

## NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator	Open Outcry NOV 2022	Open Outcry NOV 2021	% CHG	ELEC NOV 2022	ELEC NOV 2021	% CHG	CME ClearPort NOV 2022	CME ClearPort NOV 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG	CME ClearPort Y.T.D 2022	CME ClearPort Y.T.D 2021	% CHG	
<b>Ag Products Futures</b>																			
COFFEE	KT	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	2	-100.0%	0	0	0.0%
COTTON	TT	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
SUGAR 11	YO	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
<b>Energy Futures</b>																			
CRUDE OIL PHY	CL	0	0	0.0%	16,081,520	22,606,291	-0.29	328,944	376,191	-12.6%	0	0	0.0%	187,198,491	226,422,764	-17.3%	3,989,610	4,561,962	-12.5%
CRUDE OIL	WS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	1,000	3,732	-73.2%
MINY WTI CRUDE OIL	QM	0	0	0.0%	432,710	618,678	-0.3	0	0	0.0%	0	0	0.0%	6,554,053	4,781,553	37.1%	0	0	0.0%
BRENT OIL LAST DAY	BZ	0	0	0.0%	1,447,144	2,192,531	-0.34	19,113	34,596	-44.8%	0	0	0.0%	15,934,541	22,232,764	-28.3%	282,308	240,608	17.3%
HEATING OIL PHY	HO	0	0	0.0%	2,589,007	3,692,975	-0.3	85,555	124,283	-31.2%	0	0	0.0%	35,566,636	33,890,091	4.9%	1,177,518	2,016,474	-41.6%
HTG OIL	BH	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	108	124	-12.9%
MINY HTG OIL	QH	0	0	0.0%	13	9	0.44	0	0	0.0%	0	0	0.0%	99	70	41.4%	0	0	0.0%
RBOB PHY	RB	0	0	0.0%	2,749,077	3,974,823	-0.31	145,270	161,185	-9.9%	0	0	0.0%	36,591,366	42,462,006	-13.8%	1,648,351	2,063,087	-20.1%
MINY RBOB GAS	QU	0	0	0.0%	5	8	-0.38	0	0	0.0%	0	0	0.0%	95	94	1.1%	0	0	0.0%
NATURAL GAS	HP	0	0	0.0%	36,117	60,148	-0.4	111,756	81,857	36.5%	0	0	0.0%	465,150	595,213	-21.9%	1,380,619	1,176,922	17.3%
LTD NAT GAS	HH	0	0	0.0%	242,969	254,937	-0.05	122,895	82,053	49.8%	0	0	0.0%	2,645,830	2,590,692	2.1%	1,255,043	1,115,782	12.5%
MINY NATURAL GAS	QG	0	0	0.0%	325,450	326,126	0	120	0	0.0%	0	0	0.0%	3,410,977	2,110,945	61.6%	288	0	0.0%
PJM MONTHLY	JM	-	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%	6,829,393	7,411,282	-0.08	130,206	144,067	-9.6%	0	0	0.0%	77,016,182	88,277,423	-12.8%	1,516,724	1,641,258	-7.6%
RBOB GAS	RT	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	72	84	-14.3%
3.5% FUEL OIL CID MED SWA	7D	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
AEP-DAYTON HUB DAILY	VD	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
ARGUS LLS VS. WTI (ARG) T	E5	0	0	0.0%	0	0	0	2,870	5,661	-49.3%	0	0	0.0%	0	0	0.0%	63,190	93,008	-32.1%
ARGUS PROPAN FAR EST INDE	7E	0	0	0.0%	0	0	0	9,075	5,703	59.1%	0	0	0.0%	0	0	0.0%	66,316	67,501	-1.8%
ARGUS PROPAN(SAUDI ARAMC	9N	0	0	0.0%	0	0	0	3,027	1,901	59.2%	0	0	0.0%	0	0	0.0%	22,410	20,144	11.2%
AUSTRIALIAN COKE COAL	ALW	-	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	0	0	0.0%	0	0	0.0%	0	0	0.0%	1,587	1,314	20.8%
BRENT CALENDAR SWAP	CY	0	0	0.0%	0	0	0	5,948	13,493	-55.9%	0	0	0.0%	0	0	0.0%	153,925	112,681	36.6%
BRENT FINANCIAL FUTURES	BB	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	4,000	-100.0%
BRENT FINANCIAL FUTURES	MBC	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	250	0	0.0%
BRENT FINANCIAL FUTURES	MDB	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	68	-100.0%



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<b>Energy Futures</b>																			
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%	
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%	
CAR VINTAGE	GEO	0	0	0.0%	1,875	1,664	0.13	5,988	2,725	119.7%	0	0	0.0%	20,461	9,377	118.2%	19,721	4,494	338.8%
CAR VINTAGE	NGO	0	0	0.0%	3,840	1,929	0.99	6,559	7,087	-7.5%	0	0	0.0%	45,667	11,412	300.2%	83,494	15,842	427.0%
CHICAGO ETHANOL SWAP	CU	0	0	0.0%	273	487	-0.44	55,061	77,293	-28.8%	0	0	0.0%	1,776	3,832	-53.7%	651,236	808,655	-19.5%
CHICAGO ULSD PL VS HO SPR	5C	0	0	0.0%	0	0	0	440	25	1,660.0%	0	0	0.0%	0	0	0.0%	7,123	3,722	91.4%
CHICAGO UNL GAS PL VS RBO	3C	0	0	0.0%	0	0	0	0	75	-100.0%	0	0	0.0%	0	0	0.0%	0	500	-100.0%
CIG BASIS	CI	-	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%	-	0	0.0%	-	0	0.0%	-	0	0.0%
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%
CIN HUB 5MW REAL TIME PK	H3	-	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%
CONWAY NATURAL GASOLINE	8L	0	0	0.0%	0	0	0	15	50	-70.0%	0	0	0.0%	0	0	0.0%	2,976	3,308	-10.0%
CONWAY NORMAL BUTANE (O	8M	0	0	0.0%	0	0	0	605	215	181.4%	0	0	0.0%	0	0	0.0%	4,112	3,197	28.6%
CONWAY PROPANE 5 DECIMAL	8K	0	0	0.0%	5	0	0	19,897	14,895	33.6%	0	0	0.0%	80	31	158.1%	180,780	163,458	10.6%
CRUDE OIL	LPS	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 LAST DAY	26	0	0	0.0%	0	0	0	697	457	52.5%	0	0	0.0%	0	0	0.0%	4,719	3,130	50.8%
CRUDE OIL OUTRIGHTS	42	0	0	0.0%	0	0	0	524	309	69.6%	0	0	0.0%	0	0	0.0%	9,558	3,342	186.0%
CRUDE OIL OUTRIGHTS	CC5	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	1,988	9,906	-79.9%
CRUDE OIL OUTRIGHTS	CSW	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	1,320	14,019	-90.6%
CRUDE OIL OUTRIGHTS	DAB	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
CRUDE OIL OUTRIGHTS	DBL	-	0	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	0.0%	105	2,464	-95.7%
CRUDE OIL OUTRIGHTS	HTT	0	0	0.0%	419	0	0	89,900	90,500	-0.7%	0	0	0.0%	609	0	0.0%	812,627	697,020	16.6%
CRUDE OIL OUTRIGHTS	LSW	0	0	0.0%	0	0	0	0	90	-100.0%	0	0	0.0%	0	0	0.0%	4,347	10,372	-58.1%
CRUDE OIL OUTRIGHTS	WCW	0	0	0.0%	0	0	0	150	7,295	-97.9%	0	0	0.0%	0	0	0.0%	17,420	41,637	-58.2%
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	0.0%
CRUDE OIL PHY	HCL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	17,605	-100.0%	0	2,542	-100.0%
CRUDE OIL PHY	MCL	0	0	0.0%	2,239,156	2,015,644	0.11	0	0	0.0%	0	0	0.0%	28,241,937	6,654,042	324.4%	0	0	0.0%
CRUDE OIL SPRDS	38	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
CRUDE OIL SPRDS	ANT	0	0	0.0%	0	0	0	0	1,564	-100.0%	0	0	0.0%	0	0	0.0%	8,466	5,711	48.2%
CRUDE OIL SPRDS	HIL	0	0	0.0%	0	0	0	0	240	-100.0%	0	0	0.0%	0	0	0.0%	3,255	5,590	-41.8%
CRUDE OIL SPRDS	WTT	0	0	0.0%	144	0	0	61,271	41,441	47.9%	0	0	0.0%	179	0	0.0%	571,573	294,639	94.0%
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	0.0%

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<b>Energy Futures</b>																			
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%	
DAILY PJM	PNP	-	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%	
DATED TO FRONTLINE BRENT	FY	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	2,220	2,715	-18.2%	
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%	5	30	-83.3%	
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%	
DUBAI CRUDE OIL CALENDAR	DC	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	2,000	0	0.0%	
DUTCH TTF NATURAL GAS CAL	TTF	0	0	0.0%	0	1,368	0	344	-100.0%	0	0	0.0%	10,828	390,316	-97.2%	3,779	43,065	-91.2%	
EAST/WEST FUEL OIL SPREAD	EW	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	
EIA FLAT TAX ONHWAY DIESE	A5	0	0	0.0%	0	0	1,173	28	4,089.3%	0	0	0.0%	12	1	1,100.0%	1,999	4,366	-54.2%	
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%	
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	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%	
EMMISSIONS	CGO	0	-	-	3,391	-	0	-	-	0	-	-	22,428	-	-	0	-	-	
ETHANOL	MTH	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	10	10	0.0%	
ETHANOL SWAP	MT2	0	0	0.0%	0	0	155	315	-50.8%	0	0	0.0%	0	0	0.0%	2,120	2,128	-0.4%	
ETHANOL T2 FOB ROTT INCL D	Z1	0	0	0.0%	0	0	3,655	3,929	-7.0%	0	0	0.0%	0	0	0.0%	38,533	40,870	-5.7%	
EURO 3.5% FUEL OIL RDAM B	KR	0	0	0.0%	0	0	0	35	-100.0%	0	0	0.0%	0	0	0.0%	0	81	-100.0%	
EURO 3.5% FUEL OIL SPREAD	FK	-	0	0.0%	-	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%	
EURO GASOIL 10 CAL SWAP	GT	0	-	-	0	-	0	-	-	0	-	-	0	-	-	3	-	-	
EURO GASOIL 10PPM VS ICE	ET	0	0	0.0%	0	0	0	45	-100.0%	0	0	0.0%	0	0	0.0%	1,169	2,812	-58.4%	
EUROPE 1% FUEL OIL NWE CA	UF	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	84	-100.0%	

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EUROPE 1% FUEL OIL RDAM C	UH	-	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	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	13	-100.0%
EUROPE 3.5% FUEL OIL RDAM	UV	0	0	0.0%	0	0	0	1	99	-99.0%	0	0	0.0%	0	0	0.0%	560	541	3.5%
EUROPEAN GASOIL (ICE)	7F	0	0	0.0%	51	116	-0.56	78	255	-69.4%	0	0	0.0%	2,556	570	348.4%	11,036	7,783	41.8%
EUROPEAN NAPHTHA BALMO	KZ	0	0	0.0%	0	0	0	30	75	-60.0%	0	0	0.0%	0	0	0.0%	211	118	78.8%
EUROPEAN NAPHTHA CRACK SF	EN	0	0	0.0%	0	0	0	293	2,502	-88.3%	0	0	0.0%	0	0	0.0%	21,700	18,928	14.6%
EUROPE DATED BRENT SWAP	UB	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	710	-100.0%
EUROPE JET KERO NWE CALS	UJ	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	20	-100.0%
EUROPE NAPHTHA CALSWAP	UN	0	0	0.0%	0	0	0	823	681	20.9%	0	0	0.0%	0	0	0.0%	6,704	6,760	-0.8%
EURO PROPANE CIF ARA SWA	PS	0	0	0.0%	0	0	0	1,721	1,907	-9.8%	0	0	0.0%	0	0	0.0%	19,618	17,333	13.2%
FREIGHT MARKETS	ACB	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
FREIGHT MARKETS	BF1	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
FREIGHT MARKETS	BF2	0	0	0.0%	0	0	0	0	5	-100.0%	0	0	0.0%	0	0	0.0%	0	124	-100.0%
FREIGHT MARKETS	BF3	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
FREIGHT MARKETS	BL2	0	0	0.0%	0	0	0	132	50	164.0%	0	0	0.0%	0	0	0.0%	1,377	285	383.2%
FREIGHT MARKETS	CS3	0	-	-	0	-	0	0	-	-	0	-	0	-	-	0	10	-	-
FREIGHT MARKETS	CS4	0	-	-	0	-	0	120	-	-	0	-	0	-	-	0	480	-	-
FREIGHT MARKETS	FLJ	0	0	0.0%	0	0	0	0	5	-100.0%	0	0	0.0%	0	0	0.0%	0	97	-100.0%
FREIGHT MARKETS	FLP	0	0	0.0%	0	0	0	0	88	-100.0%	0	0	0.0%	0	0	0.0%	296	702	-57.8%
FREIGHT MARKETS	FRC	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	36	70	-48.6%
FREIGHT MARKETS	T2D	0	0	0.0%	0	0	0	57	0	0.0%	0	0	0.0%	0	0	0.0%	785	784	0.1%
FREIGHT MARKETS	T7C	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
FREIGHT MARKETS	T8C	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	10	-100.0%
FREIGHT MARKETS	TC6	0	0	0.0%	0	0	0	0	225	-100.0%	0	0	0.0%	0	0	0.0%	0	225	-100.0%
FREIGHT MARKETS	TD3	0	-	-	0	-	0	0	-	-	0	-	0	-	-	0	0	-	-
FREIGHT MARKETS	USC	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
FREIGHT MARKETS	USE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	90	-100.0%
FUEL OIL CRACK VS ICE	FO	0	0	0.0%	0	0	0	12	0	0.0%	0	0	0.0%	0	0	0.0%	1,204	2,203	-45.3%
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%	66	72	-8.3%
FUEL OIL (PLATS) CAR CM	1W	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
FUELOIL SWAP:CARGOES VS.B	FS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
GAS EURO-BOB OXY NWE BAR	7H	0	0	0.0%	0	0	0	147	358	-58.9%	0	0	0.0%	0	0	0.0%	2,129	7,235	-70.6%
GAS EURO-BOB OXY NWE BAR	7K	0	0	0.0%	0	0	0	1,249	7,478	-83.3%	0	0	0.0%	0	0	0.0%	26,012	59,763	-56.5%
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%	45	60	-25.0%

## NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator	Open Outcry NOV 2022	Open Outcry NOV 2021	% CHG	ELEC NOV 2022	ELEC NOV 2021	% CHG	CME ClearPort NOV 2022	CME ClearPort NOV 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG	CME ClearPort Y.T.D 2022	CME ClearPort Y.T.D 2021	% CHG
<b>Energy Futures</b>																		
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%	10	42	-76.2%
GASOIL 0.1 ROTTERDAM BARG	VL	0	0	0.0%	0	0	10	15	-33.3%	0	0	0.0%	0	0	0.0%	76	178	-57.3%
GASOIL 10PPM VS ICE SWAP	TP	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	12	0	0.0%
GASOIL CALENDAR SWAP	GX	0	0	0.0%	0	0	36	164	-78.0%	0	0	0.0%	0	0	0.0%	1,013	1,586	-36.1%
GASOIL CRACK SPREAD CALE	GZ	0	0	0.0%	0	0	12	4,683	-99.7%	0	0	0.0%	0	0	0.0%	10,971	20,494	-46.5%
GASOIL MINI CALENDAR SWAP	QA	0	0	0.0%	0	0	360	607	-40.7%	0	0	0.0%	0	0	0.0%	3,177	4,060	-21.7%
GERMAN POWER BASELOAD C	DEB	0	0	0.0%	0	6	0	0	0.0%	0	0	0.0%	0	142	-100.0%	0	102	-100.0%
GROUP THREE UNLEAD GAS (F	A9	-	0	0.0%	-	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
GRP THREE ULSD(PLT)VS HEA	A6	0	0	0.0%	0	0	3,035	3,460	-12.3%	0	0	0.0%	0	0	0.0%	49,238	47,395	3.9%
GRP THREE UNL GS (PLT) VS	A8	0	0	0.0%	0	0	1,625	2,740	-40.7%	0	0	0.0%	0	0	0.0%	32,487	29,034	11.9%
GULF COAST 3% FUEL OIL BA	VZ	0	0	0.0%	0	0	0	28	-100.0%	0	0	0.0%	0	0	0.0%	967	740	30.7%
GULF COAST JET FUEL CLNDR	GE	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
GULF COAST JET VS NYM 2 H	ME	0	0	0.0%	0	0	4,422	9,535	-53.6%	0	0	0.0%	0	0	0.0%	100,870	222,242	-54.6%
GULF COAST NO.6 FUEL OIL	MF	0	0	0.0%	0	0	4,566	545	737.8%	0	0	0.0%	0	0	0.0%	49,763	18,759	165.3%
GULF COAST NO.6 FUEL OIL	MG	0	0	0.0%	0	0	16,081	4,050	297.1%	0	0	0.0%	0	0	0.0%	94,358	28,788	227.8%
GULF COAST ULSD CALENDAR	LY	0	0	0.0%	0	0	1,203	68	1,669.1%	0	0	0.0%	0	0	0.0%	2,007	4,206	-52.3%
GULF COAST ULSD CRACK SP	GY	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
HEATING OIL BALMO CLNDR S	1G	0	0	0.0%	0	0	20	235	-91.5%	0	0	0.0%	0	0	0.0%	3,510	3,140	11.8%
HEATING OIL CRCK SPRD BAL	1H	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	127	2,450	-94.8%
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%
HEATING OIL PHY	MHO	0	-	-	36	-	0	-	-	0	-	-	102	-	-	0	-	-
HENRY HUB BASIS SWAP	HB	-	0	0.0%	-	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
HENRY HUB FINANCIAL LAST	NBP	-	0	0.0%	-	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	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%
HENRY HUB SWAP	NN	0	0	0.0%	382	0	14,290	14,775	-3.3%	0	0	0.0%	1,852	31	5,874.2%	293,386	342,385	-14.3%
HOUSTON SHIP CHANNEL BASI	NH	0	0	0.0%	0	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	220	1,140	-80.7%	0	0	0.0%	0	0	0.0%	2,413	6,744	-64.2%
ICE GASOIL BALMO SWAP	U9	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	46	-100.0%
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%
INDIANA MISO	PDD	-	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%
INDONESIAN COAL ICI4	ICI	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	1,124	-100.0%
JAPAN C&F NAPHTHA CRACK S	JB	0	0	0.0%	0	0	0	6	-100.0%	0	0	0.0%	0	0	0.0%	428	6	7,033.3%
JAPAN C&F NAPHTHA SWAP	JA	0	0	0.0%	0	0	47	46	2.2%	0	0	0.0%	0	0	0.0%	1,210	668	81.1%

## NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator	Open Outcry NOV 2022	Open Outcry NOV 2021	% CHG	ELEC NOV 2022	ELEC NOV 2021	% CHG	CME ClearPort NOV 2022	CME ClearPort NOV 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG	CME ClearPort Y.T.D 2022	CME ClearPort Y.T.D 2021	% CHG	
<b>Energy Futures</b>																			
JAPAN NAPHTHA BALMO SWAP	E6	0	0	0.0%	0	0	0	6	-100.0%	0	0	0.0%	0	0	0.0%	6	18	-66.7%	
JET CIF NWE VS ICE	JC	0	0	0.0%	0	0	0	386	-100.0%	0	0	0.0%	0	0	0.0%	1,525	1,750	-12.9%	
JET FUEL UP-DOWN BALMO CL	1M	0	0	0.0%	0	0	125	1,275	-90.2%	0	0	0.0%	0	0	0.0%	15,366	17,114	-10.2%	
JKM LNG Futures	JKM	0	0	0.0%	0	0	386	830	-53.5%	0	0	0.0%	0	0	0.0%	3,609	6,423	-43.8%	
LA CARB DIESEL (OPIS) SWA	KL	0	0	0.0%	0	0	43	35	22.9%	0	0	0.0%	0	0	0.0%	2,334	1,980	17.9%	
LA CARBOB GASOLINE(OPIS)S	JL	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	225	-100.0%	
LA JET (OPIS) SWAP	JS	0	0	0.0%	0	0	25	705	-96.5%	0	0	0.0%	0	0	0.0%	3,400	5,725	-40.6%	
LLS (ARGUS) CALENDAR SWAP	XA	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	
LLS (ARGUS) VS WTI SWAP	WJ	0	0	0.0%	0	0	0	336	-100.0%	0	0	0.0%	0	0	0.0%	93	2,786	-96.7%	
LOS ANGELES CARB GASOLIN	MH	-	0	0.0%	-	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%	
MARS (ARGUS) VS WTI SWAP	YX	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	1,685	1,750	-3.7%	
MARS (ARGUS) VS WTI TRD M	YV	0	0	0.0%	0	0	11,873	18,456	-35.7%	0	0	0.0%	0	0	0.0%	168,219	203,347	-17.3%	
MARS BLEND CRUDE OIL	MB	-	0	0.0%	-	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%	
MCCLOSKY ARA ARGS COAL	MTF	0	0	0.0%	590	729	-0.19	1,542	8,191	-81.2%	0	0	0.0%	6,849	22,011	-68.9%	48,933	124,771	-60.8%
MCCLOSKY RCH BAY COAL	MFF	0	0	0.0%	0	30	-1	15	1,512	-99.0%	0	0	0.0%	140	247	-43.3%	4,011	10,334	-61.2%
MGN1 SWAP FUT	MGN	0	0	0.0%	0	0	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%	-	0	0.0%	-	0	0.0%	-	0	0.0%	
MINI GAS EUROBOB OXY NWE	MEB	0	0	0.0%	0	0	0	68	-100.0%	0	0	0.0%	0	0	0.0%	263	193	36.3%	
MINI RBOB V. EBOBARG NWE B	MXR	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	50	391	-87.2%	
MINI RBOB V. EBOB(ARGUS) N	MXB	0	0	0.0%	0	0	310	319	-2.8%	0	0	0.0%	0	0	0.0%	3,364	6,138	-45.2%	
MJC FUT	MJC	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	50	-100.0%	
MNC FUT	MNC	0	0	0.0%	0	0	1,658	1,964	-15.6%	0	0	0.0%	0	0	0.0%	18,555	10,318	79.8%	
MONT BELVIEU ETHANE 5 DECI	C0	0	0	0.0%	0	18	-1	37,839	29,407	28.7%	0	0	0.0%	310	343	-9.6%	400,113	321,335	24.5%
MONT BELVIEU ETHANE OPIS E	8C	0	0	0.0%	0	0	0	1,176	1,450	-18.9%	0	0	0.0%	0	0	0.0%	10,077	9,848	2.3%
MONT BELVIEU LDH PROPANE	B0	0	0	0.0%	102	6	16	199,477	195,623	2.0%	0	0	0.0%	629	500	25.8%	1,897,858	2,080,579	-8.8%
MONT BELVIEU LDH PROPANE	8O	0	0	0.0%	0	0	0	2,379	1,957	21.6%	0	0	0.0%	0	0	0.0%	29,449	33,830	-13.0%
MONT BELVIEU NATURAL GAS	7Q	0	0	0.0%	53	0	0	20,138	17,526	14.9%	0	0	0.0%	274	0	0.0%	266,770	163,373	63.3%
MONT BELVIEU NATURAL GAS	R0	0	0	0.0%	0	0	0	2,393	207	1,056.0%	0	0	0.0%	0	0	0.0%	18,781	6,672	181.5%
MONT BELVIEU NORMAL BUTA	D0	0	0	0.0%	0	0	0	60,424	55,203	9.5%	0	0	0.0%	0	40	-100.0%	605,894	608,298	-0.4%
MONT BELVIEU NORMAL BUTA	8J	0	0	0.0%	0	0	0	1,577	1,183	33.3%	0	0	0.0%	0	0	0.0%	16,734	13,999	19.5%
NATURAL GAS	NWM	0	-	-	0	-	0	-	-	0	-	-	0	-	-	305	-	-	
NATURAL GAS PEN SWP	NP	0	0	0.0%	4	0	0	27,150	41,693	-34.9%	0	0	0.0%	4	133	-97.0%	478,554	584,294	-18.1%
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	0	0.0%	
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	0	0.0%	



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<b>Energy Futures</b>																			
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%
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%
NEW ENGLAND HUB PEAK DAIL	CE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
NEW YORK ETHANOL SWAP	EZ	0	0	0.0%	0	0	0	490	245	100.0%	0	0	0.0%	0	0	0.0%	9,482	1,815	422.4%
NEW YORK HUB ZONE G PEAK	GN	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
NEW YORK HUB ZONE J PEAK	JN	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
NGPL MID-CONTINENT	NL	-	0	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	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	0.0%
NO 2 UP-DOWN SPREAD CALE	UT	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
NORTHWEST ROCKIES BASIS \$	NR	-	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	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
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	0.0%
NY HARBOR HEAT OIL SWP	MP	0	0	0.0%	0	11	-1	3,327	2,521	32.0%	0	0	0.0%	72	35	105.7%	15,744	12,601	24.9%
NY HARBOR LOW SULPUR GAS	NLS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	1,570	-100.0%
NY HARBOR RESIDUAL FUEL 1	MM	0	0	0.0%	0	0	0	75	200	-62.5%	0	0	0.0%	0	0	0.0%	1,425	2,424	-41.2%
NYH NO 2 CRACK SPREAD CAL	HK	0	0	0.0%	0	0	0	105	562	-81.3%	0	0	0.0%	0	0	0.0%	17,055	17,045	0.1%
NYISO CAPACITY	LHV	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
NYISO CAPACITY	NRS	-	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%
NYISO ZONE G 5MW D AH O P	D2	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 G 5MW D AH PK	T3	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 O P	D4	-	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%
NYMEX ALUMINUM FUTURES	AN	-	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%
NY ULSD (ARGUS) VS HEATING	7Y	0	0	0.0%	0	0	0	998	0	0.0%	0	0	0.0%	0	0	0.0%	6,410	650	886.2%
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	0	0.0%
PERMIAN BASIS SWAP	PM	-	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	142	292	-51.4%	0	0	0.0%	0	0	0.0%	1,532	1,995	-23.2%
PETROCHEMICALS	32	0	0	0.0%	0	0	0	98	73	34.2%	0	0	0.0%	0	0	0.0%	523	690	-24.2%
PETROCHEMICALS	3NA	0	0	0.0%	0	0	0	2	13	-84.6%	0	0	0.0%	0	0	0.0%	269	162	66.0%
PETROCHEMICALS	51	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	15	0	0.0%
PETROCHEMICALS	81	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	424	147	188.4%

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 NOV 2022	Open Outcry NOV 2021	% CHG	ELEC NOV 2022	ELEC NOV 2021	% CHG	CME ClearPort NOV 2022	CME ClearPort NOV 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG	CME ClearPort Y.T.D 2022	CME ClearPort Y.T.D 2021	% CHG
<b>Energy Futures</b>																		
PETROCHEMICALS	81	0	0.0%	0	0	0	200	574	-65.2%	0	0	0.0%	0	0	0.0%	9,539	12,509	-23.7%
PETROCHEMICALS	91	0	0.0%	0	0	0	680	510	33.3%	0	0	0.0%	0	0	0.0%	3,891	4,454	-12.6%
PETROCHEMICALS	MAA	0	0.0%	0	0	0	30	50	-40.0%	0	0	0.0%	0	0	0.0%	490	475	3.2%
PETROCHEMICALS	MAE	0	0.0%	0	0	0	1,522	1,405	8.3%	0	0	0.0%	0	0	0.0%	13,104	10,665	22.9%
PETROCHEMICALS	MAS	0	0.0%	0	0	0	460	557	-17.4%	0	0	0.0%	0	0	0.0%	4,030	4,212	-4.3%
PETROCHEMICALS	MBE	0	0.0%	0	0	0	50	60	-16.7%	0	0	0.0%	0	0	0.0%	760	710	7.0%
PETROCHEMICALS	MNB	0	0.0%	0	0	0	0	16	-100.0%	0	0	0.0%	0	0	0.0%	15	2,055	-99.3%
PETROCHEMICALS	MPS	0	0.0%	0	0	0	618	606	2.0%	0	0	0.0%	0	0	0.0%	3,244	4,343	-25.3%
PETROCHEMICALS	PMF	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	14	9	55.6%
PETRO CRCKS & SPRDS ASIA	STR	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	STS	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	CRB	0	0.0%	0	0	0	9,830	12,040	-18.4%	0	0	0.0%	0	0	0.0%	174,119	222,366	-21.7%
PETRO CRCKS & SPRDS NA	EXR	0	0.0%	0	0	0	172	694	-75.2%	0	0	0.0%	0	0	0.0%	2,853	6,979	-59.1%
PETRO CRCKS & SPRDS NA	FOC	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	GBB	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	700	655	6.9%
PETRO CRCKS & SPRDS NA	GCC	-	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
PETRO CRCKS & SPRDS NA	GCI	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	150	370	-59.5%
PETRO CRCKS & SPRDS NA	GCM	-	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
PETRO CRCKS & SPRDS NA	GCU	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	275	880	-68.8%
PETRO CRCKS & SPRDS NA	GFC	0	0.0%	0	0	0	0	14	-100.0%	0	0	0.0%	0	0	0.0%	1,350	474	184.8%
PETRO CRCKS & SPRDS NA	HOB	0	0.0%	0	0	0	0	1,430	-100.0%	0	0	0.0%	0	0	0.0%	577	5,310	-89.1%
PETRO CRCKS & SPRDS NA	MFR	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	145	-100.0%
PETRO CRCKS & SPRDS NA	NYF	-	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	25	967	-97.4%	0	0	0.0%	0	0	0.0%	6,651	16,081	-58.6%
PETRO CRCKS & SPRDS NA	RVG	0	0.0%	0	0	0	861	225	282.7%	0	0	0.0%	0	0	0.0%	20,396	11,595	75.9%
PETRO CRCKS & SPRDS NA	SF3	-	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
PETRO CRK&SPRD EURO	1NB	0	0.0%	0	0	0	378	50	656.0%	0	0	0.0%	0	0	0.0%	2,499	433	477.1%
PETRO CRK&SPRD EURO	43	0	0.0%	0	0	0	0	5	-100.0%	0	0	0.0%	0	0	0.0%	121	26	365.4%
PETRO CRK&SPRD EURO	BOB	0	0.0%	0	0	0	0	294	-100.0%	0	0	0.0%	0	0	0.0%	605	1,474	-59.0%
PETRO CRK&SPRD EURO	EOB	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	5	-100.0%
PETRO CRK&SPRD EURO	EPN	0	0.0%	0	0	0	348	885	-60.7%	0	0	0.0%	0	0	0.0%	4,313	6,026	-28.4%
PETRO CRK&SPRD EURO	EVC	0	0.0%	0	0	0	40	20	100.0%	0	0	0.0%	0	0	0.0%	867	856	1.3%
PETRO CRK&SPRD EURO	FVB	-	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
PETRO CRK&SPRD EURO	GCB	-	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%

## NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator		Open Outcry NOV 2022	Open Outcry NOV 2021	% CHG	ELEC NOV 2022	ELEC NOV 2021	% CHG	CME ClearPort NOV 2022	CME ClearPort NOV 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG	CME ClearPort Y.T.D 2022	CME ClearPort Y.T.D 2021	% CHG
<b>Energy Futures</b>																			
PETRO CRK&SPRD EURO	GOC	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	9	0	0.0%
PETRO CRK&SPRD EURO	MGB	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	70	-100.0%
PETRO CRK&SPRD EURO	MUD	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
PETRO CRK&SPRD EURO	NBB	0	0	0.0%	0	0	0	0	9	-100.0%	0	0	0.0%	0	0	0.0%	0	9	-100.0%
PETRO CRK&SPRD EURO	NOB	0	0	0.0%	0	0	0	17	68	-75.0%	0	0	0.0%	0	0	0.0%	934	551	69.5%
PETROLEUM PRODUCTS	1NM	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	50	717	-93.0%
PETROLEUM PRODUCTS	BEB	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	3	-100.0%
PETROLEUM PRODUCTS	BEF	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	2	3	-33.3%
PETROLEUM PRODUCTS	CMS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	1,590	730	117.8%
PETROLEUM PRODUCTS	EWG	0	0	0.0%	0	0	0	50	350	-85.7%	0	0	0.0%	0	0	0.0%	4,817	5,298	-9.1%
PETROLEUM PRODUCTS	H5F	0	0	0.0%	0	0	0	100	0	0.0%	0	0	0.0%	0	0	0.0%	885	60	1,375.0%
PETROLEUM PRODUCTS	JCC	0	0	0.0%	0	0	0	50	450	-88.9%	0	0	0.0%	0	50	-100.0%	13,566	2,550	432.0%
PETROLEUM PRODUCTS	MME	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
PETROLEUM PRODUCTS	MPE	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	14	-100.0%
PETROLEUM PRODUCTS	NCC	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
PETROLEUM PRODUCTS	R5E	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	5	-100.0%
PETROLEUM PRODUCTS	R5F	0	0	0.0%	0	0	0	17	98	-82.7%	0	0	0.0%	0	0	0.0%	473	540	-12.4%
PETROLEUM PRODUCTS	S53	0	0	0.0%	0	0	0	0	12	-100.0%	0	0	0.0%	0	0	0.0%	0	12	-100.0%
PETROLEUM PRODUCTS	UCS	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
PETROLEUM PRODUCTS	UP5	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
PETROLEUM PRODUCTS	VU	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	1,148	341	236.7%
PETROLEUM PRODUCTS ASIA	E6M	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	50	10	400.0%
PETROLEUM PRODUCTS ASIA	MJN	0	0	0.0%	0	0	0	240	280	-14.3%	0	0	0.0%	0	0	0.0%	7,416	2,894	156.3%
PETRO OUTRIGHT EURO	0B	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	223	-100.0%
PETRO OUTRIGHT EURO	0C	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	75	-100.0%
PETRO OUTRIGHT EURO	0D	0	0	0.0%	0	0	0	60	64	-6.3%	0	0	0.0%	0	0	0.0%	355	940	-62.2%
PETRO OUTRIGHT EURO	0E	0	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	0F	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	9	9	0.0%
PETRO OUTRIGHT EURO	1T	0	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	5L	0	0	0.0%	0	0	0	20	0	0.0%	0	0	0.0%	0	0	0.0%	30	0	0.0%
PETRO OUTRIGHT EURO	63	-	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	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	285	50	470.0%
PETRO OUTRIGHT EURO	7R	0	0	0.0%	0	0	0	0	17	-100.0%	0	0	0.0%	0	0	0.0%	46	79	-41.8%
PETRO OUTRIGHT EURO	CBB	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	33	-100.0%

## NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator	Open Outcry NOV 2022	Open Outcry NOV 2021	% CHG	ELEC NOV 2022	ELEC NOV 2021	% CHG	CME ClearPort NOV 2022	CME ClearPort NOV 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG	CME ClearPort Y.T.D 2022	CME ClearPort Y.T.D 2021	% CHG
<b>Energy Futures</b>																		
PETRO OUTRIGHT EURO	CGB	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	30	0	0.0%
PETRO OUTRIGHT EURO	CPB	0	0	0.0%	0	0	80	130	-38.5%	0	0	0.0%	0	0	0.0%	1,766	3,612	-51.1%
PETRO OUTRIGHT EURO	EFF	-	0	0.0%	-	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
PETRO OUTRIGHT EURO	EFM	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	12	-100.0%
PETRO OUTRIGHT EURO	ENS	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	EWN	0	0	0.0%	0	0	405	88	360.2%	0	0	0.0%	0	0	0.0%	2,170	2,095	3.6%
PETRO OUTRIGHT EURO	FLB	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	5	-100.0%
PETRO OUTRIGHT EURO	GNO	-	0	0.0%	-	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
PETRO OUTRIGHT EURO	H5G	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	JFB	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	10	-100.0%
PETRO OUTRIGHT EURO	M1B	0	0	0.0%	0	0	574	707	-18.8%	0	0	0.0%	0	0	0.0%	11,589	13,399	-13.5%
PETRO OUTRIGHT EURO	MBB	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	240	-100.0%
PETRO OUTRIGHT EURO	MBN	0	0	0.0%	0	0	390	210	85.7%	0	0	0.0%	0	0	0.0%	6,411	3,760	70.5%
PETRO OUTRIGHT EURO	MEF	0	0	0.0%	0	0	20	18	11.1%	0	0	0.0%	0	0	0.0%	114	2,355	-95.2%
PETRO OUTRIGHT EURO	MQA	0	0	0.0%	0	0	30	3	900.0%	0	0	0.0%	0	0	0.0%	218	68	220.6%
PETRO OUTRIGHT EURO	R53	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	127	-100.0%
PETRO OUTRIGHT EURO	R5B	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	56	-100.0%
PETRO OUTRIGHT EURO	R5M	0	0	0.0%	0	0	1,305	2,163	-39.7%	0	0	0.0%	0	0	0.0%	19,022	13,903	36.8%
PETRO OUTRIGHT EURO	R5O	0	0	0.0%	0	0	472	1,134	-58.4%	0	0	0.0%	0	0	0.0%	10,096	8,150	23.9%
PETRO OUTRIGHT EURO	RBM	0	0	0.0%	0	0	10	0	0.0%	0	0	0.0%	0	0	0.0%	122	34	258.8%
PETRO OUTRIGHT EURO	S5B	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	5	5	0.0%
PETRO OUTRIGHT EURO	S5F	0	0	0.0%	0	0	110	106	3.8%	0	0	0.0%	0	0	0.0%	1,260	1,186	6.2%
PETRO OUTRIGHT EURO	S5M	0	0	0.0%	0	0	2,096	2,013	4.1%	0	0	0.0%	0	0	0.0%	23,810	19,430	22.5%
PETRO OUTRIGHT EURO	S5O	0	0	0.0%	0	0	1,062	3,004	-64.6%	0	0	0.0%	0	0	0.0%	27,043	14,147	91.2%
PETRO OUTRIGHT EURO	SMU	0	0	0.0%	0	0	0	50	-100.0%	0	0	0.0%	0	0	0.0%	0	1,450	-100.0%
PETRO OUTRIGHT EURO	SR5	0	-	-	0	-	12	-	-	0	-	-	0	-	-	132	-	-
PETRO OUTRIGHT EURO	T0	-	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	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
PETRO OUTRIGHT EURO	TLB	0	0	0.0%	0	0	0	33	-100.0%	0	0	0.0%	0	0	0.0%	0	58	-100.0%
PETRO OUTRIGHT EURO	ULB	0	0	0.0%	0	0	625	0	0.0%	0	0	0.0%	0	0	0.0%	625	0	0.0%
PETRO OUTRIGHT EURO	UNB	-	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	132	-100.0%	0	0	0.0%	0	0	0.0%	0	582	-100.0%
PETRO OUTRIGHT NA	A8B	0	0	0.0%	0	0	75	0	0.0%	0	0	0.0%	0	0	0.0%	2,380	1,090	118.3%
PETRO OUTRIGHT NA	AB6	0	0	0.0%	0	0	435	170	155.9%	0	0	0.0%	0	0	0.0%	3,880	2,100	84.8%

## NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator	Open Outcry NOV 2022	Open Outcry NOV 2021	% CHG	ELEC NOV 2022	ELEC NOV 2021	% CHG	CME ClearPort NOV 2022	CME ClearPort NOV 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG	CME ClearPort Y.T.D 2022	CME ClearPort Y.T.D 2021	% CHG	
<b>Energy Futures</b>																			
PETRO OUTRIGHT NA	BCR	0	0	0.0%	0	0	0	900	2,200	-59.1%	0	0	0.0%	0	0	0.0%	26,070	20,707	25.9%
PETRO OUTRIGHT NA	DBB	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
PETRO OUTRIGHT NA	FCB	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	32	-100.0%
PETRO OUTRIGHT NA	H5B	-	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%	60	275	-78.2%
PETRO OUTRIGHT NA	JET	0	0	0.0%	0	0	0	575	125	360.0%	0	0	0.0%	0	0	0.0%	6,360	4,150	53.3%
PETRO OUTRIGHT NA	JTB	0	0	0.0%	0	0	0	25	0	0.0%	0	0	0.0%	0	0	0.0%	2,161	665	225.0%
PETRO OUTRIGHT NA	MBL	0	0	0.0%	0	0	0	60	60	0.0%	0	0	0.0%	0	0	0.0%	920	731	25.9%
PETRO OUTRIGHT NA	MEN	0	0	0.0%	0	0	0	13	308	-95.8%	0	0	0.0%	0	0	0.0%	594	935	-36.5%
PETRO OUTRIGHT NA	MEO	0	0	0.0%	0	0	0	497	359	38.4%	0	0	0.0%	0	0	0.0%	3,108	4,928	-36.9%
PETRO OUTRIGHT NA	MFD	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	MMF	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	20	65	-69.2%
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%	0	0	0.0%
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%	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%
PJM DAYTON DA PEAK	D7	-	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	0	0.0%
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 PECO ZONE5MW PEAK CA	4N	-	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%
PJM PSEG DA PEAK	L6	-	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%
PJM WESTHDA PEAK	J4	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
PJM WESTH RT OFF-PEAK	N9	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 RT PEAK	L1	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
PLASTICS	PGP	0	0	0.0%	0	0	0	729	2,026	-64.0%	0	0	0.0%	0	0	0.0%	10,648	15,267	-30.3%
PREMIUM UNLD 10P FOB MED	3G	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	111	185	-40.0%
PROPANE NON-LDH MB (OPIS)	1S	0	0	0.0%	0	0	0	2,000	1,333	50.0%	0	0	0.0%	0	0	0.0%	18,530	14,899	24.4%
PROPANE NON-LDH MT. BEL (O	1R	0	0	0.0%	0	0	0	24,838	22,174	12.0%	0	0	0.0%	0	0	0.0%	152,674	181,670	-16.0%
RBOB CALENDAR SWAP	RL	0	0	0.0%	0	0	0	7,857	4,571	71.9%	0	0	0.0%	0	0	0.0%	60,164	73,411	-18.0%
RBOB CRACK SPREAD	RM	0	0	0.0%	0	0	0	300	575	-47.8%	0	0	0.0%	0	0	0.0%	15,212	21,699	-29.9%
RBOB CRACK SPREAD BALMO	1E	0	-	-	0	-	0	0	-	-	0	-	0	-	-	0.0%	127	-	-
RBOB GASOLINE BALMO CLND	1D	0	0	0.0%	0	0	0	9	833	-98.9%	0	0	0.0%	0	0	0.0%	12,525	8,835	41.8%

## NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator	Open Outcry NOV 2022	Open Outcry NOV 2021	% CHG	ELEC NOV 2022	ELEC NOV 2021	% CHG	CME ClearPort NOV 2022	CME ClearPort NOV 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG	CME ClearPort Y.T.D 2022	CME ClearPort Y.T.D 2021	% CHG
<b>Energy Futures</b>																		
RBOB PHY	MRB	0	-	-	30	-	0	-	-	0	-	-	89	-	-	0	-	-
RBOB PHY	RBL	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
RBOB VS HEATING OIL SWAP	RH	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	975	1,105	-11.8%
SAN JUAN BASIS SWAP	NJ	-	0	0.0%	-	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
SINGAPORE 180CST BALMO	BS	0	0	0.0%	0	0	0	1	0.0%	0	0	0.0%	0	0	0.0%	3	0	0.0%
SINGAPORE 380CST BALMO	BT	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	1	23	-95.7%
SINGAPORE 380CST FUEL OIL	SE	0	0	0.0%	0	0	0	20	-89.4%	0	0	0.0%	0	0	0.0%	1,323	2,023	-34.6%
SINGAPORE FUEL 180CST CAL	UA	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	3	0	0.0%
SINGAPORE FUEL OIL 180 CS	GMS	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	12	-100.0%
SINGAPORE FUEL OIL SPREAD	SD	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	102	0	0.0%
SINGAPORE GASOIL	MAF	0	0	0.0%	0	0	0	69	-80.3%	0	0	0.0%	0	0	0.0%	4,026	3,089	30.3%
SINGAPORE GASOIL	MTB	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	196	52	276.9%
SINGAPORE GASOIL	MTS	0	0	0.0%	0	0	0	277	-36.6%	0	0	0.0%	0	0	0.0%	3,645	4,091	-10.9%
SINGAPORE GASOIL	SBM	0	0	0.0%	0	0	0	60	-100.0%	0	0	0.0%	0	0	0.0%	332	178	86.5%
SINGAPORE GASOIL CALENDAS	MSG	0	0	0.0%	0	0	0	26	-88.9%	0	0	0.0%	0	0	0.0%	1,272	8,346	-84.8%
SINGAPORE GASOIL SWAP	SG	0	0	0.0%	0	0	0	225	-100.0%	0	0	0.0%	0	0	0.0%	3,155	13,308	-76.3%
SINGAPORE GASOIL VS ICE	GA	0	0	0.0%	0	0	0	1,080	-100.0%	0	0	0.0%	0	0	0.0%	3,936	11,108	-64.6%
SINGAPORE JET KERO BALMO	BX	-	0	0.0%	-	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
SINGAPORE JET KERO GASOIL	RK	0	0	0.0%	0	0	0	1,758	-100.0%	0	0	0.0%	0	0	0.0%	3,725	3,748	-0.6%
SINGAPORE JET KEROSENE S	KS	0	0	0.0%	0	0	0	1,300	-100.0%	0	0	0.0%	0	0	0.0%	405	3,435	-88.2%
SINGAPORE MOGAS 92 UNLEA	1P	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	810	610	32.8%
SINGAPORE MOGAS 92 UNLEA	1N	0	0	0.0%	0	0	0	725	-100.0%	0	0	0.0%	0	0	0.0%	600	7,281	-91.8%
Sumas Basis Swap	NK	-	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	12	0.0%	0	0	0.0%	0	0	0.0%	450	300	50.0%
TC5 RAS TANURA TO YOKOHA	TH	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	243	620	-60.8%
TCO BASIS SWAP	TC	-	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	120	-85.8%	0	0	0.0%	0	0	0.0%	6,405	12,245	-47.7%
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%
TRANSCO ZONE4 BASIS SWAP	TR	-	0	0.0%	-	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
UK NBP NAT GAS CAL MTH FUT	UKG	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	2,535	-100.0%	0	0	0.0%
ULSD UP-DOWN BALMO SWP	1L	0	0	0.0%	0	0	0	4,510	-27.9%	0	0	0.0%	0	0	0.0%	65,989	55,049	19.9%
UP DOWN GC ULSD VS NMX H	LT	0	0	0.0%	0	0	0	20,476	-32.5%	0	0	0.0%	0	0	0.0%	284,703	378,058	-24.7%
WAHA BASIS	NW	-	0	0.0%	-	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
WTI-BRENT BULLET SWAP	BY	-	0	0.0%	-	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%

## NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator		Open Outcry NOV 2022	Open Outcry NOV 2021	% CHG	ELEC NOV 2022	ELEC NOV 2021	% CHG	CME ClearPort NOV 2022	CME ClearPort NOV 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG	CME ClearPort Y.T.D 2022	CME ClearPort Y.T.D 2021	% CHG
<b>Energy Futures</b>																			
WTI-BRENT CALENDAR SWAP	BK	0	0	0.0%	0	0	0	43,728	80,450	-45.6%	0	0	0.0%	0	0	0.0%	558,872	572,509	-2.4%
WTI CALENDAR	CS	0	0	0.0%	0	0	0	43,810	54,416	-19.5%	0	0	0.0%	0	0	0.0%	668,310	575,720	16.1%
WTI MIDLAND CRUDE OIL	WTL	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	900	2,655	-66.1%
WTS (ARGUS) VS WTI SWAP	FF	0	0	0.0%	0	0	0	216	0	0.0%	0	0	0.0%	0	0	0.0%	27,838	38,356	-27.4%
WTS (ARGUS) VS WTI TRD MT	FH	0	0	0.0%	0	0	0	0	300	-100.0%	0	0	0.0%	0	0	0.0%	7,035	6,375	10.4%
<b>Energy Options</b>																			
BRENT CALENDAR SWAP	BA	0	0	0.0%	0	0	0	0	45	-100.0%	0	0	0.0%	0	0	0.0%	3,272	3,106	5.3%
BRENT CRUDE OIL 1 M CSO	9C	0	0	0.0%	0	0	0	35,250	0	0.0%	0	0	0.0%	0	0	0.0%	166,500	198,050	-15.9%
BRENT OIL LAST DAY	BE	0	0	0.0%	0	0	0	19,750	7,649	158.2%	0	0	0.0%	0	0	0.0%	129,287	231,991	-44.3%
BRENT OIL LAST DAY	BZO	0	0	0.0%	4,802	2,087	1.3	4,350	48,095	-91.0%	0	0	0.0%	35,379	33,397	5.9%	151,862	257,475	-41.0%
BRENT OIL LAST DAY	OS	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
COAL API2 INDEX	F2C	0	0	0.0%	0	0	0	20	190	-89.5%	0	0	0.0%	0	0	0.0%	410	1,580	-74.1%
COAL API2 INDEX	F2Q	0	0	0.0%	0	0	0	0	50	-100.0%	0	0	0.0%	0	0	0.0%	100	1,110	-91.0%
CRUDE OIL	6Y	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 1MO	WA	0	0	0.0%	3,675	3,300	0.11	53,750	55,610	-3.3%	0	0	0.0%	36,333	45,480	-20.1%	600,245	1,194,470	-49.7%
CRUDE OIL APO	AO	0	0	0.0%	0	0	0	9,004	16,172	-44.3%	0	0	0.0%	0	0	0.0%	217,958	335,170	-35.0%
CRUDE OIL CALNDR STRIP	6F	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	ECCL	0	-	-	7,184	-	-	0	-	-	0	-	-	12,785	-	-	0	-	-
CRUDE OIL PHY	CD	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
CRUDE OIL PHY	LC	0	0	0.0%	0	0	0	18,730	21,909	-14.5%	0	0	0.0%	0	1,400	-100.0%	374,191	140,095	167.1%
CRUDE OIL PHY	LO	0	0	0.0%	1,743,734	2,821,371	-0.38	998,459	545,210	83.1%	0	0	0.0%	20,692,827	21,835,154	-5.2%	6,530,150	5,757,041	13.4%
CRUDE OIL PHY	LO1	0	0	0.0%	54,754	52,514	0.04	800	1,200	-33.3%	0	0	0.0%	364,511	237,393	53.5%	9,475	2,225	325.8%
CRUDE OIL PHY	LO2	0	0	0.0%	41,632	28,941	0.44	250	0	0.0%	0	0	0.0%	282,115	190,582	48.0%	3,275	4,350	-24.7%
CRUDE OIL PHY	LO3	0	0	0.0%	22,223	28,733	-0.23	0	0	0.0%	0	0	0.0%	194,096	149,765	29.6%	950	1,050	-9.5%
CRUDE OIL PHY	LO4	0	0	0.0%	48,547	40,349	0.2	0	0	0.0%	0	0	0.0%	371,938	257,489	44.4%	8,330	2,650	214.3%
CRUDE OIL PHY	LO5	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	73,119	79,307	-7.8%	2,950	0	0.0%
CRUDE OIL PHY	MCO	0	-	-	16,247	-	-	0	-	-	0	-	-	55,328	-	-	0	-	-
CRUDE OIL PHY	MW1	0	-	-	2,161	-	-	0	-	-	0	-	-	7,531	-	-	0	-	-
CRUDE OIL PHY	MW2	0	-	-	2,540	-	-	0	-	-	0	-	-	8,801	-	-	0	-	-
CRUDE OIL PHY	MW3	0	-	-	1,178	-	-	0	-	-	0	-	-	4,568	-	-	0	-	-
CRUDE OIL PHY	MW4	0	-	-	3,137	-	-	0	-	-	0	-	-	10,609	-	-	0	-	-

## NYMEX/COMEX Exchange Volume Comparison Report - Monthly

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<b>Energy Options</b>																			
CRUDE OIL PHY	MW5	0	-	0	-		0	-	-	0	-	-	3,293	-	-	0	-	-	
ELEC FINSETTLED	PJN	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	1,911	6,173	-69.0%	0	0	0.0%	0	0	0.0%	30,680	36,500	-15.9%	
ETHANOL SWAP	GVR	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	
FREIGHT MARKETS	FLO	0	-	0	-		0	-	-	0	-	-	0	-	-	30	-	-	
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%	750	1,980	-62.1%	
HEATING OIL PHY	FZ	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	2,225	-100.0%	
HEATING OIL PHY	LB	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	382	1,911	-80.0%	
HEATING OIL PHY	OH	0	0.0%	2,438	4,002	-0.39	11,881	8,070	47.2%	0	0	0.0%	24,977	24,414	2.3%	98,978	67,273	47.1%	
HENRY HUB FINANCIAL LAST	E7	0	0.0%	0	0	0	6,451	5,312	21.4%	0	0	0.0%	106	40	165.0%	52,708	88,009	-40.1%	
HENRY HUB FINANCIAL LAST	ECNG	0	-	4,308	-		0	-	-	0	-	-	10,358	-	-	0	-	-	
HO 1 MONTH CLNDR OPTIONS	FA	0	0.0%	0	0	0	1,500	0	0.0%	0	0	0.0%	0	0	0.0%	7,975	200	3,887.5%	
LLS CRUDE OIL	HTO	0	-	0	-		0	-	-	0	-	-	0	-	-	1,200	-	-	
LLS CRUDE OIL	WTO	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	4,500	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	540	-100.0%	
MCCLOSKY RCH BAY COAL	MFO	-	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%	
NATURAL GAS	LN1	0	-	0	-		150	-	-	0	-	-	697	-	-	150	-	-	
NATURAL GAS	LN2	0	-	0	-		0	-	-	0	-	-	1,452	-	-	50	-	-	
NATURAL GAS	LN3	0	-	0	-		0	-	-	0	-	-	1,072	-	-	0	-	-	
NATURAL GAS	LN4	0	-	0	-		0	-	-	0	-	-	1,517	-	-	0	-	-	
NATURAL GAS	LN5	0	-	0	-		0	-	-	0	-	-	5	-	-	0	-	-	
NATURAL GAS 1 M CSO FIN	G4	0	0.0%	2,550	2,300	0.11	74,800	73,920	1.2%	0	0	0.0%	8,800	13,034	-32.5%	966,221	633,994	52.4%	
NATURAL GAS 2 M CSO FIN	G2	0	0.0%	0	0	0	0	8,150	-100.0%	0	0	0.0%	0	0	0.0%	14,100	30,250	-53.4%	
NATURAL GAS 3 M CSO FIN	G3	0	0.0%	0	0	0	3,250	0	0.0%	0	0	0.0%	800	200	300.0%	353,740	247,794	42.8%	
NATURAL GAS 5 M CSO FIN	G5	0	0.0%	0	0	0	2,000	5,250	-61.9%	0	0	0.0%	0	0	0.0%	48,250	18,650	158.7%	
NATURAL GAS 6 M CSO FIN	G6	0	0.0%	0	400	-1	12,375	6,650	86.1%	0	0	0.0%	0	400	-100.0%	103,275	114,550	-9.8%	
NATURAL GAS OPT	JFO	0	-	0	-		0	-	-	0	-	-	0	-	-	450	-	-	
NATURAL GAS OPT	JKO	0	0.0%	0	0	0	850	2,500	-66.0%	0	0	0.0%	0	0	0.0%	6,450	21,560	-70.1%	
NATURAL GAS OPT	TFO	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	700	153,770	-99.5%	
NATURAL GAS OPTION ON CAL	6J	0	0.0%	0	0	0	0	2,100	-100.0%	0	0	0.0%	0	0	0.0%	600	63,320	-99.1%	
NATURAL GAS PHY	KD	0	0.0%	0	0	0	400	285	40.4%	0	0	0.0%	0	0	0.0%	15,030	20,735	-27.5%	
NATURAL GAS PHY	LN	0	0.0%	806,713	649,497	0.24	1,070,717	685,385	56.2%	0	0	0.0%	9,948,766	12,373,871	-19.6%	11,900,562	10,075,019	18.1%	
NATURAL GAS PHY	ON	0	0.0%	60,531	71,957	-0.16	3,656	8,195	-55.4%	0	0	0.0%	843,699	894,459	-5.7%	64,296	70,749	-9.1%	
NATURAL GAS SUMMER STRIP	4D	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	

## NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator	Open Outcry NOV 2022	Open Outcry NOV 2021	% CHG	ELEC NOV 2022	ELEC NOV 2021	% CHG	CME ClearPort NOV 2022	CME ClearPort NOV 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG	CME ClearPort Y.T.D 2022	CME ClearPort Y.T.D 2021	% CHG	
<b>Energy Options</b>																			
NATURAL GAS WINTER STRIP	6I	-	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	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
NY HARBOR HEAT OIL SWP	AT	0	0	0.0%	1,187	17	68.82	1,356	2,325	-41.7%	0	0	0.0%	3,068	672	356.5%	19,420	11,333	71.4%
PETROCHEMICALS	4H	0	0	0.0%	0	0	0	0	390	-100.0%	0	0	0.0%	12	75	-84.0%	3,302	9,827	-66.4%
PETROCHEMICALS	4J	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	1,315	-100.0%
PETROCHEMICALS	4K	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	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	180	-100.0%
PETRO OUTRIGHT EURO	BCO	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	1N5	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
PETRO OUTRIGHT NA	DAP	0	0	0.0%	0	0	0	0	120	-100.0%	0	0	0.0%	0	0	0.0%	375	1,410	-73.4%
PJM WES HUB PEAK CAL MTH	6OA	0	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 LMP 50MW	PMA	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
RBOB 1MO CAL SPD OPTIONS	ZA	0	-	-	0	-	-	250	-	-	0	-	-	0	-	-	3,600	-	-
RBOB CALENDAR SWAP	RA	0	0	0.0%	0	0	0	20	0	0.0%	0	0	0.0%	0	0	0.0%	3,605	1,274	183.0%
RBOB PHY	OB	0	0	0.0%	209	2,307	-0.91	1,905	4,135	-53.9%	0	0	0.0%	9,343	23,154	-59.6%	32,155	58,959	-45.5%
RBOB PHY	RF	0	0	0.0%	0	0	0	30	0	0.0%	0	0	0.0%	0	0	0.0%	1,540	480	220.8%
SAN JUAN PIPE SWAP	PJ	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
SHORT TERM	U11	0	0	0.0%	0	0	0	100	0	0.0%	0	0	0.0%	0	0	0.0%	400	50	700.0%
SHORT TERM	U12	0	0	0.0%	0	0	0	0	50	-100.0%	0	0	0.0%	0	0	0.0%	550	150	266.7%
SHORT TERM	U13	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	100	200	-50.0%
SHORT TERM	U14	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	500	300	66.7%
SHORT TERM	U15	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	50	350	-85.7%
SHORT TERM	U22	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	350	0	0.0%
SHORT TERM	U23	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
SHORT TERM	U24	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	100	100	0.0%
SHORT TERM	U25	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	400	300	33.3%
SHORT TERM	U26	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	200	75	166.7%
SHORT TERM NATURAL GAS	U01	0	0	0.0%	0	0	0	0	50	-100.0%	0	0	0.0%	0	0	0.0%	250	275	-9.1%
SHORT TERM NATURAL GAS	U02	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	650	-100.0%
SHORT TERM NATURAL GAS	U03	0	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	U04	0	0	0.0%	0	0	0	0	200	-100.0%	0	0	0.0%	0	0	0.0%	950	550	72.7%
SHORT TERM NATURAL GAS	U05	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	500	200	150.0%
SHORT TERM NATURAL GAS	U06	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	550	800	-31.3%
SHORT TERM NATURAL GAS	U07	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	925	325	184.6%

### NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator	Open Outcry NOV 2022	Open Outcry NOV 2021	% CHG	ELEC NOV 2022	ELEC NOV 2021	% CHG	CME ClearPort NOV 2022	CME ClearPort NOV 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG	CME ClearPort Y.T.D 2022	CME ClearPort Y.T.D 2021	% CHG
<b>Energy Options</b>																		
SHORT TERM NATURAL GAS U08	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	200	50	300.0%
SHORT TERM NATURAL GAS U09	0	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 U10	0	0	0.0%	0	0	0	500	0	0.0%	0	0	0.0%	0	0	0.0%	700	100	600.0%
SHORT TERM NATURAL GAS U16	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	75	-100.0%
SHORT TERM NATURAL GAS U17	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	150	-100.0%
SHORT TERM NATURAL GAS U18	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	350	100	250.0%
SHORT TERM NATURAL GAS U19	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	600	0	0.0%
SHORT TERM NATURAL GAS U20	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	250	300	-16.7%
SHORT TERM NATURAL GAS U21	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	950	300	216.7%
SHORT TERM NATURAL GAS U27	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	50	-100.0%
SHORT TERM NATURAL GAS U28	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	350	100	250.0%
SHORT TERM NATURAL GAS U29	0	0	0.0%	0	0	0	150	0	0.0%	0	0	0.0%	0	0	0.0%	150	50	200.0%
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	250	-60.0%
SHORT TERM NATURAL GAS U31	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	200	0	0.0%
WTI-BRENT BULLET SWAP BV	0	0	0.0%	550	100	4.5	11,850	54,325	-78.2%	0	0	0.0%	10,570	10,100	4.7%	365,425	325,825	12.2%
WTI CRUDE OIL 1 M CSO FI 7A	0	0	0.0%	0	685	-1	74,350	39,400	88.7%	0	0	0.0%	571	2,075	-72.5%	629,779	744,710	-15.4%

## NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator	Open Outcry NOV 2022	Open Outcry NOV 2021	% CHG	ELEC NOV 2022	ELEC NOV 2021	% CHG	CME ClearPort NOV 2022	CME ClearPort NOV 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG	CME ClearPort Y.T.D 2022	CME ClearPort Y.T.D 2021	% CHG	
<b>Metals Futures</b>																			
COMEX GOLD	GC	0	0	0.0%	5,319,217	5,969,316	-0.11	99,968	161,274	-38.0%	0	0	0.0%	49,842,644	54,261,663	-8.1%	1,164,217	1,129,723	3.1%
NYMEX HOT ROLLED STEEL	HR	0	0	0.0%	6,510	2,182	1.98	12,046	15,594	-22.8%	0	0	0.0%	57,759	44,468	29.9%	183,257	182,588	0.4%
NYMEX PLATINUM	PL	0	0	0.0%	415,479	354,641	0.17	18,108	9,751	85.7%	0	0	0.0%	4,515,771	3,904,945	15.6%	119,412	100,489	18.8%
PALLADIUM	PA	0	0	0.0%	76,956	81,913	-0.06	875	2,887	-69.7%	0	0	0.0%	511,424	539,833	-5.3%	16,694	27,376	-39.0%
URANIUM	UX	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	24	543	-95.6%	0	640	-100.0%
COMEX SILVER	SI	0	0	0.0%	1,807,437	1,850,135	-0.02	41,585	30,683	35.5%	0	0	0.0%	15,673,215	18,338,970	-14.5%	279,736	322,417	-13.2%
COMEX E-Mini GOLD	QO	0	0	0.0%	48,013	26,937	0.78	0	0	0.0%	0	0	0.0%	368,046	253,486	45.2%	0	0	0.0%
COMEX E-Mini SILVER	QI	0	0	0.0%	4,568	5,279	-0.13	0	0	0.0%	0	0	0.0%	42,932	64,421	-33.4%	0	0	0.0%
COMEX COPPER	HG	0	0	0.0%	2,471,319	1,966,288	0.26	27,288	11,553	136.2%	0	0	0.0%	20,053,074	23,211,431	-13.6%	200,004	210,804	-5.1%
COMEX MINY COPPER	QC	0	0	0.0%	4,581	8,864	-0.48	0	0	0.0%	0	0	0.0%	39,534	55,837	-29.2%	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%	0	174	-100.0%
ALUMINUM	AEP	0	0	0.0%	0	0	0	3,687	3,923	-6.0%	0	0	0.0%	15	32	-53.1%	21,154	30,816	-31.4%
ALUMINUM	ALA	0	0	0.0%	0	0	0	45	60	-25.0%	0	0	0.0%	0	0	0.0%	1,970	3,705	-46.8%
ALUMINUM	ALI	0	0	0.0%	44,638	13,922	2.21	50	0	0.0%	0	0	0.0%	365,774	129,983	181.4%	109	20	445.0%
ALUMINUM	AUP	0	0	0.0%	189	334	-0.43	7,335	9,583	-23.5%	0	0	0.0%	3,076	5,653	-45.6%	75,667	67,771	11.7%
ALUMINUM	CUP	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
ALUMINUM	EDP	0	0	0.0%	0	0	0	4,292	6,218	-31.0%	0	0	0.0%	59	75	-21.3%	56,315	39,487	42.6%
ALUMINUM	MJP	0	0	0.0%	0	0	0	100	1,992	-95.0%	0	0	0.0%	0	0	0.0%	3,200	5,162	-38.0%
COBALT METAL FUTURES	COB	0	0	0.0%	0	0	0	2,987	273	994.1%	0	0	0.0%	15	12	25.0%	13,975	3,210	335.4%
COPPER	HGS	0	0	0.0%	0	0	0	1,633	1,337	22.1%	0	0	0.0%	0	0	0.0%	17,931	24,038	-25.4%
COPPER	MHG	0	-	-	91,994	-	0	-	-	-	0	-	-	509,134	-	-	0	-	-
FERROUS PRODUCTS	BUS	0	0	0.0%	338	174	0.94	4,186	1,069	291.6%	0	0	0.0%	4,287	7,280	-41.1%	26,296	8,788	199.2%
GOLD	4GC	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	116	-100.0%	0	0	0.0%
GOLD	SGC	0	0	0.0%	243	566	-0.57	0	0	0.0%	0	0	0.0%	7,886	17,463	-54.8%	0	0	0.0%
GOLD	SGU	0	0	0.0%	550	14,715	-0.96	0	0	0.0%	0	0	0.0%	52,897	72,758	-27.3%	542	0	0.0%
HOT ROLLED COIL STEEL FUTL	EHR	0	0	0.0%	1,486	422	2.52	3,616	1,320	173.9%	0	0	0.0%	9,408	2,075	353.4%	31,359	10,620	195.3%
IRON ORE 62 CHINA TSI FUTUR	TIO	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
IRON ORE CHINA	TIO	0	0	0.0%	0	0	0	752	1,630	-53.9%	0	0	0.0%	0	16	-100.0%	14,165	11,000	28.8%
METALS	HDG	0	0	0.0%	15	0	0	0	0	0.0%	0	0	0.0%	121	0	0.0%	546	143	281.8%
METALS	LTH	0	0	0.0%	0	0	0	91	0	0.0%	0	0	0.0%	0	0	0.0%	149	10	1,390.0%
METALS	PAC	0	-	-	0	-	0	-	-	-	0	-	-	0	-	-	1,300	-	-
MICRO GOLD	MGC	0	0	0.0%	1,020,946	1,271,788	-0.2	0	0	0.0%	0	0	0.0%	11,701,858	13,194,542	-11.3%	0	0	0.0%
SILVER	SIL	0	0	0.0%	199,205	131,283	0.52	0	0	0.0%	0	0	0.0%	1,819,846	2,101,191	-13.4%	0	0	0.0%

### NYMEX/COMEX Exchange Volume Comparison Report - Monthly

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<b>Metals Options</b>																			
ALUMINUM	ALO	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	2,250	-100.0%	
ALUMINUM	AX	0	-	-	282	-	200	-	-	0	-	-	737	-	-	500	-	-	
COMEX COPPER	HX	0	0	0.0%	85,087	33,179	41,084	12,743	222.4%	0	0	0.0%	681,730	451,680	50.9%	284,739	262,181	8.6%	
COMEX GOLD	ECGC	0	-	-	5,944	-	0	-	-	0	-	-	10,604	-	-	0	-	-	
COMEX GOLD	OG	0	0	0.0%	657,448	716,061	142,224	134,547	5.7%	0	0	0.0%	7,914,264	6,484,095	22.1%	1,349,925	1,371,120	-1.5%	
COMEX SILVER	ECSI	0	-	-	2,349	-	0	-	-	0	-	-	7,812	-	-	0	-	-	
COMEX SILVER	SO	0	0	0.0%	161,260	104,964	17,178	13,405	28.1%	0	0	0.0%	1,186,764	1,471,653	-19.4%	121,775	206,768	-41.1%	
COPPER	ECHG	0	-	-	1,811	-	0	-	-	0	-	-	5,235	-	-	0	-	-	
COPPER	H1E	0	0	0.0%	494	38	0	0	0.0%	0	0	0.0%	2,386	85	2,707.1%	165	0	0.0%	
COPPER	H1M	0	-	-	344	-	220	-	-	0	-	-	1,364	-	-	220	-	-	
COPPER	H1W	0	-	-	90	-	0	-	-	0	-	-	1,331	-	-	0	-	-	
COPPER	H2E	0	0	0.0%	500	55	200	0	0.0%	0	0	0.0%	2,922	98	2,881.6%	200	0	0.0%	
COPPER	H2M	0	-	-	232	-	0	-	-	0	-	-	955	-	-	0	-	-	
COPPER	H2W	0	-	-	209	-	0	-	-	0	-	-	708	-	-	0	-	-	
COPPER	H3E	0	0	0.0%	366	35	0	0	0.0%	0	0	0.0%	1,689	68	2,383.8%	800	0	0.0%	
COPPER	H3M	0	-	-	46	-	0	-	-	0	-	-	797	-	-	0	-	-	
COPPER	H3W	0	-	-	52	-	0	-	-	0	-	-	423	-	-	0	-	-	
COPPER	H4E	0	0	0.0%	372	11	0	0	0.0%	0	0	0.0%	2,702	80	3,277.5%	165	80	106.3%	
COPPER	H4M	0	-	-	79	-	0	-	-	0	-	-	482	-	-	0	-	-	
COPPER	H4W	0	-	-	46	-	0	-	-	0	-	-	645	-	-	0	-	-	
COPPER	H5E	0	0	0.0%	0	0	0	0	0.0%	0	0	0.0%	410	7	5,757.1%	300	0	0.0%	
COPPER	H5M	0	-	-	0	-	0	-	-	0	-	-	360	-	-	0	-	-	
COPPER	H5W	0	-	-	253	-	0	-	-	0	-	-	966	-	-	0	-	-	
GOLD	G1M	0	-	-	6,040	-	700	-	-	0	-	-	31,041	-	-	1,212	-	-	
GOLD	G1W	0	-	-	4,199	-	200	-	-	0	-	-	49,447	-	-	1,100	-	-	
GOLD	G2M	0	-	-	8,134	-	750	-	-	0	-	-	39,416	-	-	3,300	-	-	
GOLD	G2W	0	-	-	8,276	-	125	-	-	0	-	-	42,951	-	-	975	-	-	
GOLD	G3M	0	-	-	4,959	-	0	-	-	0	-	-	28,947	-	-	300	-	-	
GOLD	G3W	0	-	-	8,102	-	2,600	-	-	0	-	-	46,259	-	-	4,165	-	-	
GOLD	G4M	0	-	-	4,719	-	0	-	-	0	-	-	23,245	-	-	0	-	-	
GOLD	G4W	0	-	-	4,489	-	0	-	-	0	-	-	27,059	-	-	100	-	-	
GOLD	G5M	0	-	-	0	-	0	-	-	0	-	-	8,464	-	-	0	-	-	
GOLD	G5W	0	-	-	8,456	-	480	-	-	0	-	-	21,512	-	-	1,430	-	-	
GOLD	OG1	0	0	0.0%	52,858	59,894	3,110	5,070	-38.7%	0	0	0.0%	489,878	455,490	7.5%	20,950	30,162	-30.5%	

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## NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator	Open Outcry NOV 2022	Open Outcry NOV 2021	% CHG	ELEC NOV 2022	ELEC NOV 2021	% CHG	CME ClearPort NOV 2022	CME ClearPort NOV 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG	CME ClearPort Y.T.D 2022	CME ClearPort Y.T.D 2021	% CHG	
<b>Metals Options</b>																			
GOLD	OG2	0	0	0.0%	52,854	62,903	-0.16	1,715	9,230	-81.4%	0	0	0.0%	484,450	459,164	5.5%	18,063	28,004	-35.5%
GOLD	OG3	0	0	0.0%	36,671	48,520	-0.24	200	6,450	-96.9%	0	0	0.0%	488,774	444,233	10.0%	17,511	26,658	-34.3%
GOLD	OG4	0	0	0.0%	18,086	52,193	-0.65	775	2,550	-69.6%	0	0	0.0%	398,766	318,669	25.1%	8,915	8,497	4.9%
GOLD	OG5	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	116,145	119,261	-2.6%	1,460	4,341	-66.4%
HOT ROLLED COIL STEEL CALL	HRO	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
HOT ROLLED COIL STEEL PUT	HRO	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
IRON ORE 62 CHINA TSI CALL C	ICT	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
IRON ORE 62 CHINA TSI PUT O	ICT	-	0	0.0%	-	0	0	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
IRON ORE CHINA	ICT	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	0	0	0.0%	300	6,198	-95.2%
NYMEX HOT ROLLED STEEL	HRO	0	0	0.0%	20	0	0	2,005	830	141.6%	0	0	0.0%	20	0	0.0%	18,045	3,800	374.9%
NYMEX PLATINUM	PO	0	0	0.0%	782	805	-0.03	2,200	2,050	7.3%	0	0	0.0%	5,624	5,664	-0.7%	45,860	27,606	66.1%
PALLADIUM	PAO	0	0	0.0%	3	18	-0.83	0	50	-100.0%	0	0	0.0%	138	710	-80.6%	0	5,920	-100.0%
SILVER	M1S	0	-	-	4,849	-	-	100	-	-	0	-	-	6,056	-	-	100	-	-
SILVER	M2S	0	-	-	936	-	-	0	-	-	0	-	-	3,791	-	-	600	-	-
SILVER	M3S	0	-	-	156	-	-	0	-	-	0	-	-	1,936	-	-	0	-	-
SILVER	M4S	0	-	-	448	-	-	60	-	-	0	-	-	2,435	-	-	60	-	-
SILVER	M5S	0	-	-	0	-	-	0	-	-	0	-	-	544	-	-	0	-	-
SILVER	SO1	0	0	0.0%	15,983	4,966	2.22	659	620	6.3%	0	0	0.0%	60,486	32,770	84.6%	2,985	3,931	-24.1%
SILVER	SO2	0	0	0.0%	8,891	5,939	0.5	1,200	815	47.2%	0	0	0.0%	55,518	36,595	51.7%	4,775	3,623	31.8%
SILVER	SO3	0	0	0.0%	6,586	3,290	1	1,049	200	424.5%	0	0	0.0%	48,017	28,881	66.3%	2,234	3,628	-38.4%
SILVER	SO4	0	0	0.0%	2,662	3,034	-0.12	220	75	193.3%	0	0	0.0%	36,465	21,699	68.0%	960	922	4.1%
SILVER	SO5	0	0	0.0%	0	0	0	0	0	0.0%	0	0	0.0%	8,829	7,935	11.3%	400	895	-55.3%
SILVER	W1S	0	-	-	416	-	-	0	-	-	0	-	-	3,600	-	-	0	-	-
SILVER	W2S	0	-	-	1,921	-	-	0	-	-	0	-	-	4,397	-	-	0	-	-
SILVER	W3S	0	-	-	589	-	-	0	-	-	0	-	-	2,425	-	-	200	-	-
SILVER	W4S	0	-	-	260	-	-	0	-	-	0	-	-	920	-	-	0	-	-
SILVER	W5S	0	-	-	612	-	-	100	-	-	0	-	-	1,368	-	-	100	-	-
<b>TOTAL FUTURES GROUP</b>																			
Ag Products Futures		0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	2	-100.0%	0	0	0.0%
Energy Futures		0	0	0.0%	32,983,756	43,159,816	-23.6%	1,809,763	1,963,229	-7.8%	0	0	0.0%	393,740,274	430,476,868	-8.5%	21,130,535	22,886,200	-7.7%
Metals Futures		0	0	0.0%	11,513,684	11,698,759	-1.6%	228,644	259,147	-11.8%	0	0	0.0%	105,578,799	116,206,793	-9.1%	2,227,998	2,178,981	2.2%
<b>TOTAL FUTURES</b>		<b>0</b>	<b>0</b>	<b>0.0%</b>	<b>44,497,440</b>	<b>54,858,575</b>	<b>-18.9%</b>	<b>2,038,407</b>	<b>2,222,376</b>	<b>-8.3%</b>	<b>0</b>	<b>0</b>	<b>0.0%</b>	<b>499,319,073</b>	<b>546,683,663</b>	<b>-8.7%</b>	<b>23,358,533</b>	<b>25,065,181</b>	<b>-6.8%</b>

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### NYMEX/COMEX Exchange Volume Comparison Report - Monthly

Commodity Indicator	Open Outcry NOV 2022	Open Outcry NOV 2021	% CHG	ELEC NOV 2022	ELEC NOV 2021	% CHG	CME ClearPort NOV 2022	CME ClearPort NOV 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG	CME ClearPort Y.T.D 2022	CME ClearPort Y.T.D 2021	% CHG
<b>TOTAL OPTIONS GROUP</b>																		
Energy Options	0	0	0.0%	2,830,300	3,708,560	-23.7%	2,420,815	1,609,115	50.4%	0	0	0.0%	33,019,046	36,172,461	-8.7%	22,938,908	20,940,955	9.5%
Metals Options	0	0	0.0%	1,180,221	1,095,905	7.7%	219,354	188,635	16.3%	0	0	0.0%	12,364,209	10,338,837	19.6%	1,914,889	1,996,584	-4.1%
<b>TOTAL OPTIONS</b>	<b>0</b>	<b>0</b>	<b>0.0%</b>	<b>4,010,521</b>	<b>4,804,465</b>	<b>-16.5%</b>	<b>2,640,169</b>	<b>1,797,750</b>	<b>46.9%</b>	<b>0</b>	<b>0</b>	<b>0.0%</b>	<b>45,383,255</b>	<b>46,511,298</b>	<b>-2.4%</b>	<b>24,853,797</b>	<b>22,937,539</b>	<b>8.4%</b>
<b>TOTAL COMBINED</b>																		
Ag Products	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	2	-100.0%	0	0	0.0%
Energy	0	0	0.0%	35,814,056	46,868,376	-23.6%	4,230,578	3,572,344	18.4%	0	0	0.0%	426,759,320	466,649,329	-8.5%	44,069,443	43,827,155	0.6%
Metals	0	0	0.0%	12,693,905	12,794,664	-0.8%	447,998	447,782	0.0%	0	0	0.0%	117,943,008	126,545,630	-6.8%	4,142,887	4,175,565	-0.8%
<b>GRAND TOTAL</b>	<b>0</b>	<b>0</b>	<b>0.0%</b>	<b>48,507,961</b>	<b>59,663,040</b>	<b>-18.7%</b>	<b>4,678,576</b>	<b>4,020,126</b>	<b>16.4%</b>	<b>0</b>	<b>0</b>	<b>0.0%</b>	<b>544,702,328</b>	<b>593,194,961</b>	<b>-8.2%</b>	<b>48,212,330</b>	<b>48,002,720</b>	<b>0.4%</b>

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