

## NYMEX/COMEX Exchange Volume Report - Monthly

Commodity		VOLUME DEC 2022	VOLUME DEC 2021	% CHG	VOLUME NOV 2022	% CHG	VOLUME Y.T.D 2022	VOLUME Y.T.D 2021	% CHG
<b>Ag Products Futures</b>									
COFFEE	KT	0	0	0.0%	0	0.0%	0	2	-100.0%
COTTON	TT	0	0	0.0%	0	-	0	0	0.0%
SUGAR 11	YO	0	0	0.0%	0	-	0	0	0.0%
<b>Energy Futures</b>									
CRUDE OIL PHY	CL	14,809,729	17,329,755	-14.5%	16,410,464	-9.8%	205,997,830	248,314,481	-17.0%
CRUDE OIL	WS	0	0	0.0%	0	0.0%	1,000	3,732	-73.2%
MINY WTI CRUDE OIL	QM	386,580	479,671	-19.4%	432,710	-10.7%	6,940,633	5,261,224	31.9%
BRENT OIL LAST DAY	BZ	1,142,151	1,710,764	-33.2%	1,466,257	-22.1%	17,359,000	24,184,136	-28.2%
HEATING OIL PHY	HO	2,924,628	2,804,932	4.3%	2,674,562	9.3%	39,668,782	38,711,497	2.5%
HTG OIL	BH	0	0	0.0%	0	0.0%	108	124	-12.9%
MINY HTG OIL	QH	8	13	-38.5%	13	-38.5%	107	83	28.9%
RBOB PHY	RB	2,799,413	3,312,905	-15.5%	2,894,347	-3.3%	41,039,130	47,837,998	-14.2%
MINY RBOB GAS	QU	6	13	-53.8%	5	20.0%	101	107	-5.6%
NATURAL GAS	HP	142,671	119,424	19.5%	147,873	-3.5%	1,988,440	1,891,559	5.1%
LTD NAT GAS	HH	488,201	396,371	23.2%	365,864	33.4%	4,389,074	4,102,845	7.0%
MINY NATURAL GAS	QG	381,570	194,234	96.4%	325,570	17.2%	3,792,835	2,305,179	64.5%
PJM MONTHLY	JM	0	0	0.0%	0	-	0	0	0.0%
NATURAL GAS PHY	NG	7,342,634	7,670,114	-4.3%	6,959,599	5.5%	85,875,540	97,588,795	-12.0%
RBOB GAS	RT	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%
AEP-DAYTON HUB DAILY	VD	0	0	0.0%	0	0.0%	0	0	0.0%
ARGUS LLS VS. WTI (ARG) T	E5	1,950	2,430	-19.8%	2,870	-32.1%	65,140	95,438	-31.7%
ARGUS PROPAN FAR EST INDE	7E	6,897	3,724	85.2%	9,075	-24.0%	73,213	71,225	2.8%
ARGUS PROPAN(SAUDI ARAMCO	9N	1,924	1,592	20.9%	3,027	-36.4%	24,334	21,736	12.0%
AUSTRIALIAN COKE COAL	ALW	0	0	0.0%	0	-	0	0	0.0%
BRENT BALMO SWAP	J9	0	0	0.0%	0	0.0%	1,587	1,314	20.8%
BRENT CALENDAR SWAP	CY	10,020	21,560	-53.5%	5,948	68.5%	163,945	134,241	22.1%
BRENT FINANCIAL FUTURES	BB	0	0	0.0%	0	0.0%	0	4,000	-100.0%
BRENT FINANCIAL FUTURES	MBC	240	0	0.0%	0	0.0%	490	0	0.0%
BRENT FINANCIAL FUTURES	MDB	0	0	0.0%	0	0.0%	0	68	-100.0%
BRENT OIL LAST DAY	BZL	0	0	0.0%	0	0.0%	0	0	0.0%
BRENT OIL LAST DAY	BZS	0	0	0.0%	0	0.0%	0	0	0.0%

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CAR VINTAGE	GEO	2,899	2,249	28.9%	7,863	-63.1%	43,081	16,120	167.3%
CAR VINTAGE	NGO	13,830	3,775	266.4%	10,399	33.0%	142,991	31,029	360.8%
CHICAGO ETHANOL SWAP	CU	44,214	54,270	-18.5%	55,334	-20.1%	697,226	866,757	-19.6%
CHICAGO ULSD PL VS HO SPR	5C	330	30	1,000.0%	440	-25.0%	7,453	3,752	98.6%
CHICAGO UNL GAS PL VS RBO	3C	0	0	0.0%	0	0.0%	0	500	-100.0%
CIG BASIS	CI	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%
CIN HUB 5MW REAL TIME O P	H4	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%
COLUMB GULF MAINLINE NG B	5Z	0	0	0.0%	0	-	0	0	0.0%
CONWAY NATURAL GASOLINE (OPIS) SWAP	8L	131	111	18.0%	15	773.3%	3,107	3,419	-9.1%
CONWAY NORMAL BUTANE (OPIS) SWAP	8M	521	396	31.6%	605	-13.9%	4,633	3,593	28.9%
CONWAY PROPANE 5 DECIMALS SWAP	8K	27,578	12,858	114.5%	19,902	38.6%	208,438	176,347	18.2%
CRUDE OIL	LPS	0	0	0.0%	0	0.0%	0	0	0.0%
CRUDE OIL LAST DAY	26	4,098	0	0.0%	697	487.9%	8,817	3,130	181.7%
CRUDE OIL OUTRIGHTS	42	603	283	113.1%	524	15.1%	10,161	3,625	180.3%
CRUDE OIL OUTRIGHTS	CC5	0	0	0.0%	0	0.0%	1,988	9,906	-79.9%
CRUDE OIL OUTRIGHTS	CSW	0	300	-100.0%	0	0.0%	1,320	14,319	-90.8%
CRUDE OIL OUTRIGHTS	DAB	0	0	0.0%	0	-	0	0	0.0%
CRUDE OIL OUTRIGHTS	DBL	0	0	0.0%	0	-	0	0	0.0%
CRUDE OIL OUTRIGHTS	GSW	0	0	0.0%	0	0.0%	105	2,464	-95.7%
CRUDE OIL OUTRIGHTS	HTT	75,982	50,680	49.9%	90,319	-15.9%	889,218	747,700	18.9%
CRUDE OIL OUTRIGHTS	LSW	0	0	0.0%	0	0.0%	4,347	10,372	-58.1%
CRUDE OIL OUTRIGHTS	WCW	0	730	-100.0%	150	-100.0%	17,420	42,367	-58.9%
CRUDE OIL PHY	CLL	0	0	0.0%	0	0.0%	0	0	0.0%
CRUDE OIL PHY	HCL	0	0	0.0%	0	0.0%	0	20,147	-100.0%
CRUDE OIL PHY	MCL	1,838,937	1,714,617	7.3%	2,239,156	-17.9%	30,080,874	8,368,659	259.4%
CRUDE OIL SPRDS	38	0	0	0.0%	0	-	0	0	0.0%
CRUDE OIL SPRDS	ANT	0	184	-100.0%	0	0.0%	8,466	5,895	43.6%
CRUDE OIL SPRDS	HIL	0	0	0.0%	0	0.0%	3,255	5,590	-41.8%
CRUDE OIL SPRDS	WTT	46,228	21,687	113.2%	61,415	-24.7%	617,980	316,326	95.4%
CRUDE OIL TRADE AT MARKER SINGAPORE	CLS	0	0	0.0%	0	0.0%	0	0	0.0%
DAILY PJM	AOR	0	0	0.0%	0	0.0%	0	0	0.0%
DAILY PJM	IDO	0	0	0.0%	0	0.0%	0	0	0.0%
DAILY PJM	NOC	0	0	0.0%	0	0.0%	0	0	0.0%

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DAILY PJM	PAP	0	0	0.0%	0	0.0%	0	0	0.0%
DAILY PJM	PEO	0	0	0.0%	0	0.0%	0	0	0.0%
DAILY PJM	PNO	0	0	0.0%	0	-	0	0	0.0%
DAILY PJM	PNP	0	0	0.0%	0	-	0	0	0.0%
DAILY PJM	PWO	0	0	0.0%	0	0.0%	0	0	0.0%
DAILY PJM	PWP	0	0	0.0%	0	0.0%	0	0	0.0%
DAILY PJM	WOR	0	0	0.0%	0	0.0%	0	0	0.0%
DAILY PJM	ZAO	0	0	0.0%	0	0.0%	0	0	0.0%
DAILY PJM	ZGO	0	0	0.0%	0	0.0%	0	0	0.0%
DAILY PJM	ZJO	0	0	0.0%	0	0.0%	0	0	0.0%
DATED BRENT (PLATTS) DAILY SWAP	7G	0	0	0.0%	0	-	0	0	0.0%
DATED TO FRONTLINE BRENT	FY	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%	5	30	-83.3%
DOMINION TRANSMISSION INC	PG	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%
DUBAI CRUDE OIL CALENDAR	DC	0	0	0.0%	0	0.0%	2,000	0	0.0%
DUTCH TTF NATURAL GAS CAL MONTH FUT	TTF	0	11,296	-100.0%	0	0.0%	14,607	444,677	-96.7%
EAST/WEST FUEL OIL SPREAD	EW	0	6	-100.0%	0	0.0%	0	6	-100.0%
EIA FLAT TAX ONHWAY DIESE	A5	292	1,004	-70.9%	1,173	-75.1%	2,303	5,371	-57.1%
ELEC FINSETTLED	47	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%
ELECTRICITY OFF PEAK	4P	0	0	0.0%	0	-	0	0	0.0%
EMMISSIONS	CGO	1,144	0	-	3,391	-66.3%	23,572	0	-
ETHANOL	MTH	0	0	0.0%	0	0.0%	10	10	0.0%
ETHANOL SWAP	MT2	230	120	91.7%	155	48.4%	2,350	2,248	4.5%
ETHANOL T2 FOB ROTT INCL DUTY SWAP	Z1	2,915	2,697	8.1%	3,655	-20.2%	41,448	43,567	-4.9%
EURO 3.5% FUEL OIL RDAM B	KR	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%
EURO GASOIL 10 CAL SWAP	GT	0	0	-	0	0.0%	3	0	-
EURO GASOIL 10PPM VS ICE	ET	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	84	-100.0%
EUROPE 1% FUEL OIL RDAM C	UH	0	0	0.0%	0	-	0	0	0.0%
EUROPE 3.5% FUEL OIL MED	UI	0	0	0.0%	0	0.0%	0	13	-100.0%
EUROPE 3.5% FUEL OIL RDAM	UV	3	15	-80.0%	1	200.0%	563	556	1.3%
EUROPEAN GASOIL (ICE)	7F	6	196	-96.9%	129	-95.3%	13,598	8,549	59.1%

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EUROPEAN NAPHTHA BALMO	KZ	4	22	-81.8%	30	-86.7%	215	140	53.6%
EUROPEAN NAPHTHA CRACK SPR	EN	615	910	-32.4%	293	109.9%	22,315	19,838	12.5%
EUROPE DATED BRENT SWAP	UB	0	0	0.0%	0	0.0%	0	710	-100.0%
EUROPE JET KERO NWE CALSW	UJ	0	0	0.0%	0	0.0%	0	20	-100.0%
EUROPE NAPHTHA CALSWAP	UN	767	555	38.2%	823	-6.8%	7,471	7,315	2.1%
EURO PROPANE CIF ARA SWA	PS	1,456	1,360	7.1%	1,721	-15.4%	21,074	18,693	12.7%
FREIGHT MARKETS	ACB	0	0	0.0%	0	-	0	0	0.0%
FREIGHT MARKETS	BF1	0	0	0.0%	0	-	0	0	0.0%
FREIGHT MARKETS	BF2	0	10	-100.0%	0	0.0%	0	134	-100.0%
FREIGHT MARKETS	BF3	0	0	0.0%	0	-	0	0	0.0%
FREIGHT MARKETS	BL2	0	0	0.0%	132	-100.0%	1,377	285	383.2%
FREIGHT MARKETS	CS3	0	0	-	0	0.0%	10	0	-
FREIGHT MARKETS	CS4	0	0	-	120	-100.0%	480	0	-
FREIGHT MARKETS	FLJ	0	0	0.0%	0	0.0%	0	97	-100.0%
FREIGHT MARKETS	FLP	7	11	-36.4%	0	0.0%	303	713	-57.5%
FREIGHT MARKETS	FRC	0	0	0.0%	0	0.0%	36	70	-48.6%
FREIGHT MARKETS	T2D	0	120	-100.0%	57	-100.0%	785	904	-13.2%
FREIGHT MARKETS	T7C	0	0	0.0%	0	-	0	0	0.0%
FREIGHT MARKETS	T8C	0	0	0.0%	0	0.0%	0	10	-100.0%
FREIGHT MARKETS	TC6	0	225	-100.0%	0	0.0%	0	450	-100.0%
FREIGHT MARKETS	TD3	0	60	-100.0%	0	0.0%	0	60	-100.0%
FREIGHT MARKETS	USC	0	0	0.0%	0	-	0	0	0.0%
FREIGHT MARKETS	USE	0	0	0.0%	0	0.0%	0	90	-100.0%
FUEL OIL CRACK VS ICE	FO	0	0	0.0%	12	-100.0%	1,204	2,203	-45.3%
FUEL OIL NWE CRACK VS ICE	FI	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%
FUELOIL SWAP:CARGOES VS.B	FS	0	0	0.0%	0	0.0%	0	0	0.0%
GAS EURO-BOB OXY NWE BARGES	7H	64	178	-64.0%	147	-56.5%	2,193	7,413	-70.4%
GAS EURO-BOB OXY NWE BARGES CRK	7K	829	3,319	-75.0%	1,249	-33.6%	26,841	63,082	-57.5%
GASOIL 0.1CIF MED VS ICE	Z5	0	0	0.0%	0	0.0%	45	60	-25.0%
GASOIL 0.1 RDAM BRGS VS I	WQ	0	0	0.0%	0	0.0%	10	42	-76.2%
GASOIL 0.1 ROTTERDAM BARG	VL	0	38	-100.0%	10	-100.0%	76	216	-64.8%
GASOIL 10PPM VS ICE SWAP	TP	0	0	0.0%	0	0.0%	12	0	0.0%
GASOIL CALENDAR SWAP	GX	0	233	-100.0%	36	-100.0%	1,013	1,819	-44.3%
GASOIL CRACK SPREAD CALEN	GZ	0	2,205	-100.0%	12	-100.0%	10,971	22,699	-51.7%

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GASOIL MINI CALENDAR SWAP	QA	40	173	-76.9%	360	-88.9%	3,217	4,233	-24.0%
GERMAN POWER BASELOAD CAL MONTH FU	DEB	0	0	0.0%	0	0.0%	0	244	-100.0%
GROUP THREE UNLEAD GAS (P	A9	0	0	0.0%	0	-	0	0	0.0%
GRP THREE ULSD(PLT)VS HEA	A6	3,425	2,965	15.5%	3,035	12.9%	52,663	50,360	4.6%
GRP THREE UNL GS (PLT) VS	A8	4,025	1,960	105.4%	1,625	147.7%	36,512	30,994	17.8%
GULF COAST 3% FUEL OIL BA	VZ	10	0	0.0%	0	0.0%	977	740	32.0%
GULF COAST JET FUEL CLNDR	GE	0	0	0.0%	0	0.0%	0	0	0.0%
GULF COAST JET VS NYM 2 H	ME	4,959	21,983	-77.4%	4,422	12.1%	105,829	244,225	-56.7%
GULF COAST NO.6 FUEL OIL	MF	2,654	2,813	-5.7%	4,566	-41.9%	52,417	21,572	143.0%
GULF COAST NO.6 FUEL OIL	MG	12,816	9,809	30.7%	16,081	-20.3%	107,174	38,597	177.7%
GULF COAST ULSD CALENDAR	LY	302	878	-65.6%	1,203	-74.9%	2,309	5,084	-54.6%
GULF COAST ULSD CRACK SPR	GY	0	0	0.0%	0	0.0%	0	0	0.0%
HEATING OIL BALMO CLNDR S	1G	177	95	86.3%	20	785.0%	3,687	3,235	14.0%
HEATING OIL CRCK SPRD BAL	1H	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%
HEATING OIL PHY	MHO	1	0	-	36	-97.2%	103	0	-
HENRY HUB BASIS SWAP	HB	0	0	0.0%	0	-	0	0	0.0%
HENRY HUB FINANCIAL LAST	NBP	0	0	0.0%	0	-	0	0	0.0%
HENRY HUB INDEX SWAP FUTU	IN	0	0	0.0%	0	-	0	0	0.0%
HENRY HUB SWAP	NN	36,028	14,622	146.4%	14,672	145.6%	331,266	357,038	-7.2%
HOUSTON SHIP CHANNEL BASI	NH	0	0	0.0%	0	0.0%	0	0	0.0%
ICE BRENT DUBAI SWAP	DB	0	60	-100.0%	220	-100.0%	2,413	6,804	-64.5%
ICE GASOIL BALMO SWAP	U9	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%
INDIANA MISO	PDD	0	0	0.0%	0	-	0	0	0.0%
INDIANA MISO	PTD	0	0	0.0%	0	0.0%	0	0	0.0%
INDONESIAN COAL ICI4	ICI	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%	428	6	7,033.3%
JAPAN C&F NAPHTHA SWAP	JA	126	115	9.6%	47	168.1%	1,336	783	70.6%
JAPAN NAPHTHA BALMO SWAP	E6	8	0	0.0%	0	0.0%	14	18	-22.2%
JET CIF NWE VS ICE	JC	90	120	-25.0%	0	0.0%	1,615	1,870	-13.6%
JET FUEL UP-DOWN BALMO CL	1M	1,305	3,880	-66.4%	125	944.0%	16,671	20,994	-20.6%
JKM LNG Futures	JKM	0	828	-100.0%	386	-100.0%	3,609	7,251	-50.2%
LA CARB DIESEL (OPIS) SWA	KL	75	355	-78.9%	43	74.4%	2,409	2,335	3.2%
LA CARBOB GASOLINE(OPIS)S	JL	0	0	0.0%	0	0.0%	0	225	-100.0%

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LA JET (OPIS) SWAP	JS	750	475	57.9%	25	2,900.0%	4,150	6,200	-33.1%
LLS (ARGUS) CALENDAR SWAP	XA	0	0	0.0%	0	0.0%	0	0	0.0%
LLS (ARGUS) VS WTI SWAP	WJ	160	480	-66.7%	0	0.0%	253	3,266	-92.3%
LOS ANGELES CARB GASOLINE	MH	0	0	0.0%	0	-	0	0	0.0%
MARS (ARGUS) VS WTI SWAP	YX	0	0	0.0%	0	0.0%	1,685	1,750	-3.7%
MARS (ARGUS) VS WTI TRD M	YV	10,657	9,170	16.2%	11,873	-10.2%	178,876	212,517	-15.8%
MARS BLEND CRUDE OIL	MB	0	0	0.0%	0	-	0	0	0.0%
MCCLOSKEY ARA ARGS COAL	MTF	1,107	6,269	-82.3%	2,132	-48.1%	56,889	153,051	-62.8%
MCCLOSKEY RCH BAY COAL	MFF	20	110	-81.8%	15	33.3%	4,171	10,691	-61.0%
MGN1 SWAP FUT	MGN	0	0	0.0%	0	0.0%	0	0	0.0%
MICHIGAN BASIS	NF	0	0	0.0%	0	-	0	0	0.0%
MINI GAS EUROBOB OXY NWE ARGS BALMO	MEB	0	61	-100.0%	0	0.0%	263	254	3.5%
MINI RBOB V. EBOBARG NWE BRGS BALMO	MXR	0	0	0.0%	0	0.0%	50	391	-87.2%
MINI RBOB V. EBOB(ARGUS) NWE BRGS	MXB	398	199	100.0%	310	28.4%	3,762	6,337	-40.6%
MJC FUT	MJC	0	0	0.0%	0	0.0%	0	50	-100.0%
MNC FUT	MNC	1,400	1,186	18.0%	1,658	-15.6%	19,955	11,504	73.5%
MONT BELVIEU ETHANE 5 DECIMAL	C0	28,233	32,502	-13.1%	37,839	-25.4%	428,656	354,180	21.0%
MONT BELVIEU ETHANE OPIS BALMO	8C	755	2,810	-73.1%	1,176	-35.8%	10,832	12,658	-14.4%
MONT BELVIEU LDH PROPANE 5 DECIMAL	B0	221,737	120,826	83.5%	199,579	11.1%	2,120,224	2,201,905	-3.7%
MONT BELVIEU LDH PROPANE OPIS BALMO	8O	3,311	2,600	27.3%	2,379	39.2%	32,760	36,430	-10.1%
MONT BELVIEU NATURAL GASOLINE 5 DEC	7Q	30,729	12,645	143.0%	20,191	52.2%	297,773	176,018	69.2%
MONT BELVIEU NATURAL GASOLINE BALMO	R0	1,755	610	187.7%	2,393	-26.7%	20,536	7,282	182.0%
MONT BELVIEU NORMAL BUTANE 5 DECIMAL	D0	53,104	34,456	54.1%	60,424	-12.1%	658,998	642,794	2.5%
MONT BELVIEU NORMAL BUTANE BALMO	8J	1,698	1,474	15.2%	1,577	7.7%	18,432	15,473	19.1%
NATURAL GAS	NWM	0	0	-	0	0.0%	305	0	-
NATURAL GAS PEN SWP	NP	34,092	26,044	30.9%	27,154	25.6%	512,650	610,471	-16.0%
NEPOOL INTR HUB 5MW D AH	H2	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%
NEPOOL NE MASS 5MW D AH O	P8	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%
NEW ENGLAND HUB PEAK DAIL	CE	0	0	0.0%	0	0.0%	0	0	0.0%
NEW YORK ETHANOL SWAP	EZ	295	1,395	-78.9%	490	-39.8%	9,777	3,210	204.6%
NEW YORK HUB ZONE G PEAK	GN	0	0	0.0%	0	0.0%	0	0	0.0%
NEW YORK HUB ZONE J PEAK	JN	0	0	0.0%	0	0.0%	0	0	0.0%
NGPL MID-CONTINENT	NL	0	0	0.0%	0	-	0	0	0.0%

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Commodity		VOLUME DEC 2022	VOLUME DEC 2021	% CHG	VOLUME NOV 2022	% CHG	VOLUME Y.T.D 2022	VOLUME Y.T.D 2021	% CHG
<b>Energy Futures</b>									
NGPL TEX/OK	PD	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%
NO 2 UP-DOWN SPREAD CALEN	UT	0	0	0.0%	0	-	0	0	0.0%
NORTHWEST ROCKIES BASIS S	NR	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%
NY HARBOR 1% FUEL OIL BAL	VK	0	0	0.0%	0	0.0%	0	0	0.0%
NY HARBOR HEAT OIL SWP	MP	1,984	2,476	-19.9%	3,327	-40.4%	17,800	15,112	17.8%
NY HARBOR LOW SULPUR GAS 1000MBBL	NLS	0	0	0.0%	0	0.0%	0	1,570	-100.0%
NY HARBOR RESIDUAL FUEL 1	MM	130	275	-52.7%	75	73.3%	1,555	2,699	-42.4%
NYH NO 2 CRACK SPREAD CAL	HK	330	330	0.0%	105	214.3%	17,385	17,375	0.1%
NYISO CAPACITY	LHV	0	0	0.0%	0	0.0%	0	0	0.0%
NYISO CAPACITY	NRS	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%
NYISO ZONE G 5MW D AH O P	D2	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%
NYISO ZONE J 5MW D AH O P	D4	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%
NYMEX ALUMINUM FUTURES	AN	0	0	0.0%	0	-	0	0	0.0%
NYMEX ULSD VS NYMEX HO	UY	0	0	0.0%	0	-	0	0	0.0%
NY ULSD (ARGUS) VS HEATING OIL	7Y	845	450	87.8%	998	-15.3%	7,255	1,100	559.5%
PANHANDLE BASIS SWAP FUTU	PH	0	0	0.0%	0	0.0%	0	0	0.0%
PERMIAN BASIS SWAP	PM	0	0	0.0%	0	-	0	0	0.0%
PETROCHEMICALS	22	306	91	236.3%	142	115.5%	1,838	2,086	-11.9%
PETROCHEMICALS	32	148	85	74.1%	98	51.0%	671	775	-13.4%
PETROCHEMICALS	3NA	9	10	-10.0%	2	350.0%	278	172	61.6%
PETROCHEMICALS	51	0	0	0.0%	0	0.0%	15	0	0.0%
PETROCHEMICALS	81	0	0	0.0%	0	0.0%	424	147	188.4%
PETROCHEMICALS	8I	360	745	-51.7%	200	80.0%	9,899	13,254	-25.3%
PETROCHEMICALS	91	499	462	8.0%	680	-26.6%	4,390	4,916	-10.7%
PETROCHEMICALS	MAA	30	90	-66.7%	30	0.0%	520	565	-8.0%
PETROCHEMICALS	MAE	955	550	73.6%	1,522	-37.3%	14,059	11,215	25.4%
PETROCHEMICALS	MAS	340	190	78.9%	460	-26.1%	4,370	4,402	-0.7%
PETROCHEMICALS	MBE	90	0	0.0%	50	80.0%	850	710	19.7%
PETROCHEMICALS	MNB	0	48	-100.0%	0	0.0%	15	2,103	-99.3%
PETROCHEMICALS	MPS	441	601	-26.6%	618	-28.6%	3,685	4,944	-25.5%



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<b>Energy Futures</b>									
PETROCHEMICALS	PMF	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%
PETRO CRCKS & SPRDS ASIA	STS	0	0	0.0%	0	0.0%	0	0	0.0%
PETRO CRCKS & SPRDS NA	CRB	13,405	16,654	-19.5%	9,830	36.4%	187,524	239,020	-21.5%
PETRO CRCKS & SPRDS NA	EXR	171	373	-54.2%	172	-0.6%	3,024	7,352	-58.9%
PETRO CRCKS & SPRDS NA	FOC	0	0	0.0%	0	0.0%	0	0	0.0%
PETRO CRCKS & SPRDS NA	GBB	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%
PETRO CRCKS & SPRDS NA	GCI	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%
PETRO CRCKS & SPRDS NA	GCU	0	0	0.0%	0	0.0%	275	880	-68.8%
PETRO CRCKS & SPRDS NA	GFC	0	0	0.0%	0	0.0%	1,350	474	184.8%
PETRO CRCKS & SPRDS NA	HOB	0	75	-100.0%	0	0.0%	577	5,385	-89.3%
PETRO CRCKS & SPRDS NA	MFR	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%
PETRO CRCKS & SPRDS NA	RBB	100	570	-82.5%	25	300.0%	6,751	16,651	-59.5%
PETRO CRCKS & SPRDS NA	RVG	2,035	1,663	22.4%	861	136.4%	22,431	13,258	69.2%
PETRO CRCKS & SPRDS NA	SF3	0	0	0.0%	0	-	0	0	0.0%
PETRO CRK&SPRD EURO	1NB	90	0	0.0%	378	-76.2%	2,589	433	497.9%
PETRO CRK&SPRD EURO	43	0	9	-100.0%	0	0.0%	121	35	245.7%
PETRO CRK&SPRD EURO	BOB	15	288	-94.8%	0	0.0%	620	1,762	-64.8%
PETRO CRK&SPRD EURO	EOB	0	15	-100.0%	0	0.0%	0	20	-100.0%
PETRO CRK&SPRD EURO	EPN	219	806	-72.8%	348	-37.1%	4,532	6,832	-33.7%
PETRO CRK&SPRD EURO	EVC	0	15	-100.0%	40	-100.0%	867	871	-0.5%
PETRO CRK&SPRD EURO	FVB	0	0	0.0%	0	-	0	0	0.0%
PETRO CRK&SPRD EURO	GCB	0	0	0.0%	0	-	0	0	0.0%
PETRO CRK&SPRD EURO	GOC	0	0	0.0%	0	0.0%	9	0	0.0%
PETRO CRK&SPRD EURO	MGB	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%
PETRO CRK&SPRD EURO	NBB	0	0	0.0%	0	0.0%	0	9	-100.0%
PETRO CRK&SPRD EURO	NOB	15	15	0.0%	17	-11.8%	949	566	67.7%
PETROLEUM PRODUCTS	1NM	0	0	0.0%	0	0.0%	50	717	-93.0%
PETROLEUM PRODUCTS	BEB	0	0	0.0%	0	0.0%	0	3	-100.0%
PETROLEUM PRODUCTS	BEF	0	0	0.0%	0	0.0%	2	3	-33.3%
PETROLEUM PRODUCTS	CMS	510	60	750.0%	0	0.0%	2,100	790	165.8%



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<b>Energy Futures</b>									
PETROLEUM PRODUCTS	EWG	0	0	0.0%	50	-100.0%	4,817	5,298	-9.1%
PETROLEUM PRODUCTS	H5F	235	0	0.0%	100	135.0%	1,120	60	1,766.7%
PETROLEUM PRODUCTS	JCC	400	200	100.0%	50	700.0%	13,966	2,800	398.8%
PETROLEUM PRODUCTS	MME	0	0	0.0%	0	-	0	0	0.0%
PETROLEUM PRODUCTS	MPE	0	0	0.0%	0	0.0%	0	14	-100.0%
PETROLEUM PRODUCTS	NCC	0	0	0.0%	0	-	0	0	0.0%
PETROLEUM PRODUCTS	R5E	0	0	0.0%	0	0.0%	0	5	-100.0%
PETROLEUM PRODUCTS	R5F	37	24	54.2%	17	117.6%	510	564	-9.6%
PETROLEUM PRODUCTS	S53	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%
PETROLEUM PRODUCTS	UP5	0	0	0.0%	0	0.0%	0	0	0.0%
PETROLEUM PRODUCTS	VU	0	0	0.0%	0	0.0%	1,148	341	236.7%
PETROLEUM PRODUCTS ASIA	E6M	10	0	0.0%	0	0.0%	60	10	500.0%
PETROLEUM PRODUCTS ASIA	MJN	512	1,012	-49.4%	240	113.3%	7,928	3,906	103.0%
PETRO OUTRIGHT EURO	0B	0	0	0.0%	0	0.0%	0	223	-100.0%
PETRO OUTRIGHT EURO	0C	0	0	0.0%	0	0.0%	0	75	-100.0%
PETRO OUTRIGHT EURO	0D	35	28	25.0%	60	-41.7%	390	968	-59.7%
PETRO OUTRIGHT EURO	0E	0	0	0.0%	0	0.0%	0	20	-100.0%
PETRO OUTRIGHT EURO	0F	50	0	0.0%	0	0.0%	59	9	555.6%
PETRO OUTRIGHT EURO	1T	0	0	0.0%	0	0.0%	0	20	-100.0%
PETRO OUTRIGHT EURO	5L	0	0	0.0%	20	-100.0%	30	0	0.0%
PETRO OUTRIGHT EURO	63	0	0	0.0%	0	-	0	0	0.0%
PETRO OUTRIGHT EURO	7I	0	0	0.0%	0	0.0%	285	50	470.0%
PETRO OUTRIGHT EURO	7R	0	0	0.0%	0	0.0%	46	79	-41.8%
PETRO OUTRIGHT EURO	CBB	0	0	0.0%	0	0.0%	0	33	-100.0%
PETRO OUTRIGHT EURO	CGB	0	0	0.0%	0	0.0%	30	0	0.0%
PETRO OUTRIGHT EURO	CPB	434	540	-19.6%	80	442.5%	2,200	4,152	-47.0%
PETRO OUTRIGHT EURO	EFF	0	0	0.0%	0	-	0	0	0.0%
PETRO OUTRIGHT EURO	EFM	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%
PETRO OUTRIGHT EURO	EWN	72	438	-83.6%	405	-82.2%	2,242	2,533	-11.5%
PETRO OUTRIGHT EURO	FLB	0	0	0.0%	0	0.0%	0	5	-100.0%
PETRO OUTRIGHT EURO	GNO	0	0	0.0%	0	-	0	0	0.0%
PETRO OUTRIGHT EURO	H5G	0	0	0.0%	0	0.0%	0	0	0.0%
PETRO OUTRIGHT EURO	JFB	0	0	0.0%	0	0.0%	0	10	-100.0%

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<b>Energy Futures</b>									
PETRO OUTRIGHT EURO	M1B	650	1,405	-53.7%	574	13.2%	12,239	14,804	-17.3%
PETRO OUTRIGHT EURO	MBB	0	0	0.0%	0	0.0%	0	240	-100.0%
PETRO OUTRIGHT EURO	MBN	320	491	-34.8%	390	-17.9%	6,731	4,251	58.3%
PETRO OUTRIGHT EURO	MEF	0	45	-100.0%	20	-100.0%	114	2,400	-95.3%
PETRO OUTRIGHT EURO	MQA	0	63	-100.0%	30	-100.0%	218	131	66.4%
PETRO OUTRIGHT EURO	R53	0	12	-100.0%	0	0.0%	0	139	-100.0%
PETRO OUTRIGHT EURO	R5B	0	0	0.0%	0	0.0%	0	56	-100.0%
PETRO OUTRIGHT EURO	R5M	1,463	1,461	0.1%	1,305	12.1%	20,485	15,364	33.3%
PETRO OUTRIGHT EURO	R5O	396	1,146	-65.4%	472	-16.1%	10,492	9,296	12.9%
PETRO OUTRIGHT EURO	RBM	0	33	-100.0%	10	-100.0%	122	67	82.1%
PETRO OUTRIGHT EURO	S5B	0	0	0.0%	0	0.0%	5	5	0.0%
PETRO OUTRIGHT EURO	S5F	103	123	-16.3%	110	-6.4%	1,363	1,309	4.1%
PETRO OUTRIGHT EURO	S5M	1,935	2,126	-9.0%	2,096	-7.7%	25,745	21,556	19.4%
PETRO OUTRIGHT EURO	S5O	1,088	2,589	-58.0%	1,062	2.4%	28,131	16,736	68.1%
PETRO OUTRIGHT EURO	SMU	0	0	0.0%	0	0.0%	0	1,450	-100.0%
PETRO OUTRIGHT EURO	SR5	9	0	-	12	-25.0%	141	0	-
PETRO OUTRIGHT EURO	T0	0	0	0.0%	0	-	0	0	0.0%
PETRO OUTRIGHT EURO	T2B	0	0	0.0%	0	-	0	0	0.0%
PETRO OUTRIGHT EURO	TLB	0	0	0.0%	0	0.0%	0	58	-100.0%
PETRO OUTRIGHT EURO	ULB	100	0	0.0%	625	-84.0%	725	0	0.0%
PETRO OUTRIGHT EURO	UNB	0	0	0.0%	0	-	0	0	0.0%
PETRO OUTRIGHT EURO	V0	0	0	0.0%	0	0.0%	0	582	-100.0%
PETRO OUTRIGHT NA	A8B	0	50	-100.0%	75	-100.0%	2,380	1,140	108.8%
PETRO OUTRIGHT NA	AB6	100	280	-64.3%	435	-77.0%	3,980	2,380	67.2%
PETRO OUTRIGHT NA	BCR	3,450	2,050	68.3%	900	283.3%	29,520	22,757	29.7%
PETRO OUTRIGHT NA	DBB	0	0	0.0%	0	-	0	0	0.0%
PETRO OUTRIGHT NA	FCB	0	0	0.0%	0	0.0%	0	32	-100.0%
PETRO OUTRIGHT NA	H5B	0	0	0.0%	0	-	0	0	0.0%
PETRO OUTRIGHT NA	JE	0	0	0.0%	0	0.0%	60	275	-78.2%
PETRO OUTRIGHT NA	JET	350	450	-22.2%	575	-39.1%	6,710	4,600	45.9%
PETRO OUTRIGHT NA	JTB	0	700	-100.0%	25	-100.0%	2,161	1,365	58.3%
PETRO OUTRIGHT NA	MBL	0	0	0.0%	60	-100.0%	920	731	25.9%
PETRO OUTRIGHT NA	MEN	20	193	-89.6%	13	53.8%	614	1,128	-45.6%
PETRO OUTRIGHT NA	MEO	15	135	-88.9%	497	-97.0%	3,123	5,063	-38.3%
PETRO OUTRIGHT NA	MFD	0	0	0.0%	0	0.0%	0	0	0.0%

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<b>Energy Futures</b>									
PETRO OUTRIGHT NA	MMF	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%
PJM AD HUB 5MW REAL TIME	Z9	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%
PJM DAYTON DA OFF-PEAK	R7	0	0	0.0%	0	-	0	0	0.0%
PJM DAYTON DA PEAK	D7	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%
PJM NI HUB 5MW REAL TIME	B6	0	0	0.0%	0	0.0%	0	0	0.0%
PJM PECO ZONE5MW PEAK CAL MO DAY AH	4N	0	0	0.0%	0	-	0	0	0.0%
PJM PSEG DA OFF-PEAK	W6	0	0	0.0%	0	-	0	0	0.0%
PJM PSEG DA PEAK	L6	0	0	0.0%	0	-	0	0	0.0%
PJM WESTH DA OFF-PEAK	E4	0	0	0.0%	0	-	0	0	0.0%
PJM WESTHDA PEAK	J4	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%
PJM WESTH RT PEAK	L1	0	0	0.0%	0	0.0%	0	0	0.0%
PLASTICS	PGP	564	877	-35.7%	729	-22.6%	11,212	16,144	-30.6%
PREMIUM UNLD 10P FOB MED	3G	0	0	0.0%	0	0.0%	111	185	-40.0%
PROPANE NON-LDH MB (OPIS) BALMO SWP	1S	1,997	1,955	2.1%	2,000	-0.1%	20,527	16,854	21.8%
PROPANE NON-LDH MT. BEL (OPIS) SWP	1R	22,715	10,772	110.9%	24,838	-8.5%	175,389	192,442	-8.9%
RBOB CALENDAR SWAP	RL	4,126	7,315	-43.6%	7,857	-47.5%	64,290	80,726	-20.4%
RBOB CRACK SPREAD	RM	60	780	-92.3%	300	-80.0%	15,272	22,479	-32.1%
RBOB CRACK SPREAD BALMO S	1E	0	0	-	0	0.0%	127	0	-
RBOB GASOLINE BALMO CLNDR	1D	302	130	132.3%	9	3,255.6%	12,827	8,965	43.1%
RBOB PHY	MRB	3	0	-	30	-90.0%	92	0	-
RBOB PHY	RBL	0	0	0.0%	0	0.0%	0	0	0.0%
RBOB VS HEATING OIL SWAP	RH	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%
SINGAPORE 180CST BALMO	BS	0	0	0.0%	1	-100.0%	3	0	0.0%
SINGAPORE 380CST BALMO	BT	0	0	0.0%	0	0.0%	1	23	-95.7%
SINGAPORE 380CST FUEL OIL	SE	52	132	-60.6%	20	160.0%	1,375	2,155	-36.2%
SINGAPORE FUEL 180CST CAL	UA	12	0	0.0%	0	0.0%	15	0	0.0%
SINGAPORE FUEL OIL 180 CS	GMS	0	0	0.0%	0	0.0%	0	12	-100.0%
SINGAPORE FUEL OIL SPREAD	SD	0	0	0.0%	0	0.0%	102	0	0.0%
SINGAPORE GASOIL	MAF	129	387	-66.7%	69	87.0%	4,155	3,476	19.5%
SINGAPORE GASOIL	MTB	0	10	-100.0%	0	0.0%	196	62	216.1%

## NYMEX/COMEX Exchange Volume Report - Monthly

Commodity		VOLUME DEC 2022	VOLUME DEC 2021	% CHG	VOLUME NOV 2022	% CHG	VOLUME Y.T.D 2022	VOLUME Y.T.D 2021	% CHG
<b>Energy Futures</b>									
SINGAPORE GASOIL	MTS	368	323	13.9%	277	32.9%	4,013	4,414	-9.1%
SINGAPORE GASOIL	SBM	0	56	-100.0%	0	0.0%	332	234	41.9%
SINGAPORE GASOIL CALENDAR	MSG	34	620	-94.5%	26	30.8%	1,306	8,966	-85.4%
SINGAPORE GASOIL SWAP	SG	0	1,039	-100.0%	0	0.0%	3,155	14,347	-78.0%
SINGAPORE GASOIL VS ICE	GA	0	1,450	-100.0%	0	0.0%	3,936	12,558	-68.7%
SINGAPORE JET KERO BALMO	BX	0	0	0.0%	0	-	0	0	0.0%
SINGAPORE JET KERO GASOIL	RK	0	750	-100.0%	0	0.0%	3,725	4,498	-17.2%
SINGAPORE JET KEROSENE SW	KS	0	0	0.0%	0	0.0%	405	3,435	-88.2%
SINGAPORE MOGAS 92 UNLEADED BALMO	1P	0	0	0.0%	0	0.0%	810	610	32.8%
SINGAPORE MOGAS 92 UNLEADED SWP	1N	50	542	-90.8%	0	0.0%	650	7,823	-91.7%
Sumas Basis Swap	NK	0	0	0.0%	0	-	0	0	0.0%
TC2 ROTTERDAM TO USAC 37K	TM	0	0	0.0%	12	-100.0%	450	300	50.0%
TC5 RAS TANURA TO YOKOHAM	TH	0	0	0.0%	0	0.0%	243	620	-60.8%
TCO BASIS SWAP	TC	0	0	0.0%	0	-	0	0	0.0%
TD3 MEG TO JAPAN 250K MT	TL	0	750	-100.0%	120	-100.0%	6,405	12,995	-50.7%
TEXAS EASTERN ZONE M-3 BA	NX	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%
UK NBP NAT GAS CAL MTH FUT	UKG	0	0	0.0%	0	0.0%	0	2,535	-100.0%
ULSD UP-DOWN BALMO SWP	1L	4,400	10,125	-56.5%	4,510	-2.4%	70,389	65,174	8.0%
UP DOWN GC ULSD VS NMX HO	LT	23,789	27,495	-13.5%	20,476	16.2%	308,492	405,553	-23.9%
WAHA BASIS	NW	0	0	0.0%	0	-	0	0	0.0%
WTI-BRENT BULLET SWAP	BY	0	0	0.0%	0	-	0	0	0.0%
WTI-BRENT CALENDAR SWAP	BK	40,920	47,449	-13.8%	43,728	-6.4%	599,792	619,958	-3.3%
WTI CALENDAR	CS	51,464	70,518	-27.0%	43,810	17.5%	719,774	646,238	11.4%
WTI MIDLAND CRUDE OIL	WTL	0	400	-100.0%	0	0.0%	900	3,055	-70.5%
WTS (ARGUS) VS WTI SWAP	FF	540	480	12.5%	216	150.0%	28,378	38,836	-26.9%
WTS (ARGUS) VS WTI TRD MT	FH	100	30	233.3%	0	0.0%	7,135	6,405	11.4%
<b>Energy Options</b>									
BRENT CALENDAR SWAP	BA	990	0	0.0%	0	0.0%	4,262	3,106	37.2%
BRENT CRUDE OIL 1 M CSO	9C	15,000	500	2,900.0%	35,250	-57.4%	181,500	198,550	-8.6%
BRENT OIL LAST DAY	BE	625	6,000	-89.6%	19,750	-96.8%	129,912	237,991	-45.4%
BRENT OIL LAST DAY	BZO	7,025	28,619	-75.5%	9,152	-23.2%	194,266	319,491	-39.2%
BRENT OIL LAST DAY	OS	0	0	0.0%	0	-	0	0	0.0%
COAL API2 INDEX	F2C	50	25	100.0%	20	150.0%	460	1,605	-71.3%

## NYMEX/COMEX Exchange Volume Report - Monthly

Commodity		VOLUME DEC 2022	VOLUME DEC 2021	% CHG	VOLUME NOV 2022	% CHG	VOLUME Y.T.D 2022	VOLUME Y.T.D 2021	% CHG
<b>Energy Options</b>									
COAL API2 INDEX	F2Q	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%
CRUDE OIL 1MO	WA	31,950	74,325	-57.0%	57,425	-44.4%	668,528	1,314,275	-49.1%
CRUDE OIL APO	AO	19,816	81,933	-75.8%	9,004	120.1%	237,774	417,103	-43.0%
CRUDE OIL CALNDR STRIP	6F	0	0	0.0%	0	0.0%	0	0	0.0%
CRUDE OIL OUTRIGHTS	ECCL	11,102	0	-	7,184	54.5%	23,887	0	-
CRUDE OIL PHY	CD	0	0	0.0%	0	-	0	0	0.0%
CRUDE OIL PHY	LC	15,460	11,020	40.3%	18,730	-17.5%	389,651	152,515	155.5%
CRUDE OIL PHY	LO	1,708,851	2,413,866	-29.2%	2,742,193	-37.7%	28,931,828	30,006,061	-3.6%
CRUDE OIL PHY	LO1	22,589	17,668	27.9%	55,554	-59.3%	396,575	257,286	54.1%
CRUDE OIL PHY	LO2	48,672	15,475	214.5%	41,882	16.2%	334,062	210,407	58.8%
CRUDE OIL PHY	LO3	18,054	14,998	20.4%	22,223	-18.8%	213,100	165,813	28.5%
CRUDE OIL PHY	LO4	32,267	18,498	74.4%	48,547	-33.5%	412,535	278,637	48.1%
CRUDE OIL PHY	LO5	23,718	21,813	8.7%	0	0.0%	99,787	101,120	-1.3%
CRUDE OIL PHY	MCO	14,888	0	-	16,247	-8.4%	70,216	0	-
CRUDE OIL PHY	MW1	705	0	-	2,161	-67.4%	8,236	0	-
CRUDE OIL PHY	MW2	1,984	0	-	2,540	-21.9%	10,785	0	-
CRUDE OIL PHY	MW3	1,297	0	-	1,178	10.1%	5,865	0	-
CRUDE OIL PHY	MW4	1,384	0	-	3,137	-55.9%	11,993	0	-
CRUDE OIL PHY	MW5	900	0	-	0	0.0%	4,193	0	-
ELEC FINSETTLED	PJN	0	0	0.0%	0	0.0%	0	0	0.0%
ETHANOL SWAP	CVR	855	5,165	-83.4%	1,911	-55.3%	31,535	41,665	-24.3%
ETHANOL SWAP	GVR	0	0	0.0%	0	0.0%	0	0	0.0%
FREIGHT MARKETS	FLO	0	0	-	0	0.0%	30	0	-
HEATING OIL CRK SPD AVG PRICE OPTIONS	3W	0	0	0.0%	0	0.0%	750	1,980	-62.1%
HEATING OIL PHY	FZ	0	0	0.0%	0	0.0%	0	2,225	-100.0%
HEATING OIL PHY	LB	0	1,170	-100.0%	0	0.0%	382	3,081	-87.6%
HEATING OIL PHY	OH	15,625	11,822	32.2%	14,319	9.1%	139,580	103,509	34.8%
HENRY HUB FINANCIAL LAST	E7	10,158	12,693	-20.0%	6,451	57.5%	62,972	100,742	-37.5%
HENRY HUB FINANCIAL LAST	ECNG	12,609	0	-	4,308	192.7%	22,967	0	-
HO 1 MONTH CLNDR OPTIONS	FA	2,550	0	0.0%	1,500	70.0%	10,525	200	5,162.5%
LLS CRUDE OIL	HTO	0	0	-	0	0.0%	1,200	0	-
LLS CRUDE OIL	WTO	0	1,800	-100.0%	0	0.0%	4,500	1,800	150.0%
MCCLOSKEY ARA ARGS COAL	MTO	0	0	0.0%	0	0.0%	0	540	-100.0%
MCCLOSKEY RCH BAY COAL	MFO	0	0	0.0%	0	-	0	0	0.0%

## NYMEX/COMEX Exchange Volume Report - Monthly

Commodity		VOLUME DEC 2022	VOLUME DEC 2021	% CHG	VOLUME NOV 2022	% CHG	VOLUME Y.T.D 2022	VOLUME Y.T.D 2021	% CHG
<b>Energy Options</b>									
NATURAL GAS	LN1	0	0	-	150	-100.0%	847	0	-
NATURAL GAS	LN2	0	0	-	0	0.0%	1,502	0	-
NATURAL GAS	LN3	0	0	-	0	0.0%	1,072	0	-
NATURAL GAS	LN4	0	0	-	0	0.0%	1,517	0	-
NATURAL GAS	LN5	0	0	-	0	0.0%	5	0	-
NATURAL GAS 1 M CSO FIN	G4	136,960	98,593	38.9%	77,350	77.1%	1,111,981	745,621	49.1%
NATURAL GAS 2 M CSO FIN	G2	0	8,250	-100.0%	0	0.0%	14,100	38,500	-63.4%
NATURAL GAS 3 M CSO FIN	G3	650	0	0.0%	3,250	-80.0%	355,190	247,994	43.2%
NATURAL GAS 5 M CSO FIN	G5	0	169	-100.0%	2,000	-100.0%	48,250	18,819	156.4%
NATURAL GAS 6 M CSO FIN	G6	10,250	12,650	-19.0%	12,375	-17.2%	113,525	127,600	-11.0%
NATURAL GAS OPT	JFO	0	0	-	0	0.0%	450	0	-
NATURAL GAS OPT	JKO	0	1,800	-100.0%	850	-100.0%	6,450	23,360	-72.4%
NATURAL GAS OPT	TFO	0	0	0.0%	0	0.0%	700	153,770	-99.5%
NATURAL GAS OPTION ON CALENDAR STRP	6J	0	530	-100.0%	0	0.0%	600	63,850	-99.1%
NATURAL GAS PHY	KD	1,950	475	310.5%	400	387.5%	16,980	21,210	-19.9%
NATURAL GAS PHY	LN	2,057,164	1,278,571	60.9%	1,877,430	9.6%	23,906,492	23,727,461	0.8%
NATURAL GAS PHY	ON	62,879	78,147	-19.5%	64,187	-2.0%	970,874	1,043,355	-6.9%
NATURAL GAS SUMMER STRIP	4D	0	0	0.0%	0	0.0%	0	0	0.0%
NATURAL GAS WINTER STRIP	6I	0	0	0.0%	0	-	0	0	0.0%
N ROCKIES PIPE SWAP	ZR	0	0	0.0%	0	-	0	0	0.0%
NY HARBOR HEAT OIL SWP	AT	2,806	627	347.5%	2,543	10.3%	25,294	12,632	100.2%
PETROCHEMICALS	4H	900	420	114.3%	0	0.0%	4,214	10,322	-59.2%
PETROCHEMICALS	4J	0	80	-100.0%	0	0.0%	0	1,395	-100.0%
PETROCHEMICALS	4K	0	0	0.0%	0	0.0%	0	0	0.0%
PETROCHEMICALS	CPR	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%
PETRO OUTRIGHT NA	1N5	0	0	0.0%	0	-	0	0	0.0%
PETRO OUTRIGHT NA	DAP	0	210	-100.0%	0	0.0%	375	1,620	-76.9%
PJM WES HUB PEAK CAL MTH	6OA	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%
RBOB 1MO CAL SPD OPTIONS	ZA	0	0	-	250	-100.0%	3,600	0	-
RBOB CALENDAR SWAP	RA	0	0	0.0%	20	-100.0%	3,605	1,274	183.0%
RBOB PHY	OB	1,109	3,074	-63.9%	2,114	-47.5%	42,607	85,187	-50.0%
RBOB PHY	RF	0	30	-100.0%	30	-100.0%	1,540	510	202.0%
SAN JUAN PIPE SWAP	PJ	0	0	0.0%	0	-	0	0	0.0%

## NYMEX/COMEX Exchange Volume Report - Monthly

Commodity		VOLUME DEC 2022	VOLUME DEC 2021	% CHG	VOLUME NOV 2022	% CHG	VOLUME Y.T.D 2022	VOLUME Y.T.D 2021	% CHG
<b>Energy Options</b>									
SHORT TERM	U11	0	0	0.0%	100	-100.0%	400	50	700.0%
SHORT TERM	U12	200	0	0.0%	0	0.0%	750	150	400.0%
SHORT TERM	U13	0	350	-100.0%	0	0.0%	100	550	-81.8%
SHORT TERM	U14	0	50	-100.0%	0	0.0%	500	350	42.9%
SHORT TERM	U15	0	0	0.0%	0	0.0%	50	350	-85.7%
SHORT TERM	U22	0	100	-100.0%	0	0.0%	350	100	250.0%
SHORT TERM	U23	0	0	0.0%	0	-	0	0	0.0%
SHORT TERM	U24	0	0	0.0%	0	0.0%	100	100	0.0%
SHORT TERM	U25	0	0	0.0%	0	0.0%	400	300	33.3%
SHORT TERM	U26	0	0	0.0%	0	0.0%	200	75	166.7%
SHORT TERM NATURAL GAS	U01	0	0	0.0%	0	0.0%	250	275	-9.1%
SHORT TERM NATURAL GAS	U02	0	0	0.0%	0	0.0%	0	650	-100.0%
SHORT TERM NATURAL GAS	U03	0	50	-100.0%	0	0.0%	0	150	-100.0%
SHORT TERM NATURAL GAS	U04	0	0	0.0%	0	0.0%	950	550	72.7%
SHORT TERM NATURAL GAS	U05	200	0	0.0%	0	0.0%	700	200	250.0%
SHORT TERM NATURAL GAS	U06	0	0	0.0%	0	0.0%	550	800	-31.3%
SHORT TERM NATURAL GAS	U07	0	0	0.0%	0	0.0%	925	325	184.6%
SHORT TERM NATURAL GAS	U08	0	0	0.0%	0	0.0%	200	50	300.0%
SHORT TERM NATURAL GAS	U09	100	0	0.0%	0	0.0%	100	300	-66.7%
SHORT TERM NATURAL GAS	U10	0	50	-100.0%	500	-100.0%	700	150	366.7%
SHORT TERM NATURAL GAS	U16	0	0	0.0%	0	0.0%	0	75	-100.0%
SHORT TERM NATURAL GAS	U17	0	0	0.0%	0	0.0%	0	150	-100.0%
SHORT TERM NATURAL GAS	U18	0	0	0.0%	0	0.0%	350	100	250.0%
SHORT TERM NATURAL GAS	U19	0	0	0.0%	0	0.0%	600	0	0.0%
SHORT TERM NATURAL GAS	U20	0	0	0.0%	0	0.0%	250	300	-16.7%
SHORT TERM NATURAL GAS	U21	200	0	0.0%	0	0.0%	1,150	300	283.3%
SHORT TERM NATURAL GAS	U27	0	0	0.0%	0	0.0%	0	50	-100.0%
SHORT TERM NATURAL GAS	U28	0	0	0.0%	0	0.0%	350	100	250.0%
SHORT TERM NATURAL GAS	U29	0	0	0.0%	150	-100.0%	150	50	200.0%
SHORT TERM NATURAL GAS	U30	0	0	0.0%	0	0.0%	100	250	-60.0%
SHORT TERM NATURAL GAS	U31	0	0	0.0%	0	0.0%	200	0	0.0%
WTI-BRENT BULLET SWAP	BV	9,750	54,825	-82.2%	12,400	-21.4%	385,745	390,750	-1.3%
WTI CRUDE OIL 1 M CSO FI	7A	110,575	11,450	865.7%	74,350	48.7%	740,925	758,235	-2.3%



## NYMEX/COMEX Exchange Volume Report - Monthly

Commodity		VOLUME DEC 2022	VOLUME DEC 2021	% CHG	VOLUME NOV 2022	% CHG	VOLUME Y.T.D 2022	VOLUME Y.T.D 2021	% CHG
<b>Metals Futures</b>									
COMEX GOLD	GC	3,254,906	3,073,611	5.9%	5,419,185	-39.9%	54,261,767	58,464,997	-7.2%
NYMEX HOT ROLLED STEEL	HR	19,869	19,761	0.5%	18,556	7.1%	260,885	246,817	5.7%
NYMEX PLATINUM	PL	541,880	445,429	21.7%	433,587	25.0%	5,177,063	4,450,863	16.3%
PALLADIUM	PA	42,916	37,373	14.8%	77,831	-44.9%	571,034	604,582	-5.5%
URANIUM	UX	0	0	0.0%	0	0.0%	24	1,183	-98.0%
COMEX SILVER	SI	1,123,729	1,008,147	11.5%	1,849,022	-39.2%	17,076,680	19,669,534	-13.2%
COMEX E-Mini GOLD	QO	26,372	16,417	60.6%	48,013	-45.1%	394,418	269,903	46.1%
COMEX E-Mini SILVER	QI	4,252	3,111	36.7%	4,568	-6.9%	47,184	67,532	-30.1%
COMEX COPPER	HG	1,285,682	1,162,290	10.6%	2,498,607	-48.5%	21,538,760	24,584,525	-12.4%
COMEX MINY COPPER	QC	2,111	3,743	-43.6%	4,581	-53.9%	41,645	59,580	-30.1%
ALUMINUM	A38	0	0	0.0%	0	0.0%	0	174	-100.0%
ALUMINUM	AEP	2,211	4,418	-50.0%	3,687	-40.0%	23,380	35,266	-33.7%
ALUMINUM	ALA	60	120	-50.0%	45	33.3%	2,030	3,825	-46.9%
ALUMINUM	ALI	53,547	15,186	252.6%	44,688	19.8%	419,430	145,189	188.9%
ALUMINUM	AUP	6,399	11,542	-44.6%	7,524	-15.0%	85,142	84,966	0.2%
ALUMINUM	CUP	0	0	0.0%	0	-	0	0	0.0%
ALUMINUM	EDP	4,841	6,966	-30.5%	4,292	12.8%	61,215	46,528	31.6%
ALUMINUM	MJP	0	2,412	-100.0%	100	-100.0%	3,200	7,574	-57.8%
COBALT METAL FUTURES	COB	3,129	175	1,688.0%	2,987	4.8%	17,119	3,397	403.9%
COPPER	HGS	3,498	3,311	5.6%	1,633	114.2%	21,429	27,349	-21.6%
COPPER	MHG	54,573	0	-	91,994	-40.7%	563,707	0	-
FERROUS PRODUCTS	BUS	3,922	810	384.2%	4,524	-13.3%	34,505	16,878	104.4%
GOLD	4GC	0	0	0.0%	0	0.0%	0	116	-100.0%
GOLD	SGC	106	1,851	-94.3%	243	-56.4%	7,992	19,314	-58.6%
GOLD	SGU	113	12,237	-99.1%	550	-79.5%	53,552	84,995	-37.0%
HOT ROLLED COIL STEEL FUTURES	EHR	4,968	1,341	270.5%	5,102	-2.6%	45,735	14,036	225.8%
IRON ORE 62 CHINA TSI FUTURES	TIO	0	0	0.0%	0	-	0	0	0.0%
IRON ORE CHINA	TIO	740	715	3.5%	752	-1.6%	14,905	11,731	27.1%
METALS	HDG	5	0	0.0%	15	-66.7%	672	143	369.9%
METALS	LTH	319	3	10,533.3%	91	250.5%	468	13	3,500.0%
METALS	PAC	0	0	-	0	0.0%	1,300	0	-
MICRO GOLD	MGC	839,181	730,417	14.9%	1,020,946	-17.8%	12,541,039	13,924,959	-9.9%
SILVER	SIL	180,078	96,084	87.4%	199,205	-9.6%	1,999,924	2,197,275	-9.0%

### Metals Options

## NYMEX/COMEX Exchange Volume Report - Monthly

Commodity		VOLUME DEC 2022	VOLUME DEC 2021	% CHG	VOLUME NOV 2022	% CHG	VOLUME Y.T.D 2022	VOLUME Y.T.D 2021	% CHG
<b>Metals Options</b>									
ALUMINUM	ALO	0	0	0.0%	0	0.0%	0	2,250	-100.0%
ALUMINUM	AX	460	0	-	482	-4.6%	1,697	0	-
COMEX COPPER	HX	92,487	34,882	165.1%	126,171	-26.7%	1,058,956	748,743	41.4%
COMEX GOLD	ECGC	5,527	0	-	5,944	-7.0%	16,131	0	-
COMEX GOLD	OG	571,256	454,979	25.6%	799,672	-28.6%	9,835,445	8,310,194	18.4%
COMEX SILVER	ECSI	2,854	0	-	2,349	21.5%	10,666	0	-
COMEX SILVER	SO	143,064	83,339	71.7%	178,438	-19.8%	1,451,603	1,761,760	-17.6%
COPPER	ECHG	2,351	0	-	1,811	29.8%	7,586	0	-
COPPER	H1E	868	0	0.0%	494	75.7%	3,419	85	3,922.4%
COPPER	H1M	40	0	-	564	-92.9%	1,624	0	-
COPPER	H1W	109	0	-	90	21.1%	1,440	0	-
COPPER	H2E	275	15	1,733.3%	700	-60.7%	3,397	113	2,906.2%
COPPER	H2M	439	0	-	232	89.2%	1,394	0	-
COPPER	H2W	195	0	-	209	-6.7%	903	0	-
COPPER	H3E	219	63	247.6%	366	-40.2%	2,708	131	1,967.2%
COPPER	H3M	94	0	-	46	104.3%	891	0	-
COPPER	H3W	93	0	-	52	78.8%	516	0	-
COPPER	H4E	273	18	1,416.7%	372	-26.6%	3,140	178	1,664.0%
COPPER	H4M	109	0	-	79	38.0%	591	0	-
COPPER	H4W	244	0	-	46	430.4%	889	0	-
COPPER	H5E	1,187	1	118,600.0%	0	0.0%	1,897	8	23,612.5%
COPPER	H5M	95	0	-	0	0.0%	455	0	-
COPPER	H5W	0	0	-	253	-100.0%	966	0	-
GOLD	G1M	5,016	0	-	6,740	-25.6%	37,269	0	-
GOLD	G1W	14,705	0	-	4,399	234.3%	65,252	0	-
GOLD	G2M	11,262	0	-	8,884	26.8%	53,978	0	-
GOLD	G2W	15,270	0	-	8,401	81.8%	59,196	0	-
GOLD	G3M	10,018	0	-	4,959	102.0%	39,265	0	-
GOLD	G3W	7,468	0	-	10,702	-30.2%	57,892	0	-
GOLD	G4M	1,779	0	-	4,719	-62.3%	25,024	0	-
GOLD	G4W	3,660	0	-	4,489	-18.5%	30,819	0	-
GOLD	G5M	1,227	0	-	0	0.0%	9,691	0	-
GOLD	G5W	0	0	-	8,936	-100.0%	22,942	0	-
GOLD	OG1	37,604	20,339	84.9%	55,968	-32.8%	548,432	505,991	8.4%
GOLD	OG2	43,718	32,242	35.6%	54,569	-19.9%	546,231	519,410	5.2%

## NYMEX/COMEX Exchange Volume Report - Monthly

Commodity		VOLUME DEC 2022	VOLUME DEC 2021	% CHG	VOLUME NOV 2022	% CHG	VOLUME Y.T.D 2022	VOLUME Y.T.D 2021	% CHG
<b>Metals Options</b>									
GOLD	OG3	74,571	37,735	97.6%	36,871	102.2%	580,856	508,626	14.2%
GOLD	OG4	24,674	25,583	-3.6%	18,861	30.8%	432,355	352,749	22.6%
GOLD	OG5	21,549	20,464	5.3%	0	0.0%	139,154	144,066	-3.4%
HOT ROLLED COIL STEEL CALL OPTION	HRO	0	0	0.0%	0	-	0	0	0.0%
HOT ROLLED COIL STEEL PUT OPTION	HRO	0	0	0.0%	0	-	0	0	0.0%
IRON ORE 62 CHINA TSI CALL OPTION	ICT	0	0	0.0%	0	-	0	0	0.0%
IRON ORE 62 CHINA TSI PUT OPTION	ICT	0	0	0.0%	0	-	0	0	0.0%
IRON ORE CHINA	ICT	0	100	-100.0%	0	0.0%	300	6,298	-95.2%
NYMEX HOT ROLLED STEEL	HRO	725	1,055	-31.3%	2,025	-64.2%	18,790	4,855	287.0%
NYMEX PLATINUM	PO	847	1,533	-44.7%	2,982	-71.6%	52,331	34,803	50.4%
PALLADIUM	PAO	122	156	-21.8%	3	3,966.7%	260	6,786	-96.2%
SILVER	M1S	584	0	-	4,949	-88.2%	6,740	0	-
SILVER	M2S	1,533	0	-	936	63.8%	5,924	0	-
SILVER	M3S	474	0	-	156	203.8%	2,410	0	-
SILVER	M4S	219	0	-	508	-56.9%	2,714	0	-
SILVER	M5S	65	0	-	0	0.0%	609	0	-
SILVER	SO1	8,981	2,910	208.6%	16,642	-46.0%	72,452	39,611	82.9%
SILVER	SO2	7,302	3,647	100.2%	10,091	-27.6%	67,595	43,865	54.1%
SILVER	SO3	6,209	3,590	73.0%	7,635	-18.7%	56,460	36,099	56.4%
SILVER	SO4	4,140	2,909	42.3%	2,882	43.7%	41,565	25,530	62.8%
SILVER	SO5	6,567	2,653	147.5%	0	0.0%	15,796	11,483	37.6%
SILVER	W1S	1,477	0	-	416	255.0%	5,077	0	-
SILVER	W2S	867	0	-	1,921	-54.9%	5,264	0	-
SILVER	W3S	739	0	-	589	25.5%	3,364	0	-
SILVER	W4S	315	0	-	260	21.2%	1,235	0	-
SILVER	W5S	0	0	-	712	-100.0%	1,468	0	-
<b>TOTAL FUTURES GROUP</b>									
Ag Products Futures		0	0	0.0%	0	0.0%	0	2	-100.0%
Energy Futures		33,144,983	36,475,145	-9.1%	34,793,519	-4.7%	448,015,792	489,838,213	-8.5%
Metals Futures		7,459,407	6,657,470	12.0%	11,742,328	-36.5%	115,266,204	125,043,244	-7.8%
<b>TOTAL FUTURES</b>		<b>40,604,390</b>	<b>43,132,615</b>	<b>-5.9%</b>	<b>46,535,847</b>	<b>-12.7%</b>	<b>563,281,996</b>	<b>614,881,459</b>	<b>-8.4%</b>



## NYMEX/COMEX Exchange Volume Report - Monthly

Commodity	VOLUME DEC 2022	VOLUME DEC 2021	% CHG	VOIUME NOV 2022	% CHG	VOLUME Y.T.D 2022	VOLUME Y.T.D 2021	% CHG
<b>TOTAL OPTIONS GROUP</b>								
Energy Options	4,414,817	4,287,891	3.0%	5,251,115	-15.9%	60,372,771	61,401,307	-1.7%
Metals Options	1,135,926	728,213	56.0%	1,399,575	-18.8%	15,415,024	13,063,634	18.0%
<b>TOTAL OPTIONS</b>	<b>5,550,743</b>	<b>5,016,104</b>	<b>10.7%</b>	<b>6,650,690</b>	<b>-16.5%</b>	<b>75,787,795</b>	<b>74,464,941</b>	<b>1.8%</b>
<b>TOTAL COMBINED</b>								
Ag Products	0	0	0.0%	0	-	0	2	-100.0%
Energy	37,559,800	40,763,036	-7.9%	40,044,634	-6.2%	508,388,563	551,239,520	-7.8%
Metals	8,595,333	7,385,683	16.4%	13,141,903	-34.6%	130,681,228	138,106,878	-5.4%
<b>GRAND TOTAL</b>	<b>46,155,133</b>	<b>48,148,719</b>	<b>-4.1%</b>	<b>53,186,537</b>	<b>-13.2%</b>	<b>639,069,791</b>	<b>689,346,400</b>	<b>-7.3%</b>