

## NYMEX/COMEX Exchange ADV Report - Monthly

December 2022

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Commodity		ADV DEC 2022	ADV DEC 2021	% CHG	ADV NOV 2022	% CHG	ADV Y.T.D 2022	ADV Y.T.D 2021	% CHG
<b>Metals Futures</b>									
COMEX GOLD	GC	154,996	139,709.59	10.9%	258,056.43	-39.9%	216,182	232,003.96	-6.8%
NYMEX HOT ROLLED STEEL	HR	946	898.23	5.3%	883.62	7.1%	1,039	979.43	6.1%
NYMEX PLATINUM	PL	25,804	20,246.77	27.4%	20,647	25.0%	20,626	17,662.15	16.8%
PALLADIUM	PA	2,044	1,698.77	20.3%	3,706.24	-44.9%	2,275	2,399.13	-5.2%
URANIUM	UX	0	0	-	0	-	0	4.69	-98.0%
COMEX SILVER	SI	53,511	45,824.86	16.8%	88,048.67	-39.2%	68,035	78,053.71	-12.8%
COMEX E-Mini GOLD	QO	1,256	746.23	68.3%	2,286.33	-45.1%	1,571	1,071.04	46.7%
COMEX E-Mini SILVER	QI	202	141.41	43.2%	217.52	-6.9%	188	267.98	-29.9%
COMEX COPPER	HG	61,223	52,831.36	15.9%	118,981.29	-48.5%	85,812	97,557.64	-12.0%
COMEX MINY COPPER	QC	101	170.14	-40.9%	218.14	-53.9%	166	236.43	-29.8%
ALUMINUM	A38	0	0	-	0	-	0	0.69	-100.0%
ALUMINUM	AEP	105	200.82	-47.6%	175.57	-40.0%	93	139.94	-33.4%
ALUMINUM	ALA	3	5.45	-47.6%	2.14	33.3%	8	15.18	-46.7%
ALUMINUM	ALI	2,550	690.27	269.4%	2,128	19.8%	1,671	576.15	190.0%
ALUMINUM	AUP	305	524.64	-41.9%	358.29	-15.0%	339	337.17	0.6%
ALUMINUM	EDP	231	316.64	-27.2%	204.38	12.8%	244	184.63	32.1%
ALUMINUM	MJP	0	109.64	-100.0%	4.76	-100.0%	13	30.06	-57.6%
COBALT METAL FUTURES	COB	149	7.95	1773.2%	142.24	4.8%	68	13.48	406.0%
COPPER	HGS	167	150.5	10.7%	77.76	114.2%	85	108.53	-21.3%
COPPER	MHG	2,599	0	-	4,380.67	-40.7%	2,246	0	-
FERROUS PRODUCTS	BUS	187	36.82	407.3%	215.43	-13.3%	137	66.98	105.3%
GOLD	4GC	0	0	-	0	-	0	0.46	-100.0%
GOLD	SGC	5	84.14	-94.0%	11.57	-56.4%	32	76.64	-58.5%
GOLD	SGU	5	556.23	-99.0%	26.19	-79.5%	213	337.28	-36.7%
HOT ROLLED COIL STEEL FUTURES	EHR	237	60.95	288.1%	242.95	-2.6%	182	55.7	227.1%
IRON ORE CHINA	TIO	35	32.5	8.4%	35.81	-1.6%	59	46.55	27.6%
METALS	HDG	0	0	-	0.71	-66.7%	3	0.57	371.8%
METALS	LTH	15	0.14	11036.7%	4.33	250.6%	2	0.05	3513.4%
METALS	PAC	0	0	-	0	-	5	0	-
MICRO GOLD	MGC	39,961	33,200.77	20.4%	48,616.48	-17.8%	49,964	55,257.77	-9.6%
SILVER	SIL	8,575	4,367.45	96.3%	9,485.95	-9.6%	7,968	8,719.35	-8.6%
<b>Metals Options</b>									
ALUMINUM	ALO	0	0	-	0	-	0	8.93	-100.0%

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<b>Metals Options</b>										
ALUMINUM	AX	22	0	-	22.95	-4.6%	7	0	-	
COMEX COPPER	HX	4,404	1,585.55	177.8%	6,008.14	-26.7%	4,219	2,971.2	42.0%	
COMEX GOLD	ECGC	263	0	-	283.05	-7.0%	64	0	-	
COMEX GOLD	OG	27,203	20,680.86	31.5%	38,079.62	-28.6%	39,185	32,976.96	18.8%	
COMEX SILVER	ECSI	136	0	-	111.86	21.5%	42	0	-	
COMEX SILVER	SO	6,813	3,788.14	79.8%	8,497.05	-19.8%	5,783	6,991.11	-17.3%	
COPPER	ECHG	112	0	-	86.24	29.8%	30	0	-	
COPPER	H1E	41	0	-	23.52	75.7%	14	0.34	3938.4%	
COPPER	H1M	2	0	-	26.86	-92.9%	6	0	-	
COPPER	H1W	5	0	-	4.29	21.1%	6	0	-	
COPPER	H2E	13	0.68	1820.7%	33.33	-60.7%	14	0.45	2918.2%	
COPPER	H2M	21	0	-	11.05	89.2%	6	0	-	
COPPER	H2W	9	0	-	9.95	-6.7%	4	0	-	
COPPER	H3E	10	2.86	264.2%	17.43	-40.2%	11	0.52	1975.2%	
COPPER	H3M	4	0	-	2.19	104.4%	4	0	-	
COPPER	H3W	4	0	-	2.48	78.8%	2	0	-	
COPPER	H4E	13	0.82	1488.9%	17.71	-26.6%	13	0.71	1671.2%	
COPPER	H4M	5	0	-	3.76	38.0%	2	0	-	
COPPER	H4W	12	0	-	2.19	430.4%	4	0	-	
COPPER	H5E	57	0.05	124128.1%	0	-	8	0.03	23741.3%	
COPPER	H5M	5	0	-	0	-	2	0	-	
COPPER	H5W	0	0	-	12.05	-100.0%	4	0	-	
GOLD	G1M	239	0	-	320.95	-25.6%	148	0	-	
GOLD	G1W	700	0	-	209.48	234.3%	260	0	-	
GOLD	G2M	536	0	-	423.05	26.8%	215	0	-	
GOLD	G2W	727	0	-	400.05	81.8%	236	0	-	
GOLD	G3M	477	0	-	236.14	102.0%	156	0	-	
GOLD	G3W	356	0	-	509.62	-30.2%	231	0	-	
GOLD	G4M	85	0	-	224.71	-62.3%	100	0	-	
GOLD	G4W	174	0	-	213.76	-18.5%	123	0	-	
GOLD	G5M	58	0	-	0	-	39	0	-	
GOLD	G5W	0	0	-	425.52	-100.0%	91	0	-	
GOLD	OG1	1,791	924.5	93.7%	2,665.14	-32.8%	2,185	2,007.9	8.8%	
GOLD	OG2	2,082	1,465.55	42.1%	2,598.52	-19.9%	2,176	2,061.15	5.6%	
GOLD	OG3	3,551	1,715.23	107.0%	1,755.76	102.2%	2,314	2,018.36	14.7%	

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<b>Metals Options</b>									
GOLD	OG4	1,175	1,162.86	1.0%	898.14	30.8%	1,723	1,399.8	23.1%
GOLD	OG5	1,026	930.18	10.3%	0	-	554	571.69	-3.0%
IRON ORE CHINA	ICT	0	4.55	-100.0%	0	-	1	24.99	-95.2%
NYMEX HOT ROLLED STEEL	HRO	35	47.95	-28.0%	96.43	-64.2%	75	19.27	288.6%
NYMEX PLATINUM	PO	40	69.68	-42.1%	142	-71.6%	208	138.11	51.0%
PALLADIUM	PAO	6	7.09	-18.1%	0.14	3965.5%	1	26.93	-96.2%
SILVER	M1S	28	0	-	235.67	-88.2%	27	0	-
SILVER	M2S	73	0	-	44.57	63.8%	24	0	-
SILVER	M3S	23	0	-	7.43	203.8%	10	0	-
SILVER	M4S	10	0	-	24.19	-56.9%	11	0	-
SILVER	M5S	3	0	-	0	-	2	0	-
SILVER	SO1	428	132.27	223.3%	792.48	-46.0%	289	157.19	83.6%
SILVER	SO2	348	165.77	109.8%	480.52	-27.6%	269	174.07	54.7%
SILVER	SO3	296	163.18	81.2%	363.57	-18.7%	225	143.25	57.0%
SILVER	SO4	197	132.23	49.1%	137.24	43.7%	166	101.31	63.5%
SILVER	SO5	313	120.59	159.3%	0	-	63	45.57	38.1%
SILVER	W1S	70	0	-	19.81	255.0%	20	0	-
SILVER	W2S	41	0	-	91.48	-54.9%	21	0	-
SILVER	W3S	35	0	-	28.05	25.5%	13	0	-
SILVER	W4S	15	0	-	12.38	21.2%	5	0	-
SILVER	W5S	0	0	-	33.9	-100.0%	6	0	-
<b>Energy Futures</b>									
CRUDE OIL PHY	CL	705,225	787,716.14	-10.5%	781,450.67	-9.8%	820,708	985,374.92	-16.7%
CRUDE OIL	WS	0	0	-	0	-	4	14.81	-73.1%
MINY WTI CRUDE OIL	QM	18,409	21,803.23	-15.6%	20,605.24	-10.7%	27,652	20,877.87	32.4%
BRENT OIL LAST DAY	BZ	54,388	77,762	-30.1%	69,821.76	-22.1%	69,159	95,968.79	-27.9%
HEATING OIL PHY	HO	139,268	127,496.91	9.2%	127,360.1	9.3%	158,043	153,617.05	2.9%
HTG OIL	BH	0	0	-	0	-	0	0.49	-12.6%
MINY HTG OIL	QH	0	0.59	-35.5%	0.62	-38.4%	0	0.33	29.4%
RBOB PHY	RB	133,305	150,586.59	-11.5%	137,826.05	-3.3%	163,503	189,833.33	-13.9%
MINY RBOB GAS	QU	0	0.59	-51.7%	0.24	20.0%	0	0.42	-5.2%

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<b>Energy Futures</b>										
NATURAL GAS	HP	6,794	5,428.36	25.2%	7,041.57	-3.5%	7,922	7,506.19	5.5%	
LTD NAT GAS	HH	23,248	18,016.86	29.0%	17,422.1	33.4%	17,486	16,281.13	7.4%	
MINY NATURAL GAS	QG	18,170	8,828.82	105.8%	15,503.33	17.2%	15,111	9,147.54	65.2%	
NATURAL GAS PHY	NG	349,649	348,641.55	0.3%	331,409.48	5.5%	342,134	387,257.12	-11.7%	
RBOB GAS	RT	0	0	-	0	-	0	0.33	-13.9%	
AEP-DAYTON HUB DAILY	VD	0	0	-	0	-	0	0	-	
ARGUS LLS VS. WTI (ARG) T	E5	93	110.45	-15.9%	136.67	-32.1%	260	378.72	-31.5%	
ARGUS PROPAN FAR EST INDE	7E	328	169.27	94.0%	432.14	-24.0%	292	282.64	3.2%	
ARGUS PROPAN(SAUDI ARAMCO	9N	92	72.36	26.6%	144.14	-36.4%	97	86.25	12.4%	
BRENT BALMO SWAP	J9	0	0	-	0	-	6	5.21	21.3%	
BRENT CALENDAR SWAP	CY	477	980	-51.3%	283.24	68.5%	653	532.7	22.6%	
BRENT FINANCIAL FUTURES	BB	0	0	-	0	-	0	15.87	-100.0%	
BRENT FINANCIAL FUTURES	MBC	11	0	-	0	-	2	0	-	
BRENT FINANCIAL FUTURES	MDB	0	0	-	0	-	0	0.27	-100.0%	
BRENT OIL LAST DAY	BZL	0	0	-	0	-	0	0	-	
BRENT OIL LAST DAY	BZS	0	0	-	0	-	0	0	-	
CAR VINTAGE	GEO	138	102.23	35.0%	374.43	-63.1%	172	63.97	168.3%	
CAR VINTAGE	NGO	659	171.59	283.8%	495.19	33.0%	570	123.13	362.7%	
CHICAGO ETHANOL SWAP	CU	2,105	2,466.82	-14.7%	2,634.95	-20.1%	2,778	3,439.51	-19.2%	
CHICAGO ULSD PL VS HO SPR	5C	16	1.36	1052.4%	20.95	-25.0%	30	14.89	99.4%	
CHICAGO UNL GAS PL VS RBO	3C	0	0	-	0	-	0	1.98	-100.0%	
CONWAY NATURAL GASOLINE (OPIS) SWA	8L	6	5.05	23.6%	0.71	773.3%	12	13.57	-8.8%	
CONWAY NORMAL BUTANE (OPIS) SWAP	8M	25	18	37.8%	28.81	-13.9%	18	14.26	29.5%	
CONWAY PROPANE 5 DECIMALS SWAP	8K	1,313	584.45	124.7%	947.71	38.6%	830	699.79	18.7%	
CRUDE OIL	LPS	0	0	-	0	-	0	0	-	
CRUDE OIL LAST DAY	26	195	0	-	33.19	487.9%	35	12.42	182.8%	
CRUDE OIL OUTRIGHTS	42	29	12.86	123.2%	24.95	15.1%	40	14.38	181.4%	
CRUDE OIL OUTRIGHTS	CC5	0	0	-	0	-	8	39.31	-79.9%	
CRUDE OIL OUTRIGHTS	CSW	0	13.64	-100.0%	0	-	5	56.82	-90.7%	
CRUDE OIL OUTRIGHTS	GSW	0	0	-	0	-	0	9.78	-95.7%	
CRUDE OIL OUTRIGHTS	HTT	3,618	2,303.64	57.1%	4,300.9	-15.9%	3,543	2,967.06	19.4%	
CRUDE OIL OUTRIGHTS	LSW	0	0	-	0	-	17	41.16	-57.9%	
CRUDE OIL OUTRIGHTS	WCW	0	33.18	-100.0%	7.14	-100.0%	69	168.12	-58.7%	
CRUDE OIL PHY	CLL	0	0	-	0	-	0	0	-	
CRUDE OIL PHY	HCL	0	0	-	0	-	0	79.95	-100.0%	

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<b>Energy Futures</b>										
CRUDE OIL PHY	MCL	87,568	77,937.14	12.4%	106,626.48	-17.9%	119,844	33,208.96	260.9%	
CRUDE OIL SPRDS	ANT	0	8.36	-100.0%	0	-	34	23.39	44.2%	
CRUDE OIL SPRDS	HIL	0	0	-	0	-	13	22.18	-41.5%	
CRUDE OIL SPRDS	WTT	2,201	985.77	123.3%	2,924.52	-24.7%	2,462	1,255.26	96.1%	
CRUDE OIL TRADE AT MARKER SINGAPOR	CLS	0	0	-	0	-	0	0	-	
DAILY PJM	AOR	0	0	-	0	-	0	0	-	
DAILY PJM	IDO	0	0	-	0	-	0	0	-	
DAILY PJM	NOC	0	0	-	0	-	0	0	-	
DAILY PJM	PAP	0	0	-	0	-	0	0	-	
DAILY PJM	PEO	0	0	-	0	-	0	0	-	
DAILY PJM	PWO	0	0	-	0	-	0	0	-	
DAILY PJM	PWP	0	0	-	0	-	0	0	-	
DAILY PJM	WOR	0	0	-	0	-	0	0	-	
DAILY PJM	ZAO	0	0	-	0	-	0	0	-	
DAILY PJM	ZGO	0	0	-	0	-	0	0	-	
DAILY PJM	ZJO	0	0	-	0	-	0	0	-	
DATED TO FRONTLINE BRENT	FY	0	0	-	0	-	9	10.77	-17.9%	
DIESEL 10P BRG FOB RDM VS	7X	0	0	-	0	-	0	0.12	-83.3%	
DOMINION TRANSMISSION INC	PG	0	0	-	0	-	0	0	-	
DUBAI CRUDE OIL CALENDAR	DC	0	0	-	0	-	8	0	-	
DUTCH TTF NATURAL GAS CAL MONTH FUT	TTF	0	513.45	-100.0%	0	-	58	1,764.59	-96.7%	
EAST/WEST FUEL OIL SPREAD	EW	0	0.27	-100.0%	0	-	0	0.02	-100.0%	
EIA FLAT TAX ONHWAY DIESE	A5	14	45.64	-69.5%	55.86	-75.1%	9	21.31	-57.0%	
ELEC FINSETTLED	47	0	0	-	0	-	0	0	-	
ELECTRICITY OFF PEAK	46	0	0	-	0	-	0	0	-	
EMMISSIONS	CGO	54	0	-	161.48	-66.3%	94	0	-	
ETHANOL	MTH	0	0	-	0	-	0	0.04	0.3%	
ETHANOL SWAP	MT2	11	5.45	100.8%	7.38	48.4%	9	8.92	5.0%	
ETHANOL T2 FOB ROTT INCL DUTY SWAP	Z1	139	122.59	13.2%	174.05	-20.2%	165	172.88	-4.5%	
EURO 3.5% FUEL OIL RDAM B	KR	0	0	-	0	-	0	0.32	-100.0%	
EURO GASOIL 10 CAL SWAP	GT	0	0	-	0	-	0	0	-	
EURO GASOIL 10PPM VS ICE	ET	0	0	-	0	-	5	11.16	-58.3%	
EUROPE 1% FUEL OIL NWE CA	UF	0	0	-	0	-	0	0.33	-100.0%	
EUROPE 3.5% FUEL OIL MED	UI	0	0	-	0	-	0	0.05	-100.0%	
EUROPE 3.5% FUEL OIL RDAM	UV	0	0.68	-79.0%	0.05	200.2%	2	2.21	1.7%	

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<b>Energy Futures</b>									
EUROPEAN GASOIL (ICE)	7F	0	8.91	-96.8%	6.14	-95.3%	54	33.92	59.7%
EUROPEAN NAPHTHA BALMO	KZ	0	1	-81.0%	1.43	-86.7%	1	0.56	54.2%
EUROPEAN NAPHTHA CRACK SPR	EN	29	41.36	-29.2%	13.95	109.9%	89	78.72	12.9%
EUROPE DATED BRENT SWAP	UB	0	0	-	0	-	0	2.82	-100.0%
EUROPE JET KERO NWE CALSW	UJ	0	0	-	0	-	0	0.08	-100.0%
EUROPE NAPHTHA CALSWAP	UN	37	25.23	44.8%	39.19	-6.8%	30	29.03	2.5%
EURO PROPANE CIF ARA SWA	PS	69	61.82	12.2%	81.95	-15.4%	84	74.18	13.2%
FREIGHT MARKETS	BF2	0	0.45	-100.0%	0	-	0	0.53	-100.0%
FREIGHT MARKETS	BL2	0	0	-	6.29	-100.0%	5	1.13	385.1%
FREIGHT MARKETS	CS3	0	0	-	0	-	0	0	-
FREIGHT MARKETS	CS4	0	0	-	5.71	-100.0%	2	0	-
FREIGHT MARKETS	FLJ	0	0	-	0	-	0	0.38	-100.0%
FREIGHT MARKETS	FLP	0	0.5	-33.3%	0	-	1	2.83	-57.3%
FREIGHT MARKETS	FRC	0	0	-	0	-	0	0.28	-48.4%
FREIGHT MARKETS	T2D	0	5.45	-100.0%	2.71	-100.0%	3	3.59	-12.8%
FREIGHT MARKETS	T8C	0	0	-	0	-	0	0.04	-100.0%
FREIGHT MARKETS	TC6	0	10.23	-100.0%	0	-	0	1.79	-100.0%
FREIGHT MARKETS	TD3	0	2.73	-100.0%	0	-	0	0.24	-100.0%
FREIGHT MARKETS	USE	0	0	-	0	-	0	0.36	-100.0%
FUEL OIL CRACK VS ICE	FO	0	0	-	0.57	-100.0%	5	8.74	-45.1%
FUEL OIL NWE CRACK VS ICE	FI	0	0	-	0	-	0	0.29	-8.0%
FUELOIL SWAP:CARGOES VS.B	FS	0	0	-	0	-	0	0	-
GAS EURO-BOB OXY NWE BARGES	7H	3	8.09	-62.3%	7	-56.5%	9	29.42	-70.3%
GAS EURO-BOB OXY NWE BARGES CRK	7K	39	150.86	-73.8%	59.48	-33.6%	107	250.33	-57.3%
GASOIL 0.1CIF MED VS ICE	Z5	0	0	-	0	-	0	0.24	-24.7%
GASOIL 0.1 RDAM BRGS VS I	WQ	0	0	-	0	-	0	0.17	-76.1%
GASOIL 0.1 ROTTERDAM BARG	VL	0	1.73	-100.0%	0.48	-100.0%	0	0.86	-64.7%
GASOIL 10PPM VS ICE SWAP	TP	0	0	-	0	-	0	0	-
GASOIL CALENDAR SWAP	GX	0	10.59	-100.0%	1.71	-100.0%	4	7.22	-44.1%
GASOIL CRACK SPREAD CALEN	GZ	0	100.23	-100.0%	0.57	-100.0%	44	90.08	-51.5%
GASOIL MINI CALENDAR SWAP	QA	2	7.86	-75.8%	17.14	-88.9%	13	16.8	-23.7%
GERMAN POWER BASELOAD CAL MONTH F	DEB	0	0	-	0	-	0	0.97	-100.0%
GRP THREE ULSD(PLT)VS HEA	A6	163	134.77	21.0%	144.52	12.9%	210	199.84	5.0%
GRP THREE UNL GS (PLT) VS	A8	192	89.09	115.1%	77.38	147.7%	145	122.99	18.3%
GULF COAST 3% FUEL OIL BA	VZ	0	0	-	0	-	4	2.94	32.6%

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<b>Energy Futures</b>										
GULF COAST JET FUEL CLNDR	GE	0	0	-	0	-	0	0	-	
GULF COAST JET VS NYM 2 H	ME	236	999.23	-76.4%	210.57	12.1%	422	969.15	-56.5%	
GULF COAST NO.6 FUEL OIL	MF	126	127.86	-1.2%	217.43	-41.9%	209	85.6	144.0%	
GULF COAST NO.6 FUEL OIL	MG	610	445.86	36.9%	765.76	-20.3%	427	153.16	178.8%	
GULF COAST ULSD CALENDAR	LY	14	39.91	-64.0%	57.29	-74.9%	9	20.17	-54.4%	
GULF COAST ULSD CRACK SPR	GY	0	0	-	0	-	0	0	-	
HEATING OIL BALMO CLNDR S	1G	8	4.32	95.2%	0.95	785.0%	15	12.84	14.4%	
HEATING OIL CRCK SPRD BAL	1H	0	0	-	0	-	1	9.72	-94.8%	
HEATING OIL PHY	HOL	0	0	-	0	-	0	0	-	
HEATING OIL PHY	MHO	0	0	-	1.71	-97.2%	0	0	-	
HENRY HUB SWAP	NN	1,716	664.64	158.1%	698.67	145.6%	1,320	1,416.82	-6.8%	
HOUSTON SHIP CHANNEL BASI	NH	0	0	-	0	-	0	0	-	
ICE BRENT DUBAI SWAP	DB	0	2.73	-100.0%	10.48	-100.0%	10	27	-64.4%	
ICE GASOIL BALMO SWAP	U9	0	0	-	0	-	0	0.18	-100.0%	
INDIANA MISO	FTD	0	0	-	0	-	0	0	-	
INDIANA MISO	PTD	0	0	-	0	-	0	0	-	
INDONESIAN COAL ICI4	ICI	0	0	-	0	-	0	4.46	-100.0%	
JAPAN C&F NAPHTHA CRACK S	JB	0	0	-	0	-	2	0.02	7064.7%	
JAPAN C&F NAPHTHA SWAP	JA	6	5.23	14.8%	2.24	168.1%	5	3.11	71.3%	
JAPAN NAPHTHA BALMO SWAP	E6	0	0	-	0	-	0	0.07	-21.8%	
JET CIF NWE VS ICE	JC	4	5.45	-21.4%	0	-	6	7.42	-13.3%	
JET FUEL UP-DOWN BALMO CL	1M	62	176.36	-64.8%	5.95	944.0%	66	83.31	-20.3%	
JKM LNG Futures	JKM	0	37.64	-100.0%	18.38	-100.0%	14	28.77	-50.0%	
LA CARB DIESEL (OPIS) SWA	KL	4	16.14	-77.9%	2.05	74.4%	10	9.27	3.6%	
LA CARBOB GASOLINE(OPIS)S	JL	0	0	-	0	-	0	0.89	-100.0%	
LA JET (OPIS) SWAP	JS	36	21.59	65.4%	1.19	2899.9%	17	24.6	-32.8%	
LLS (ARGUS) CALENDAR SWAP	XA	0	0	-	0	-	0	0	-	
LLS (ARGUS) VS WTI SWAP	WJ	8	21.82	-65.1%	0	-	1	12.96	-92.2%	
MARS (ARGUS) VS WTI SWAP	YX	0	0	-	0	-	7	6.94	-3.3%	
MARS (ARGUS) VS WTI TRD M	YV	507	416.82	21.8%	565.38	-10.2%	713	843.32	-15.5%	
MCCLOSKEY ARA ARGS COAL	MTF	53	284.95	-81.5%	101.52	-48.1%	227	607.35	-62.7%	
MCCLOSKEY RCH BAY COAL	MFF	1	5	-81.0%	0.71	33.3%	17	42.42	-60.8%	
MGN1 SWAP FUT	MGN	0	0	-	0	-	0	0	-	
MINI GAS EUROBOB OXY NWE ARGS BALM	MEB	0	2.77	-100.0%	0	-	1	1.01	4.0%	
MINI RBOB V. EBOBARG NWE BRGS BALMO	MXR	0	0	-	0	-	0	1.55	-87.2%	

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<b>Energy Futures</b>										
MINI RBOB V. EBOB(ARGUS) NWE BRGS	MXB	19	9.05	109.5%	14.76	28.4%	15	25.15	-40.4%	
MJC FUT	MJC	0	0	-	0	-	0	0.2	-100.0%	
MNC FUT	MNC	67	53.91	23.7%	78.95	-15.6%	80	45.65	74.2%	
MONT BELVIEU ETHANE 5 DECIMAL	C0	1,344	1,477.36	-9.0%	1,801.86	-25.4%	1,708	1,405.48	21.5%	
MONT BELVIEU ETHANE OPIS BALMO	8C	36	127.73	-71.9%	56	-35.8%	43	50.23	-14.1%	
MONT BELVIEU LDH PROPANE 5 DECIMAL	B0	10,559	5,492.09	92.3%	9,503.76	11.1%	8,447	8,737.72	-3.3%	
MONT BELVIEU LDH PROPANE OPIS BALM	8O	158	118.18	33.4%	113.29	39.2%	131	144.56	-9.7%	
MONT BELVIEU NATURAL GASOLINE 5 DEC	7Q	1,463	574.77	154.6%	961.48	52.2%	1,186	698.48	69.8%	
MONT BELVIEU NATURAL GASOLINE BALM	R0	84	27.73	201.4%	113.95	-26.7%	82	28.9	183.1%	
MONT BELVIEU NORMAL BUTANE 5 DECIM	D0	2,529	1,566.18	61.5%	2,877.33	-12.1%	2,625	2,550.77	2.9%	
MONT BELVIEU NORMAL BUTANE BALMO	8J	81	67	20.7%	75.1	7.7%	73	61.4	19.6%	
NATURAL GAS	NWM	0	0	-	0	-	1	0	-	
NATURAL GAS PEN SWP	NP	1,623	1,183.82	37.1%	1,293.05	25.6%	2,042	2,422.5	-15.7%	
NEPOOL INTR HUB 5MW D AH	H2	0	0	-	0	-	0	0	-	
NEPOOL INTR HUB 5MW D AH	U6	0	0	-	0	-	0	0	-	
NEW ENGLAND HUB PEAK DAIL	CE	0	0	-	0	-	0	0	-	
NEW YORK ETHANOL SWAP	EZ	14	63.41	-77.8%	23.33	-39.8%	39	12.74	205.8%	
NEW YORK HUB ZONE G PEAK	GN	0	0	-	0	-	0	0	-	
NEW YORK HUB ZONE J PEAK	JN	0	0	-	0	-	0	0	-	
N ILLINOIS HUB DAILY	UD	0	0	-	0	-	0	0	-	
NY1% VS GC SPREAD SWAP	VR	0	0	-	0	-	0	0	-	
NY HARBOR 1% FUEL OIL BAL	VK	0	0	-	0	-	0	0	-	
NY HARBOR HEAT OIL SWP	MP	94	112.55	-16.1%	158.43	-40.4%	71	59.97	18.3%	
NY HARBOR LOW SULPUR GAS 1000MBBL	NLS	0	0	-	0	-	0	6.23	-100.0%	
NY HARBOR RESIDUAL FUEL 1	MM	6	12.5	-50.5%	3.57	73.3%	6	10.71	-42.2%	
NYH NO 2 CRACK SPREAD CAL	HK	16	15	4.8%	5	214.3%	69	68.95	0.5%	
NYISO CAPACITY	LHV	0	0	-	0	-	0	0	-	
NYISO ZONE G 5MW D AH O P	D2	0	0	-	0	-	0	0	-	
NYISO ZONE G 5MW D AH PK	T3	0	0	-	0	-	0	0	-	
NY ULSD (ARGUS) VS HEATING OIL	7Y	40	20.45	96.7%	47.52	-15.3%	29	4.37	562.2%	
PANHANDLE BASIS SWAP FUTU	PH	0	0	-	0	-	0	0	-	
PETROCHEMICALS	22	15	4.14	252.3%	6.76	115.5%	7	8.28	-11.5%	
PETROCHEMICALS	32	7	3.86	82.4%	4.67	51.0%	3	3.08	-13.1%	
PETROCHEMICALS	3NA	0	0.45	-5.7%	0.1	350.2%	1	0.68	62.3%	
PETROCHEMICALS	51	0	0	-	0	-	0	0	-	

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	ADV	ADV	% CHG	ADV	% CHG	ADV	ADV	% CHG	ADV	ADV	% CHG
	DEC 2022	DEC 2021		NOV 2022		Y.T.D 2022	Y.T.D 2021		Y.T.D 2021		
<b>Energy Futures</b>											
PETROCHEMICALS	81	0	-	0	-	2	0.58	189.6%			
PETROCHEMICALS	8I	17	33.86	-49.4%	9.52	39	52.6	-25.0%			
PETROCHEMICALS	91	24	21	13.2%	32.38	17	19.51	-10.3%			
PETROCHEMICALS	MAA	1	4.09	-65.1%	1.43	2	2.24	-7.6%			
PETROCHEMICALS	MAE	45	25	81.9%	72.48	56	44.5	25.9%			
PETROCHEMICALS	MAS	16	8.64	87.5%	21.9	17	17.47	-0.3%			
PETROCHEMICALS	MBE	4	0	-	2.38	3	2.82	20.2%			
PETROCHEMICALS	MNB	0	2.18	-100.0%	0	0	8.35	-99.3%			
PETROCHEMICALS	MPS	21	27.32	-23.1%	29.43	15	19.62	-25.2%			
PETROCHEMICALS	PMF	0	0	-	0	0	0.04	56.3%			
PETRO CRCKS & SPRDS ASIA	STR	0	0	-	0	0	0	-			
PETRO CRCKS & SPRDS ASIA	STS	0	0	-	0	0	0	-			
PETRO CRCKS & SPRDS NA	CRB	638	757	-15.7%	468.1	747	948.49	-21.2%			
PETRO CRCKS & SPRDS NA	EXR	8	16.95	-52.0%	8.19	12	29.17	-58.7%			
PETRO CRCKS & SPRDS NA	FOC	0	0	-	0	0	0	-			
PETRO CRCKS & SPRDS NA	GBB	0	0	-	0	3	2.6	7.3%			
PETRO CRCKS & SPRDS NA	GCI	0	0	-	0	1	1.47	-59.3%			
PETRO CRCKS & SPRDS NA	GCU	0	0	-	0	1	3.49	-68.6%			
PETRO CRCKS & SPRDS NA	GFC	0	0	-	0	5	1.88	185.9%			
PETRO CRCKS & SPRDS NA	HOB	0	3.41	-100.0%	0	2	21.37	-89.2%			
PETRO CRCKS & SPRDS NA	MFR	0	0	-	0	0	0.58	-100.0%			
PETRO CRCKS & SPRDS NA	RBB	5	25.91	-81.6%	1.19	27	66.08	-59.3%			
PETRO CRCKS & SPRDS NA	RVG	97	75.59	28.2%	41	89	52.61	69.9%			
PETRO CRK&SPRD EURO	1NB	4	0	-	18	10	1.72	500.3%			
PETRO CRK&SPRD EURO	43	0	0.41	-100.0%	0	0	0.14	247.1%			
PETRO CRK&SPRD EURO	BOB	1	13.09	-94.5%	0	2	6.99	-64.7%			
PETRO CRK&SPRD EURO	EOB	0	0.68	-100.0%	0	0	0.08	-100.0%			
PETRO CRK&SPRD EURO	EPN	10	36.64	-71.5%	16.57	18	27.11	-33.4%			
PETRO CRK&SPRD EURO	EVC	0	0.68	-100.0%	1.9	3	3.46	-0.1%			
PETRO CRK&SPRD EURO	GOC	0	0	-	0	0	0	-			
PETRO CRK&SPRD EURO	MGB	0	0	-	0	0	0.28	-100.0%			
PETRO CRK&SPRD EURO	NBB	0	0	-	0	0	0.04	-100.0%			
PETRO CRK&SPRD EURO	NOB	1	0.68	4.8%	0.81	4	2.25	68.3%			
PETROLEUM PRODUCTS	1NM	0	0	-	0	0	2.85	-93.0%			
PETROLEUM PRODUCTS	BEB	0	0	-	0	0	0.01	-100.0%			

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	ADV DEC 2022	ADV DEC 2021	% CHG	ADV NOV 2022	% CHG	ADV Y.T.D 2022	ADV Y.T.D 2021	% CHG	
<b>Energy Futures</b>									
PETROLEUM PRODUCTS	BEF	0	0	-	0	-	0	0.01	-32.8%
PETROLEUM PRODUCTS	CMS	24	2.73	790.5%	0	-	8	3.13	166.9%
PETROLEUM PRODUCTS	EWG	0	0	-	2.38	-100.0%	19	21.02	-8.7%
PETROLEUM PRODUCTS	H5F	11	0	-	4.76	135.0%	4	0.24	1774.1%
PETROLEUM PRODUCTS	JCC	19	9.09	109.5%	2.38	700.0%	56	11.11	400.8%
PETROLEUM PRODUCTS	MPE	0	0	-	0	-	0	0.06	-100.0%
PETROLEUM PRODUCTS	R5E	0	0	-	0	-	0	0.02	-100.0%
PETROLEUM PRODUCTS	R5F	2	1.09	61.5%	0.81	117.7%	2	2.24	-9.2%
PETROLEUM PRODUCTS	S53	0	0	-	0	-	0	0.05	-100.0%
PETROLEUM PRODUCTS	UCS	0	0	-	0	-	0	0	-
PETROLEUM PRODUCTS	UP5	0	0	-	0	-	0	0	-
PETROLEUM PRODUCTS	VU	0	0	-	0	-	5	1.35	238.0%
PETROLEUM PRODUCTS ASIA	E6M	0	0	-	0	-	0	0.04	502.0%
PETROLEUM PRODUCTS ASIA	MJN	24	46	-47.0%	11.43	113.3%	32	15.5	103.8%
PETRO OUTFRIGHT EURO	0B	0	0	-	0	-	0	0.88	-100.0%
PETRO OUTFRIGHT EURO	0C	0	0	-	0	-	0	0.3	-100.0%
PETRO OUTFRIGHT EURO	0D	2	1.27	31.0%	2.86	-41.7%	2	3.84	-59.6%
PETRO OUTFRIGHT EURO	0E	0	0	-	0	-	0	0.08	-100.0%
PETRO OUTFRIGHT EURO	0F	2	0	-	0	-	0	0.04	558.5%
PETRO OUTFRIGHT EURO	1T	0	0	-	0	-	0	0.08	-100.0%
PETRO OUTFRIGHT EURO	5L	0	0	-	0.95	-100.0%	0	0	-
PETRO OUTFRIGHT EURO	7I	0	0	-	0	-	1	0.2	472.3%
PETRO OUTFRIGHT EURO	7R	0	0	-	0	-	0	0.31	-41.5%
PETRO OUTFRIGHT EURO	CBB	0	0	-	0	-	0	0.13	-100.0%
PETRO OUTFRIGHT EURO	CGB	0	0	-	0	-	0	0	-
PETRO OUTFRIGHT EURO	CPB	21	24.55	-15.8%	3.81	442.5%	9	16.48	-46.8%
PETRO OUTFRIGHT EURO	EFM	0	0	-	0	-	0	0.05	-100.0%
PETRO OUTFRIGHT EURO	ENS	0	0	-	0	-	0	0	-
PETRO OUTFRIGHT EURO	EWN	3	19.91	-82.8%	19.29	-82.2%	9	10.05	-11.1%
PETRO OUTFRIGHT EURO	FLB	0	0	-	0	-	0	0.02	-100.0%
PETRO OUTFRIGHT EURO	H5G	0	0	-	0	-	0	0	-
PETRO OUTFRIGHT EURO	JFB	0	0	-	0	-	0	0.04	-100.0%
PETRO OUTFRIGHT EURO	M1B	31	63.86	-51.5%	27.33	13.2%	49	58.75	-17.0%
PETRO OUTFRIGHT EURO	MBB	0	0	-	0	-	0	0.95	-100.0%
PETRO OUTFRIGHT EURO	MBN	15	22.32	-31.7%	18.57	-17.9%	27	16.87	59.0%

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	ADV DEC 2022	ADV DEC 2021	% CHG	ADV NOV 2022	% CHG	ADV Y.T.D 2022	ADV Y.T.D 2021	% CHG	
<b>Energy Futures</b>									
PETRO OUTFRIGHT EURO	MEF	0	2.05	-100.0%	0.95	-100.0%	0	9.52	-95.2%
PETRO OUTFRIGHT EURO	MQA	0	2.86	-100.0%	1.43	-100.0%	1	0.52	67.1%
PETRO OUTFRIGHT EURO	R53	0	0.55	-100.0%	0	-	0	0.55	-100.0%
PETRO OUTFRIGHT EURO	R5B	0	0	-	0	-	0	0.22	-100.0%
PETRO OUTFRIGHT EURO	R5M	70	66.41	4.9%	62.14	12.1%	82	60.97	33.9%
PETRO OUTFRIGHT EURO	R5O	19	52.09	-63.8%	22.48	-16.1%	42	36.89	13.3%
PETRO OUTFRIGHT EURO	RBM	0	1.5	-100.0%	0.48	-100.0%	0	0.27	82.8%
PETRO OUTFRIGHT EURO	S5B	0	0	-	0	-	0	0.02	0.5%
PETRO OUTFRIGHT EURO	S5F	5	5.59	-12.3%	5.24	-6.4%	5	5.19	4.5%
PETRO OUTFRIGHT EURO	S5M	92	96.64	-4.6%	99.81	-7.7%	103	85.54	19.9%
PETRO OUTFRIGHT EURO	S5O	52	117.68	-56.0%	50.57	2.4%	112	66.41	68.8%
PETRO OUTFRIGHT EURO	SMU	0	0	-	0	-	0	5.75	-100.0%
PETRO OUTFRIGHT EURO	SR5	0	0	-	0.57	-25.0%	1	0	-
PETRO OUTFRIGHT EURO	TLB	0	0	-	0	-	0	0.23	-100.0%
PETRO OUTFRIGHT EURO	ULB	5	0	-	29.76	-84.0%	3	0	-
PETRO OUTFRIGHT EURO	V0	0	0	-	0	-	0	2.31	-100.0%
PETRO OUTFRIGHT NA	A8B	0	2.27	-100.0%	3.57	-100.0%	9	4.52	109.6%
PETRO OUTFRIGHT NA	AB6	5	12.73	-62.6%	20.71	-77.0%	16	9.44	67.9%
PETRO OUTFRIGHT NA	BCR	164	93.18	76.3%	42.86	283.3%	118	90.31	30.2%
PETRO OUTFRIGHT NA	FCB	0	0	-	0	-	0	0.13	-100.0%
PETRO OUTFRIGHT NA	JE	0	0	-	0	-	0	1.09	-78.1%
PETRO OUTFRIGHT NA	JET	17	20.45	-18.5%	27.38	-39.1%	27	18.25	46.5%
PETRO OUTFRIGHT NA	JTB	0	31.82	-100.0%	1.19	-100.0%	9	5.42	58.9%
PETRO OUTFRIGHT NA	MBL	0	0	-	2.86	-100.0%	4	2.9	26.4%
PETRO OUTFRIGHT NA	MEN	1	8.77	-89.1%	0.62	53.9%	2	4.48	-45.4%
PETRO OUTFRIGHT NA	MEO	1	6.14	-88.4%	23.67	-97.0%	12	20.09	-38.1%
PETRO OUTFRIGHT NA	MFD	0	0	-	0	-	0	0	-
PETRO OUTFRIGHT NA	MMF	0	0	-	0	-	0	0.26	-69.1%
PJM AD HUB 5MW REAL TIME	V3	0	0	-	0	-	0	0	-
PJM AD HUB 5MW REAL TIME	Z9	0	0	-	0	-	0	0	-
PJM DAILY	JD	0	0	-	0	-	0	0	-
PJM NI HUB 5MW REAL TIME	B3	0	0	-	0	-	0	0	-
PJM NI HUB 5MW REAL TIME	B6	0	0	-	0	-	0	0	-
PJM WESTH RT OFF-PEAK	N9	0	0	-	0	-	0	0	-
PJM WESTH RT PEAK	L1	0	0	-	0	-	0	0	-

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		ADV DEC 2022	ADV DEC 2021	% CHG	ADV NOV 2022	% CHG	ADV Y.T.D 2022	ADV Y.T.D 2021	% CHG
<b>Energy Futures</b>									
PLASTICS	PGP	27	39.86	-32.6%	34.71	-22.6%	45	64.06	-30.3%
PREMIUM UNLND 10P FOB MED	3G	0	0	-	0	-	0	0.73	-39.8%
PROPANE NON-LDH MB (OPIS) BALMO SWP	1S	95	88.86	7.0%	95.24	-0.2%	82	66.88	22.3%
PROPANE NON-LDH MT. BEL (OPIS) SWP	1R	1,082	489.64	120.9%	1,182.76	-8.5%	699	763.66	-8.5%
RBOB CALENDAR SWAP	RL	196	332.5	-40.9%	374.14	-47.5%	256	320.34	-20.0%
RBOB CRACK SPREAD	RM	3	35.45	-91.9%	14.29	-80.0%	61	89.2	-31.8%
RBOB CRACK SPREAD BALMO S	1E	0	0	-	0	-	1	0	-
RBOB GASOLINE BALMO CLNDR	1D	14	5.91	143.4%	0.43	3255.3%	51	35.58	43.6%
RBOB PHY	MRB	0	0	-	1.43	-90.0%	0	0	-
RBOB PHY	RBL	0	0	-	0	-	0	0	-
RBOB VS HEATING OIL SWAP	RH	0	0	-	0	-	4	4.38	-11.4%
SINGAPORE 180CST BALMO	BS	0	0	-	0.05	-100.0%	0	0	-
SINGAPORE 380CST BALMO	BT	0	0	-	0	-	0	0.09	-95.6%
SINGAPORE 380CST FUEL OIL	SE	2	6	-58.7%	0.95	160.0%	5	8.55	-35.9%
SINGAPORE FUEL 180CST CAL	UA	1	0	-	0	-	0	0	-
SINGAPORE FUEL OIL 180 CS	GMS	0	0	-	0	-	0	0.05	-100.0%
SINGAPORE FUEL OIL SPREAD	SD	0	0	-	0	-	0	0	-
SINGAPORE GASOIL	MAF	6	17.59	-65.1%	3.29	87.0%	17	13.79	20.0%
SINGAPORE GASOIL	MTB	0	0.45	-100.0%	0	-	1	0.25	217.4%
SINGAPORE GASOIL	MTS	18	14.68	19.4%	13.19	32.9%	16	17.52	-8.7%
SINGAPORE GASOIL	SBM	0	2.55	-100.0%	0	-	1	0.93	42.4%
SINGAPORE GASOIL CALENDAR	MSG	2	28.18	-94.3%	1.24	30.8%	5	35.58	-85.4%
SINGAPORE GASOIL SWAP	SG	0	47.23	-100.0%	0	-	13	56.93	-77.9%
SINGAPORE GASOIL VS ICE	GA	0	65.91	-100.0%	0	-	16	49.83	-68.5%
SINGAPORE JET KERO GASOIL	RK	0	34.09	-100.0%	0	-	15	17.85	-16.9%
SINGAPORE JET KEROSENE SW	KS	0	0	-	0	-	2	13.63	-88.2%
SINGAPORE MOGAS 92 UNLEADED BALMO	1P	0	0	-	0	-	3	2.42	33.3%
SINGAPORE MOGAS 92 UNLEADED SWP	1N	2	24.64	-90.3%	0	-	3	31.04	-91.7%
TC2 ROTTERDAM TO USAC 37K	TM	0	0	-	0.57	-100.0%	2	1.19	50.6%
TC5 RAS TANURA TO YOKOHAM	TH	0	0	-	0	-	1	2.46	-60.7%
TD3 MEG TO JAPAN 250K MT	TL	0	34.09	-100.0%	5.71	-100.0%	26	51.57	-50.5%
TEXAS EASTERN ZONE M-3 BA	NX	0	0	-	0	-	0	0	-
UK NBP NAT GAS CAL MTH FUT	UKG	0	0	-	0	-	0	10.06	-100.0%
ULSD UP-DOWN BALMO SWP	1L	210	460.23	-54.5%	214.76	-2.4%	280	258.63	8.4%
UP DOWN GC ULSD VS NMX HO	LT	1,133	1,249.77	-9.4%	975.05	16.2%	1,229	1,609.34	-23.6%

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		ADV DEC 2022	ADV DEC 2021	% CHG	ADV NOV 2022	% CHG	ADV Y.T.D 2022	ADV Y.T.D 2021	% CHG	
<b>Energy Futures</b>										
WTI-BRENT CALENDAR SWAP	BK	1,949	2,156.77	-9.7%	2,082.29	-6.4%	2,390	2,460.15	-2.9%	
WTI CALENDAR	CS	2,451	3,205.36	-23.5%	2,086.19	17.5%	2,868	2,564.44	11.8%	
WTI MIDLAND CRUDE OIL	WTL	0	18.18	-100.0%	0	-	4	12.12	-70.4%	
WTS (ARGUS) VS WTI SWAP	FF	26	21.82	17.9%	10.29	150.0%	113	154.11	-26.6%	
WTS (ARGUS) VS WTI TRD MT	FH	5	1.36	249.2%	0	-	28	25.42	11.8%	
<b>Energy Options</b>										
BRENT CALENDAR SWAP	BA	47	0	-	0	-	17	12.33	37.8%	
BRENT CRUDE OIL 1 M CSO	9C	714	22.73	3042.9%	1,678.57	-57.4%	723	787.9	-8.2%	
BRENT OIL LAST DAY	BE	30	272.73	-89.1%	940.48	-96.8%	518	944.41	-45.2%	
BRENT OIL LAST DAY	BZO	335	1,300.86	-74.3%	435.81	-23.2%	774	1,267.82	-39.0%	
COAL API2 INDEX	F2C	2	1.14	109.5%	0.95	150.0%	2	6.37	-71.2%	
COAL API2 INDEX	F2Q	0	0	-	0	-	0	4.4	-91.0%	
CRUDE OIL	6Y	0	0	-	0	-	0	0	-	
CRUDE OIL 1MO	WA	1,521	3,378.41	-55.0%	2,734.52	-44.4%	2,663	5,215.38	-48.9%	
CRUDE OIL APO	AO	944	3,724.23	-74.7%	428.76	120.1%	947	1,655.17	-42.8%	
CRUDE OIL CALNDR STRIP	6F	0	0	-	0	-	0	0	-	
CRUDE OIL OUTRIGHTS	ECCL	529	0	-	342.1	54.5%	95	0	-	
CRUDE OIL PHY	LC	736	500.91	47.0%	891.9	-17.5%	1,552	605.22	156.5%	
CRUDE OIL PHY	LO	81,374	109,721.18	-25.8%	130,580.62	-37.7%	115,266	119,071.67	-3.2%	
CRUDE OIL PHY	LO1	1,076	803.09	33.9%	2,645.43	-59.3%	1,580	1,020.98	54.8%	
CRUDE OIL PHY	LO2	2,318	703.41	229.5%	1,994.38	16.2%	1,331	834.95	59.4%	
CRUDE OIL PHY	LO3	860	681.73	26.1%	1,058.24	-18.8%	849	657.99	29.0%	
CRUDE OIL PHY	LO4	1,537	840.82	82.7%	2,311.76	-33.5%	1,644	1,105.7	48.6%	
CRUDE OIL PHY	LO5	1,129	991.5	13.9%	0	-	398	401.27	-0.9%	
CRUDE OIL PHY	MCO	709	0	-	773.67	-8.4%	280	0	-	
CRUDE OIL PHY	MW1	34	0	-	102.9	-67.4%	33	0	-	
CRUDE OIL PHY	MW2	94	0	-	120.95	-21.9%	43	0	-	
CRUDE OIL PHY	MW3	62	0	-	56.1	10.1%	23	0	-	
CRUDE OIL PHY	MW4	66	0	-	149.38	-55.9%	48	0	-	
CRUDE OIL PHY	MW5	43	0	-	0	-	17	0	-	
ELEC FINSETTLED	PJN	0	0	-	0	-	0	0	-	
ETHANOL SWAP	CVR	41	234.77	-82.7%	91	-55.3%	126	165.34	-24.0%	
ETHANOL SWAP	GVR	0	0	-	0	-	0	0	-	

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	ADV DEC 2022	ADV DEC 2021	% CHG	ADV NOV 2022	% CHG	ADV Y.T.D 2022	ADV Y.T.D 2021	% CHG		% CHG
<b>Energy Options</b>										
FREIGHT MARKETS	FLO	0	0	-	0	-	0	0	-	-
HEATING OIL CRK SPD AVG PRICE OPTION	3W	0	0	-	0	-	3	7.86	-62.0%	-
HEATING OIL PHY	FZ	0	0	-	0	-	0	8.83	-100.0%	-
HEATING OIL PHY	LB	0	53.18	-100.0%	0	-	2	12.23	-87.6%	-
HEATING OIL PHY	OH	744	537.36	38.5%	681.86	9.1%	556	410.75	35.4%	-
HENRY HUB FINANCIAL LAST	E7	484	576.95	-16.2%	307.19	57.5%	251	399.77	-37.2%	-
HENRY HUB FINANCIAL LAST	ECNG	600	0	-	205.14	192.7%	92	0	-	-
HO 1 MONTH CLNDR OPTIONS	FA	121	0	-	71.43	70.0%	42	0.79	5183.1%	-
LLS CRUDE OIL	HTO	0	0	-	0	-	5	0	-	-
LLS CRUDE OIL	WTO	0	81.82	-100.0%	0	-	18	7.14	151.0%	-
MCCLOSKEY ARA ARGS COAL	MTO	0	0	-	0	-	0	2.14	-100.0%	-
NATURAL GAS	LN1	0	0	-	7.14	-100.0%	3	0	-	-
NATURAL GAS	LN2	0	0	-	0	-	6	0	-	-
NATURAL GAS	LN3	0	0	-	0	-	4	0	-	-
NATURAL GAS	LN4	0	0	-	0	-	6	0	-	-
NATURAL GAS	LN5	0	0	-	0	-	0	0	-	-
NATURAL GAS 1 M CSO FIN	G4	6,522	4,481.5	45.5%	3,683.33	77.1%	4,430	2,958.81	49.7%	-
NATURAL GAS 2 M CSO FIN	G2	0	375	-100.0%	0	-	56	152.78	-63.2%	-
NATURAL GAS 3 M CSO FIN	G3	31	0	-	154.76	-80.0%	1,415	984.1	43.8%	-
NATURAL GAS 5 M CSO FIN	G5	0	7.68	-100.0%	95.24	-100.0%	192	74.68	157.4%	-
NATURAL GAS 6 M CSO FIN	G6	488	575	-15.1%	589.29	-17.2%	452	506.35	-10.7%	-
NATURAL GAS OPT	JFO	0	0	-	0	-	2	0	-	-
NATURAL GAS OPT	JKO	0	81.82	-100.0%	40.48	-100.0%	26	92.7	-72.3%	-
NATURAL GAS OPT	TFO	0	0	-	0	-	3	610.2	-99.5%	-
NATURAL GAS OPTION ON CALENDAR STR	6J	0	24.09	-100.0%	0	-	2	253.37	-99.1%	-
NATURAL GAS PHY	KD	93	21.59	330.1%	19.05	387.5%	68	84.17	-19.6%	-
NATURAL GAS PHY	LN	97,960	58,116.86	68.6%	89,401.43	9.6%	95,245	94,156.59	1.2%	-
NATURAL GAS PHY	ON	2,994	3,552.14	-15.7%	3,056.52	-2.0%	3,868	4,140.3	-6.6%	-
NATURAL GAS SUMMER STRIP	4D	0	0	-	0	-	0	0	-	-
NY HARBOR HEAT OIL SWP	AT	134	28.5	368.8%	121.1	10.3%	101	50.13	101.0%	-
PETROCHEMICALS	4H	43	19.09	124.5%	0	-	17	40.96	-59.0%	-
PETROCHEMICALS	4J	0	3.64	-100.0%	0	-	0	5.54	-100.0%	-
PETROCHEMICALS	4K	0	0	-	0	-	0	0	-	-
PETROCHEMICALS	CPR	0	0	-	0	-	0	0.71	-100.0%	-
PETRO OUTRIGHT EURO	BCO	0	0	-	0	-	0	0	-	-

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<b>Energy Options</b>										
PETRO OUTRIGHT NA	DAP	0	9.55	-100.0%	0	-	1	6.43	-76.8%	
PJM WES HUB PEAK CAL MTH	6OA	0	0	-	0	-	0	0	-	
PJM WES HUB PEAK LMP 50MW	PMA	0	0	-	0	-	0	0	-	
RBOB 1MO CAL SPD OPTIONS	ZA	0	0	-	11.9	-100.0%	14	0	-	
RBOB CALENDAR SWAP	RA	0	0	-	0.95	-100.0%	14	5.06	184.1%	
RBOB PHY	OB	53	139.73	-62.2%	100.67	-47.5%	170	338.04	-49.8%	
RBOB PHY	RF	0	1.36	-100.0%	1.43	-100.0%	6	2.02	203.2%	
SHORT TERM	U11	0	0	-	4.76	-100.0%	2	0.2	703.2%	
SHORT TERM	U12	10	0	-	0	-	3	0.6	402.0%	
SHORT TERM	U13	0	15.91	-100.0%	0	-	0	2.18	-81.7%	
SHORT TERM	U14	0	2.27	-100.0%	0	-	2	1.39	43.4%	
SHORT TERM	U15	0	0	-	0	-	0	1.39	-85.7%	
SHORT TERM	U22	0	4.55	-100.0%	0	-	1	0.4	251.4%	
SHORT TERM	U24	0	0	-	0	-	0	0.4	0.4%	
SHORT TERM	U25	0	0	-	0	-	2	1.19	33.9%	
SHORT TERM	U26	0	0	-	0	-	1	0.3	167.7%	
SHORT TERM NATURAL GAS	U01	0	0	-	0	-	1	1.09	-8.7%	
SHORT TERM NATURAL GAS	U02	0	0	-	0	-	0	2.58	-100.0%	
SHORT TERM NATURAL GAS	U03	0	2.27	-100.0%	0	-	0	0.6	-100.0%	
SHORT TERM NATURAL GAS	U04	0	0	-	0	-	4	2.18	73.4%	
SHORT TERM NATURAL GAS	U05	10	0	-	0	-	3	0.79	251.4%	
SHORT TERM NATURAL GAS	U06	0	0	-	0	-	2	3.17	-31.0%	
SHORT TERM NATURAL GAS	U07	0	0	-	0	-	4	1.29	185.7%	
SHORT TERM NATURAL GAS	U08	0	0	-	0	-	1	0.2	301.6%	
SHORT TERM NATURAL GAS	U09	5	0	-	0	-	0	1.19	-66.5%	
SHORT TERM NATURAL GAS	U10	0	2.27	-100.0%	23.81	-100.0%	3	0.6	368.5%	
SHORT TERM NATURAL GAS	U16	0	0	-	0	-	0	0.3	-100.0%	
SHORT TERM NATURAL GAS	U17	0	0	-	0	-	0	0.6	-100.0%	
SHORT TERM NATURAL GAS	U18	0	0	-	0	-	1	0.4	251.4%	
SHORT TERM NATURAL GAS	U19	0	0	-	0	-	2	0	-	
SHORT TERM NATURAL GAS	U20	0	0	-	0	-	1	1.19	-16.3%	
SHORT TERM NATURAL GAS	U21	10	0	-	0	-	5	1.19	284.9%	
SHORT TERM NATURAL GAS	U27	0	0	-	0	-	0	0.2	-100.0%	
SHORT TERM NATURAL GAS	U28	0	0	-	0	-	1	0.4	251.4%	
SHORT TERM NATURAL GAS	U29	0	0	-	7.14	-100.0%	1	0.2	201.2%	

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<b>Energy Options</b>									
SHORT TERM NATURAL GAS	U30	0	0	-	0	-	0	0.99	-59.8%
SHORT TERM NATURAL GAS	U31	0	0	-	0	-	1	0	-
WTI-BRENT BULLET SWAP	BV	464	2,492.05	-81.4%	590.48	-21.4%	1,537	1,550.6	-0.9%
WTI CRUDE OIL 1 M CSO FI	7A	5,265	520.45	911.7%	3,540.48	48.7%	2,952	3,008.87	-1.9%
<b>Ag Products Futures</b>									
COFFEE	KT	0	0	-	0	-	0	0.01	-100.0%
<b>TOTAL FUTURES GROUP</b>									
Ag Products Futures		0	0	-	0	-	0	0.01	-100.0%
Energy Futures		1,578,333	1,657,961.14	-4.8%	1,656,834.24	-4.7%	1,784,923	1,943,802.43	-8.2%
Metals Futures		355,210	302,612.27	17.4%	559,158.48	-36.5%	459,228	496,203.35	-7.5%
<b>TOTAL FUTURES</b>		<b>1,933,542</b>	<b>1,960,573.41</b>	<b>-1.4%</b>	<b>2,215,992.71</b>	<b>-12.7%</b>	<b>2,244,151.38</b>	<b>2,440,005.79</b>	<b>-8.0%</b>
<b>TOTAL OPTIONS GROUP</b>									
Energy Options		210,229	194,904.14	7.9%	250,053.1	-15.9%	240,529	243,655.98	-1.3%
Metals Options		54,092	33,100.59	63.4%	66,646.43	-18.8%	61,414	51,839.82	18.5%
<b>TOTAL OPTIONS</b>		<b>264,321</b>	<b>228,004.73</b>	<b>15.9%</b>	<b>316,699.52</b>	<b>-16.5%</b>	<b>301,943.4</b>	<b>295,495.8</b>	<b>2.2%</b>
<b>TOTAL COMBINED</b>									
Metals		409,302	335,712.86	21.9%	625,804.9	-34.6%	520,642	548,043.17	-5.0%
Energy		1,788,562	1,852,865.27	-3.5%	1,906,887.33	-6.2%	2,025,452	2,187,458.41	-7.4%
Ag Products		0	0	-	0	-	0	0.01	-100.0%
<b>GRAND TOTAL</b>		<b>2,197,863</b>	<b>2,188,578.14</b>	<b>0.4%</b>	<b>2,532,692.24</b>	<b>-13.2%</b>	<b>2,546,094.78</b>	<b>2,735,501.59</b>	<b>-6.9%</b>

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Commodity	ADV DEC 2022	ADV DEC 2021	% CHG	ADV NOV 2022	% CHG	ADV Y.T.D 2022	ADV Y.T.D 2021	% CHG
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