

## NYMEX/COMEX Exchange Open Interest Report - Monthly

	Commodity	Open Interest NOV 2023	Open Interest NOV 2022	% CHG	Open Interest OCT 2023	% CHG
<b>Ag Products Futures</b>						
COFFEE	KT	0	0	-	0	-
<b>Energy Futures</b>						
CRUDE OIL PHY	CL	1,649,235	1,420,782	16.1%	1,671,255	-1.3%
CRUDE OIL	WS	0	0	-	0	-
MINY WTI CRUDE OIL	QM	4,951	7,233	-31.5%	4,532	9.2%
BRENT OIL LAST DAY	BZ	149,745	155,569	-3.7%	139,933	7.0%
HEATING OIL PHY	HO	301,140	270,970	11.1%	299,928	0.4%
HTG OIL	BH	96	108	-11.1%	105	-8.6%
MINY HTG OIL	QH	2	1	100.0%	1	100.0%
RBOB PHY	RB	335,983	247,779	35.6%	314,818	6.7%
MINY RBOB GAS	QU	0	1	-100.0%	1	-100.0%
NATURAL GAS	HP	176,410	186,302	-5.3%	170,862	3.2%
LTD NAT GAS	HH	365,049	360,363	1.3%	349,700	4.4%
MINY NATURAL GAS	QG	9,189	6,932	32.6%	5,769	59.3%
NATURAL GAS PHY	NG	1,332,157	990,271	34.5%	1,186,140	12.3%
RBOB GAS	RT	72	72	0.0%	78	-7.7%
AEP-DAYTON HUB DAILY	VD	0	10	-100.0%	0	-
ARGUS LLS VS. WTI (ARG) T	E5	4,950	6,200	-20.2%	4,810	2.9%
ARGUS PROPAN FAR EST INDE	7E	7,819	5,478	42.7%	8,048	-2.8%
ARGUS PROPAN(SAUDI ARAMCO	9N	2,663	2,040	30.5%	2,601	2.4%
BRENT BALMO SWAP	J9	0	0	-	0	-
BRENT CALENDAR SWAP	CY	20,783	36,409	-42.9%	22,440	-7.4%
BRENT FINANCIAL FUTURES	BB	0	0	-	0	-
BRENT FINANCIAL FUTURES	MBC	220	10	2,100.0%	220	0.0%
BRENT FINANCIAL FUTURES	MDB	0	0	-	0	-
BRENT OIL LAST DAY	BZL	0	0	0.0%	0	0.0%
BRENT OIL LAST DAY	BZS	0	0	0.0%	0	0.0%
CAR VINTAGE	GEO	7,103	12,500	-43.2%	11,745	-39.5%
CAR VINTAGE	NGO	8,279	15,196	-45.5%	10,214	-18.9%
CEU ENERGY	TFU	0	0	-	0	-
CEU ENERGY	TTG	332	0	-	107	210.3%
CHICAGO ETHANOL SWAP	CU	35,606	25,765	38.2%	41,645	-14.5%
CHICAGO ULSD PL VS HO SPR	5C	1,246	1,249	-0.2%	1,905	-34.6%
CHICAGO UNL GAS PL VS RBO	3C	300	0	-	0	-
CONWAY NATURAL GASOLINE (OPIS) SWAP	8L	362	838	-56.8%	361	0.3%
CONWAY NORMAL BUTANE (OPIS) SWAP	8M	2,811	1,384	103.1%	3,164	-11.2%
CONWAY PROPANE 5 DECIMALS SWAP	8K	27,973	29,147	-4.0%	29,672	-5.7%
CRUDE OIL	LPS	0	0	-	0	-
CRUDE OIL LAST DAY	26	0	0	-	300	-100.0%
CRUDE OIL OUTRIGHTS	42	590	524	12.6%	56	953.6%
CRUDE OIL OUTRIGHTS	CC5	0	165	-100.0%	0	-
CRUDE OIL OUTRIGHTS	CSW	0	0	-	0	-
CRUDE OIL OUTRIGHTS	GSW	0	0	0.0%	0	-
CRUDE OIL OUTRIGHTS	HTT	277,951	139,819	98.8%	288,500	-3.7%
CRUDE OIL OUTRIGHTS	LSW	0	120	-100.0%	0	-
CRUDE OIL OUTRIGHTS	WCW	0	0	-	0	-
CRUDE OIL PHY	CLL	0	0	0.0%	0	0.0%
CRUDE OIL PHY	HCL	0	0	-	0	-
CRUDE OIL PHY	MCL	22,883	70,387	-67.5%	21,920	4.4%
CRUDE OIL SPRDS	ANT	998	360	177.2%	1,745	-42.8%

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<b>Energy Futures</b>						
CRUDE OIL SPRDS	BKT	0	0	-	150	-100.0%
CRUDE OIL SPRDS	HIL	0	1,040	-100.0%	0	-
CRUDE OIL SPRDS	WTT	213,936	133,951	59.7%	211,677	1.1%
CRUDE OIL TRADE AT MARKER SINGAPORE	CLS	0	0	0.0%	0	0.0%
DAILY PJM	AOR	0	600	-100.0%	0	-
DAILY PJM	IDO	0	0	-	0	-
DAILY PJM	NOC	0	0	-	0	-
DAILY PJM	PAP	0	0	-	0	-
DAILY PJM	PEO	0	0	-	0	-
DAILY PJM	PWO	0	0	-	0	-
DAILY PJM	PWP	0	0	-	0	-
DAILY PJM	WOR	0	5,400	-100.0%	0	-
DAILY PJM	ZAO	0	0	-	0	-
DAILY PJM	ZGO	0	0	-	0	-
DAILY PJM	ZJO	0	0	-	0	-
DATED TO FRONTLINE BRENT	FY	370	2,270	-83.7%	555	-33.3%
DIESEL 10P BRG FOB RDM VS	7X	0	0	-	0	-
DOMINION TRANSMISSION INC	PG	0	0	-	0	-
DUBAI CRUDE OIL CALENDAR	DC	1,300	500	160.0%	1,700	-23.5%
DUTCH TTF NATURAL GAS CAL MONTH FUT	TTF	5,178	3,255	59.1%	9,087	-43.0%
EAST/WEST FUEL OIL SPREAD	EW	0	0	-	0	-
EIA FLAT TAX ONHWAY DIESE	A5	1,816	1,590	14.2%	1,872	-3.0%
ELEC FINSETTLED	47	0	0	-	0	-
ELECTRICITY OFF PEAK	46	0	0	-	0	-
EMMISSIONS	CGO	73	111	-34.2%	121	-39.7%
ETHANOL	MTH	0	0	-	0	-
ETHANOL	Z1B	0	0	-	0	-
ETHANOL SWAP	MT2	495	505	-2.0%	735	-32.7%
ETHANOL T2 FOB ROTT INCL DUTY SWAP	Z1	9,123	6,329	44.1%	8,588	6.2%
EURO 3.5% FUEL OIL RDAM B	KR	0	0	-	0	-
EURO GASOIL 10 CAL SWAP	GT	0	3	-100.0%	0	-
EURO GASOIL 10PPM VS ICE	ET	60	442	-86.4%	90	-33.3%
EUROPE 1% FUEL OIL NWE CA	UF	0	10	-100.0%	0	-
EUROPE 3.5% FUEL OIL MED	UI	0	0	-	0	-
EUROPE 3.5% FUEL OIL RDAM	UV	86	110	-21.8%	76	13.2%
EUROPEAN GASOIL (ICE)	7F	244	1,593	-84.7%	266	-8.3%
EUROPEAN NAPHTHA BALMO	KZ	0	30	-100.0%	0	-
EUROPEAN NAPHTHA CRACK SPR	EN	7,078	3,417	107.1%	7,812	-9.4%
EUROPE DATED BRENT SWAP	UB	0	0	-	0	-
EUROPE JET KERO NWE CALSW	UJ	0	0	-	0	-
EUROPE NAPHTHA CALSWAP	UN	1,648	695	137.1%	1,515	8.8%
EURO PROPANE CIF ARA SWA	PS	2,865	3,167	-9.5%	2,955	-3.0%
FREIGHT MARKETS	BF2	0	0	-	0	-
FREIGHT MARKETS	BL2	952	1,152	-17.4%	258	269.0%
FREIGHT MARKETS	CS3	0	0	-	0	-
FREIGHT MARKETS	CS4	20	120	-83.3%	30	-33.3%
FREIGHT MARKETS	FLJ	36	0	-	36	0.0%
FREIGHT MARKETS	FLP	43	114	-62.3%	54	-20.4%
FREIGHT MARKETS	FRC	0	34	-100.0%	0	-
FREIGHT MARKETS	T2D	6	123	-95.1%	9	-33.3%
FREIGHT MARKETS	T8C	0	0	-	0	-
FREIGHT MARKETS	TC6	0	0	-	0	-

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FREIGHT MARKETS	TD3	0	0	-	0	-
FREIGHT MARKETS	USE	0	0	-	0	-
FUEL OIL CRACK VS ICE	FO	6	189	-96.8%	9	-33.3%
FUEL OIL NWE CRACK VS ICE	FI	20	30	-33.3%	30	-33.3%
FUELOIL SWAP:CARGOES VS.B	FS	0	0	-	0	-
GAS EURO-BOB OXY NWE BARGES	7H	817	294	177.9%	967	-15.5%
GAS EURO-BOB OXY NWE BARGES CRK	7K	6,077	5,526	10.0%	6,548	-7.2%
GASOIL 0.1CIF MED VS ICE	Z5	0	10	-100.0%	0	-
GASOIL 0.1 RDAM BRGS VS I	WQ	0	0	-	0	-
GASOIL 0.1 ROTTERDAM BARG	VL	1	18	-94.4%	1	0.0%
GASOIL 10PPM VS ICE SWAP	TP	12	12	0.0%	12	0.0%
GASOIL CALENDAR SWAP	GX	66	140	-52.9%	59	11.9%
GASOIL CRACK SPREAD CALEN	GZ	560	1,050	-46.7%	420	33.3%
GASOIL MINI CALENDAR SWAP	QA	556	476	16.8%	499	11.4%
GERMAN POWER BASELOAD CAL MONTH FUT	DEB	0	36	-100.0%	0	-
GRP THREE ULSD(PLT)VS HEA	A6	4,936	5,739	-14.0%	5,597	-11.8%
GRP THREE UNL GS (PLT) VS	A8	4,298	2,370	81.4%	4,751	-9.5%
GULF COAST 3% FUEL OIL BA	VZ	0	0	-	0	-
GULF COAST JET FUEL CLNDR	GE	0	0	-	0	-
GULF COAST JET VS NYM 2 H	ME	11,061	8,160	35.6%	13,097	-15.5%
GULF COAST NO.6 FUEL OIL	MF	2,268	8,604	-73.6%	2,946	-23.0%
GULF COAST NO.6 FUEL OIL	MG	18,271	10,158	79.9%	16,149	13.1%
GULF COAST ULSD CALENDAR	LY	1,878	1,581	18.8%	1,939	-3.1%
GULF COAST ULSD CRACK SPR	GY	0	0	-	0	-
HEATING OIL BALMO CLNDR S	1G	200	20	900.0%	79	153.2%
HEATING OIL CRCK SPRD BAL	1H	0	0	-	0	-
HEATING OIL PHY	HOL	0	0	0.0%	0	0.0%
HEATING OIL PHY	MHO	0	13	-100.0%	0	-
HENRY HUB SWAP	NN	395,178	427,739	-7.6%	402,862	-1.9%
HOUSTON SHIP CHANNEL BASI	NH	0	0	-	0	-
ICE BRENT DUBAI SWAP	DB	0	580	-100.0%	75	-100.0%
ICE GASOIL BALMO SWAP	U9	0	0	-	0	-
INDIANA MISO	FTD	0	0	-	0	-
INDIANA MISO	PTD	0	0	-	0	-
INDONESIAN COAL ICI4	ICI	0	0	-	0	-
JAPAN C&F NAPHTHA CRACK S	JB	5	4	25.0%	5	0.0%
JAPAN C&F NAPHTHA SWAP	JA	528	312	69.2%	608	-13.2%
JAPAN NAPHTHA BALMO SWAP	E6	0	0	-	0	-
JET CIF NWE VS ICE	JC	240	655	-63.4%	252	-4.8%
JET FUEL UP-DOWN BALMO CL	1M	200	125	60.0%	1,325	-84.9%
JKM LNG Futures	JKM	0	1,141	-100.0%	30	-100.0%
LA CARB DIESEL (OPIS) SWA	KL	291	311	-6.4%	240	21.3%
LA CARBOB GASOLINE(OPIS)S	JL	0	0	-	0	-
LA JET (OPIS) SWAP	JS	450	75	500.0%	825	-45.5%
LLS (ARGUS) CALENDAR SWAP	XA	0	0	-	0	-
LLS (ARGUS) VS WTI SWAP	WJ	354	1,598	-77.8%	411	-13.9%
MARS (ARGUS) VS WTI SWAP	YX	0	250	-100.0%	0	-
MARS (ARGUS) VS WTI TRD M	YV	3,540	11,759	-69.9%	4,427	-20.0%
MCCLOSKEY ARA ARGS COAL	MTF	5,967	8,108	-26.4%	6,300	-5.3%
MCCLOSKEY RCH BAY COAL	MFF	22	225	-90.2%	66	-66.7%
MGN1 SWAP FUT	MGN	0	0	-	0	-
MINI GAS EUROBOB OXY NWE ARGS BALMO	MEB	0	0	-	0	-

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<b>Energy Futures</b>						
MINI RBOB V. EBOBARG NWE BRGS BALMO	MXR	0	0	-	0	-
MINI RBOB V. EBOB(ARGUS) NWE BRGS	MXB	291	340	-14.4%	309	-5.8%
MJC FUT	MJC	60	0	-	60	0.0%
MNC FUT	MNC	1,446	2,265	-36.2%	1,347	7.3%
MONT BELVIEU ETHANE 5 DECIMAL	C0	52,627	45,580	15.5%	51,684	1.8%
MONT BELVIEU ETHANE OPIS BALMO	8C	600	1,176	-49.0%	1,230	-51.2%
MONT BELVIEU LDH PROPANE 5 DECIMAL	B0	155,959	139,788	11.6%	160,450	-2.8%
MONT BELVIEU LDH PROPANE OPIS BALMO	8O	1,330	2,184	-39.1%	2,679	-50.4%
MONT BELVIEU NATURAL GASOLINE 5 DEC	7Q	30,789	35,640	-13.6%	32,095	-4.1%
MONT BELVIEU NATURAL GASOLINE BALMO	R0	739	2,163	-65.8%	590	25.3%
MONT BELVIEU NORMAL BUTANE 5 DECIMAL	D0	62,578	56,718	10.3%	73,094	-14.4%
MONT BELVIEU NORMAL BUTANE BALMO	8J	1,315	1,497	-12.2%	1,424	-7.7%
NATURAL GAS	NWM	0	305	-100.0%	0	-
NATURAL GAS PEN SWP	NP	128,213	179,168	-28.4%	127,608	0.5%
NATURAL GAS PHY	MNG	13,979	0	-	0	-
NEPOOL INTR HUB 5MW D AH	H2	0	0	-	0	-
NEPOOL INTR HUB 5MW D AH	U6	0	0	-	0	-
NEW ENGLAND HUB PEAK DAIL	CE	0	0	-	0	-
NEW YORK ETHANOL SWAP	EZ	800	985	-18.8%	605	32.2%
NEW YORK HUB ZONE G PEAK	GN	0	800	-100.0%	0	-
NEW YORK HUB ZONE J PEAK	JN	0	0	-	0	-
N ILLINOIS HUB DAILY	UD	0	0	-	0	-
NY1% VS GC SPREAD SWAP	VR	0	0	-	0	-
NY HARBOR 1% FUEL OIL BAL	VK	0	0	-	0	-
NY HARBOR HEAT OIL SWP	MP	10,731	9,910	8.3%	10,857	-1.2%
NY HARBOR LOW SULPUR GAS 1000MBBL	NLS	0	100	-100.0%	0	-
NY HARBOR RESIDUAL FUEL 1	MM	0	175	-100.0%	0	-
NYH NO 2 CRACK SPREAD CAL	HK	19,634	7,278	169.8%	20,359	-3.6%
NYISO CAPACITY	LHV	0	0	-	0	-
NYISO ZONE G 5MW D AH O P	D2	0	0	-	0	-
NYISO ZONE G 5MW D AH PK	T3	0	0	0.0%	0	-
NY ULSD (ARGUS) VS HEATING OIL	7Y	2,883	3,364	-14.3%	3,256	-11.5%
PANHANDLE BASIS SWAP FUTU	PH	0	0	-	0	-
PETROCHEMICALS	22	111	118	-5.9%	122	-9.0%
PETROCHEMICALS	32	56	94	-40.4%	116	-51.7%
PETROCHEMICALS	3NA	128	108	18.5%	153	-16.3%
PETROCHEMICALS	51	45	2	2,150.0%	45	0.0%
PETROCHEMICALS	81	10	60	-83.3%	15	-33.3%
PETROCHEMICALS	8I	4,317	5,335	-19.1%	4,723	-8.6%
PETROCHEMICALS	91	1,064	789	34.9%	1,103	-3.5%
PETROCHEMICALS	MAA	0	20	-100.0%	0	-
PETROCHEMICALS	MAE	2,720	2,349	15.8%	2,530	7.5%
PETROCHEMICALS	MAS	953	545	74.9%	974	-2.2%
PETROCHEMICALS	MBE	0	60	-100.0%	0	-
PETROCHEMICALS	MNB	0	0	-	0	-
PETROCHEMICALS	MPS	3,224	1,844	74.8%	3,206	0.6%
PETROCHEMICALS	PMF	39	2	1,850.0%	45	-13.3%
PETRO CRCKS & SPRDS ASIA	STR	0	0	-	0	-
PETRO CRCKS & SPRDS ASIA	STS	0	0	-	0	-
PETRO CRCKS & SPRDS NA	CRB	16,505	12,501	32.0%	16,283	1.4%
PETRO CRCKS & SPRDS NA	EXR	1,484	469	216.4%	1,270	16.9%
PETRO CRCKS & SPRDS NA	FOC	0	0	-	0	-

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Energy Futures						
PETRO CRCKS & SPRDS NA	GBB	25	0	-	0	-
PETRO CRCKS & SPRDS NA	GCI	250	0	-	375	-33.3%
PETRO CRCKS & SPRDS NA	GCU	906	0	-	558	62.4%
PETRO CRCKS & SPRDS NA	GFC	0	0	-	35	-100.0%
PETRO CRCKS & SPRDS NA	HOB	1,300	442	194.1%	1,310	-0.8%
PETRO CRCKS & SPRDS NA	MFR	0	0	-	0	-
PETRO CRCKS & SPRDS NA	RBB	2,811	1,200	134.3%	2,001	40.5%
PETRO CRCKS & SPRDS NA	RVG	3,728	6,831	-45.4%	3,985	-6.4%
PETRO CRCKS & SPRDS NA	SF3	8	0	-	12	-33.3%
PETRO CRK&SPRD EURO	1NB	44	759	-94.2%	66	-33.3%
PETRO CRK&SPRD EURO	43	0	0	-	0	-
PETRO CRK&SPRD EURO	BOB	12	146	-91.8%	18	-33.3%
PETRO CRK&SPRD EURO	EOB	5	0	-	5	0.0%
PETRO CRK&SPRD EURO	EPN	960	1,033	-7.1%	1,005	-4.5%
PETRO CRK&SPRD EURO	EVC	150	40	275.0%	210	-28.6%
PETRO CRK&SPRD EURO	GOC	0	0	-	0	-
PETRO CRK&SPRD EURO	MGB	0	0	-	0	-
PETRO CRK&SPRD EURO	MUD	30	0	-	30	0.0%
PETRO CRK&SPRD EURO	NBB	0	0	-	0	-
PETRO CRK&SPRD EURO	NOB	555	328	69.2%	622	-10.8%
PETROLEUM PRODUCTS	1NM	0	0	-	0	-
PETROLEUM PRODUCTS	BEB	0	0	-	0	-
PETROLEUM PRODUCTS	BEF	0	0	-	0	-
PETROLEUM PRODUCTS	CMS	200	460	-56.5%	0	-
PETROLEUM PRODUCTS	EWG	146	1,004	-85.5%	168	-13.1%
PETROLEUM PRODUCTS	H5F	50	260	-80.8%	105	-52.4%
PETROLEUM PRODUCTS	JCC	4,846	8,502	-43.0%	5,992	-19.1%
PETROLEUM PRODUCTS	MPE	0	0	-	0	-
PETROLEUM PRODUCTS	R5E	0	0	-	0	-
PETROLEUM PRODUCTS	R5F	56	197	-71.6%	66	-15.2%
PETROLEUM PRODUCTS	S53	2	12	-83.3%	3	-33.3%
PETROLEUM PRODUCTS	UCS	0	0	-	0	-
PETROLEUM PRODUCTS	UP5	0	0	-	0	-
PETROLEUM PRODUCTS	VU	0	0	-	0	-
PETROLEUM PRODUCTS ASIA	E6M	0	0	-	0	-
PETROLEUM PRODUCTS ASIA	MJN	1,145	995	15.1%	1,323	-13.5%
PETRO OUTRIGHT EURO	0B	0	28	-100.0%	0	-
PETRO OUTRIGHT EURO	0C	0	0	-	0	-
PETRO OUTRIGHT EURO	0D	192	107	79.4%	165	16.4%
PETRO OUTRIGHT EURO	0E	0	0	-	0	-
PETRO OUTRIGHT EURO	0F	15	0	-	30	-50.0%
PETRO OUTRIGHT EURO	1T	0	0	-	0	-
PETRO OUTRIGHT EURO	5L	0	20	-100.0%	0	-
PETRO OUTRIGHT EURO	7I	0	0	-	0	-
PETRO OUTRIGHT EURO	7R	0	0	-	15	-100.0%
PETRO OUTRIGHT EURO	CBB	0	0	-	0	-
PETRO OUTRIGHT EURO	CGB	0	0	-	0	-
PETRO OUTRIGHT EURO	CPB	255	80	218.8%	85	200.0%
PETRO OUTRIGHT EURO	EFM	0	0	-	0	-
PETRO OUTRIGHT EURO	ENS	0	0	-	0	-
PETRO OUTRIGHT EURO	EWN	557	890	-37.4%	684	-18.6%
PETRO OUTRIGHT EURO	FLB	0	0	-	0	-

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Energy Futures						
PETRO OUTRIGHT EURO	H5G	0	0	-	0	-
PETRO OUTRIGHT EURO	JFB	0	0	-	0	-
PETRO OUTRIGHT EURO	M1B	1,347	1,549	-13.0%	1,376	-2.1%
PETRO OUTRIGHT EURO	MBB	0	0	-	60	-100.0%
PETRO OUTRIGHT EURO	MBN	2,883	1,990	44.9%	3,178	-9.3%
PETRO OUTRIGHT EURO	MEF	60	95	-36.8%	60	0.0%
PETRO OUTRIGHT EURO	MQA	387	40	867.5%	356	8.7%
PETRO OUTRIGHT EURO	R53	0	6	-100.0%	0	-
PETRO OUTRIGHT EURO	R5B	0	0	-	0	-
PETRO OUTRIGHT EURO	R5M	1,952	3,341	-41.6%	2,075	-5.9%
PETRO OUTRIGHT EURO	R5O	984	1,799	-45.3%	1,021	-3.6%
PETRO OUTRIGHT EURO	RBM	0	10	-100.0%	0	-
PETRO OUTRIGHT EURO	S5B	89	0	-	22	304.5%
PETRO OUTRIGHT EURO	S5F	407	200	103.5%	563	-27.7%
PETRO OUTRIGHT EURO	S5M	2,544	2,890	-12.0%	2,365	7.6%
PETRO OUTRIGHT EURO	S5O	1,304	1,494	-12.7%	786	65.9%
PETRO OUTRIGHT EURO	SMU	0	0	-	0	-
PETRO OUTRIGHT EURO	SR5	16	100	-84.0%	24	-33.3%
PETRO OUTRIGHT EURO	TLB	0	0	-	0	-
PETRO OUTRIGHT EURO	ULB	0	625	-100.0%	125	-100.0%
PETRO OUTRIGHT EURO	V0	0	0	-	0	-
PETRO OUTRIGHT NA	A8B	25	75	-66.7%	260	-90.4%
PETRO OUTRIGHT NA	AB6	150	425	-64.7%	918	-83.7%
PETRO OUTRIGHT NA	BCR	325	800	-59.4%	875	-62.9%
PETRO OUTRIGHT NA	FCB	0	0	-	0	-
PETRO OUTRIGHT NA	JE	0	20	-100.0%	0	-
PETRO OUTRIGHT NA	JET	3,220	1,150	180.0%	2,860	12.6%
PETRO OUTRIGHT NA	JTB	50	25	100.0%	209	-76.1%
PETRO OUTRIGHT NA	MBL	227	425	-46.6%	252	-9.9%
PETRO OUTRIGHT NA	MEN	0	13	-100.0%	0	-
PETRO OUTRIGHT NA	MEO	78	373	-79.1%	277	-71.8%
PETRO OUTRIGHT NA	MFD	0	0	-	0	-
PETRO OUTRIGHT NA	MMF	0	0	-	0	-
PJM AD HUB 5MW REAL TIME	V3	0	2,040	-100.0%	0	-
PJM AD HUB 5MW REAL TIME	Z9	0	105	-100.0%	0	-
PJM DAILY	JD	126	284	-55.6%	126	0.0%
PJM NI HUB 5MW REAL TIME	B3	0	0	-	0	-
PJM NI HUB 5MW REAL TIME	B6	0	0	-	0	-
PJM WESTH RT OFF-PEAK	N9	0	18,360	-100.0%	0	-
PJM WESTH RT PEAK	L1	1,260	8,824	-85.7%	2,583	-51.2%
PLASTICS	PGP	5,156	4,041	27.6%	4,668	10.5%
PREMIUM UNLD 10P FOB MED	3G	0	34	-100.0%	0	-
PROPANE NON-LDH MB (OPIS) BALMO SWP	1S	1,003	2,000	-49.9%	2,540	-60.5%
PROPANE NON-LDH MT. BEL (OPIS) SWP	1R	55,180	37,868	45.7%	60,763	-9.2%
RBOB CALENDAR SWAP	RL	12,302	17,558	-29.9%	14,275	-13.8%
RBOB CRACK SPREAD	RM	7,554	8,032	-6.0%	8,216	-8.1%
RBOB CRACK SPREAD BALMO S	1E	0	0	-	0	-
RBOB GASOLINE BALMO CLNDR	1D	215	9	2,288.9%	136	58.1%
RBOB PHY	MRB	0	3	-100.0%	0	-
RBOB PHY	RBL	0	0	0.0%	0	0.0%
RBOB VS HEATING OIL SWAP	RH	70	350	-80.0%	105	-33.3%
SINGAPORE 180CST BALMO	BS	0	1	-100.0%	0	-

## NYMEX/COMEX Exchange Open Interest Report - Monthly

Commodity		Open Interest NOV 2023	Open Interest NOV 2022	% CHG	Open Interest OCT 2023	% CHG
<b>Energy Futures</b>						
SINGAPORE 380CST BALMO	BT	0	0	-	0	-
SINGAPORE 380CST FUEL OIL	SE	369	59	525.4%	494	-25.3%
SINGAPORE FUEL 180CST CAL	UA	12	3	300.0%	23	-47.8%
SINGAPORE FUEL OIL 180 CS	GMS	0	0	-	0	-
SINGAPORE FUEL OIL SPREAD	SD	6	102	-94.1%	9	-33.3%
SINGAPORE GASOIL	MAF	0	102	-100.0%	0	-
SINGAPORE GASOIL	MTB	0	0	-	0	-
SINGAPORE GASOIL	MTS	303	369	-17.9%	315	-3.8%
SINGAPORE GASOIL	SBM	0	0	-	5	-100.0%
SINGAPORE GASOIL CALENDAR	MSG	135	131	3.1%	132	2.3%
SINGAPORE GASOIL SWAP	SG	154	262	-41.2%	348	-55.7%
SINGAPORE GASOIL VS ICE	GA	374	2,933	-87.2%	561	-33.3%
SINGAPORE JET KERO GASOIL	RK	362	2,504	-85.5%	543	-33.3%
SINGAPORE JET KEROSENE SW	KS	0	0	-	0	-
SINGAPORE MOGAS 92 UNLEADED BALMO	1P	0	0	-	0	-
SINGAPORE MOGAS 92 UNLEADED SWP	1N	64	0	-	100	-36.0%
TC2 ROTTERDAM TO USAC 37K	TM	48	210	-77.1%	72	-33.3%
TC5 RAS TANURA TO YOKOHAM	TH	20	186	-89.2%	30	-33.3%
TD3 MEG TO JAPAN 250K MT	TL	1,390	2,350	-40.9%	1,455	-4.5%
TEXAS EASTERN ZONE M-3 BA	NX	0	0	-	0	-
UK NBP NAT GAS CAL MTH FUT	UKG	0	0	-	0	-
ULSD UP-DOWN BALMO SWP	1L	7,760	4,060	91.1%	2,324	233.9%
UP DOWN GC ULSD VS NMX HO	LT	34,225	24,155	41.7%	33,348	2.6%
WTI-BRENT BULLET SWAP	BY	0	0	-	0	-
WTI-BRENT CALENDAR SWAP	BK	169,067	120,636	40.1%	168,407	0.4%
WTI CALENDAR	CS	160,651	157,311	2.1%	164,257	-2.2%
WTI MIDLAND CRUDE OIL	WTL	0	600	-100.0%	340	-100.0%
WTS (ARGUS) VS WTI SWAP	FF	26,255	20,577	27.6%	27,565	-4.8%
WTS (ARGUS) VS WTI TRD MT	FH	150	2,630	-94.3%	469	-68.0%
<b>Energy Options</b>						
BRENT CALENDAR SWAP	BA	2,996	1,650	81.6%	2,830	5.9%
BRENT CRUDE OIL 1 M CSO	9C	9,575	18,800	-49.1%	10,000	-4.2%
BRENT OIL LAST DAY	BE	12,096	28,845	-58.1%	14,346	-15.7%
BRENT OIL LAST DAY	BZO	1,980	26,708	-92.6%	991	99.8%
COAL API2 INDEX	F2C	460	385	19.5%	460	0.0%
COAL API2 INDEX	F2Q	0	0	-	0	-
CRUDE OIL	6Y	0	0	-	0	-
CRUDE OIL 1MO	WA	172,875	128,325	34.7%	201,650	-14.3%
CRUDE OIL APO	AO	225,559	155,367	45.2%	197,361	14.3%
CRUDE OIL CALNDR STRIP	6F	0	0	-	0	-
CRUDE OIL OUTRIGHTS	ECCL	0	0	0.0%	0	0.0%
CRUDE OIL PHY	LC	52,124	39,567	31.7%	50,600	3.0%
CRUDE OIL PHY	LO	2,068,507	2,162,304	-4.3%	2,469,336	-16.2%
CRUDE OIL PHY	LO1	48,647	20,276	139.9%	19,076	155.0%
CRUDE OIL PHY	LO2	3,738	2,584	44.7%	832	349.3%
CRUDE OIL PHY	LO3	379	78	385.9%	8	4,637.5%
CRUDE OIL PHY	LO4	115	95	21.1%	0	-
CRUDE OIL PHY	LO5	0	0	-	0	-
CRUDE OIL PHY	MCO	11,434	5,409	111.4%	15,393	-25.7%
CRUDE OIL PHY	ML1	8,392	0	-	1,691	396.3%
CRUDE OIL PHY	ML2	469	0	-	111	322.5%
CRUDE OIL PHY	ML3	0	0	-	16	-100.0%



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Commodity	Open Interest NOV 2023	Open Interest NOV 2022	% CHG	Open Interest OCT 2023	% CHG
<b>Energy Options</b>					
CRUDE OIL PHY ML4	0	0	-	1	-100.0%
CRUDE OIL PHY ML5	0	0	-	0	0.0%
CRUDE OIL PHY MW1	846	701	20.7%	430	96.7%
CRUDE OIL PHY MW2	255	221	15.4%	11	2,218.2%
CRUDE OIL PHY MW3	0	0	-	0	-
CRUDE OIL PHY MW4	0	0	-	0	-
CRUDE OIL PHY MW5	0	0	-	0	-
CRUDE OIL PHY WL1	4,627	0	-	7,768	-40.4%
CRUDE OIL PHY WL2	318	0	-	1,219	-73.9%
CRUDE OIL PHY WL3	1	0	-	45	-97.8%
CRUDE OIL PHY WL4	0	0	-	387	-100.0%
CRUDE OIL PHY WL5	0	0	-	0	-
ELEC FINSETTLED PJN	0	0	-	0	-
ETHANOL SWAP CVR	6,206	3,571	73.8%	7,103	-12.6%
ETHANOL SWAP GVR	0	0	-	0	-
FREIGHT MARKETS FLO	0	20	-100.0%	0	-
HEATING OIL CRK SPD AVG PRICE OPTIONS 3W	0	750	-100.0%	0	-
HEATING OIL PHY FZ	0	0	-	0	-
HEATING OIL PHY LB	364	0	-	49	642.9%
HEATING OIL PHY OH	16,451	13,493	21.9%	22,230	-26.0%
HENRY HUB FINANCIAL LAST E7	108,833	26,172	315.8%	106,271	2.4%
HENRY HUB FINANCIAL LAST ECNG	0	0	0.0%	0	0.0%
HO 1 MONTH CLNDR OPTIONS FA	5,050	600	741.7%	8,850	-42.9%
LLS CRUDE OIL HTO	0	1,200	-100.0%	100	-100.0%
LLS CRUDE OIL WTO	3,000	4,500	-33.3%	3,375	-11.1%
MCCLOSKEY ARA ARGS COAL MTO	0	20	-100.0%	0	-
NATURAL GAS LN1	323	150	115.3%	13	2,384.6%
NATURAL GAS LN2	88	0	-	28	214.3%
NATURAL GAS LN3	3	0	-	0	-
NATURAL GAS LN4	5	0	-	0	-
NATURAL GAS LN5	0	0	-	0	-
NATURAL GAS 1 M CSO FIN G4	119,487	95,875	24.6%	125,453	-4.8%
NATURAL GAS 2 M CSO FIN G2	2,000	0	-	1,000	100.0%
NATURAL GAS 3 M CSO FIN G3	22,750	3,250	600.0%	3,000	658.3%
NATURAL GAS 5 M CSO FIN G5	2,000	2,000	0.0%	0	-
NATURAL GAS 6 M CSO FIN G6	1,350	18,375	-92.7%	350	285.7%
NATURAL GAS OPT JFO	0	150	-100.0%	0	-
NATURAL GAS OPT JKO	0	850	-100.0%	0	-
NATURAL GAS OPT TFO	0	0	-	0	-
NATURAL GAS OPTION ON CALENDAR STRP 6J	2,024	7,784	-74.0%	224	803.6%
NATURAL GAS PHY KD	0	0	-	0	-
NATURAL GAS PHY LN	3,022,051	2,880,278	4.9%	2,906,359	4.0%
NATURAL GAS PHY ON	53,327	32,941	61.9%	59,317	-10.1%
NATURAL GAS PHY ON3	0	0	-	0	-
NATURAL GAS SUMMER STRIP 4D	0	0	-	0	-
NY HARBOR HEAT OIL SWP AT	16,510	9,075	81.9%	14,839	11.3%
PETROCHEMICALS 4H	1,305	3,517	-62.9%	1,446	-9.8%
PETROCHEMICALS 4J	0	0	-	0	-
PETROCHEMICALS 4K	0	0	-	0	-
PETROCHEMICALS CPR	0	0	-	0	-
PETRO OUTRIGHT EURO BCO	0	0	-	0	-
PETRO OUTRIGHT NA DAP	40	310	-87.1%	60	-33.3%



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Commodity		Open Interest NOV 2023	Open Interest NOV 2022	% CHG	Open Interest OCT 2023	% CHG
<b>Energy Options</b>						
PJM WES HUB PEAK CAL MTH	6OA	0	180	-100.0%	0	-
PJM WES HUB PEAK LMP 50MW	PMA	0	0	-	0	-
RBOB 1MO CAL SPD OPTIONS	ZA	0	0	-	0	-
RBOB CALENDAR SWAP	RA	36	324	-88.9%	72	-50.0%
RBOB PHY	OB	584	4,772	-87.8%	355	64.5%
RBOB PHY	RF	650	0	-	25	2,500.0%
SHORT TERM	U11	0	0	-	0	-
SHORT TERM	U12	0	0	-	0	-
SHORT TERM	U13	0	0	-	0	-
SHORT TERM	U14	0	0	-	0	-
SHORT TERM	U15	0	0	-	0	-
SHORT TERM	U22	0	0	-	0	-
SHORT TERM	U23	0	0	-	0	-
SHORT TERM	U24	0	0	-	0	-
SHORT TERM	U25	0	0	-	0	-
SHORT TERM	U26	0	0	-	0	-
SHORT TERM NATURAL GAS	U01	0	0	-	0	-
SHORT TERM NATURAL GAS	U02	0	0	-	0	-
SHORT TERM NATURAL GAS	U03	0	0	-	0	-
SHORT TERM NATURAL GAS	U04	0	0	-	0	-
SHORT TERM NATURAL GAS	U05	0	0	-	0	-
SHORT TERM NATURAL GAS	U06	0	0	-	0	-
SHORT TERM NATURAL GAS	U07	0	0	-	0	-
SHORT TERM NATURAL GAS	U08	0	0	-	0	-
SHORT TERM NATURAL GAS	U09	0	0	-	0	-
SHORT TERM NATURAL GAS	U10	0	0	-	0	-
SHORT TERM NATURAL GAS	U16	0	0	-	0	-
SHORT TERM NATURAL GAS	U17	0	0	-	0	-
SHORT TERM NATURAL GAS	U18	0	0	-	0	-
SHORT TERM NATURAL GAS	U19	0	0	-	0	-
SHORT TERM NATURAL GAS	U20	0	0	-	0	-
SHORT TERM NATURAL GAS	U21	0	0	-	0	-
SHORT TERM NATURAL GAS	U27	0	0	-	0	-
SHORT TERM NATURAL GAS	U28	0	0	-	0	-
SHORT TERM NATURAL GAS	U29	0	0	-	0	-
SHORT TERM NATURAL GAS	U30	0	0	-	0	-
SHORT TERM NATURAL GAS	U31	0	0	-	0	0.0%
WTI-BRENT BULLET SWAP	BV	152,640	153,150	-0.3%	144,715	5.5%
WTI CRUDE OIL 1 M CSO FI	7A	162,910	137,000	18.9%	160,355	1.6%
<b>Metals Futures</b>						
COMEX GOLD	GC	498,685	429,283	16.2%	475,808	4.8%
NYMEX HOT ROLLED STEEL	HR	21,277	25,197	-15.6%	17,963	18.4%
NYMEX PLATINUM	PL	71,111	67,790	4.9%	74,768	-4.9%
PALLADIUM	PA	19,809	7,568	161.7%	22,943	-13.7%
URANIUM	UX	1	800	-99.9%	1	0.0%
COMEX SILVER	SI	142,847	122,380	16.7%	126,549	12.9%
COMEX E-Mini GOLD	QO	966	1,126	-14.2%	1,132	-14.7%
COMEX E-Mini SILVER	QI	365	292	25.0%	426	-14.3%
COMEX COPPER	HG	176,907	149,642	18.2%	222,566	-20.5%
COMEX MINY COPPER	QC	338	303	11.6%	378	-10.6%

## NYMEX/COMEX Exchange Open Interest Report - Monthly

Commodity	Open Interest NOV 2023	Open Interest NOV 2022	% CHG	Open Interest OCT 2023	% CHG
<b>Metals Futures</b>					
ALUMINUM A38	0	0	-	0	-
ALUMINUM AEP	3,954	7,387	-46.5%	4,243	-6.8%
ALUMINUM ALA	100	830	-88.0%	150	-33.3%
ALUMINUM ALI	4,193	1,050	299.3%	4,975	-15.7%
ALUMINUM AUP	31,985	30,025	6.5%	30,709	4.2%
ALUMINUM EDP	23,688	19,805	19.6%	20,923	13.2%
ALUMINUM MJP	230	1,724	-86.7%	355	-35.2%
COBALT METAL FUTURES COB	20,335	10,753	89.1%	19,330	5.2%
COPPER HGS	10,549	13,712	-23.1%	9,722	8.5%
COPPER MHG	2,032	1,083	87.6%	2,190	-7.2%
FERROUS PRODUCTS BUS	4,252	8,228	-48.3%	4,003	6.2%
FERROUS PRODUCTS FSF	89	0	-	88	1.1%
GOLD 4GC	0	0	-	0	-
GOLD SGC	406	499	-18.6%	163	149.1%
GOLD SGU	512	526	-2.7%	254	101.6%
HOT ROLLED COIL STEEL FUTURES EHR	6,566	6,367	3.1%	6,405	2.5%
IRON ORE CHINA TIO	832	2,020	-58.8%	1,158	-28.2%
LITHIUM CARBONATE FUTURES LTC	0	0	-	0	-
METALS HDG	20	212	-90.6%	20	0.0%
METALS LTH	12,586	149	8,347.0%	9,923	26.8%
METALS PAC	0	0	-	0	-
MICRO GOLD MGC	27,558	17,503	57.4%	31,025	-11.2%
MOLYBDENUM OXIDE FUTURES MOX	535	0	-	600	-10.8%
SILVER SIL	6,924	7,872	-12.0%	8,664	-20.1%
<b>Metals Options</b>					
ALUMINUM ALO	0	0	-	0	-
ALUMINUM AX	491	214	129.4%	1,148	-57.2%
COMEX COPPER HX	66,389	71,740	-7.5%	92,678	-28.4%
COMEX GOLD ECGC	0	0	0.0%	0	0.0%
COMEX GOLD OG	786,417	572,864	37.3%	969,523	-18.9%
COMEX SILVER ECSI	0	0	0.0%	0	0.0%
COMEX SILVER SO	89,088	89,174	-0.1%	113,304	-21.4%
COPPER ECHG	0	0	0.0%	0	0.0%
COPPER H1E	539	175	208.0%	611	-11.8%
COPPER H1M	122	36	238.9%	52	134.6%
COPPER H1W	4,365	73	5,879.5%	4,690	-6.9%
COPPER H2E	55	268	-79.5%	26	111.5%
COPPER H2M	71	90	-21.1%	0	-
COPPER H2W	20	63	-68.3%	9	122.2%
COPPER H3E	78	49	59.2%	24	225.0%
COPPER H3M	20	0	-	0	-
COPPER H3W	0	2	-100.0%	24	-100.0%
COPPER H4E	0	0	-	21	-100.0%
COPPER H4M	0	0	-	0	-
COPPER H4W	0	0	-	10	-100.0%
COPPER H5E	0	0	-	0	-
COPPER H5M	0	0	-	0	0.0%
COPPER H5W	0	0	0.0%	0	-
GOLD 1FG	25	0	-	9	177.8%
GOLD 1MG	5	0	-	0	-
GOLD 1WG	5	0	-	2	150.0%
GOLD 2FG	23	0	-	0	-

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	Commodity	Open Interest NOV 2023	Open Interest NOV 2022	% CHG	Open Interest OCT 2023	% CHG
<b>Metals Options</b>						
GOLD	2MG	45	0	-	0	-
GOLD	2WG	1	0	-	0	-
GOLD	3FG	2	0	-	0	-
GOLD	3MG	4	0	-	0	-
GOLD	3WG	0	0	-	2	-100.0%
GOLD	4FG	0	0	-	0	-
GOLD	4MG	0	0	-	0	-
GOLD	4WG	0	0	-	0	-
GOLD	5MG	0	0	-	0	0.0%
GOLD	5WG	0	0	-	0	-
GOLD	G1M	6,631	2,291	189.4%	2,366	180.3%
GOLD	G1W	4,034	874	361.6%	7,552	-46.6%
GOLD	G2M	5,852	2,004	192.0%	727	705.0%
GOLD	G2W	1,636	463	253.3%	1,736	-5.8%
GOLD	G3M	2,843	1,158	145.5%	383	642.3%
GOLD	G3W	252	47	436.2%	587	-57.1%
GOLD	G4M	0	0	-	0	-
GOLD	G4W	0	0	-	414	-100.0%
GOLD	G5M	0	0	-	0	0.0%
GOLD	G5W	0	0	0.0%	0	-
GOLD	OG1	16,673	15,580	7.0%	14,583	14.3%
GOLD	OG2	8,500	4,568	86.1%	6,162	37.9%
GOLD	OG3	4,165	2,452	69.9%	1,908	118.3%
GOLD	OG4	566	387	46.3%	140	304.3%
GOLD	OG5	0	0	-	0	-
GOLD	OMG	79	0	-	26	203.8%
IRON ORE CHINA	ICT	360	200	80.0%	360	0.0%
NYMEX HOT ROLLED STEEL	HRO	8,176	6,726	21.6%	7,975	2.5%
NYMEX PLATINUM	PO	16,450	2,946	458.4%	13,020	26.3%
PALLADIUM	PAO	814	3	27,033.3%	1,126	-27.7%
SILVER	M1S	1,165	320	264.1%	735	58.5%
SILVER	M2S	1,293	79	1,536.7%	332	289.5%
SILVER	M3S	457	14	3,164.3%	117	290.6%
SILVER	M4S	0	0	-	0	-
SILVER	M5S	0	0	-	0	0.0%
SILVER	SO1	2,501	2,385	4.9%	2,116	18.2%
SILVER	SO2	1,779	1,370	29.9%	1,430	24.4%
SILVER	SO3	768	408	88.2%	424	81.1%
SILVER	SO4	54	15	260.0%	15	260.0%
SILVER	SO5	0	0	-	0	-
SILVER	W1S	632	152	315.8%	1,422	-55.6%
SILVER	W2S	143	33	333.3%	614	-76.7%
SILVER	W3S	159	0	0.0%	148	7.4%
SILVER	W4S	0	0	-	5	-100.0%
SILVER	W5S	0	0	0.0%	0	-

## NYMEX/COMEX Exchange Open Interest Report - Monthly

Commodity	Open Interest NOV 2023	Open Interest NOV 2022	% CHG	Open Interest OCT 2023	% CHG
<b>TOTAL FUTURES GROUP</b>					
Ag Products Futures	0	0	-	0	-
Energy Futures	6,483,166	5,651,053	14.7%	6,359,661	1.9%
Metals Futures	1,089,652	934,126	16.6%	1,097,434	-0.7%
<b>TOTAL FUTURES</b>	<b>7,572,818</b>	<b>6,585,179</b>	<b>15.0%</b>	<b>7,457,095</b>	<b>1.6%</b>
<b>TOTAL OPTIONS GROUP</b>					
Energy Options	6,325,380	5,991,622	5.6%	6,560,151	-3.6%
Metals Options	1,033,747	779,223	32.7%	1,248,556	-17.2%
<b>TOTAL OPTIONS</b>	<b>7,359,127</b>	<b>6,770,845</b>	<b>8.7%</b>	<b>7,808,707</b>	<b>-5.8%</b>
<b>TOTAL COMBINED</b>					
Ag Products	0	0	-	0	-
Energy	12,808,546	11,642,675	10.0%	12,919,812	-0.9%
Metals	2,123,399	1,713,349	23.9%	2,345,990	-9.5%
<b>GRAND TOTAL</b>	<b>14,931,945</b>	<b>13,356,024</b>	<b>11.8%</b>	<b>15,265,802</b>	<b>-2.2%</b>