outcry APR 2019	Open Outcry APR 2018	% CHG	ELEC APR 2019	ELEC APR 2018	% CHG	CME ClearPort APR 2019	CME ClearPort APR 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG	CME ClearPort Y.T.D 2019	CME ClearPort Y.T.D 2018	% CHG	
Energy Futures																			
SOCAL PIPE SWAP	XN	-	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%
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%	0	91	-100.0%
SUMAS NAT GAS PLATTS FIXE	DVS	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
TC2 ROTTERDAM TO USAC 37K	TM	0	0	0.0%	0	0	0	250	30	733.3%	0	0	0.0%	0	0	0.0%	980	548	78.8%
TC5 RAS TANURA TO YOKOHA	TH	0	0	0.0%	0	0	0	280	20	1,300.0%	0	0	0.0%	0	0	0.0%	1,520	240	533.3%
TCO BASIS SWAP	TC	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
TCO NG INDEX SWAP	Q1	-	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	3,015	160	1,784.4%	0	0	0.0%	0	0	0.0%	14,986	1,965	662.6%
TENNESSEE 500 LEG BASIS S	NM	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
TENNESSEE 800 LEG NG BASI	6Z	-	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	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%
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	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
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	0	0.0%
TRANSCO ZONE 3 NG INDEX S	Y6	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
TRANSCO ZONE4 BASIS SWAP	TR	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 4 NAT GAS IN	B2	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
TRANSCO ZONE 6 BASIS SWAP	NZ	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 6 INDEX	IT	-	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	0	0	0.0%	0	0	0.0%	0	0	0.0%	20	50	-60.0%
UK NBP NAT GAS CAL MTH FUT	UKG	0	0	0.0%	355	5,215	-0.93	0	0	0.0%	0	0	0.0%	3,129	14,930	-79.0%	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%
ULSD 10PPM CIF MED VS ICE	Z7	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	14	-100.0%
ULSD 10PPM CIF NW BALMO S	B1	-	0	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	0	3,400	5,525	-38.5%	0	0	0.0%	0	0	0.0%	23,470	19,765	18.7%
UP DOWN GC ULSD VS NMX H	LT	0	0	0.0%	0	0	0	20,310	26,656	-23.8%	0	0	0.0%	0	0	0.0%	103,499	138,852	-25.5%
WAHA BASIS	NW	0	0	0.0%	0	0	0	75	839	-91.1%	0	0	0.0%	0	0	0.0%	500	2,925	-82.9%
WAHA INDEX SWAP FUTURE	IY	-	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	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	15	-100.0%
WTI-BRENT BULLET SWAP	BY	0	0	0.0%	0	0	0	264	6,300	-95.8%	0	0	0.0%	0	0	0.0%	864	6,300	-86.3%

NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator		Open Outcry APR 2019	Open Outcry APR 2018	% CHG	ELEC APR 2019	ELEC APR 2018	% CHG	CME ClearPort APR 2019	CME ClearPort APR 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG	CME ClearPort Y.T.D 2019	CME ClearPort Y.T.D 2018	% CHG
Energy Futures																			
WTI-BRENT CALENDAR SWAP	BK	0	0	0.0%	0	0	0	61,338	35,865	71.0%	0	0	0.0%	0	0	0.0%	140,208	152,174	-7.9%
WTI CALENDAR	CS	0	0	0.0%	0	0	0	68,900	43,112	59.8%	0	0	0.0%	0	0	0.0%	191,982	153,553	25.0%
WTS (ARGUS) VS WTI SWAP	FF	0	0	0.0%	0	0	0	1,845	3,669	-49.7%	0	0	0.0%	0	0	0.0%	13,053	35,867	-63.6%
WTS (ARGUS) VS WTI TRD MT	FH	0	0	0.0%	0	0	0	966	1,050	-8.0%	0	0	0.0%	0	0	0.0%	3,978	1,272	212.7%
Energy Options																			
12 MO GASOIL CAL SWAP SPR	GXZ	-	0	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	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	3,000	-100.0%
BRENT CALENDAR SWAP	BA	0	0	0.0%	0	0	0	240	0	0.0%	0	0	0.0%	0	0	0.0%	240	1,140	-78.9%
BRENT CRUDE OIL 12 M CSO	9Y	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	2,000	-100.0%
BRENT CRUDE OIL 1 M CSO	9C	0	0	0.0%	0	1,800	-1	9,000	130,744	-93.1%	0	0	0.0%	0	1,800	-100.0%	30,100	252,944	-88.1%
BRENT CRUDE OIL 6 M CSO	9L	0	0	0.0%	0	0	0	0	1,000	-100.0%	0	0	0.0%	0	0	0.0%	0	1,000	-100.0%
BRENT OIL LAST DAY	BE	0	0	0.0%	0	0	0	57,956	51,349	12.9%	0	0	0.0%	0	0	0.0%	174,799	86,164	102.9%
BRENT OIL LAST DAY	BZO	0	0	0.0%	63,187	49,268	0.28	32,495	82,121	-60.4%	0	0	0.0%	249,841	156,908	59.2%	121,611	297,941	-59.2%
BRENT OIL LAST DAY	OS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	40	-100.0%	0	1,000	-100.0%
COAL API2 INDEX	CLA	0	0	0.0%	0	0	0	35	225	-84.4%	0	0	0.0%	0	0	0.0%	85	2,965	-97.1%
COAL API2 INDEX	CQA	0	0	0.0%	0	0	0	0	400	-100.0%	0	0	0.0%	0	0	0.0%	510	1,050	-51.4%
COAL API2 INDEX	MTC	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
COAL API4 INDEX	RLA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	25	-100.0%
COAL API4 INDEX	RQA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	60	-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	0	0.0%
COAL SWAP	RPF	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	6Y	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	150	-	-
CRUDE OIL 1MO	WA	0	0	0.0%	8,107	25,725	-0.68	310,050	224,550	38.1%	0	0	0.0%	20,361	70,610	-71.2%	986,100	680,650	44.9%
CRUDE OIL APO	AO	0	0	0.0%	0	120	-1	81,180	56,827	42.9%	0	0	0.0%	3	166	-98.2%	233,597	228,750	2.1%
CRUDE OIL CALNDR STRIP	6F	0	0	0.0%	0	0	0	0	170	-100.0%	0	0	0.0%	0	0	0.0%	200	170	17.6%
CRUDE OIL OUTRIGHTS	AH	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	DBP	-	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%	960	0	0.0%
CRUDE OIL PHY	CD	0	0	0.0%	0	0	0	600	3,850	-84.4%	0	0	0.0%	0	0	0.0%	850	7,025	-87.9%
CRUDE OIL PHY	LC	0	0	0.0%	0	0	0	17,379	13,590	27.9%	0	0	0.0%	0	700	-100.0%	40,365	52,591	-23.2%
CRUDE OIL PHY	LO	0	0	0.0%	2,282,741	3,080,450	-0.26	508,268	639,370	-20.5%	0	0	0.0%	7,767,918	12,213,911	-36.4%	1,614,845	2,703,902	-40.3%

NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator	Open Outcry APR 2019	Open Outcry APR 2018	% CHG	ELEC APR 2019	ELEC APR 2018	% CHG	CME ClearPort APR 2019	CME ClearPort APR 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG	CME ClearPort Y.T.D 2019	CME ClearPort Y.T.D 2018	% CHG	
Energy Options																			
CRUDE OIL PHY	LO1	0	0	0.0%	23,358	14,510	0.61	0	0	0.0%	0	0	0.0%	69,263	48,112	44.0%	200	50	300.0%
CRUDE OIL PHY	LO2	0	0	0.0%	27,270	18,070	0.51	0	0	0.0%	0	0	0.0%	71,587	55,313	29.4%	100	50	100.0%
CRUDE OIL PHY	LO3	0	0	0.0%	10,239	16,700	-0.39	300	125	140.0%	0	0	0.0%	26,772	47,590	-43.7%	300	325	-7.7%
CRUDE OIL PHY	LO4	0	0	0.0%	26,507	18,310	0.45	0	0	0.0%	0	0	0.0%	61,485	57,841	6.3%	0	50	-100.0%
CRUDE OIL PHY	LO5	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	19,176	13,052	46.9%	400	225	77.8%
ELEC MISO PEAK	9T	-	0	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	175	-100.0%	0	0	0.0%	0	0	0.0%	0	275	-100.0%
ETHANOL	CE3	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
ETHANOL SWAP	CVR	0	0	0.0%	0	0	0	10,957	7,360	48.9%	0	0	0.0%	0	0	0.0%	31,209	31,867	-2.1%
ETHANOL SWAP	GVR	0	0	0.0%	0	0	0	0	600	-100.0%	0	0	0.0%	0	0	0.0%	780	1,683	-53.7%
EUROPEAN JET KEROSENE N	30	-	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%
HEATING OIL CRACK OPTIONS	CH	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
HEATING OIL CRK SPD AVG PR	3W	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
HEATING OIL PHY	LB	0	0	0.0%	0	0	0	343	0	0.0%	0	0	0.0%	0	0	0.0%	676	0	0.0%
HEATING OIL PHY	OH	0	0	0.0%	4,147	6,185	-0.33	15,835	19,359	-18.2%	0	0	0.0%	16,058	27,473	-41.5%	83,462	107,036	-22.0%
HENRY HUB FINANCIAL LAST	E7	0	0	0.0%	0	0	0	11,931	1,386	760.8%	0	0	0.0%	0	5	-100.0%	29,970	14,443	107.5%
HO 1 MONTH CLNDR OPTIONS	FA	0	0	0.0%	0	0	0	1,150	0	0.0%	0	0	0.0%	0	0	0.0%	2,150	0	0.0%
LLS CRUDE OIL	WJO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	100	-100.0%
LLS CRUDE OIL	YVO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
MCCLOSKY ARA ARGS COAL	MTO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	130	90	44.4%
MCCLOSKY RCH BAY COAL	MFO	0	0	0.0%	0	0	0	50	200	-75.0%	0	0	0.0%	0	0	0.0%	270	1,725	-84.3%
NATURAL GAS	G10	-	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	12,000	150	7,900.0%	0	0	0.0%	2,870	1	286,900.0%	171,630	212,691	-19.3%
NATURAL GAS 2 M CSO FIN	G2	0	0	0.0%	0	0	0	1,250	0	0.0%	0	0	0.0%	0	0	0.0%	1,750	0	0.0%
NATURAL GAS 3 M CSO FIN	G3	0	0	0.0%	0	0	0	25,500	7,815	226.3%	0	0	0.0%	0	1	-100.0%	30,600	14,295	114.1%
NATURAL GAS 5 M CSO FIN	G5	0	0	0.0%	0	0	0	0	1,100	-100.0%	0	0	0.0%	0	0	0.0%	0	2,550	-100.0%
NATURAL GAS 6 M CSO FIN	G6	0	0	0.0%	0	0	0	11,300	1,000	1,030.0%	0	0	0.0%	0	0	0.0%	28,375	63,650	-55.4%
NATURAL GAS OPTION ON CAL	6J	0	0	0.0%	0	0	0	400	4,584	-91.3%	0	0	0.0%	0	0	0.0%	7,700	18,408	-58.2%
NATURAL GAS PHY	KD	0	0	0.0%	837	9,242	-0.91	1,600	9,150	-82.5%	0	0	0.0%	1,482	59,301	-97.5%	6,725	32,325	-79.2%
NATURAL GAS PHY	LN	0	0	0.0%	537,853	691,388	-0.22	691,939	583,758	18.5%	0	0	0.0%	3,015,750	4,975,821	-39.4%	2,663,293	3,368,270	-20.9%
NATURAL GAS PHY	ON	0	0	0.0%	118,961	100,667	0.18	2,670	12,422	-78.5%	0	0	0.0%	497,310	689,755	-27.9%	24,029	47,696	-49.6%
NATURAL GAS WINTER STRIP	6I	0	-	-	0	-	0	0	-	-	0	-	0	-	-	-	0	-	-
N ROCKIES PIPE SWAP	ZR	0	0	0.0%	0	0	0	1,026	0	0.0%	0	0	0.0%	0	0	0.0%	1,026	0	0.0%

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

NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator	Open Outcry APR 2019	Open Outcry APR 2018	% CHG	ELEC APR 2019	ELEC APR 2018	% CHG	CME ClearPort APR 2019	CME ClearPort APR 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG	CME ClearPort Y.T.D 2019	CME ClearPort Y.T.D 2018	% CHG	
Energy Options																			
NY HARBOR HEAT OIL SWP	AT	0	0.0%	56	98	-0.43	340	1,758	-80.7%	0	0	0.0%	144	157	-8.3%	4,730	11,586	-59.2%	
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	0.0%	
NYMEX EUROPEAN GASOIL AP	F7	-	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	0.0%	
PETROCHEMICALS	4H	0	0.0%	0	0	0	377	500	-24.6%	0	0	0.0%	0	5	-100.0%	1,844	2,128	-13.3%	
PETROCHEMICALS	4J	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	1,350	-100.0%	
PETROCHEMICALS	4K	0	0.0%	0	0	0	160	0	0.0%	0	0	0.0%	0	0	0.0%	160	0	0.0%	
PETROCHEMICALS	CPR	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	
PETRO OUTRIGHT EURO	8H	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	
PETRO OUTRIGHT EURO	BCO	0	-	-	0	-	0	-	-	0	-	-	0	-	-	24	-	-	
PETRO OUTRIGHT NA	DAP	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	40	170	-76.5%	0	0	0.0%	0	0	0.0%	160	250	-36.0%	
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	-100.0%	
PJM WES HUB PEAK LMP 50MW	PMA	0	0.0%	0	0	0	0	1,282	-100.0%	0	0	0.0%	0	0	0.0%	836	4,275	-80.4%	
RBOB 1MO CAL SPD OPTIONS	ZA	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	150	500	-70.0%	
RBOB CALENDAR SWAP	RA	0	0.0%	0	0	0	0	460	-100.0%	0	0	0.0%	0	0	0.0%	237	910	-74.0%	
RBOB CRACK	RX	0	-	-	0	-	0	-	-	0	-	-	0	-	-	0	-	-	
RBOB PHY	OB	0	0.0%	6,118	2,905	1.11	27,169	5,445	399.0%	0	0	0.0%	14,045	19,329	-27.3%	53,009	27,105	95.6%	
RBOB PHY	RF	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	516	125	312.8%	
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%	
SAN JUAN PIPE SWAP	PJ	0	0.0%	0	0	0	0	900	-100.0%	0	0	0.0%	0	0	0.0%	0	900	-100.0%	
SHORT TERM	C15	0	-	-	0	-	0	-	-	0	-	-	0	-	-	0	-	-	
SHORT TERM	U11	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	250	300	-16.7%	
SHORT TERM	U12	0	0.0%	0	0	0	0	325	-100.0%	0	0	0.0%	0	85	-100.0%	700	450	55.6%	
SHORT TERM	U13	0	0.0%	0	0	0	0	100	-100.0%	0	0	0.0%	0	0	0.0%	0	100	-100.0%	
SHORT TERM	U14	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	10	-100.0%	50	625	-92.0%	
SHORT TERM	U15	0	0.0%	25	0	0	0	0	0.0%	0	0	0.0%	25	125	-80.0%	800	150	433.3%	
SHORT TERM	U22	0	0.0%	1	0	0	0	0	0.0%	0	0	0.0%	1	0	0.0%	0	1,025	-100.0%	
SHORT TERM	U23	0	0.0%	0	0	0	0	250	-100.0%	0	0	0.0%	0	80	-100.0%	0	500	-100.0%	
SHORT TERM	U24	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	100	-100.0%	
SHORT TERM	U25	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	
SHORT TERM	U26	0	0.0%	0	0	0	0	300	-100.0%	0	0	0.0%	0	0	0.0%	0	300	-100.0%	
SHORT TERM NATURAL GAS	U01	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	25	0	0.0%	500	125	300.0%	
SHORT TERM NATURAL GAS	U02	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	75	-100.0%	0	900	-100.0%	

NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator	Open Outcry APR 2019	Open Outcry APR 2018	% CHG	ELEC APR 2019	ELEC APR 2018	% CHG	CME ClearPort APR 2019	CME ClearPort APR 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG	CME ClearPort Y.T.D 2019	CME ClearPort Y.T.D 2018	% CHG	
Energy Options																			
SHORT TERM NATURAL GAS	U03	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	30	-100.0%	0	100	-100.0%	
SHORT TERM NATURAL GAS	U04	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	600	250	140.0%	
SHORT TERM NATURAL GAS	U05	0	0	0.0%	0	0	0	200	-100.0%	0	0	0.0%	0	25	-100.0%	200	600	-66.7%	
SHORT TERM NATURAL GAS	U06	0	0	0.0%	0	0	0	450	-100.0%	0	0	0.0%	0	0	0.0%	50	450	-88.9%	
SHORT TERM NATURAL GAS	U07	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	600	250	140.0%	
SHORT TERM NATURAL GAS	U08	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	500	1,225	-59.2%	
SHORT TERM NATURAL GAS	U09	0	0	0.0%	0	33	-1	0	425	-100.0%	0	0	0.0%	0	34	-100.0%	100	700	-85.7%
SHORT TERM NATURAL GAS	U10	0	0	0.0%	0	0	0	100	-100.0%	0	0	0.0%	0	0	0.0%	0	200	-100.0%	
SHORT TERM NATURAL GAS	U16	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	35	-100.0%	100	550	-81.8%	
SHORT TERM NATURAL GAS	U17	0	0	0.0%	0	0	0	300	-100.0%	0	0	0.0%	0	70	-100.0%	0	450	-100.0%	
SHORT TERM NATURAL GAS	U18	0	0	0.0%	25	0	0	0	0.0%	0	0	0.0%	25	0	0.0%	0	500	-100.0%	
SHORT TERM NATURAL GAS	U19	0	0	0.0%	0	0	0	125	-100.0%	0	0	0.0%	0	60	-100.0%	0	125	-100.0%	
SHORT TERM NATURAL GAS	U20	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	
SHORT TERM NATURAL GAS	U21	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	50	0	0.0%	
SHORT TERM NATURAL GAS	U27	0	0	0.0%	0	0	0	150	-100.0%	0	0	0.0%	0	0	0.0%	0	400	-100.0%	
SHORT TERM NATURAL GAS	U28	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	25	0	0.0%	400	100	300.0%	
SHORT TERM NATURAL GAS	U29	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	300	-100.0%	
SHORT TERM NATURAL GAS	U30	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	100	-100.0%	
SHORT TERM NATURAL GAS	U31	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	25	-100.0%	850	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%	
SINGAPORE JET FUEL CALEND	N2	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%	
WTI-BRENT BULLET SWAP	BV	0	0	0.0%	2,425	18,100	-0.87	43,850	122,660	-64.3%	0	0	0.0%	21,655	128,821	-83.2%	210,125	397,667	-47.2%
WTI CRUDE OIL 1 M CSO FI	7A	0	0	0.0%	4,000	750	4.33	106,950	116,750	-8.4%	0	0	0.0%	8,100	10,950	-26.0%	253,200	310,100	-18.3%

NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator	Open Outcry APR 2019	Open Outcry APR 2018	% CHG	ELEC APR 2019	ELEC APR 2018	% CHG	CME ClearPort APR 2019	CME ClearPort APR 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG	CME ClearPort Y.T.D 2019	CME ClearPort Y.T.D 2018	% CHG	
Metals Futures																			
COMEX GOLD	GC	0	0	0.0%	4,935,669	6,403,880	-0.23	160,677	251,181	-36.0%	0	0	0.0%	21,338,871	28,865,817	-26.1%	725,350	1,065,768	-31.9%
NYMEX HOT ROLLED STEEL	HR	0	0	0.0%	3,231	2,748	0.18	15,800	9,326	69.4%	0	0	0.0%	13,213	12,025	9.9%	55,964	29,211	91.6%
NYMEX PLATINUM	PL	0	0	0.0%	385,497	412,608	-0.07	12,815	11,097	15.5%	0	0	0.0%	1,712,440	1,734,008	-1.2%	65,939	42,998	53.4%
PALLADIUM	PA	0	0	0.0%	94,243	139,059	-0.32	2,434	6,079	-60.0%	0	0	0.0%	450,924	487,400	-7.5%	13,418	22,291	-39.8%
URANIUM	UX	0	0	0.0%	0	27	-1	1,000	0	0.0%	0	0	0.0%	307	79	288.6%	6,368	833	664.5%
COMEX SILVER	SI	0	0	0.0%	1,875,954	2,519,813	-0.26	44,351	105,943	-58.1%	0	0	0.0%	6,465,253	8,552,886	-24.4%	183,405	257,499	-28.8%
COMEX E-Mini GOLD	QO	0	0	0.0%	9,214	6,988	0.32	0	0	0.0%	0	0	0.0%	28,746	28,545	0.7%	0	0	0.0%
COMEX E-Mini SILVER	QI	0	0	0.0%	3,970	1,201	2.31	0	0	0.0%	0	0	0.0%	10,680	4,959	115.4%	0	0	0.0%
COMEX COPPER	HG	0	0	0.0%	2,225,217	3,055,902	-0.27	18,281	35,055	-47.9%	0	0	0.0%	8,359,823	11,250,981	-25.7%	89,312	112,345	-20.5%
COMEX MINY COPPER	QC	0	0	0.0%	779	531	0.47	0	0	0.0%	0	0	0.0%	2,452	2,399	2.2%	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%	22	0	0.0%
ALUMINUM	AEP	0	0	0.0%	0	0	0	2,337	2,988	-21.8%	0	0	0.0%	55	0	0.0%	7,810	7,036	11.0%
ALUMINUM	ALA	0	0	0.0%	0	0	0	0	2,050	-100.0%	0	0	0.0%	0	0	0.0%	120	2,925	-95.9%
ALUMINUM	ALI	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
ALUMINUM	AUP	0	0	0.0%	211	1,107	-0.81	6,074	10,098	-39.8%	0	0	0.0%	2,953	3,204	-7.8%	22,256	47,254	-52.9%
ALUMINUM	CUP	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	25	-100.0%	0	180	-100.0%
ALUMINUM	EDP	0	0	0.0%	0	0	0	1,492	174	757.5%	0	0	0.0%	72	5	1,340.0%	8,952	6,687	33.9%
ALUMINUM	MJP	0	0	0.0%	0	0	0	540	1,194	-54.8%	0	0	0.0%	0	0	0.0%	2,760	7,299	-62.2%
COPPER	HGS	0	0	0.0%	0	0	0	1,196	691	73.1%	0	0	0.0%	0	0	0.0%	3,647	10,073	-63.8%
E-MICRO GOLD	MGC	0	0	0.0%	184,890	133,405	0.39	0	0	0.0%	0	0	0.0%	803,591	519,152	54.8%	0	0	0.0%
FERROUS PRODUCTS	BUS	0	0	0.0%	764	4	190	1,716	1,483	15.7%	0	0	0.0%	2,301	46	4,902.2%	3,126	9,148	-65.8%
GOLD	GPS	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
Gold Kilo	GCK	0	0	0.0%	0	60	-1	0	0	0.0%	0	0	0.0%	0	136	-100.0%	0	0	0.0%
IRON ORE 62 CHINA PLATTS FL	PIO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
IRON ORE 62 CHINA TSI FUTUR	TIO	0	0	0.0%	0	10	-1	4,431	3,579	23.8%	0	0	0.0%	28	26	7.7%	29,327	14,388	103.8%
LNDN ZINC	ZNC	0	0	0.0%	117	7	15.71	0	0	0.0%	0	0	0.0%	1,086	40	2,615.0%	0	0	0.0%
SILVER	SIL	0	0	0.0%	15,831	9,335	0.7	0	0	0.0%	0	0	0.0%	62,601	29,268	113.9%	0	0	0.0%

NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator	Open Outcry APR 2019	Open Outcry APR 2018	% CHG	ELEC APR 2019	ELEC APR 2018	% CHG	CME ClearPort APR 2019	CME ClearPort APR 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG	CME ClearPort Y.T.D 2019	CME ClearPort Y.T.D 2018	% CHG	
Metals Options																			
COMEX COPPER	HX	0	0	0.0%	45,239	14,079	2.21	24,542	10,285	138.6%	0	0	0.0%	163,933	59,123	177.3%	92,192	23,093	299.2%
COMEX GOLD	OG	0	0	0.0%	687,264	754,169	-0.09	119,769	205,170	-41.6%	0	0	0.0%	2,910,652	3,043,068	-4.4%	834,413	799,654	4.3%
COMEX SILVER	SO	0	0	0.0%	93,522	152,003	-0.38	10,053	25,204	-60.1%	0	0	0.0%	412,350	512,645	-19.6%	83,568	78,555	6.4%
COPPER	H1E	0	-	-	64	-	0	-	-	0	-	-	100	-	-	0	-	-	
COPPER	H2E	0	-	-	25	-	0	-	-	0	-	-	47	-	-	0	-	-	
COPPER	H3E	0	-	-	0	-	0	-	-	0	-	-	27	-	-	0	-	-	
COPPER	H4E	0	-	-	10	-	0	-	-	0	-	-	32	-	-	0	-	-	
COPPER	H5E	0	-	-	0	-	0	-	-	0	-	-	10	-	-	0	-	-	
GOLD	OG1	0	0	0.0%	33,528	10,641	2.15	1,700	60	2,733.3%	0	0	0.0%	90,926	40,212	126.1%	3,050	860	254.7%
GOLD	OG2	0	0	0.0%	21,964	7,328	2	2,400	0	0.0%	0	0	0.0%	84,135	29,854	181.8%	5,700	2,670	113.5%
GOLD	OG3	0	0	0.0%	17,787	8,271	1.15	875	0	0.0%	0	0	0.0%	67,657	33,082	104.5%	5,154	3,550	45.2%
GOLD	OG4	0	0	0.0%	10,900	8,085	0.35	0	0	0.0%	0	0	0.0%	36,816	22,261	65.4%	600	1,250	-52.0%
GOLD	OG5	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	13,223	6,835	93.5%	500	0	0.0%
HOT ROLLED COIL STEEL CALL	HRO	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	600	0	0.0%
IRON ORE 62 CHINA TSI CALL C	ICT	0	0	0.0%	0	0	0	3,150	0	0.0%	0	0	0.0%	0	0	0.0%	6,660	200	3,230.0%
IRON ORE 62 CHINA TSI PUT O	ICT	0	0	0.0%	0	0	0	1,800	0	0.0%	0	0	0.0%	0	0	0.0%	3,600	1,080	233.3%
NYMEX PLATINUM	PO	0	0	0.0%	1,184	741	0.6	3,050	200	1,425.0%	0	0	0.0%	5,039	5,798	-13.1%	9,551	6,736	41.8%
PALLADIUM	PAO	0	0	0.0%	528	2,273	-0.77	1,000	2,317	-56.8%	0	0	0.0%	2,495	7,630	-67.3%	2,970	6,732	-55.9%
SILVER	SO1	0	0	0.0%	987	121	7.16	0	0	0.0%	0	0	0.0%	3,334	621	436.9%	200	0	0.0%
SILVER	SO2	0	0	0.0%	1,262	115	9.97	200	0	0.0%	0	0	0.0%	3,154	350	801.1%	200	0	0.0%
SILVER	SO3	0	0	0.0%	1,131	321	2.52	0	0	0.0%	0	0	0.0%	4,427	758	484.0%	100	0	0.0%
SILVER	SO4	0	0	0.0%	830	46	17.04	0	0	0.0%	0	0	0.0%	1,556	365	326.3%	0	0	0.0%
SILVER	SO5	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	1,305	133	881.2%	0	0	0.0%
TOTAL FUTURES GROUP																			
Ag Products Futures		0	0	0.0%	0	63	-100.0%	0	0	0.0%	0	0	0.0%	3	65	-95.4%	0	0	0.0%
Energy Futures		0	0	0.0%	44,331,661	45,962,519	-3.5%	2,756,470	2,695,990	2.2%	0	0	0.0%	165,218,494	183,270,392	-9.8%	10,446,695	11,939,822	-12.5%
Metals Futures		0	0	0.0%	9,735,587	12,686,685	-23.3%	273,144	440,938	-38.1%	0	0	0.0%	39,255,396	51,491,001	-23.8%	1,217,776	1,635,935	-25.6%
TOTAL FUTURES		0	0	0.0%	54,067,248	58,649,267	-7.8%	3,029,614	3,136,928	-3.4%	0	0	0.0%	204,473,893	234,761,458	-12.9%	11,664,471	13,575,757	-14.1%

NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator	Open Outcry APR 2019	Open Outcry APR 2018	% CHG	ELEC APR 2019	ELEC APR 2018	% CHG	CME ClearPort APR 2019	CME ClearPort APR 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG	CME ClearPort Y.T.D 2019	CME ClearPort Y.T.D 2018	% CHG
TOTAL OPTIONS GROUP																		
Energy Options	0	0	0.0%	3,115,857	4,054,321	-23.1%	1,984,340	2,106,030	-5.8%	0	0	0.0%	11,863,921	18,578,316	-36.1%	6,819,928	9,008,832	-24.3%
Metals Options	0	0	0.0%	916,225	958,193	-4.4%	168,539	243,236	-30.7%	0	0	0.0%	3,801,218	3,762,735	1.0%	1,049,058	924,380	13.5%
TOTAL OPTIONS	0	0	0.0%	4,032,082	5,012,514	-19.6%	2,152,879	2,349,266	-8.4%	0	0	0.0%	15,665,139	22,341,051	-29.9%	7,868,986	9,933,212	-20.8%
TOTAL COMBINED																		
Ag Products	0	0	0.0%	0	63	-100.0%	0	0	0.0%	0	0	0.0%	3	65	-95.4%	0	0	0.0%
Energy	0	0	0.0%	47,447,518	50,016,840	-5.1%	4,740,810	4,802,020	-1.3%	0	0	0.0%	177,082,415	201,848,708	-12.3%	17,266,623	20,948,654	-17.6%
Metals	0	0	0.0%	10,651,812	13,644,878	-21.9%	441,683	684,174	-35.4%	0	0	0.0%	43,056,614	55,253,736	-22.1%	2,266,834	2,560,315	-11.5%
GRAND TOTAL	0	0	0.0%	58,099,330	63,661,781	-8.7%	5,182,493	5,486,194	-5.5%	0	0	0.0%	220,139,032	257,102,509	-14.4%	19,533,457	23,508,969	-16.9%