

NYMEX/COMEX Exchange Volume Report - Monthly

| Commodity | | VOLUME JUL 2023 | VOLUME JUL 2022 | % CHG | VOLUME JUN 2023 | % CHG | VOLUME Y.T.D 2023 | VOLUME Y.T.D 2022 | % CHG |
|----------------------------|-----|--------------------|--------------------|---------|--------------------|--------|----------------------|----------------------|--------|
| Ag Products Futures | | | | | | | | | |
| COFFEE | KT | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| Energy Futures | | | | | | | | | |
| CRUDE OIL PHY | CL | 16,382,680 | 16,111,251 | 1.7% | 18,002,630 | -9.0% | 117,166,564 | 127,563,927 | -8.2% |
| CRUDE OIL | WS | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0 | 0.0% |
| MINY WTI CRUDE OIL | QM | 268,736 | 654,834 | -59.0% | 343,919 | -21.9% | 2,281,927 | 4,402,719 | -48.2% |
| BRENT OIL LAST DAY | BZ | 1,064,524 | 1,321,274 | -19.4% | 1,236,060 | -13.9% | 8,086,789 | 10,675,929 | -24.3% |
| HEATING OIL PHY | HO | 3,104,862 | 2,896,173 | 7.2% | 3,258,165 | -4.7% | 21,775,673 | 23,702,351 | -8.1% |
| HTG OIL | BH | 36 | 36 | 0.0% | 0 | 0.0% | 84 | 72 | 16.7% |
| MINY HTG OIL | QH | 5 | 11 | -54.5% | 13 | -61.5% | 72 | 57 | 26.3% |
| RBOB PHY | RB | 3,748,996 | 2,964,368 | 26.5% | 4,390,089 | -14.6% | 25,510,546 | 26,237,243 | -2.8% |
| MINY RBOB GAS | QU | 6 | 7 | -14.3% | 7 | -14.3% | 68 | 60 | 13.3% |
| NATURAL GAS | HP | 136,135 | 136,969 | -0.6% | 165,759 | -17.9% | 1,331,269 | 1,296,738 | 2.7% |
| LTD NAT GAS | HH | 269,541 | 291,934 | -7.7% | 324,143 | -16.8% | 2,424,423 | 2,520,308 | -3.8% |
| MINY NATURAL GAS | QG | 148,199 | 314,192 | -52.8% | 183,865 | -19.4% | 1,698,037 | 2,242,911 | -24.3% |
| NATURAL GAS PHY | NG | 6,478,580 | 5,826,935 | 11.2% | 9,070,441 | -28.6% | 58,293,921 | 53,221,312 | 9.5% |
| RBOB GAS | RT | 12 | 24 | -50.0% | 0 | 0.0% | 48 | 48 | 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 | 2,240 | 8,180 | -72.6% | 2,375 | -5.7% | 26,320 | 39,085 | -32.7% |
| ARGUS PROPAN FAR EST INDE | 7E | 8,213 | 4,635 | 77.2% | 9,023 | -9.0% | 58,991 | 39,301 | 50.1% |
| ARGUS PROPAN(SAUDI ARAMCO | 9N | 2,493 | 1,306 | 90.9% | 2,356 | 5.8% | 19,880 | 14,102 | 41.0% |
| BRENT BALMO SWAP | J9 | 15 | 0 | 0.0% | 20 | -25.0% | 35 | 1,587 | -97.8% |
| BRENT CALENDAR SWAP | CY | 4,310 | 10,029 | -57.0% | 5,073 | -15.0% | 59,474 | 102,375 | -41.9% |
| BRENT FINANCIAL FUTURES | BB | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| BRENT FINANCIAL FUTURES | MBC | 0 | 240 | -100.0% | 0 | 0.0% | 330 | 240 | 37.5% |
| BRENT FINANCIAL FUTURES | MDB | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| 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% |
| CAR VINTAGE | GEO | 4,420 | 6,167 | -28.3% | 5,981 | -26.1% | 73,480 | 19,036 | 286.0% |
| CAR VINTAGE | NGO | 4,667 | 15,297 | -69.5% | 3,740 | 24.8% | 43,138 | 86,983 | -50.4% |
| CEU ENERGY | TFU | 330 | 0 | - | 0 | - | 330 | 0 | - |
| CHICAGO ETHANOL SWAP | CU | 71,785 | 55,492 | 29.4% | 90,038 | -20.3% | 513,240 | 406,523 | 26.3% |
| CHICAGO ULSD PL VS HO SPR | 5C | 2,415 | 425 | 468.2% | 1,305 | 85.1% | 8,280 | 4,113 | 101.3% |

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|-------------------------------------|--------------------|--------------------|-----------|--------------------|-----------|----------------------|----------------------|------------|---------|
| Energy Futures | | | | | | | | | |
| CHICAGO UNL GAS PL VS RBO | 3C | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0 | 0.0% |
| CONWAY NATURAL GASOLINE (OPIS) SWAP | 8L | 36 | 0 | 0.0% | 72 | -50.0% | 486 | 1,721 | -71.8% |
| CONWAY NORMAL BUTANE (OPIS) SWAP | 8M | 333 | 550 | -39.5% | 510 | -34.7% | 2,033 | 2,542 | -20.0% |
| CONWAY PROPANE 5 DECIMALS SWAP | 8K | 17,922 | 13,825 | 29.6% | 21,781 | -17.7% | 134,540 | 108,320 | 24.2% |
| CRUDE OIL | LPS | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| CRUDE OIL LAST DAY | 26 | 120 | 572 | -79.0% | 139 | -13.7% | 2,691 | 2,946 | -8.7% |
| CRUDE OIL OUTRIGHTS | 42 | 883 | 708 | 24.7% | 236 | 274.2% | 2,697 | 6,846 | -60.6% |
| CRUDE OIL OUTRIGHTS | CC5 | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 1,566 | -100.0% |
| CRUDE OIL OUTRIGHTS | CSW | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 1,260 | -100.0% |
| CRUDE OIL OUTRIGHTS | GSW | 0 | 105 | -100.0% | 0 | 0.0% | 0 | 105 | -100.0% |
| CRUDE OIL OUTRIGHTS | HTT | 120,209 | 51,034 | 135.5% | 106,080 | 13.3% | 978,769 | 485,266 | 101.7% |
| CRUDE OIL OUTRIGHTS | LSW | 0 | 0 | 0.0% | 0 | 0.0% | 100 | 3,830 | -97.4% |
| CRUDE OIL OUTRIGHTS | WCW | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 16,530 | -100.0% |
| 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 | 0.0% |
| CRUDE OIL PHY | MCL | 1,698,892 | 2,585,141 | -34.3% | 2,108,466 | -19.4% | 13,487,967 | 18,232,736 | -26.0% |
| CRUDE OIL SPRDS | ANT | 2,403 | 860 | 179.4% | 0 | 0.0% | 5,233 | 5,981 | -12.5% |
| CRUDE OIL SPRDS | BKT | 0 | 0 | - | 750 | -100.0% | 750 | 0 | - |
| CRUDE OIL SPRDS | HIL | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 3,255 | -100.0% |
| CRUDE OIL SPRDS | WTT | 45,125 | 41,039 | 10.0% | 49,488 | -8.8% | 452,649 | 354,728 | 27.6% |
| 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% |
| DAILY PJM | PAP | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| DAILY PJM | PEO | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| DAILY PJM | PWO | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| DAILY PJM | PWP | 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% |
| DAILY PJM | ZGO | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| DAILY PJM | ZJO | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| DATED TO FRONTLINE BRENT | FY | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 2,220 | -100.0% |
| DIESEL 10P BRG FOB RDM VS | 7X | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 5 | -100.0% |
| DOMINION TRANSMISSION INC | PG | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |



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|-------------------------------------|-----|--------------------|--------------------|------------|--------------------|---------|----------------------|----------------------|---------|
| Energy Futures | | | | | | | | | |
| DUBAI CRUDE OIL CALENDAR | DC | 400 | 0 | 0.0% | 0 | 0.0% | 400 | 2,000 | -80.0% |
| DUTCH TTF NATURAL GAS CAL MONTH FUT | TTF | 28,974 | 21 | 137,871.4% | 26,713 | 8.5% | 68,644 | 14,394 | 376.9% |
| EAST/WEST FUEL OIL SPREAD | EW | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| EIA FLAT TAX ONHWAY DIESE | A5 | 0 | 0 | 0.0% | 60 | -100.0% | 781 | 816 | -4.3% |
| ELEC FINSETTLED | 47 | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| ELECTRICITY OFF PEAK | 46 | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| EMMISSIONS | CGO | 3,219 | 3,695 | -12.9% | 1,595 | 101.8% | 16,012 | 9,527 | 68.1% |
| ETHANOL | MTH | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 10 | -100.0% |
| ETHANOL | Z1B | 10 | 0 | - | 0 | 0.0% | 36 | 0 | - |
| ETHANOL SWAP | MT2 | 140 | 135 | 3.7% | 525 | -73.3% | 2,340 | 1,435 | 63.1% |
| ETHANOL T2 FOB ROTT INCL DUTY SWAP | Z1 | 4,180 | 1,248 | 234.9% | 5,324 | -21.5% | 29,984 | 19,123 | 56.8% |
| EURO 3.5% FUEL OIL RDAM B | KR | 0 | 0 | 0.0% | 87 | -100.0% | 126 | 0 | 0.0% |
| EURO GASOIL 10 CAL SWAP | GT | 0 | 0 | - | 0 | 0.0% | 0 | 0 | - |
| EURO GASOIL 10PPM VS ICE | ET | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 1,169 | -100.0% |
| EUROPE 1% FUEL OIL NWE CA | UF | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0 | 0.0% |
| EUROPE 3.5% FUEL OIL MED | UI | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| EUROPE 3.5% FUEL OIL RDAM | UV | 0 | 0 | 0.0% | 3 | -100.0% | 223 | 546 | -59.2% |
| EUROPEAN GASOIL (ICE) | 7F | 0 | 1,738 | -100.0% | 24 | -100.0% | 261 | 12,599 | -97.9% |
| EUROPEAN NAPHTHA BALMO | KZ | 25 | 7 | 257.1% | 0 | 0.0% | 89 | 152 | -41.4% |
| EUROPEAN NAPHTHA CRACK SPR | EN | 3,263 | 843 | 287.1% | 2,697 | 21.0% | 22,421 | 17,548 | 27.8% |
| EUROPE DATED BRENT SWAP | UB | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0 | 0.0% |
| EUROPE JET KERO NWE CALSW | UJ | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| EUROPE NAPHTHA CALSWAP | UN | 636 | 307 | 107.2% | 840 | -24.3% | 6,689 | 4,731 | 41.4% |
| EURO PROPANE CIF ARA SWA | PS | 2,235 | 920 | 142.9% | 1,881 | 18.8% | 13,750 | 11,345 | 21.2% |
| FREIGHT MARKETS | BF2 | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| FREIGHT MARKETS | BL2 | 15 | 45 | -66.7% | 90 | -83.3% | 1,200 | 345 | 247.8% |
| FREIGHT MARKETS | CS3 | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 10 | -100.0% |
| FREIGHT MARKETS | CS4 | 0 | 0 | 0.0% | 40 | -100.0% | 70 | 360 | -80.6% |
| FREIGHT MARKETS | FLJ | 0 | 0 | 0.0% | 0 | 0.0% | 10 | 0 | 0.0% |
| FREIGHT MARKETS | FLP | 0 | 30 | -100.0% | 24 | -100.0% | 29 | 222 | -86.9% |
| FREIGHT MARKETS | FRC | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0 | 0.0% |
| FREIGHT MARKETS | T2D | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 708 | -100.0% |
| FREIGHT MARKETS | T8C | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| FREIGHT MARKETS | TC6 | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0 | 0.0% |
| FREIGHT MARKETS | TD3 | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0 | 0.0% |



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|------------------------------------|-----|--------------------|--------------------|---------|--------------------|---------|----------------------|----------------------|---------|
| Energy Futures | | | | | | | | | |
| FREIGHT MARKETS | USE | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| FUEL OIL CRACK VS ICE | FO | 0 | 36 | -100.0% | 0 | 0.0% | 0 | 1,192 | -100.0% |
| FUEL OIL NWE CRACK VS ICE | FI | 0 | 0 | 0.0% | 0 | 0.0% | 30 | 66 | -54.5% |
| FUELOIL SWAP:CARGOES VS.B | FS | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0 | 0.0% |
| GAS EURO-BOB OXY NWE BARGES | 7H | 524 | 173 | 202.9% | 355 | 47.6% | 1,848 | 1,583 | 16.7% |
| GAS EURO-BOB OXY NWE BARGES CRK | 7K | 354 | 705 | -49.8% | 1,988 | -82.2% | 10,385 | 20,297 | -48.8% |
| GASOIL 0.1CIF MED VS ICE | Z5 | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 45 | -100.0% |
| GASOIL 0.1 RDAM BRGS VS I | WQ | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 10 | -100.0% |
| GASOIL 0.1 ROTTERDAM BARG | VL | 0 | 5 | -100.0% | 0 | 0.0% | 0 | 65 | -100.0% |
| GASOIL 10PPM VS ICE SWAP | TP | 0 | 0 | - | 0 | 0.0% | 0 | 0 | - |
| GASOIL CALENDAR SWAP | GX | 0 | 6 | -100.0% | 9 | -100.0% | 45 | 941 | -95.2% |
| GASOIL CRACK SPREAD CALEN | GZ | 0 | 87 | -100.0% | 0 | 0.0% | 525 | 10,842 | -95.2% |
| GASOIL MINI CALENDAR SWAP | QA | 208 | 158 | 31.6% | 176 | 18.2% | 1,443 | 2,511 | -42.5% |
| GERMAN POWER BASELOAD CAL MONTH FU | DEB | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0 | 0.0% |
| GRP THREE ULSD(PLT)VS HEA | A6 | 5,695 | 3,155 | 80.5% | 5,520 | 3.2% | 29,216 | 35,585 | -17.9% |
| GRP THREE UNL GS (PLT) VS | A8 | 2,030 | 1,707 | 18.9% | 1,507 | 34.7% | 17,017 | 25,622 | -33.6% |
| GULF COAST 3% FUEL OIL BA | VZ | 0 | 107 | -100.0% | 0 | 0.0% | 0 | 847 | -100.0% |
| GULF COAST JET FUEL CLNDR | GE | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| GULF COAST JET VS NYM 2 H | ME | 11,645 | 4,085 | 185.1% | 11,298 | 3.1% | 69,987 | 77,509 | -9.7% |
| GULF COAST NO.6 FUEL OIL | MF | 2,559 | 1,621 | 57.9% | 6,329 | -59.6% | 32,944 | 22,606 | 45.7% |
| GULF COAST NO.6 FUEL OIL | MG | 15,396 | 7,765 | 98.3% | 11,375 | 35.3% | 100,225 | 47,305 | 111.9% |
| GULF COAST ULSD CALENDAR | LY | 0 | 0 | 0.0% | 60 | -100.0% | 862 | 728 | 18.4% |
| GULF COAST ULSD CRACK SPR | GY | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0 | 0.0% |
| HEATING OIL BALMO CLNDR S | 1G | 93 | 265 | -64.9% | 295 | -68.5% | 1,256 | 3,170 | -60.4% |
| HEATING OIL CRCK SPRD BAL | 1H | 0 | 127 | -100.0% | 0 | 0.0% | 0 | 127 | -100.0% |
| HEATING OIL PHY | HOL | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0 | 0.0% |
| HEATING OIL PHY | MHO | 0 | 3 | -100.0% | 0 | 0.0% | 10 | 6 | 66.7% |
| HENRY HUB SWAP | NN | 17,940 | 15,141 | 18.5% | 17,171 | 4.5% | 232,191 | 188,833 | 23.0% |
| HOUSTON SHIP CHANNEL BASI | NH | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| ICE BRENT DUBAI SWAP | DB | 0 | 0 | 0.0% | 0 | 0.0% | 190 | 2,193 | -91.3% |
| ICE GASOIL BALMO SWAP | U9 | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| INDIANA MISO | FTD | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| INDIANA MISO | PTD | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| INDONESIAN COAL ICI4 | ICI | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0 | 0.0% |
| JAPAN C&F NAPHTHA CRACK S | JB | 0 | 214 | -100.0% | 5 | -100.0% | 5 | 312 | -98.4% |



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| Energy Futures | | | | | | | | | |
| JAPAN C&F NAPHTHA SWAP | JA | 67 | 121 | -44.6% | 381 | -82.4% | 1,129 | 935 | 20.7% |
| JAPAN NAPHTHA BALMO SWAP | E6 | 0 | 0 | 0.0% | 0 | 0.0% | 12 | 6 | 100.0% |
| JET CIF NWE VS ICE | JC | 0 | 120 | -100.0% | 0 | 0.0% | 186 | 1,447 | -87.1% |
| JET FUEL UP-DOWN BALMO CL | 1M | 1,590 | 705 | 125.5% | 1,375 | 15.6% | 7,061 | 14,666 | -51.9% |
| JKM LNG Futures | JKM | 0 | 48 | -100.0% | 0 | 0.0% | 0 | 2,155 | -100.0% |
| LA CARB DIESEL (OPIS) SWA | KL | 100 | 0 | 0.0% | 0 | 0.0% | 2,368 | 2,191 | 8.1% |
| LA CARBOB GASOLINE(OPIS)S | JL | 0 | 0 | 0.0% | 0 | 0.0% | 225 | 0 | 0.0% |
| LA JET (OPIS) SWAP | JS | 360 | 125 | 188.0% | 910 | -60.4% | 4,065 | 3,275 | 24.1% |
| LLS (ARGUS) CALENDAR SWAP | XA | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| LLS (ARGUS) VS WTI SWAP | WJ | 0 | 0 | 0.0% | 0 | 0.0% | 590 | 93 | 534.4% |
| MARS (ARGUS) VS WTI SWAP | YX | 0 | 75 | -100.0% | 0 | 0.0% | 0 | 1,610 | -100.0% |
| MARS (ARGUS) VS WTI TRD M | YV | 10,690 | 10,673 | 0.2% | 15,820 | -32.4% | 122,660 | 106,946 | 14.7% |
| MCCLOSKEY ARA ARGS COAL | MTF | 588 | 4,073 | -85.6% | 1,224 | -52.0% | 6,933 | 47,086 | -85.3% |
| MCCLOSKEY RCH BAY COAL | MFF | 0 | 166 | -100.0% | 0 | 0.0% | 12 | 2,990 | -99.6% |
| MGN1 SWAP FUT | MGN | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| MINI GAS EUROBOB OXY NWE ARGS BALMO | MEB | 110 | 10 | 1,000.0% | 0 | 0.0% | 130 | 233 | -44.2% |
| MINI RBOB V. EBOBARG NWE BRGS BALMO | MXR | 0 | 0 | 0.0% | 0 | 0.0% | 210 | 50 | 320.0% |
| MINI RBOB V. EBOB(ARGUS) NWE BRGS | MXB | 0 | 348 | -100.0% | 43 | -100.0% | 929 | 2,734 | -66.0% |
| MJC FUT | MJC | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0 | 0.0% |
| MNC FUT | MNC | 479 | 1,279 | -62.5% | 652 | -26.5% | 7,337 | 11,617 | -36.8% |
| MONT BELVIEU ETHANE 5 DECIMAL | C0 | 45,897 | 34,186 | 34.3% | 25,613 | 79.2% | 235,012 | 249,726 | -5.9% |
| MONT BELVIEU ETHANE OPIS BALMO | 8C | 80 | 415 | -80.7% | 415 | -80.7% | 4,525 | 6,193 | -26.9% |
| MONT BELVIEU LDH PROPANE 5 DECIMAL | B0 | 208,940 | 121,218 | 72.4% | 246,355 | -15.2% | 1,604,853 | 1,168,135 | 37.4% |
| MONT BELVIEU LDH PROPANE OPIS BALMO | 8O | 2,621 | 2,366 | 10.8% | 1,832 | 43.1% | 16,988 | 21,974 | -22.7% |
| MONT BELVIEU NATURAL GASOLINE 5 DEC | 7Q | 22,756 | 25,125 | -9.4% | 36,809 | -38.2% | 180,065 | 163,173 | 10.4% |
| MONT BELVIEU NATURAL GASOLINE BALMO | R0 | 668 | 2,119 | -68.5% | 2,045 | -67.3% | 10,936 | 9,685 | 12.9% |
| MONT BELVIEU NORMAL BUTANE 5 DECIMAL | D0 | 82,302 | 50,433 | 63.2% | 76,049 | 8.2% | 471,794 | 366,257 | 28.8% |
| MONT BELVIEU NORMAL BUTANE BALMO | 8J | 696 | 769 | -9.5% | 879 | -20.8% | 8,057 | 10,749 | -25.0% |
| NATURAL GAS | NWM | 330 | 0 | - | 0 | 0.0% | 480 | 0 | - |
| NATURAL GAS PEN SWP | NP | 14,715 | 34,796 | -57.7% | 25,491 | -42.3% | 154,760 | 353,442 | -56.2% |
| 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% |
| NEW ENGLAND HUB PEAK DAIL | CE | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0 | 0.0% |
| NEW YORK ETHANOL SWAP | EZ | 1,265 | 825 | 53.3% | 1,185 | 6.8% | 5,092 | 6,112 | -16.7% |
| NEW YORK HUB ZONE G PEAK | GN | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0 | 0.0% |

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|-----------------------------------|-----|--------------------|--------------------|---------|--------------------|---------|----------------------|----------------------|---------|
| Energy Futures | | | | | | | | | |
| NEW YORK HUB ZONE J PEAK | JN | 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% |
| 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% |
| NY HARBOR HEAT OIL SWP | MP | 1,590 | 1,311 | 21.3% | 2,527 | -37.1% | 17,153 | 8,032 | 113.6% |
| NY HARBOR LOW SULPUR GAS 1000MBBL | NLS | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0 | 0.0% |
| NY HARBOR RESIDUAL FUEL 1 | MM | 0 | 25 | -100.0% | 70 | -100.0% | 750 | 1,075 | -30.2% |
| NYH NO 2 CRACK SPREAD CAL | HK | 3,645 | 675 | 440.0% | 4,066 | -10.4% | 26,836 | 14,645 | 83.2% |
| NYISO CAPACITY | LHV | 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% |
| NYISO ZONE G 5MW D AH PK | T3 | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0 | 0.0% |
| NY ULSD (ARGUS) VS HEATING OIL | 7Y | 1,101 | 1,499 | -26.6% | 4,892 | -77.5% | 9,705 | 3,580 | 171.1% |
| PANHANDLE BASIS SWAP FUTU | PH | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| PETROCHEMICALS | 22 | 143 | 66 | 116.7% | 81 | 76.5% | 1,215 | 941 | 29.1% |
| PETROCHEMICALS | 32 | 57 | 31 | 83.9% | 15 | 280.0% | 553 | 280 | 97.5% |
| PETROCHEMICALS | 3NA | 8 | 0 | 0.0% | 85 | -90.6% | 369 | 178 | 107.3% |
| PETROCHEMICALS | 51 | 13 | 2 | 550.0% | 0 | 0.0% | 13 | 15 | -13.3% |
| PETROCHEMICALS | 81 | 0 | 60 | -100.0% | 0 | 0.0% | 60 | 424 | -85.8% |
| PETROCHEMICALS | 8I | 258 | 333 | -22.5% | 518 | -50.2% | 4,585 | 6,327 | -27.5% |
| PETROCHEMICALS | 91 | 330 | 55 | 500.0% | 289 | 14.2% | 2,823 | 2,154 | 31.1% |
| PETROCHEMICALS | MAA | 110 | 0 | 0.0% | 170 | -35.3% | 1,020 | 420 | 142.9% |
| PETROCHEMICALS | MAE | 1,486 | 640 | 132.2% | 1,682 | -11.7% | 10,361 | 7,480 | 38.5% |
| PETROCHEMICALS | MAS | 453 | 335 | 35.2% | 300 | 51.0% | 3,278 | 2,750 | 19.2% |
| PETROCHEMICALS | MBE | 110 | 0 | 0.0% | 280 | -60.7% | 720 | 610 | 18.0% |
| PETROCHEMICALS | MNB | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 15 | -100.0% |
| PETROCHEMICALS | MPS | 782 | 319 | 145.1% | 448 | 74.6% | 3,688 | 1,583 | 133.0% |
| PETROCHEMICALS | PMF | 0 | 0 | 0.0% | 6 | -100.0% | 26 | 12 | 116.7% |
| PETRO CRCKS & SPRDS ASIA | STR | 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 | 16,510 | 19,565 | -15.6% | 10,190 | 62.0% | 82,506 | 122,476 | -32.6% |
| PETRO CRCKS & SPRDS NA | EXR | 66 | 142 | -53.5% | 260 | -74.6% | 1,558 | 2,382 | -34.6% |
| PETRO CRCKS & SPRDS NA | FOC | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| PETRO CRCKS & SPRDS NA | GBB | 0 | 100 | -100.0% | 450 | -100.0% | 935 | 625 | 49.6% |
| PETRO CRCKS & SPRDS NA | GCI | 0 | 0 | 0.0% | 375 | -100.0% | 375 | 150 | 150.0% |
| PETRO CRCKS & SPRDS NA | GCU | 0 | 0 | 0.0% | 0 | 0.0% | 96 | 275 | -65.1% |

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|-------------------------|-----|--------------------|--------------------|---------|--------------------|----------|----------------------|----------------------|---------|
| Energy Futures | | | | | | | | | |
| PETRO CRCKS & SPRDS NA | GFC | 0 | 0 | 0.0% | 20 | -100.0% | 795 | 1,350 | -41.1% |
| PETRO CRCKS & SPRDS NA | HOB | 30 | 0 | 0.0% | 0 | 0.0% | 1,330 | 577 | 130.5% |
| PETRO CRCKS & SPRDS NA | MFR | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0 | 0.0% |
| PETRO CRCKS & SPRDS NA | RBB | 80 | 50 | 60.0% | 595 | -86.6% | 4,549 | 5,603 | -18.8% |
| PETRO CRCKS & SPRDS NA | RVG | 450 | 1,069 | -57.9% | 35 | 1,185.7% | 9,119 | 16,896 | -46.0% |
| PETRO CRCKS & SPRDS NA | SF3 | 0 | 0 | - | 0 | 0.0% | 12 | 0 | - |
| PETRO CRK&SPRD EURO | 1NB | 0 | 0 | 0.0% | 0 | 0.0% | 265 | 1,785 | -85.2% |
| PETRO CRK&SPRD EURO | 43 | 8 | 0 | 0.0% | 0 | 0.0% | 103 | 121 | -14.9% |
| PETRO CRK&SPRD EURO | BOB | 0 | 0 | 0.0% | 0 | 0.0% | 120 | 575 | -79.1% |
| PETRO CRK&SPRD EURO | EOB | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0 | 0.0% |
| PETRO CRK&SPRD EURO | EPN | 459 | 310 | 48.1% | 678 | -32.3% | 2,915 | 2,495 | 16.8% |
| PETRO CRK&SPRD EURO | EVC | 0 | 0 | 0.0% | 30 | -100.0% | 375 | 787 | -52.4% |
| PETRO CRK&SPRD EURO | GOC | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 9 | -100.0% |
| PETRO CRK&SPRD EURO | MGB | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| PETRO CRK&SPRD EURO | MUD | 0 | 0 | - | 0 | 0.0% | 30 | 0 | - |
| PETRO CRK&SPRD EURO | NBB | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| PETRO CRK&SPRD EURO | NOB | 94 | 83 | 13.3% | 194 | -51.5% | 759 | 795 | -4.5% |
| PETROLEUM PRODUCTS | 1NM | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 50 | -100.0% |
| PETROLEUM PRODUCTS | BEB | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| PETROLEUM PRODUCTS | BEF | 3 | 0 | 0.0% | 0 | 0.0% | 3 | 2 | 50.0% |
| PETROLEUM PRODUCTS | CMS | 0 | 200 | -100.0% | 0 | 0.0% | 1,020 | 920 | 10.9% |
| PETROLEUM PRODUCTS | EWG | 0 | 0 | 0.0% | 0 | 0.0% | 1,406 | 2,829 | -50.3% |
| PETROLEUM PRODUCTS | H5F | 0 | 40 | -100.0% | 75 | -100.0% | 400 | 225 | 77.8% |
| PETROLEUM PRODUCTS | JCC | 100 | 1,548 | -93.5% | 0 | 0.0% | 7,970 | 9,404 | -15.2% |
| PETROLEUM PRODUCTS | MPE | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| PETROLEUM PRODUCTS | R5E | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| PETROLEUM PRODUCTS | R5F | 7 | 18 | -61.1% | 10 | -30.0% | 106 | 279 | -62.0% |
| PETROLEUM PRODUCTS | S53 | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0 | 0.0% |
| PETROLEUM PRODUCTS | UCS | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| PETROLEUM PRODUCTS | UP5 | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| PETROLEUM PRODUCTS | VU | 210 | 0 | 0.0% | 0 | 0.0% | 210 | 1,148 | -81.7% |
| PETROLEUM PRODUCTS ASIA | E6M | 0 | 5 | -100.0% | 0 | 0.0% | 15 | 25 | -40.0% |
| PETROLEUM PRODUCTS ASIA | MJN | 140 | 185 | -24.3% | 330 | -57.6% | 2,794 | 6,326 | -55.8% |
| PETRO OUTRIGHT EURO | 0B | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0 | 0.0% |
| PETRO OUTRIGHT EURO | 0C | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |

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|-----------------------|--------------------|--------------------|-------|--------------------|-------|----------------------|----------------------|--------|----------|
| Energy Futures | | | | | | | | | |
| PETRO OUTFRIGHT EURO | 0D | 7 | 28 | -75.0% | 0 | 0.0% | 168 | 173 | -2.9% |
| PETRO OUTFRIGHT EURO | 0E | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| PETRO OUTFRIGHT EURO | 0F | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 9 | -100.0% |
| PETRO OUTFRIGHT EURO | 1T | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| PETRO OUTFRIGHT EURO | 5L | 0 | 0 | - | 20 | -100.0% | 90 | 0 | - |
| PETRO OUTFRIGHT EURO | 7I | 0 | 0 | 0.0% | 0 | 0.0% | 75 | 285 | -73.7% |
| PETRO OUTFRIGHT EURO | 7R | 7 | 6 | 16.7% | 30 | -76.7% | 67 | 38 | 76.3% |
| PETRO OUTFRIGHT EURO | CBB | 50 | 0 | 0.0% | 0 | 0.0% | 55 | 0 | 0.0% |
| PETRO OUTFRIGHT EURO | CGB | 15 | 0 | 0.0% | 0 | 0.0% | 15 | 30 | -50.0% |
| PETRO OUTFRIGHT EURO | CPB | 327 | 115 | 184.3% | 40 | 717.5% | 1,796 | 1,448 | 24.0% |
| PETRO OUTFRIGHT EURO | EFM | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| PETRO OUTFRIGHT EURO | ENS | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| PETRO OUTFRIGHT EURO | EWN | 65 | 69 | -5.8% | 281 | -76.9% | 2,133 | 739 | 188.6% |
| PETRO OUTFRIGHT EURO | FLB | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| PETRO OUTFRIGHT EURO | H5G | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| PETRO OUTFRIGHT EURO | JFB | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| PETRO OUTFRIGHT EURO | M1B | 536 | 952 | -43.7% | 801 | -33.1% | 6,256 | 7,954 | -21.3% |
| PETRO OUTFRIGHT EURO | MBB | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| PETRO OUTFRIGHT EURO | MBN | 920 | 176 | 422.7% | 826 | 11.4% | 4,444 | 4,597 | -3.3% |
| PETRO OUTFRIGHT EURO | MEF | 0 | 10 | -100.0% | 0 | 0.0% | 2 | 79 | -97.5% |
| PETRO OUTFRIGHT EURO | MQA | 257 | 0 | 0.0% | 260 | -1.2% | 1,342 | 138 | 872.5% |
| PETRO OUTFRIGHT EURO | R53 | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0 | 0.0% |
| PETRO OUTFRIGHT EURO | R5B | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| PETRO OUTFRIGHT EURO | R5M | 654 | 1,242 | -47.3% | 978 | -33.1% | 8,029 | 12,618 | -36.4% |
| PETRO OUTFRIGHT EURO | R5O | 559 | 507 | 10.3% | 695 | -19.6% | 4,107 | 7,580 | -45.8% |
| PETRO OUTFRIGHT EURO | RBM | 0 | 0 | 0.0% | 0 | 0.0% | 102 | 95 | 7.4% |
| PETRO OUTFRIGHT EURO | S5B | 0 | 0 | 0.0% | 1 | -100.0% | 1 | 5 | -80.0% |
| PETRO OUTFRIGHT EURO | S5F | 310 | 119 | 160.5% | 381 | -18.6% | 2,530 | 891 | 184.0% |
| PETRO OUTFRIGHT EURO | S5M | 1,404 | 1,834 | -23.4% | 1,692 | -17.0% | 11,998 | 15,641 | -23.3% |
| PETRO OUTFRIGHT EURO | S5O | 602 | 2,560 | -76.5% | 646 | -6.8% | 5,075 | 22,460 | -77.4% |
| PETRO OUTFRIGHT EURO | SMU | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0 | 0.0% |
| PETRO OUTFRIGHT EURO | SR5 | 0 | 15 | -100.0% | 0 | 0.0% | 240 | 15 | 1,500.0% |
| PETRO OUTFRIGHT EURO | TLB | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| PETRO OUTFRIGHT EURO | ULB | 0 | 0 | - | 0 | 0.0% | 150 | 0 | - |
| PETRO OUTFRIGHT EURO | V0 | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0 | 0.0% |



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|-------------------------------------|-----|--------------------|--------------------|---------|--------------------|---------|----------------------|----------------------|---------|
| Energy Futures | | | | | | | | | |
| PETRO OUTFRIGHT NA | A8B | 275 | 560 | -50.9% | 365 | -24.7% | 1,130 | 1,780 | -36.5% |
| PETRO OUTFRIGHT NA | AB6 | 365 | 740 | -50.7% | 625 | -41.6% | 2,640 | 2,795 | -5.5% |
| PETRO OUTFRIGHT NA | BCR | 1,860 | 1,260 | 47.6% | 1,560 | 19.2% | 8,005 | 18,395 | -56.5% |
| PETRO OUTFRIGHT NA | FCB | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| PETRO OUTFRIGHT NA | JE | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 60 | -100.0% |
| PETRO OUTFRIGHT NA | JET | 675 | 325 | 107.7% | 3,485 | -80.6% | 11,060 | 3,310 | 234.1% |
| PETRO OUTFRIGHT NA | JTB | 150 | 450 | -66.7% | 900 | -83.3% | 1,600 | 2,061 | -22.4% |
| PETRO OUTFRIGHT NA | MBL | 0 | 0 | 0.0% | 60 | -100.0% | 217 | 695 | -68.8% |
| PETRO OUTFRIGHT NA | MEN | 6 | 42 | -85.7% | 10 | -40.0% | 318 | 538 | -40.9% |
| PETRO OUTFRIGHT NA | MEO | 35 | 255 | -86.3% | 160 | -78.1% | 932 | 1,699 | -45.1% |
| PETRO OUTFRIGHT NA | MFD | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| PETRO OUTFRIGHT NA | MMF | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM AD HUB 5MW REAL TIME | V3 | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0 | 0.0% |
| 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 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% |
| 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 | 627 | 571 | 9.8% | 1,094 | -42.7% | 5,717 | 7,172 | -20.3% |
| PREMIUM UNLD 10P FOB MED | 3G | 0 | 0 | 0.0% | 0 | 0.0% | 15 | 60 | -75.0% |
| PROPANE NON-LDH MB (OPIS) BALMO SWP | 1S | 2,447 | 1,170 | 109.1% | 1,120 | 118.5% | 9,482 | 11,805 | -19.7% |
| PROPANE NON-LDH MT. BEL (OPIS) SWP | 1R | 24,905 | 12,103 | 105.8% | 37,625 | -33.8% | 169,337 | 93,416 | 81.3% |
| RBOB CALENDAR SWAP | RL | 11,719 | 3,305 | 254.6% | 5,263 | 122.7% | 55,578 | 39,178 | 41.9% |
| RBOB CRACK SPREAD | RM | 685 | 330 | 107.6% | 1,765 | -61.2% | 15,641 | 13,162 | 18.8% |
| RBOB CRACK SPREAD BALMO S | 1E | 0 | 127 | -100.0% | 0 | 0.0% | 100 | 127 | -21.3% |
| RBOB GASOLINE BALMO CLNDR | 1D | 531 | 794 | -33.1% | 1,359 | -60.9% | 7,579 | 11,180 | -32.2% |
| RBOB PHY | MRB | 4 | 14 | -71.4% | 1 | 300.0% | 23 | 25 | -8.0% |
| RBOB PHY | RBL | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0 | 0.0% |
| RBOB VS HEATING OIL SWAP | RH | 0 | 180 | -100.0% | 0 | 0.0% | 30 | 555 | -94.6% |
| SINGAPORE 180CST BALMO | BS | 0 | 0 | - | 3 | -100.0% | 16 | 0 | - |
| SINGAPORE 380CST BALMO | BT | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 1 | -100.0% |
| SINGAPORE 380CST FUEL OIL | SE | 80 | 11 | 627.3% | 163 | -50.9% | 1,023 | 1,279 | -20.0% |
| SINGAPORE FUEL 180CST CAL | UA | 0 | 0 | - | 0 | 0.0% | 0 | 0 | - |
| SINGAPORE FUEL OIL 180 CS | GMS | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0 | 0.0% |

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|-----------------------------------|-----|--------------------|--------------------|---------|--------------------|---------|----------------------|----------------------|---------|
| Energy Futures | | | | | | | | | |
| SINGAPORE FUEL OIL SPREAD | SD | 0 | 0 | 0.0% | 0 | 0.0% | 24 | 30 | -20.0% |
| SINGAPORE GASOIL | MAF | 5 | 375 | -98.7% | 6 | -16.7% | 236 | 3,628 | -93.5% |
| SINGAPORE GASOIL | MTB | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 186 | -100.0% |
| SINGAPORE GASOIL | MTS | 91 | 320 | -71.6% | 227 | -59.9% | 2,629 | 2,303 | 14.2% |
| SINGAPORE GASOIL | SBM | 0 | 0 | 0.0% | 10 | -100.0% | 10 | 332 | -97.0% |
| SINGAPORE GASOIL CALENDAR | MSG | 140 | 23 | 508.7% | 54 | 159.3% | 416 | 1,151 | -63.9% |
| SINGAPORE GASOIL SWAP | SG | 64 | 75 | -14.7% | 1,068 | -94.0% | 5,333 | 2,965 | 79.9% |
| SINGAPORE GASOIL VS ICE | GA | 0 | 0 | 0.0% | 0 | 0.0% | 21 | 3,936 | -99.5% |
| SINGAPORE JET KERO GASOIL | RK | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 3,653 | -100.0% |
| SINGAPORE JET KEROSENE SW | KS | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 405 | -100.0% |
| SINGAPORE MOGAS 92 UNLEADED BALMO | 1P | 0 | 0 | 0.0% | 0 | 0.0% | 100 | 810 | -87.7% |
| SINGAPORE MOGAS 92 UNLEADED SWP | 1N | 252 | 0 | 0.0% | 1,235 | -79.6% | 3,362 | 600 | 460.3% |
| TC2 ROTTERDAM TO USAC 37K | TM | 0 | 0 | 0.0% | 0 | 0.0% | 172 | 264 | -34.8% |
| TC5 RAS TANURA TO YOKOHAM | TH | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 195 | -100.0% |
| TD3 MEG TO JAPAN 250K MT | TL | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 6,185 | -100.0% |
| TEXAS EASTERN ZONE M-3 BA | NX | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| UK NBP NAT GAS CAL MTH FUT | UKG | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| ULSD UP-DOWN BALMO SWP | 1L | 4,740 | 3,174 | 49.3% | 6,265 | -24.3% | 47,080 | 47,429 | -0.7% |
| UP DOWN GC ULSD VS NMX HO | LT | 31,672 | 14,191 | 123.2% | 31,230 | 1.4% | 209,132 | 204,859 | 2.1% |
| WTI-BRENT CALENDAR SWAP | BK | 48,966 | 38,293 | 27.9% | 53,237 | -8.0% | 345,683 | 395,501 | -12.6% |
| WTI CALENDAR | CS | 61,398 | 31,385 | 95.6% | 57,407 | 7.0% | 429,427 | 447,388 | -4.0% |
| WTI MIDLAND CRUDE OIL | WTL | 0 | 0 | 0.0% | 1,000 | -100.0% | 1,900 | 0 | 0.0% |
| WTS (ARGUS) VS WTI SWAP | FF | 1,425 | 315 | 352.4% | 6,150 | -76.8% | 18,325 | 18,862 | -2.8% |
| WTS (ARGUS) VS WTI TRD MT | FH | 660 | 0 | 0.0% | 0 | 0.0% | 1,909 | 5,885 | -67.6% |
| Energy Options | | | | | | | | | |
| BRENT CALENDAR SWAP | BA | 546 | 0 | 0.0% | 90 | 506.7% | 1,614 | 3,086 | -47.7% |
| BRENT CRUDE OIL 1 M CSO | 9C | 0 | 0 | 0.0% | 600 | -100.0% | 600 | 89,250 | -99.3% |
| BRENT OIL LAST DAY | BE | 0 | 175 | -100.0% | 500 | -100.0% | 28,196 | 90,337 | -68.8% |
| BRENT OIL LAST DAY | BZO | 7,677 | 10,945 | -29.9% | 8,354 | -8.1% | 74,582 | 139,942 | -46.7% |
| COAL API2 INDEX | F2C | 0 | 0 | 0.0% | 100 | -100.0% | 280 | 390 | -28.2% |
| COAL API2 INDEX | F2Q | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 100 | -100.0% |
| CRUDE OIL | 6Y | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| CRUDE OIL 1MO | WA | 90,750 | 31,760 | 185.7% | 44,975 | 101.8% | 352,850 | 491,756 | -28.2% |
| CRUDE OIL APO | AO | 27,002 | 20,794 | 29.9% | 27,127 | -0.5% | 190,328 | 151,039 | 26.0% |

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| Commodity | | VOLUME JUL 2023 | VOLUME JUL 2022 | % CHG | VOLUME JUN 2023 | % CHG | VOLUME Y.T.D 2023 | VOLUME Y.T.D 2022 | % CHG |
|---------------------------------------|------|--------------------|--------------------|-----------|--------------------|-----------|----------------------|----------------------|----------|
| Energy Options | | | | | | | | | |
| CRUDE OIL CALNDR STRIP | 6F | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| CRUDE OIL OUTRIGHTS | ECCL | 4,025 | 0 | - | 2,636 | 52.7% | 44,061 | 0 | - |
| CRUDE OIL PHY | LC | 16,962 | 17,480 | -3.0% | 15,322 | 10.7% | 197,200 | 272,838 | -27.7% |
| CRUDE OIL PHY | LO | 2,067,901 | 2,286,774 | -9.6% | 2,487,614 | -16.9% | 16,267,498 | 17,840,489 | -8.8% |
| CRUDE OIL PHY | LO1 | 60,897 | 10,689 | 469.7% | 34,133 | 78.4% | 332,411 | 207,818 | 60.0% |
| CRUDE OIL PHY | LO2 | 50,928 | 24,152 | 110.9% | 49,697 | 2.5% | 323,416 | 154,190 | 109.8% |
| CRUDE OIL PHY | LO3 | 43,270 | 61 | 70,834.4% | 37,445 | 15.6% | 235,179 | 114,971 | 104.6% |
| CRUDE OIL PHY | LO4 | 43,459 | 33,521 | 29.6% | 43,273 | 0.4% | 304,567 | 220,391 | 38.2% |
| CRUDE OIL PHY | LO5 | 0 | 26,265 | -100.0% | 65,030 | -100.0% | 125,905 | 44,155 | 185.1% |
| CRUDE OIL PHY | MCO | 12,782 | 6,569 | 94.6% | 15,008 | -14.8% | 110,948 | 8,835 | 1,155.8% |
| CRUDE OIL PHY | ML1 | 2 | 0 | - | 0 | - | 2 | 0 | - |
| CRUDE OIL PHY | MW1 | 1,513 | 467 | 224.0% | 1,131 | 33.8% | 10,529 | 673 | 1,464.5% |
| CRUDE OIL PHY | MW2 | 1,874 | 999 | 87.6% | 1,593 | 17.6% | 11,746 | 1,192 | 885.4% |
| CRUDE OIL PHY | MW3 | 1,140 | 0 | 0.0% | 1,420 | -19.7% | 10,158 | 158 | 6,329.1% |
| CRUDE OIL PHY | MW4 | 1,178 | 2,650 | -55.5% | 1,881 | -37.4% | 16,223 | 3,014 | 438.3% |
| CRUDE OIL PHY | MW5 | 0 | 1,537 | -100.0% | 2,862 | -100.0% | 4,649 | 1,537 | 202.5% |
| CRUDE OIL PHY | WL2 | 1 | 0 | - | 0 | - | 1 | 0 | - |
| ELEC FINSETTLED | PJN | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0 | 0.0% |
| ETHANOL SWAP | CVR | 1,087 | 2,474 | -56.1% | 2,828 | -61.6% | 15,564 | 24,387 | -36.2% |
| ETHANOL SWAP | GVR | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| FREIGHT MARKETS | FLO | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 30 | -100.0% |
| HEATING OIL CRK SPD AVG PRICE OPTIONS | 3W | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 750 | -100.0% |
| HEATING OIL PHY | FZ | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| HEATING OIL PHY | LB | 0 | 0 | 0.0% | 0 | 0.0% | 106 | 382 | -72.3% |
| HEATING OIL PHY | OH | 5,110 | 7,290 | -29.9% | 4,661 | 9.6% | 72,870 | 79,062 | -7.8% |
| HENRY HUB FINANCIAL LAST | E7 | 15,981 | 3,511 | 355.2% | 24,856 | -35.7% | 97,404 | 36,972 | 163.5% |
| HENRY HUB FINANCIAL LAST | ECNG | 854 | 0 | - | 832 | 2.6% | 16,989 | 0 | - |
| HO 1 MONTH CLNDR OPTIONS | FA | 9,600 | 1,300 | 638.5% | 100 | 9,500.0% | 21,650 | 4,625 | 368.1% |
| LLS CRUDE OIL | HTO | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 1,200 | -100.0% |
| LLS CRUDE OIL | WTO | 0 | 0 | 0.0% | 0 | 0.0% | 3,000 | 900 | 233.3% |
| MCCLOSKEY ARA ARGS COAL | MTO | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0 | 0.0% |
| NATURAL GAS | LN1 | 284 | 0 | 0.0% | 6 | 4,633.3% | 402 | 350 | 14.9% |
| NATURAL GAS | LN2 | 242 | 9 | 2,588.9% | 2 | 12,000.0% | 344 | 698 | -50.7% |
| NATURAL GAS | LN3 | 298 | 5 | 5,860.0% | 516 | -42.2% | 815 | 1,062 | -23.3% |
| NATURAL GAS | LN4 | 1,161 | 0 | 0.0% | 2 | 57,950.0% | 1,163 | 1,516 | -23.3% |



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|-------------------------------------|-----|--------------------|--------------------|---------|--------------------|---------|----------------------|----------------------|---------|
| Energy Options | | | | | | | | | |
| NATURAL GAS | LN5 | 0 | 3 | -100.0% | 14 | -100.0% | 14 | 5 | 180.0% |
| NATURAL GAS 1 M CSO FIN | G4 | 111,900 | 85,900 | 30.3% | 110,753 | 1.0% | 588,857 | 678,642 | -13.2% |
| NATURAL GAS 2 M CSO FIN | G2 | 1,000 | 350 | 185.7% | 0 | 0.0% | 1,250 | 14,100 | -91.1% |
| NATURAL GAS 3 M CSO FIN | G3 | 21,810 | 45,100 | -51.6% | 100,950 | -78.4% | 540,050 | 261,100 | 106.8% |
| NATURAL GAS 5 M CSO FIN | G5 | 0 | 0 | 0.0% | 0 | 0.0% | 8,650 | 46,250 | -81.3% |
| NATURAL GAS 6 M CSO FIN | G6 | 0 | 4,000 | -100.0% | 0 | 0.0% | 65,250 | 80,900 | -19.3% |
| NATURAL GAS OPT | JFO | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 300 | -100.0% |
| NATURAL GAS OPT | JKO | 0 | 150 | -100.0% | 0 | 0.0% | 0 | 5,400 | -100.0% |
| NATURAL GAS OPT | TFO | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 700 | -100.0% |
| NATURAL GAS OPTION ON CALENDAR STRP | 6J | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 600 | -100.0% |
| NATURAL GAS PHY | KD | 150 | 3,530 | -95.8% | 100 | 50.0% | 2,250 | 10,330 | -78.2% |
| NATURAL GAS PHY | LN | 2,256,570 | 1,829,037 | 23.4% | 2,776,396 | -18.7% | 17,776,404 | 14,993,524 | 18.6% |
| NATURAL GAS PHY | ON | 99,190 | 77,608 | 27.8% | 129,278 | -23.3% | 612,042 | 666,995 | -8.2% |
| NATURAL GAS PHY | ON3 | 0 | 0 | - | 0 | 0.0% | 1 | 0 | - |
| NATURAL GAS SUMMER STRIP | 4D | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| NY HARBOR HEAT OIL SWP | AT | 4,356 | 1,066 | 308.6% | 5,553 | -21.6% | 25,255 | 13,932 | 81.3% |
| PETROCHEMICALS | 4H | 6 | 0 | 0.0% | 7 | -14.3% | 403 | 3,163 | -87.3% |
| PETROCHEMICALS | 4J | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0 | 0.0% |
| PETROCHEMICALS | 4K | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| PETROCHEMICALS | CPR | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| PETRO OUTRIGHT EURO | BCO | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| PETRO OUTRIGHT NA | DAP | 0 | 0 | 0.0% | 0 | 0.0% | 90 | 375 | -76.0% |
| 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% |
| RBOB 1MO CAL SPD OPTIONS | ZA | 0 | 1,000 | -100.0% | 0 | 0.0% | 0 | 2,550 | -100.0% |
| RBOB CALENDAR SWAP | RA | 0 | 445 | -100.0% | 0 | 0.0% | 0 | 3,397 | -100.0% |
| RBOB PHY | OB | 4,265 | 3,058 | 39.5% | 2,320 | 83.8% | 23,549 | 25,191 | -6.5% |
| RBOB PHY | RF | 0 | 60 | -100.0% | 0 | 0.0% | 45 | 1,260 | -96.4% |
| SHORT TERM | U11 | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 300 | -100.0% |
| SHORT TERM | U12 | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 550 | -100.0% |
| SHORT TERM | U13 | 0 | 0 | 0.0% | 0 | 0.0% | 700 | 100 | 600.0% |
| SHORT TERM | U14 | 0 | 0 | 0.0% | 0 | 0.0% | 100 | 500 | -80.0% |
| SHORT TERM | U15 | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0 | 0.0% |
| SHORT TERM | U22 | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 200 | -100.0% |
| SHORT TERM | U23 | 0 | 0 | - | 0 | 0.0% | 50 | 0 | - |

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NYMEX/COMEX Exchange Volume Report - Monthly

| Commodity | | VOLUME JUL 2023 | VOLUME JUL 2022 | % CHG | VOLUME JUN 2023 | % CHG | VOLUME Y.T.D 2023 | VOLUME Y.T.D 2022 | % CHG |
|--------------------------|-----|--------------------|--------------------|---------|--------------------|--------|----------------------|----------------------|---------|
| Energy Options | | | | | | | | | |
| SHORT TERM | U24 | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0 | 0.0% |
| SHORT TERM | U25 | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 200 | -100.0% |
| SHORT TERM | U26 | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 200 | -100.0% |
| SHORT TERM NATURAL GAS | U01 | 350 | 0 | 0.0% | 0 | 0.0% | 500 | 250 | 100.0% |
| SHORT TERM NATURAL GAS | U02 | 0 | 0 | 0.0% | 0 | 0.0% | 150 | 0 | 0.0% |
| SHORT TERM NATURAL GAS | U03 | 0 | 0 | 0.0% | 0 | 0.0% | 4,150 | 0 | 0.0% |
| SHORT TERM NATURAL GAS | U04 | 0 | 0 | 0.0% | 0 | 0.0% | 300 | 400 | -25.0% |
| SHORT TERM NATURAL GAS | U05 | 0 | 0 | 0.0% | 0 | 0.0% | 1,000 | 500 | 100.0% |
| SHORT TERM NATURAL GAS | U06 | 0 | 0 | 0.0% | 0 | 0.0% | 150 | 550 | -72.7% |
| SHORT TERM NATURAL GAS | U07 | 0 | 200 | -100.0% | 0 | 0.0% | 0 | 925 | -100.0% |
| SHORT TERM NATURAL GAS | U08 | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 200 | -100.0% |
| SHORT TERM NATURAL GAS | U09 | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0 | 0.0% |
| SHORT TERM NATURAL GAS | U10 | 0 | 0 | 0.0% | 0 | 0.0% | 400 | 200 | 100.0% |
| SHORT TERM NATURAL GAS | U16 | 0 | 0 | 0.0% | 0 | 0.0% | 100 | 0 | 0.0% |
| SHORT TERM NATURAL GAS | U17 | 0 | 0 | 0.0% | 0 | 0.0% | 50 | 0 | 0.0% |
| SHORT TERM NATURAL GAS | U18 | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 300 | -100.0% |
| SHORT TERM NATURAL GAS | U19 | 0 | 0 | 0.0% | 0 | 0.0% | 300 | 550 | -45.5% |
| SHORT TERM NATURAL GAS | U20 | 100 | 0 | 0.0% | 0 | 0.0% | 350 | 250 | 40.0% |
| SHORT TERM NATURAL GAS | U21 | 0 | 450 | -100.0% | 0 | 0.0% | 0 | 950 | -100.0% |
| SHORT TERM NATURAL GAS | U27 | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| SHORT TERM NATURAL GAS | U28 | 0 | 100 | -100.0% | 0 | 0.0% | 0 | 100 | -100.0% |
| SHORT TERM NATURAL GAS | U29 | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0 | 0.0% |
| SHORT TERM NATURAL GAS | U30 | 0 | 0 | 0.0% | 0 | 0.0% | 150 | 100 | 50.0% |
| SHORT TERM NATURAL GAS | U31 | 0 | 0 | 0.0% | 0 | 0.0% | 1,700 | 200 | 750.0% |
| WTI-BRENT BULLET SWAP | BV | 8,550 | 66,690 | -87.2% | 8,675 | -1.4% | 102,100 | 278,720 | -63.4% |
| WTI CRUDE OIL 1 M CSO FI | 7A | 28,475 | 24,300 | 17.2% | 47,225 | -39.7% | 460,960 | 417,900 | 10.3% |
| Metals Futures | | | | | | | | | |
| COMEX GOLD | GC | 5,146,192 | 5,400,881 | -4.7% | 4,018,550 | 28.1% | 35,125,213 | 33,620,789 | 4.5% |
| NYMEX HOT ROLLED STEEL | HR | 25,264 | 14,980 | 68.7% | 32,789 | -22.9% | 200,845 | 158,146 | 27.0% |
| NYMEX PLATINUM | PL | 358,034 | 312,284 | 14.7% | 621,654 | -42.4% | 3,217,368 | 2,855,212 | 12.7% |
| PALLADIUM | PA | 48,300 | 32,801 | 47.3% | 47,515 | 1.7% | 423,894 | 321,663 | 31.8% |
| URANIUM | UX | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 24 | -100.0% |

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NYMEX/COMEX Exchange Volume Report - Monthly

| Commodity | | VOLUME JUL 2023 | VOLUME JUL 2022 | % CHG | VOLUME JUN 2023 | % CHG | VOLUME Y.T.D 2023 | VOLUME Y.T.D 2022 | % CHG |
|-------------------------------|------|--------------------|--------------------|---------|--------------------|----------|----------------------|----------------------|--------|
| Metals Futures | | | | | | | | | |
| COMEX SILVER | SI | 1,189,954 | 1,206,253 | -1.4% | 1,699,854 | -30.0% | 10,482,836 | 9,827,549 | 6.7% |
| COMEX E-Mini GOLD | QO | 25,057 | 27,969 | -10.4% | 24,741 | 1.3% | 259,617 | 215,600 | 20.4% |
| COMEX E-Mini SILVER | QI | 3,783 | 3,132 | 20.8% | 4,568 | -17.2% | 42,210 | 27,229 | 55.0% |
| COMEX COPPER | HG | 1,763,625 | 1,659,098 | 6.3% | 2,434,187 | -27.5% | 15,058,146 | 12,078,995 | 24.7% |
| COMEX MINY COPPER | QC | 3,966 | 3,019 | 31.4% | 5,878 | -32.5% | 40,834 | 25,306 | 61.4% |
| ALUMINUM | A38 | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| ALUMINUM | AEP | 2,596 | 2,436 | 6.6% | 156 | 1,564.1% | 16,208 | 12,030 | 34.7% |
| ALUMINUM | ALA | 0 | 90 | -100.0% | 0 | 0.0% | 240 | 1,745 | -86.2% |
| ALUMINUM | ALI | 80,005 | 53,175 | 50.5% | 81,404 | -1.7% | 529,110 | 171,237 | 209.0% |
| ALUMINUM | AUP | 5,264 | 7,570 | -30.5% | 5,033 | 4.6% | 44,237 | 43,605 | 1.4% |
| ALUMINUM | EDP | 6,780 | 10,107 | -32.9% | 3,177 | 113.4% | 31,485 | 31,925 | -1.4% |
| ALUMINUM | MJP | 0 | 150 | -100.0% | 0 | 0.0% | 760 | 2,440 | -68.9% |
| COBALT METAL FUTURES | COB | 2,818 | 1,140 | 147.2% | 1,676 | 68.1% | 19,986 | 6,439 | 210.4% |
| COBALT METAL FUTURES | MOX | 20 | 0 | - | 270 | -92.6% | 776 | 0 | - |
| COPPER | HGS | 994 | 132 | 653.0% | 1,310 | -24.1% | 11,726 | 12,472 | -6.0% |
| COPPER | MHG | 90,453 | 76,805 | 17.8% | 108,934 | -17.0% | 759,302 | 207,136 | 266.6% |
| FERROUS PRODUCTS | BUS | 748 | 2,509 | -70.2% | 849 | -11.9% | 7,107 | 18,416 | -61.4% |
| FERROUS PRODUCTS | FSF | 9 | 0 | - | 17 | -47.1% | 142 | 0 | - |
| GOLD | 4GC | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| GOLD | SGC | 18 | 579 | -96.9% | 0 | 0.0% | 1,883 | 5,831 | -67.7% |
| GOLD | SGU | 33 | 580 | -94.3% | 15 | 120.0% | 2,008 | 47,277 | -95.8% |
| HOT ROLLED COIL STEEL FUTURES | EHR | 4,084 | 3,708 | 10.1% | 3,856 | 5.9% | 37,379 | 18,411 | 103.0% |
| IRON ORE CHINA | TIO | 61 | 1,448 | -95.8% | 740 | -91.8% | 1,636 | 9,460 | -82.7% |
| METALS | HDG | 0 | 96 | -100.0% | 36 | -100.0% | 1,431 | 447 | 220.1% |
| METALS | LTC | 8 | 0 | - | 0 | - | 8 | 0 | - |
| METALS | LTH | 1,745 | 0 | 0.0% | 310 | 462.9% | 4,078 | 0 | 0.0% |
| METALS | PAC | 0 | 100 | -100.0% | 0 | 0.0% | 500 | 1,300 | -61.5% |
| MICRO GOLD | MGC | 1,263,220 | 881,738 | 43.3% | 1,389,027 | -9.1% | 10,423,601 | 7,768,603 | 34.2% |
| SILVER | SIL | 208,685 | 122,752 | 70.0% | 185,616 | 12.4% | 1,549,202 | 1,134,190 | 36.6% |
| Metals Options | | | | | | | | | |
| ALUMINUM | ALO | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0 | 0.0% |
| ALUMINUM | AX | 1,320 | 0 | - | 2,604 | -49.3% | 7,924 | 0 | - |
| COMEX COPPER | HX | 119,446 | 88,642 | 34.8% | 101,331 | 17.9% | 930,941 | 550,098 | 69.2% |
| COMEX GOLD | ECGC | 3,966 | 0 | - | 13,382 | -70.4% | 45,099 | 0 | - |

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|-----------------------|------|--------------------|--------------------|---------|--------------------|----------|----------------------|----------------------|----------|
| Metals Options | | | | | | | | | |
| COMEX GOLD | OG | 723,232 | 817,227 | -11.5% | 780,530 | -7.3% | 6,943,612 | 6,196,648 | 12.1% |
| COMEX SILVER | ECSI | 3,919 | 0 | - | 786 | 398.6% | 31,824 | 0 | - |
| COMEX SILVER | SO | 143,823 | 88,029 | 63.4% | 126,772 | 13.5% | 1,111,260 | 751,216 | 47.9% |
| COPPER | ECHG | 1,030 | 0 | - | 1,160 | -11.2% | 24,566 | 0 | - |
| COPPER | H1E | 1,116 | 120 | 830.0% | 265 | 321.1% | 5,700 | 958 | 495.0% |
| COPPER | H1M | 87 | 108 | -19.4% | 332 | -73.8% | 1,399 | 277 | 405.1% |
| COPPER | H1W | 810 | 235 | 244.7% | 285 | 184.2% | 2,974 | 594 | 400.7% |
| COPPER | H2E | 400 | 577 | -30.7% | 576 | -30.6% | 5,505 | 1,723 | 219.5% |
| COPPER | H2M | 374 | 149 | 151.0% | 670 | -44.2% | 2,740 | 371 | 638.5% |
| COPPER | H2W | 276 | 125 | 120.8% | 440 | -37.3% | 2,883 | 229 | 1,159.0% |
| COPPER | H3E | 670 | 1,135 | -41.0% | 1,406 | -52.3% | 5,241 | 1,687 | 210.7% |
| COPPER | H3M | 595 | 382 | 55.8% | 22 | 2,604.5% | 1,634 | 524 | 211.8% |
| COPPER | H3W | 686 | 95 | 622.1% | 98 | 600.0% | 2,519 | 175 | 1,339.4% |
| COPPER | H4E | 563 | 1,274 | -55.8% | 100 | 463.0% | 2,977 | 1,722 | 72.9% |
| COPPER | H4M | 140 | 118 | 18.6% | 55 | 154.5% | 1,593 | 171 | 831.6% |
| COPPER | H4W | 120 | 57 | 110.5% | 104 | 15.4% | 1,160 | 205 | 465.9% |
| COPPER | H5E | 0 | 447 | -100.0% | 376 | -100.0% | 627 | 479 | 30.9% |
| COPPER | H5M | 429 | 0 | - | 0 | 0.0% | 620 | 0 | - |
| COPPER | H5W | 0 | 0 | 0.0% | 0 | 0.0% | 591 | 177 | 233.9% |
| GOLD | G1M | 3,409 | 5,351 | -36.3% | 16,208 | -79.0% | 72,004 | 9,636 | 647.2% |
| GOLD | G1W | 15,591 | 7,858 | 98.4% | 11,352 | 37.3% | 76,973 | 14,409 | 434.2% |
| GOLD | G2M | 10,162 | 4,633 | 119.3% | 8,454 | 20.2% | 78,309 | 15,676 | 399.5% |
| GOLD | G2W | 17,446 | 5,195 | 235.8% | 9,104 | 91.6% | 80,761 | 11,370 | 610.3% |
| GOLD | G3M | 6,409 | 3,978 | 61.1% | 1,886 | 239.8% | 49,658 | 6,534 | 660.0% |
| GOLD | G3W | 9,212 | 7,644 | 20.5% | 10,935 | -15.8% | 77,947 | 18,005 | 332.9% |
| GOLD | G4M | 5,962 | 3,317 | 79.7% | 6,794 | -12.2% | 52,815 | 6,056 | 772.1% |
| GOLD | G4W | 696 | 6,452 | -89.2% | 9,532 | -92.7% | 52,454 | 11,260 | 365.8% |
| GOLD | G5M | 6,641 | 0 | - | 0 | 0.0% | 14,566 | 0 | - |
| GOLD | G5W | 0 | 0 | 0.0% | 0 | 0.0% | 18,252 | 7,941 | 129.8% |
| GOLD | OG1 | 35,727 | 19,803 | 80.4% | 22,617 | 58.0% | 324,165 | 335,337 | -3.3% |
| GOLD | OG2 | 46,115 | 39,773 | 15.9% | 27,616 | 67.0% | 378,581 | 347,284 | 9.0% |
| GOLD | OG3 | 30,263 | 37,625 | -19.6% | 42,541 | -28.9% | 365,673 | 355,160 | 3.0% |
| GOLD | OG4 | 37,546 | 32,103 | 17.0% | 24,630 | 52.4% | 236,878 | 292,821 | -19.1% |
| GOLD | OG5 | 0 | 39,116 | -100.0% | 31,522 | -100.0% | 74,484 | 78,201 | -4.8% |
| IRON ORE CHINA | ICT | 0 | 0 | 0.0% | 0 | 0.0% | 0 | 0 | 0.0% |



NYMEX/COMEX Exchange Volume Report - Monthly

| Commodity | VOLUME JUL 2023 | VOLUME JUL 2022 | % CHG | VOIUME JUN 2023 | % CHG | VOLUME Y.T.D 2023 | VOLUME Y.T.D 2022 | % CHG | |
|----------------------------|--------------------|--------------------|-------------------|--------------------|-------------------|----------------------|----------------------|--------------------|--------------|
| Metals Options | | | | | | | | | |
| NYMEX HOT ROLLED STEEL | HRO | 1,938 | 1,460 | 32.7% | 2,200 | -11.9% | 15,933 | 11,450 | 39.2% |
| NYMEX PLATINUM | PO | 15,014 | 2,382 | 530.3% | 19,056 | -21.2% | 118,414 | 40,387 | 193.2% |
| PALLADIUM | PAO | 437 | 7 | 6,142.9% | 532 | -17.9% | 6,476 | 111 | 5,734.2% |
| SILVER | M1S | 781 | 401 | 94.8% | 1,856 | -57.9% | 9,571 | 668 | 1,332.8% |
| SILVER | M2S | 1,550 | 423 | 266.4% | 1,681 | -7.8% | 11,985 | 1,154 | 938.6% |
| SILVER | M3S | 1,392 | 208 | 569.2% | 84 | 1,557.1% | 5,375 | 567 | 848.0% |
| SILVER | M4S | 916 | 208 | 340.4% | 704 | 30.1% | 5,948 | 505 | 1,077.8% |
| SILVER | M5S | 1,682 | 0 | - | 0 | 0.0% | 2,289 | 0 | - |
| SILVER | SO1 | 5,170 | 2,558 | 102.1% | 4,784 | 8.1% | 50,654 | 32,070 | 57.9% |
| SILVER | SO2 | 8,470 | 2,350 | 260.4% | 6,925 | 22.3% | 57,438 | 37,279 | 54.1% |
| SILVER | SO3 | 5,729 | 2,549 | 124.8% | 6,523 | -12.2% | 46,156 | 26,613 | 73.4% |
| SILVER | SO4 | 7,435 | 2,547 | 191.9% | 4,024 | 84.8% | 29,916 | 22,521 | 32.8% |
| SILVER | SO5 | 0 | 3,186 | -100.0% | 4,280 | -100.0% | 12,213 | 5,475 | 123.1% |
| SILVER | W1S | 3,694 | 403 | 816.6% | 1,872 | 97.3% | 13,813 | 935 | 1,377.3% |
| SILVER | W2S | 1,880 | 320 | 487.5% | 2,002 | -6.1% | 10,862 | 702 | 1,447.3% |
| SILVER | W3S | 1,267 | 178 | 611.8% | 2,241 | -43.5% | 10,489 | 776 | 1,251.7% |
| SILVER | W4S | 145 | 158 | -8.2% | 1,133 | -87.2% | 5,422 | 448 | 1,110.3% |
| SILVER | W5S | 0 | 0 | 0.0% | 0 | 0.0% | 1,964 | 322 | 509.9% |
| TOTAL FUTURES GROUP | | | | | | | | | |
| Ag Products Futures | | 0 | 0 | 0.0% | 0 | - | 0 | 0 | 0.0% |
| Energy Futures | | 34,310,651 | 33,794,644 | 1.5% | 40,164,362 | -14.6% | 259,556,285 | 276,559,077 | -6.1% |
| Metals Futures | | 10,231,716 | 9,825,532 | 4.1% | 10,672,162 | -4.1% | 78,293,768 | 68,623,477 | 14.1% |
| TOTAL FUTURES | | 44,542,367 | 43,620,176 | 2.1% | 50,836,524 | -12.4% | 337,850,053 | 345,182,554 | -2.1% |
| TOTAL OPTIONS GROUP | | | | | | | | | |
| Energy Options | | 5,003,246 | 4,632,474 | 8.0% | 6,055,865 | -17.4% | 39,090,570 | 37,500,954 | 4.2% |
| Metals Options | | 1,285,681 | 1,230,906 | 4.4% | 1,314,382 | -2.2% | 11,501,827 | 9,198,927 | 25.0% |
| TOTAL OPTIONS | | 6,288,927 | 5,863,380 | 7.3% | 7,370,247 | -14.7% | 50,592,397 | 46,699,881 | 8.3% |

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



NYMEX/COMEX Exchange Volume Report - Monthly

| Commodity | VOLUME JUL 2023 | VOLUME JUL 2022 | % CHG | VOLUME JUN 2023 | % CHG | VOLUME Y.T.D 2023 | VOLUME Y.T.D 2022 | % CHG |
|-----------------------|--------------------|--------------------|-------------|--------------------|---------------|----------------------|----------------------|--------------|
| TOTAL COMBINED | | | | | | | | |
| Ag Products | 0 | 0 | 0.0% | 0 | | 0 | 0 | - |
| Energy | 39,313,897 | 38,427,118 | 2.3% | 46,220,227 | -14.9% | 298,646,855 | 314,060,031 | -4.9% |
| Metals | 11,517,397 | 11,056,438 | 4.2% | 11,986,544 | -3.9% | 89,795,595 | 77,822,404 | 15.4% |
| GRAND TOTAL | 50,831,294 | 49,483,556 | 2.7% | 58,206,771 | -12.7% | 388,442,450 | 391,882,435 | -0.9% |