

NYMEX/COMEX Exchange Open Interest Report - Monthly

| Commodity | | Open Interest NOV 2022 | Open Interest NOV 2021 | % CHG | Open Interest OCT 2022 | % CHG |
|-------------------------------------|-----|---------------------------|---------------------------|---------|---------------------------|---------|
| Ag Products Futures | | | | | | |
| COFFEE | KT | 0 | 0 | - | 0 | - |
| COTTON | TT | 0 | 0 | - | 0 | - |
| SUGAR 11 | YO | 0 | 0 | - | 0 | - |
| Energy Futures | | | | | | |
| CRUDE OIL PHY | CL | 1,420,782 | 2,033,286 | -30.1% | 1,454,097 | -2.3% |
| CRUDE OIL | WS | 0 | 8 | -100.0% | 0 | - |
| MINY WTI CRUDE OIL | QM | 7,233 | 6,535 | 10.7% | 8,289 | -12.7% |
| BRENT OIL LAST DAY | BZ | 155,569 | 217,781 | -28.6% | 162,859 | -4.5% |
| HEATING OIL PHY | HO | 270,970 | 298,300 | -9.2% | 267,097 | 1.5% |
| HTG OIL | BH | 108 | 118 | -8.5% | 117 | -7.7% |
| MINY HTG OIL | QH | 1 | 2 | -50.0% | 1 | 0.0% |
| RBOB PHY | RB | 247,779 | 285,445 | -13.2% | 228,370 | 8.5% |
| MINY RBOB GAS | QU | 1 | 2 | -50.0% | 0 | 0.0% |
| NATURAL GAS | HP | 186,302 | 170,311 | 9.4% | 198,235 | -6.0% |
| LTD NAT GAS | HH | 360,363 | 512,489 | -29.7% | 363,167 | -0.8% |
| MINY NATURAL GAS | QG | 6,932 | 5,068 | 36.8% | 5,018 | 38.1% |
| PJM MONTHLY | JM | 0 | 0 | - | 0 | - |
| NATURAL GAS PHY | NG | 990,271 | 1,269,879 | -22.0% | 977,718 | 1.3% |
| RBOB GAS | RT | 72 | 84 | -14.3% | 79 | -8.9% |
| 3.5% FUEL OIL CID MED SWA | 7D | 0 | 0 | - | 0 | - |
| AEP-DAYTON HUB DAILY | VD | 10 | 10 | 0.0% | 10 | 0.0% |
| ARGUS LLS VS. WTI (ARG) T | E5 | 6,200 | 11,876 | -47.8% | 8,085 | -23.3% |
| ARGUS PROPAN FAR EST INDE | 7E | 5,478 | 5,764 | -5.0% | 5,299 | 3.4% |
| ARGUS PROPAN(SAUDI ARAMCO | 9N | 2,040 | 1,658 | 23.0% | 1,802 | 13.2% |
| AUSTRIALIAN COKE COAL | ALW | 0 | 0 | - | 0 | - |
| BRENT BALMO SWAP | J9 | 0 | 0 | - | 0 | - |
| BRENT CALENDAR SWAP | CY | 36,409 | 16,874 | 115.8% | 39,111 | -6.9% |
| BRENT FINANCIAL FUTURES | BB | 0 | 0 | - | 0 | - |
| BRENT FINANCIAL FUTURES | MBC | 10 | 0 | - | 10 | 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 | 12,500 | 4,329 | 188.8% | 7,198 | 73.7% |
| CAR VINTAGE | NGO | 15,196 | 9,274 | 63.9% | 14,160 | 7.3% |
| CHICAGO ETHANOL SWAP | CU | 25,765 | 39,090 | -34.1% | 27,333 | -5.7% |
| CHICAGO ULSD PL VS HO SPR | 5C | 1,249 | 592 | 111.0% | 1,432 | -12.8% |
| CHICAGO UNL GAS PL VS RBO | 3C | 0 | 75 | -100.0% | 0 | - |
| CIG BASIS | CI | 0 | 0 | - | 0 | - |
| CIN HUB 5MW D AH PK | H5 | 0 | 0 | - | 0 | - |
| CIN HUB 5MW REAL TIME O P | H4 | 0 | 0 | - | 0 | - |
| CIN HUB 5MW REAL TIME PK | H3 | 0 | 0 | - | 0 | - |
| COLUMB GULF MAINLINE NG B | 5Z | 0 | 0 | - | 0 | - |
| CONWAY NATURAL GASOLINE (OPIS) SWAP | 8L | 838 | 2,208 | -62.0% | 986 | -15.0% |
| CONWAY NORMAL BUTANE (OPIS) SWAP | 8M | 1,384 | 1,619 | -14.5% | 1,341 | 3.2% |
| CONWAY PROPANE 5 DECIMALS SWAP | 8K | 29,147 | 24,104 | 20.9% | 29,582 | -1.5% |
| CRUDE OIL | LPS | 0 | 0 | - | 0 | - |
| CRUDE OIL LAST DAY | 26 | 0 | 0 | - | 0 | - |
| CRUDE OIL OUTRIGHTS | 42 | 524 | 167 | 213.8% | 416 | 26.0% |
| CRUDE OIL OUTRIGHTS | CC5 | 165 | 2,337 | -92.9% | 272 | -39.3% |
| CRUDE OIL OUTRIGHTS | CSW | 0 | 45 | -100.0% | 30 | -100.0% |

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| Energy Futures | | | | | | |
| CRUDE OIL OUTRIGHTS | DAB | 0 | 0 | - | 0 | - |
| CRUDE OIL OUTRIGHTS | DBL | 0 | 0 | - | 0 | - |
| CRUDE OIL OUTRIGHTS | GSW | 0 | 1,620 | -100.0% | 135 | -100.0% |
| CRUDE OIL OUTRIGHTS | HTT | 139,819 | 112,485 | 24.3% | 146,203 | -4.4% |
| CRUDE OIL OUTRIGHTS | LSW | 120 | 2,865 | -95.8% | 190 | -36.8% |
| CRUDE OIL OUTRIGHTS | WCW | 0 | 9,215 | -100.0% | 375 | -100.0% |
| CRUDE OIL PHY | CLL | 0 | 0 | 0.0% | 0 | 0.0% |
| CRUDE OIL PHY | HCL | 0 | 0 | - | 0 | - |
| CRUDE OIL PHY | MCL | 70,387 | 31,477 | 123.6% | 58,050 | 21.3% |
| CRUDE OIL SPRDS | 38 | 0 | 0 | - | 0 | - |
| CRUDE OIL SPRDS | ANT | 360 | 3,184 | -88.7% | 1,870 | -80.7% |
| CRUDE OIL SPRDS | HIL | 1,040 | 11,797 | -91.2% | 1,560 | -33.3% |
| CRUDE OIL SPRDS | WTT | 133,951 | 87,252 | 53.5% | 147,422 | -9.1% |
| CRUDE OIL TRADE AT MARKER SINGAPORE | CLS | 0 | 0 | 0.0% | 0 | 0.0% |
| DAILY PJM | AOR | 600 | 600 | 0.0% | 480 | 25.0% |
| DAILY PJM | IDO | 0 | 13,664 | -100.0% | 264 | -100.0% |
| DAILY PJM | NOC | 0 | 1,200 | -100.0% | 0 | - |
| DAILY PJM | PAP | 0 | 0 | - | 0 | - |
| DAILY PJM | PEO | 0 | 0 | - | 0 | - |
| DAILY PJM | PNO | 0 | 0 | - | 0 | - |
| DAILY PJM | PNP | 0 | 0 | - | 0 | - |
| DAILY PJM | PWO | 0 | 0 | - | 0 | - |
| DAILY PJM | PWP | 0 | 0 | - | 0 | - |
| DAILY PJM | WOR | 5,400 | 2,400 | 125.0% | 4,320 | 25.0% |
| DAILY PJM | ZAO | 0 | 0 | - | 0 | - |
| DAILY PJM | ZGO | 0 | 0 | - | 0 | - |
| DAILY PJM | ZJO | 0 | 0 | - | 0 | - |
| DATED BRENT (PLATTS) DAILY SWAP | 7G | 0 | 0 | - | 0 | - |
| DATED TO FRONTLINE BRENT | FY | 2,270 | 900 | 152.2% | 2,295 | -1.1% |
| DIESEL 10P BRG FOB RDM VS | 7X | 0 | 0 | - | 0 | - |
| DOMINION TRANSMISSION INC | PG | 0 | 0 | - | 0 | - |
| DUBAI CRUDE OIL BALMO | BI | 0 | 0 | - | 0 | - |
| DUBAI CRUDE OIL CALENDAR | DC | 500 | 0 | - | 500 | 0.0% |
| DUTCH TTF NATURAL GAS CAL MONTH FUT | TTF | 3,255 | 11,109 | -70.7% | 3,524 | -7.6% |
| EAST/WEST FUEL OIL SPREAD | EW | 0 | 0 | - | 0 | - |
| EIA FLAT TAX ONHWAY DIESE | A5 | 1,590 | 1,892 | -16.0% | 568 | 179.9% |
| ELEC FINSETTLED | 47 | 0 | 0 | - | 0 | - |
| ELECTRICITY OFF PEAK | 46 | 0 | 0 | - | 0 | - |
| ELECTRICITY OFF PEAK | 4P | 0 | 0 | - | 0 | - |
| EMMISSIONS | CGO | 111 | 0 | - | 161 | -31.1% |
| ETHANOL | MTH | 0 | 0 | - | 0 | - |
| ETHANOL SWAP | MT2 | 505 | 810 | -37.7% | 590 | -14.4% |
| ETHANOL T2 FOB ROTT INCL DUTY SWAP | Z1 | 6,329 | 8,572 | -26.2% | 7,443 | -15.0% |
| EURO 3.5% FUEL OIL RDAM B | KR | 0 | 35 | -100.0% | 0 | - |
| EURO 3.5% FUEL OIL SPREAD | FK | 0 | 0 | - | 0 | - |
| EURO GASOIL 10 CAL SWAP | GT | 3 | 0 | - | 3 | 0.0% |
| EURO GASOIL 10PPM VS ICE | ET | 442 | 1,647 | -73.2% | 483 | -8.5% |
| EUROPE 1% FUEL OIL NWE CA | UF | 10 | 60 | -83.3% | 15 | -33.3% |
| EUROPE 1% FUEL OIL RDAM C | UH | 0 | 0 | - | 0 | - |
| EUROPE 3.5% FUEL OIL MED | UI | 0 | 0 | - | 0 | - |
| EUROPE 3.5% FUEL OIL RDAM | UV | 110 | 269 | -59.1% | 124 | -11.3% |
| EUROPEAN GASOIL (ICE) | 7F | 1,593 | 3,682 | -56.7% | 1,916 | -16.9% |

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| Energy Futures | | | | | | |
| EUROPEAN NAPHTHA BALMO | KZ | 30 | 75 | -60.0% | 5 | 500.0% |
| EUROPEAN NAPHTHA CRACK SPR | EN | 3,417 | 7,034 | -51.4% | 4,366 | -21.7% |
| EUROPE DATED BRENT SWAP | UB | 0 | 11 | -100.0% | 1 | -100.0% |
| EUROPE JET KERO NWE CALSW | UJ | 0 | 0 | - | 0 | - |
| EUROPE NAPHTHA CALSWAP | UN | 695 | 1,430 | -51.4% | 576 | 20.7% |
| EURO PROPANE CIF ARA SWA | PS | 3,167 | 2,703 | 17.2% | 3,217 | -1.6% |
| FREIGHT MARKETS | ACB | 0 | 0 | - | 0 | - |
| FREIGHT MARKETS | BF1 | 0 | 0 | - | 0 | - |
| FREIGHT MARKETS | BF2 | 0 | 54 | -100.0% | 0 | - |
| FREIGHT MARKETS | BF3 | 0 | 0 | - | 0 | - |
| FREIGHT MARKETS | BL2 | 1,152 | 190 | 506.3% | 1,140 | 1.1% |
| FREIGHT MARKETS | CS3 | 0 | 0 | - | 0 | - |
| FREIGHT MARKETS | CS4 | 120 | 0 | - | 120 | 0.0% |
| FREIGHT MARKETS | FLJ | 0 | 35 | -100.0% | 0 | - |
| FREIGHT MARKETS | FLP | 114 | 213 | -46.5% | 123 | -7.3% |
| FREIGHT MARKETS | FRC | 34 | 60 | -43.3% | 51 | -33.3% |
| FREIGHT MARKETS | T2D | 123 | 445 | -72.4% | 76 | 61.8% |
| FREIGHT MARKETS | T7C | 0 | 0 | - | 0 | - |
| FREIGHT MARKETS | T8C | 0 | 0 | - | 0 | - |
| FREIGHT MARKETS | TC6 | 0 | 225 | -100.0% | 0 | - |
| FREIGHT MARKETS | TD3 | 0 | 0 | - | 0 | - |
| FREIGHT MARKETS | USC | 0 | 0 | - | 0 | - |
| FREIGHT MARKETS | USE | 0 | 0 | - | 0 | - |
| FUEL OIL CRACK VS ICE | FO | 189 | 1,536 | -87.7% | 261 | -27.6% |
| FUEL OIL NWE CRACK VS ICE | FI | 30 | 72 | -58.3% | 45 | -33.3% |
| FUEL OIL (PLATS) CAR CM | 1W | 0 | 0 | - | 0 | - |
| FUELOIL SWAP:CARGOES VS.B | FS | 0 | 18 | -100.0% | 0 | - |
| GAS EURO-BOB OXY NWE BARGES | 7H | 294 | 1,562 | -81.2% | 297 | -1.0% |
| GAS EURO-BOB OXY NWE BARGES CRK | 7K | 5,526 | 15,080 | -63.4% | 6,001 | -7.9% |
| GASOIL 0.1CIF MED VS ICE | Z5 | 10 | 60 | -83.3% | 15 | -33.3% |
| GASOIL 0.1 RDAM BRGS VS I | WQ | 0 | 6 | -100.0% | 0 | - |
| GASOIL 0.1 ROTTERDAM BARG | VL | 18 | 83 | -78.3% | 12 | 50.0% |
| GASOIL 10PPM VS ICE SWAP | TP | 12 | 0 | - | 12 | 0.0% |
| GASOIL CALENDAR SWAP | GX | 140 | 621 | -77.5% | 170 | -17.6% |
| GASOIL CRACK SPREAD CALEN | GZ | 1,050 | 5,709 | -81.6% | 1,518 | -30.8% |
| GASOIL MINI CALENDAR SWAP | QA | 476 | 1,289 | -63.1% | 369 | 29.0% |
| GERMAN POWER BASELOAD CAL MONTH FUT | DEB | 36 | 279 | -87.1% | 54 | -33.3% |
| GROUP THREE UNLEAD GAS (P | A9 | 0 | 0 | - | 0 | - |
| GRP THREE ULSD(PLT)VS HEA | A6 | 5,739 | 6,295 | -8.8% | 5,734 | 0.1% |
| GRP THREE UNL GS (PLT) VS | A8 | 2,370 | 3,847 | -38.4% | 2,305 | 2.8% |
| GULF COAST 3% FUEL OIL BA | VZ | 0 | 28 | -100.0% | 0 | - |
| GULF COAST JET FUEL CLNDR | GE | 0 | 0 | - | 0 | - |
| GULF COAST JET VS NYM 2 H | ME | 8,160 | 16,771 | -51.3% | 9,182 | -11.1% |
| GULF COAST NO.6 FUEL OIL | MF | 8,604 | 2,356 | 265.2% | 8,368 | 2.8% |
| GULF COAST NO.6 FUEL OIL | MG | 10,158 | 10,970 | -7.4% | 10,669 | -4.8% |
| GULF COAST ULSD CALENDAR | LY | 1,581 | 1,784 | -11.4% | 534 | 196.1% |
| GULF COAST ULSD CRACK SPR | GY | 0 | 20 | -100.0% | 0 | - |
| HEATING OIL BALMO CLNDR S | 1G | 20 | 235 | -91.5% | 87 | -77.0% |
| HEATING OIL CRCK SPRD BAL | 1H | 0 | 0 | - | 0 | - |
| HEATING OIL PHY | HOL | 0 | 0 | 0.0% | 0 | 0.0% |
| HEATING OIL PHY | MHO | 13 | 0 | - | 19 | -31.6% |
| HENRY HUB BASIS SWAP | HB | 0 | 0 | - | 0 | - |

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| Energy Futures | | | | | | |
| HENRY HUB FINANCIAL LAST | NBP | 0 | 0 | - | 0 | - |
| HENRY HUB INDEX SWAP FUTU | IN | 0 | 0 | - | 0 | - |
| HENRY HUB SWAP | NN | 427,739 | 510,243 | -16.2% | 447,654 | -4.4% |
| HOUSTON SHIP CHANNEL BASI | NH | 0 | 155 | -100.0% | 0 | - |
| ICE BRENT DUBAI SWAP | DB | 580 | 2,740 | -78.8% | 705 | -17.7% |
| ICE GASOIL BALMO SWAP | U9 | 0 | 0 | - | 0 | - |
| INDIANA MISO | FTD | 0 | 0 | - | 0 | - |
| INDIANA MISO | PDD | 0 | 0 | - | 0 | - |
| INDIANA MISO | PTD | 0 | 0 | - | 0 | - |
| INDONESIAN COAL ICI4 | ICI | 0 | 40 | -100.0% | 0 | - |
| JAPAN C&F NAPHTHA CRACK S | JB | 4 | 6 | -33.3% | 6 | -33.3% |
| JAPAN C&F NAPHTHA SWAP | JA | 312 | 170 | 83.5% | 336 | -7.1% |
| JAPAN NAPHTHA BALMO SWAP | E6 | 0 | 6 | -100.0% | 0 | - |
| JET CIF NWE VS ICE | JC | 655 | 716 | -8.5% | 729 | -10.2% |
| JET FUEL UP-DOWN BALMO CL | 1M | 125 | 1,175 | -89.4% | 245 | -49.0% |
| JKM LNG Futures | JKM | 1,141 | 3,044 | -62.5% | 946 | 20.6% |
| LA CARB DIESEL (OPIS) SWA | KL | 311 | 225 | 38.2% | 399 | -22.1% |
| LA CARBOB GASOLINE(OPIS)S | JL | 0 | 0 | - | 0 | - |
| LA JET (OPIS) SWAP | JS | 75 | 1,285 | -94.2% | 100 | -25.0% |
| LLS (ARGUS) CALENDAR SWAP | XA | 0 | 0 | - | 0 | - |
| LLS (ARGUS) VS WTI SWAP | WJ | 1,598 | 2,963 | -46.1% | 1,725 | -7.4% |
| LOS ANGELES CARB GASOLINE | MH | 0 | 0 | - | 0 | - |
| MARS (ARGUS) VS WTI SWAP | YX | 250 | 420 | -40.5% | 375 | -33.3% |
| MARS (ARGUS) VS WTI TRD M | YV | 11,759 | 12,260 | -4.1% | 9,985 | 17.8% |
| MARS BLEND CRUDE OIL | MB | 0 | 0 | - | 0 | - |
| MCCLOSKEY ARA ARGS COAL | MTF | 8,108 | 20,405 | -60.3% | 9,076 | -10.7% |
| MCCLOSKEY RCH BAY COAL | MFF | 225 | 1,720 | -86.9% | 474 | -52.5% |
| MGN1 SWAP FUT | MGN | 0 | 0 | - | 0 | - |
| MICHIGAN BASIS | NF | 0 | 0 | - | 0 | - |
| MINI GAS EUROBOB OXY NWE ARGS BALMO | MEB | 0 | 68 | -100.0% | 0 | - |
| MINI RBOB V. EBOBARG NWE BRGS BALMO | MXR | 0 | 0 | - | 0 | - |
| MINI RBOB V. EBOB(ARGUS) NWE BRGS | MXB | 340 | 747 | -54.5% | 190 | 78.9% |
| MJC FUT | MJC | 0 | 30 | -100.0% | 0 | - |
| MNC FUT | MNC | 2,265 | 2,330 | -2.8% | 2,484 | -8.8% |
| MONT BELVIEU ETHANE 5 DECIMAL | C0 | 45,580 | 54,481 | -16.3% | 42,800 | 6.5% |
| MONT BELVIEU ETHANE OPIS BALMO | 8C | 1,176 | 1,450 | -18.9% | 220 | 434.5% |
| MONT BELVIEU LDH PROPANE 5 DECIMAL | B0 | 139,788 | 132,705 | 5.3% | 134,806 | 3.7% |
| MONT BELVIEU LDH PROPANE OPIS BALMO | 8O | 2,184 | 1,877 | 16.4% | 1,403 | 55.7% |
| MONT BELVIEU NATURAL GASOLINE 5 DEC | 7Q | 35,640 | 32,001 | 11.4% | 37,626 | -5.3% |
| MONT BELVIEU NATURAL GASOLINE BALMO | R0 | 2,163 | 207 | 944.9% | 2,477 | -12.7% |
| MONT BELVIEU NORMAL BUTANE 5 DECIMAL | D0 | 56,718 | 56,115 | 1.1% | 61,340 | -7.5% |
| MONT BELVIEU NORMAL BUTANE BALMO | 8J | 1,497 | 1,058 | 41.5% | 2,142 | -30.1% |
| NATURAL GAS | NWM | 305 | 0 | - | 305 | 0.0% |
| NATURAL GAS PEN SWP | NP | 179,168 | 200,765 | -10.8% | 182,907 | -2.0% |
| NEPOOL INTR HUB 5MW D AH | H2 | 0 | 8,256 | -100.0% | 0 | - |
| NEPOOL INTR HUB 5MW D AH | U6 | 0 | 447 | -100.0% | 0 | - |
| NEPOOL NE MASS 5MW D AH O | P8 | 0 | 0 | - | 0 | - |
| NEPOOL NE MASS 5MW D AH P | P7 | 0 | 0 | - | 0 | - |
| NEW ENGLAND HUB PEAK DAIL | CE | 0 | 952 | -100.0% | 33 | -100.0% |
| NEW YORK ETHANOL SWAP | EZ | 985 | 545 | 80.7% | 1,265 | -22.1% |
| NEW YORK HUB ZONE G PEAK | GN | 800 | 340 | 135.3% | 800 | 0.0% |
| NEW YORK HUB ZONE J PEAK | JN | 0 | 0 | - | 0 | - |

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| NGPL MID-CONTINENT | NL | 0 | 0 | - | 0 | - |
| NGPL TEX/OK | PD | 0 | 0 | - | 0 | - |
| N ILLINOIS HUB DAILY | UD | 0 | 20 | -100.0% | 0 | - |
| NO 2 UP-DOWN SPREAD CALEN | UT | 0 | 0 | - | 0 | - |
| NORTHWEST ROCKIES BASIS S | NR | 0 | 0 | - | 0 | - |
| NY1% VS GC SPREAD SWAP | VR | 0 | 60 | -100.0% | 0 | - |
| NY HARBOR 1% FUEL OIL BAL | VK | 0 | 0 | - | 0 | - |
| NY HARBOR HEAT OIL SWP | MP | 9,910 | 8,831 | 12.2% | 8,100 | 22.3% |
| NY HARBOR LOW SULPUR GAS 1000MBBL | NLS | 100 | 770 | -87.0% | 150 | -33.3% |
| NY HARBOR RESIDUAL FUEL 1 | MM | 175 | 675 | -74.1% | 175 | 0.0% |
| NYH NO 2 CRACK SPREAD CAL | HK | 7,278 | 10,368 | -29.8% | 8,522 | -14.6% |
| NYISO CAPACITY | LHV | 0 | 0 | - | 0 | - |
| NYISO CAPACITY | NRS | 0 | 0 | - | 0 | - |
| NYISO ZONE A 5MW D AH O P | K4 | 0 | 0 | - | 0 | - |
| NYISO ZONE G 5MW D AH O P | D2 | 0 | 0 | - | 0 | - |
| NYISO ZONE G 5MW D AH PK | T3 | 0 | 6,375 | -100.0% | 525 | -100.0% |
| NYISO ZONE J 5MW D AH O P | D4 | 0 | 0 | - | 0 | - |
| NYISO ZONE J 5MW D AH PK | D3 | 0 | 0 | - | 0 | - |
| NYMEX ALUMINUM FUTURES | AN | 0 | 0 | - | 0 | - |
| NYMEX ULSD VS NYMEX HO | UY | 0 | 0 | - | 0 | - |
| NY ULSD (ARGUS) VS HEATING OIL | 7Y | 3,364 | 419 | 702.9% | 2,694 | 24.9% |
| PANHANDLE BASIS SWAP FUTU | PH | 0 | 0 | - | 0 | - |
| PERMIAN BASIS SWAP | PM | 0 | 0 | - | 0 | - |
| PETROCHEMICALS | 22 | 118 | 267 | -55.8% | 82 | 43.9% |
| PETROCHEMICALS | 32 | 94 | 63 | 49.2% | 85 | 10.6% |
| PETROCHEMICALS | 3NA | 108 | 61 | 77.0% | 140 | -22.9% |
| PETROCHEMICALS | 51 | 2 | 0 | - | 3 | -33.3% |
| PETROCHEMICALS | 81 | 60 | 0 | - | 60 | 0.0% |
| PETROCHEMICALS | 8I | 5,335 | 7,127 | -25.1% | 5,709 | -6.6% |
| PETROCHEMICALS | 91 | 789 | 1,315 | -40.0% | 787 | 0.3% |
| PETROCHEMICALS | MAA | 20 | 90 | -77.8% | 0 | - |
| PETROCHEMICALS | MAE | 2,349 | 3,162 | -25.7% | 2,275 | 3.3% |
| PETROCHEMICALS | MAS | 545 | 1,557 | -65.0% | 570 | -4.4% |
| PETROCHEMICALS | MBE | 60 | 55 | 9.1% | 20 | 200.0% |
| PETROCHEMICALS | MNB | 0 | 1,060 | -100.0% | 0 | - |
| PETROCHEMICALS | MPS | 1,844 | 1,622 | 13.7% | 1,702 | 8.3% |
| PETROCHEMICALS | PMF | 2 | 0 | - | 2 | 0.0% |
| PETRO CRCKS & SPRDS ASIA | STR | 0 | 0 | - | 0 | - |
| PETRO CRCKS & SPRDS ASIA | STS | 0 | 100 | -100.0% | 0 | - |
| PETRO CRCKS & SPRDS NA | CRB | 12,501 | 22,675 | -44.9% | 14,109 | -11.4% |
| PETRO CRCKS & SPRDS NA | EXR | 469 | 1,409 | -66.7% | 485 | -3.3% |
| PETRO CRCKS & SPRDS NA | FOC | 0 | 0 | - | 0 | - |
| PETRO CRCKS & SPRDS NA | GBB | 0 | 0 | - | 0 | - |
| PETRO CRCKS & SPRDS NA | GCC | 0 | 0 | - | 0 | - |
| PETRO CRCKS & SPRDS NA | GCI | 0 | 0 | - | 0 | - |
| PETRO CRCKS & SPRDS NA | GCM | 0 | 0 | - | 0 | - |
| PETRO CRCKS & SPRDS NA | GCU | 0 | 420 | -100.0% | 0 | - |
| PETRO CRCKS & SPRDS NA | GFC | 0 | 14 | -100.0% | 0 | - |
| PETRO CRCKS & SPRDS NA | HOB | 442 | 4,788 | -90.8% | 688 | -35.8% |
| PETRO CRCKS & SPRDS NA | MFR | 0 | 24 | -100.0% | 0 | - |
| PETRO CRCKS & SPRDS NA | NYF | 0 | 0 | - | 0 | - |
| PETRO CRCKS & SPRDS NA | RBB | 1,200 | 3,998 | -70.0% | 1,535 | -21.8% |

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|-------------------------|-----------|---------------------------|---------------------------|----------|---------------------------|---------|
| Energy Futures | | | | | | |
| PETRO CRCKS & SPRDS NA | RVG | 6,831 | 420 | 1,526.4% | 7,587 | -10.0% |
| PETRO CRCKS & SPRDS NA | SF3 | 0 | 0 | - | 0 | - |
| PETRO CRK&SPRD EURO | 1NB | 759 | 132 | 475.0% | 516 | 47.1% |
| PETRO CRK&SPRD EURO | 43 | 0 | 5 | -100.0% | 0 | - |
| PETRO CRK&SPRD EURO | BOB | 146 | 717 | -79.6% | 183 | -20.2% |
| PETRO CRK&SPRD EURO | EOB | 0 | 0 | - | 0 | - |
| PETRO CRK&SPRD EURO | EPN | 1,033 | 1,091 | -5.3% | 1,086 | -4.9% |
| PETRO CRK&SPRD EURO | EVC | 40 | 332 | -88.0% | 40 | 0.0% |
| PETRO CRK&SPRD EURO | FVB | 0 | 0 | - | 0 | - |
| PETRO CRK&SPRD EURO | GCB | 0 | 0 | - | 0 | - |
| PETRO CRK&SPRD EURO | GOC | 0 | 0 | - | 0 | - |
| PETRO CRK&SPRD EURO | MGB | 0 | 10 | -100.0% | 0 | - |
| PETRO CRK&SPRD EURO | MUD | 0 | 0 | - | 0 | - |
| PETRO CRK&SPRD EURO | NBB | 0 | 9 | -100.0% | 0 | - |
| PETRO CRK&SPRD EURO | NOB | 328 | 450 | -27.1% | 390 | -15.9% |
| PETROLEUM PRODUCTS | 1NM | 0 | 0 | - | 0 | - |
| PETROLEUM PRODUCTS | BEB | 0 | 0 | - | 0 | - |
| PETROLEUM PRODUCTS | BEF | 0 | 2 | -100.0% | 0 | - |
| PETROLEUM PRODUCTS | CMS | 460 | 290 | 58.6% | 780 | -41.0% |
| PETROLEUM PRODUCTS | EWG | 1,004 | 3,050 | -67.1% | 1,482 | -32.3% |
| PETROLEUM PRODUCTS | H5F | 260 | 0 | - | 410 | -36.6% |
| PETROLEUM PRODUCTS | JCC | 8,502 | 1,525 | 457.5% | 9,150 | -7.1% |
| PETROLEUM PRODUCTS | MME | 0 | 0 | - | 0 | - |
| PETROLEUM PRODUCTS | MPE | 0 | 0 | - | 0 | - |
| PETROLEUM PRODUCTS | NCC | 0 | 0 | - | 0 | - |
| PETROLEUM PRODUCTS | R5E | 0 | 0 | - | 0 | - |
| PETROLEUM PRODUCTS | R5F | 197 | 218 | -9.6% | 221 | -10.9% |
| PETROLEUM PRODUCTS | S53 | 12 | 16 | -25.0% | 12 | 0.0% |
| PETROLEUM PRODUCTS | UCS | 0 | 0 | - | 0 | - |
| PETROLEUM PRODUCTS | UP5 | 0 | 0 | - | 0 | - |
| PETROLEUM PRODUCTS | VU | 0 | 0 | - | 0 | - |
| PETROLEUM PRODUCTS ASIA | E6M | 0 | 0 | - | 10 | -100.0% |
| PETROLEUM PRODUCTS ASIA | MJN | 995 | 953 | 4.4% | 980 | 1.5% |
| PETRO OUTRIGHT EURO | 0B | 28 | 172 | -83.7% | 42 | -33.3% |
| PETRO OUTRIGHT EURO | 0C | 0 | 0 | - | 0 | - |
| PETRO OUTRIGHT EURO | 0D | 107 | 204 | -47.5% | 99 | 8.1% |
| PETRO OUTRIGHT EURO | 0E | 0 | 0 | - | 0 | - |
| PETRO OUTRIGHT EURO | 0F | 0 | 0 | - | 0 | - |
| PETRO OUTRIGHT EURO | 1T | 0 | 0 | - | 0 | - |
| PETRO OUTRIGHT EURO | 5L | 20 | 0 | - | 0 | - |
| PETRO OUTRIGHT EURO | 63 | 0 | 0 | - | 0 | - |
| PETRO OUTRIGHT EURO | 7I | 0 | 0 | - | 0 | - |
| PETRO OUTRIGHT EURO | 7R | 0 | 17 | -100.0% | 8 | -100.0% |
| PETRO OUTRIGHT EURO | CBB | 0 | 0 | - | 0 | - |
| PETRO OUTRIGHT EURO | CGB | 0 | 0 | - | 0 | - |
| PETRO OUTRIGHT EURO | CPB | 80 | 130 | -38.5% | 12 | 566.7% |
| PETRO OUTRIGHT EURO | EFF | 0 | 0 | - | 0 | - |
| PETRO OUTRIGHT EURO | EFM | 0 | 0 | - | 0 | - |
| PETRO OUTRIGHT EURO | ENS | 0 | 0 | - | 0 | - |
| PETRO OUTRIGHT EURO | EWN | 890 | 678 | 31.3% | 628 | 41.7% |
| PETRO OUTRIGHT EURO | FLB | 0 | 0 | - | 0 | - |
| PETRO OUTRIGHT EURO | GNO | 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 | 1,549 | 2,803 | -44.7% | 1,878 | -17.5% |
| PETRO OUTRIGHT EURO | MBB | 0 | 0 | - | 0 | - |
| PETRO OUTRIGHT EURO | MBN | 1,990 | 925 | 115.1% | 2,000 | -0.5% |
| PETRO OUTRIGHT EURO | MEF | 95 | 345 | -72.5% | 110 | -13.6% |
| PETRO OUTRIGHT EURO | MQA | 40 | 38 | 5.3% | 85 | -52.9% |
| PETRO OUTRIGHT EURO | R53 | 6 | 45 | -86.7% | 9 | -33.3% |
| PETRO OUTRIGHT EURO | R5B | 0 | 0 | - | 0 | - |
| PETRO OUTRIGHT EURO | R5M | 3,341 | 4,815 | -30.6% | 3,667 | -8.9% |
| PETRO OUTRIGHT EURO | R5O | 1,799 | 2,188 | -17.8% | 1,882 | -4.4% |
| PETRO OUTRIGHT EURO | RBM | 10 | 0 | - | 0 | - |
| PETRO OUTRIGHT EURO | S5B | 0 | 0 | - | 0 | - |
| PETRO OUTRIGHT EURO | S5F | 200 | 234 | -14.5% | 197 | 1.5% |
| PETRO OUTRIGHT EURO | S5M | 2,890 | 3,939 | -26.6% | 2,983 | -3.1% |
| PETRO OUTRIGHT EURO | S5O | 1,494 | 4,098 | -63.5% | 1,963 | -23.9% |
| PETRO OUTRIGHT EURO | SMU | 0 | 750 | -100.0% | 0 | - |
| PETRO OUTRIGHT EURO | SR5 | 100 | 0 | - | 93 | 7.5% |
| PETRO OUTRIGHT EURO | T0 | 0 | 0 | - | 0 | - |
| PETRO OUTRIGHT EURO | T2B | 0 | 0 | - | 0 | - |
| PETRO OUTRIGHT EURO | TLB | 0 | 33 | -100.0% | 0 | - |
| PETRO OUTRIGHT EURO | ULB | 625 | 0 | - | 0 | - |
| PETRO OUTRIGHT EURO | UNB | 0 | 0 | - | 0 | - |
| PETRO OUTRIGHT EURO | V0 | 0 | 198 | -100.0% | 0 | - |
| PETRO OUTRIGHT NA | A8B | 75 | 0 | - | 50 | 50.0% |
| PETRO OUTRIGHT NA | AB6 | 425 | 170 | 150.0% | 575 | -26.1% |
| PETRO OUTRIGHT NA | BCR | 800 | 2,100 | -61.9% | 1,800 | -55.6% |
| PETRO OUTRIGHT NA | DBB | 0 | 0 | - | 0 | - |
| PETRO OUTRIGHT NA | FCB | 0 | 0 | - | 0 | - |
| PETRO OUTRIGHT NA | H5B | 0 | 0 | - | 0 | - |
| PETRO OUTRIGHT NA | JE | 20 | 160 | -87.5% | 30 | -33.3% |
| PETRO OUTRIGHT NA | JET | 1,150 | 550 | 109.1% | 1,375 | -16.4% |
| PETRO OUTRIGHT NA | JTB | 25 | 0 | - | 75 | -66.7% |
| PETRO OUTRIGHT NA | MBL | 425 | 410 | 3.7% | 405 | 4.9% |
| PETRO OUTRIGHT NA | MEN | 13 | 308 | -95.8% | 0 | - |
| PETRO OUTRIGHT NA | MEO | 373 | 533 | -30.0% | 343 | 8.7% |
| PETRO OUTRIGHT NA | MFD | 0 | 0 | - | 0 | - |
| PETRO OUTRIGHT NA | MMF | 0 | 0 | - | 0 | - |
| PJM AD HUB 5MW REAL TIME | V3 | 2,040 | 25,280 | -91.9% | 3,965 | -48.5% |
| PJM AD HUB 5MW REAL TIME | Z9 | 105 | 1,390 | -92.4% | 210 | -50.0% |
| PJM DAILY | JD | 284 | 292 | -2.7% | 284 | 0.0% |
| PJM DAYTON DA OFF-PEAK | R7 | 0 | 0 | - | 0 | - |
| PJM DAYTON DA PEAK | D7 | 0 | 0 | - | 0 | - |
| PJM NI HUB 5MW REAL TIME | B3 | 0 | 230 | -100.0% | 0 | - |
| PJM NI HUB 5MW REAL TIME | B6 | 0 | 3,760 | -100.0% | 0 | - |
| PJM PECO ZONE5MW PEAK CAL MO DAY AH | 4N | 0 | 0 | - | 0 | - |
| PJM PSEG DA OFF-PEAK | W6 | 0 | 0 | - | 0 | - |
| PJM PSEG DA PEAK | L6 | 0 | 0 | - | 0 | - |
| PJM WESTH DA OFF-PEAK | E4 | 0 | 0 | - | 0 | - |
| PJM WESTHDA PEAK | J4 | 0 | 0 | - | 0 | - |
| PJM WESTH RT OFF-PEAK | N9 | 18,360 | 218,120 | -91.6% | 35,685 | -48.5% |
| PJM WESTH RT PEAK | L1 | 8,824 | 20,675 | -57.3% | 11,806 | -25.3% |

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| Energy Futures | | | | | | |
| PLASTICS | PGP | 4,041 | 3,486 | 15.9% | 4,038 | 0.1% |
| PREMIUM UNLD 10P FOB MED | 3G | 34 | 180 | -81.1% | 51 | -33.3% |
| PROPANE NON-LDH MB (OPIS) BALMO SWP | 1S | 2,000 | 1,043 | 91.8% | 2,084 | -4.0% |
| PROPANE NON-LDH MT. BEL (OPIS) SWP | 1R | 37,868 | 50,626 | -25.2% | 34,239 | 10.6% |
| RBOB CALENDAR SWAP | RL | 17,558 | 13,920 | 26.1% | 16,935 | 3.7% |
| RBOB CRACK SPREAD | RM | 8,032 | 13,221 | -39.2% | 9,758 | -17.7% |
| RBOB CRACK SPREAD BALMO S | 1E | 0 | 0 | - | 0 | - |
| RBOB GASOLINE BALMO CLNDR | 1D | 9 | 833 | -98.9% | 647 | -98.6% |
| RBOB PHY | MRB | 3 | 0 | - | 15 | -80.0% |
| RBOB PHY | RBL | 0 | 0 | 0.0% | 0 | 0.0% |
| RBOB VS HEATING OIL SWAP | RH | 350 | 240 | 45.8% | 375 | -6.7% |
| SAN JUAN BASIS SWAP | NJ | 0 | 0 | - | 0 | - |
| SINGAPORE 180CST BALMO | BS | 1 | 0 | - | 0 | - |
| SINGAPORE 380CST BALMO | BT | 0 | 0 | - | 0 | - |
| SINGAPORE 380CST FUEL OIL | SE | 59 | 386 | -84.7% | 90 | -34.4% |
| SINGAPORE FUEL 180CST CAL | UA | 3 | 0 | - | 3 | 0.0% |
| SINGAPORE FUEL OIL 180 CS | GMS | 0 | 8 | -100.0% | 0 | - |
| SINGAPORE FUEL OIL SPREAD | SD | 102 | 0 | - | 102 | 0.0% |
| SINGAPORE GASOIL | MAF | 102 | 532 | -80.8% | 111 | -8.1% |
| SINGAPORE GASOIL | MTB | 0 | 0 | - | 0 | - |
| SINGAPORE GASOIL | MTS | 369 | 896 | -58.8% | 433 | -14.8% |
| SINGAPORE GASOIL | SBM | 0 | 60 | -100.0% | 0 | - |
| SINGAPORE GASOIL CALENDAR | MSG | 131 | 607 | -78.4% | 130 | 0.8% |
| SINGAPORE GASOIL SWAP | SG | 262 | 1,539 | -83.0% | 500 | -47.6% |
| SINGAPORE GASOIL VS ICE | GA | 2,933 | 5,029 | -41.7% | 3,225 | -9.1% |
| SINGAPORE JET KERO BALMO | BX | 0 | 0 | - | 0 | - |
| SINGAPORE JET KERO GASOIL | RK | 2,504 | 2,974 | -15.8% | 2,703 | -7.4% |
| SINGAPORE JET KEROSENE SW | KS | 0 | 1,090 | -100.0% | 0 | - |
| SINGAPORE MOGAS 92 UNLEADED BALMO | 1P | 0 | 0 | - | 0 | - |
| SINGAPORE MOGAS 92 UNLEADED SWP | 1N | 0 | 2,521 | -100.0% | 0 | - |
| Sumas Basis Swap | NK | 0 | 0 | - | 0 | - |
| TC2 ROTTERDAM TO USAC 37K | TM | 210 | 205 | 2.4% | 240 | -12.5% |
| TC5 RAS TANURA TO YOKOHAM | TH | 186 | 360 | -48.3% | 219 | -15.1% |
| TCO BASIS SWAP | TC | 0 | 0 | - | 0 | - |
| TD3 MEG TO JAPAN 250K MT | TL | 2,350 | 5,029 | -53.3% | 2,420 | -2.9% |
| TEXAS EASTERN ZONE M-3 BA | NX | 0 | 0 | - | 0 | - |
| TRANSCO ZONE4 BASIS SWAP | TR | 0 | 0 | - | 0 | - |
| UK NBP NAT GAS CAL MTH FUT | UKG | 0 | 0 | - | 0 | - |
| ULSD UP-DOWN BALMO SWP | 1L | 4,060 | 6,130 | -33.8% | 6,442 | -37.0% |
| UP DOWN GC ULSD VS NMX HO | LT | 24,155 | 54,550 | -55.7% | 26,420 | -8.6% |
| WAHA BASIS | NW | 0 | 0 | - | 0 | - |
| WTI-BRENT BULLET SWAP | BY | 0 | 0 | - | 0 | - |
| WTI-BRENT CALENDAR SWAP | BK | 120,636 | 100,561 | 20.0% | 121,409 | -0.6% |
| WTI CALENDAR | CS | 157,311 | 157,460 | -0.1% | 166,003 | -5.2% |
| WTI MIDLAND CRUDE OIL | WTL | 600 | 0 | 0.0% | 750 | -20.0% |
| WTS (ARGUS) VS WTI SWAP | FF | 20,577 | 43,164 | -52.3% | 23,361 | -11.9% |
| WTS (ARGUS) VS WTI TRD MT | FH | 2,630 | 7,215 | -63.5% | 3,595 | -26.8% |
| Energy Options | | | | | | |
| BRENT CALENDAR SWAP | BA | 1,650 | 1,556 | 6.0% | 1,860 | -11.3% |
| BRENT CRUDE OIL 1 M CSO | 9C | 18,800 | 125,400 | -85.0% | 42,300 | -55.6% |
| BRENT OIL LAST DAY | BE | 28,845 | 39,456 | -26.9% | 24,395 | 18.2% |
| BRENT OIL LAST DAY | BZO | 26,708 | 66,433 | -59.8% | 25,037 | 6.7% |

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| Energy Options | | | | | | |
| BRENT OIL LAST DAY | OS | 0 | 0 | - | 0 | - |
| COAL API2 INDEX | F2C | 385 | 990 | -61.1% | 365 | 5.5% |
| COAL API2 INDEX | F2Q | 0 | 125 | -100.0% | 0 | - |
| CRUDE OIL | 6Y | 0 | 0 | - | 0 | - |
| CRUDE OIL 1MO | WA | 128,325 | 249,350 | -48.5% | 115,382 | 11.2% |
| CRUDE OIL APO | AO | 155,367 | 217,160 | -28.5% | 178,059 | -12.7% |
| CRUDE OIL CALNDR STRIP | 6F | 0 | 0 | - | 0 | - |
| CRUDE OIL OUTRIGHTS | ECCL | 0 | 0 | - | 0 | 0.0% |
| CRUDE OIL PHY | CD | 0 | 0 | - | 0 | - |
| CRUDE OIL PHY | LC | 39,567 | 43,445 | -8.9% | 67,488 | -41.4% |
| CRUDE OIL PHY | LO | 2,162,304 | 1,982,523 | 9.1% | 2,905,264 | -25.6% |
| CRUDE OIL PHY | LO1 | 20,276 | 14,512 | 39.7% | 13,707 | 47.9% |
| CRUDE OIL PHY | LO2 | 2,584 | 894 | 189.0% | 1,015 | 154.6% |
| CRUDE OIL PHY | LO3 | 78 | 108 | -27.8% | 123 | -36.6% |
| CRUDE OIL PHY | LO4 | 95 | 0 | - | 45 | 111.1% |
| CRUDE OIL PHY | LO5 | 0 | 0 | - | 0 | - |
| CRUDE OIL PHY | MCO | 5,409 | 0 | - | 5,556 | -2.6% |
| CRUDE OIL PHY | MW1 | 701 | 0 | - | 308 | 127.6% |
| CRUDE OIL PHY | MW2 | 221 | 0 | - | 8 | 2,662.5% |
| CRUDE OIL PHY | MW3 | 0 | 0 | - | 0 | - |
| CRUDE OIL PHY | MW4 | 0 | 0 | - | 0 | 0.0% |
| CRUDE OIL PHY | MW5 | 0 | 0 | - | 0 | - |
| ELEC FINSETTLED | PJN | 0 | 43 | -100.0% | 0 | - |
| ETHANOL SWAP | CVR | 3,571 | 9,811 | -63.6% | 3,652 | -2.2% |
| ETHANOL SWAP | GVR | 0 | 0 | - | 0 | - |
| FREIGHT MARKETS | FLO | 20 | 0 | - | 30 | -33.3% |
| HEATING OIL CRK SPD AVG PRICE OPTIONS | 3W | 750 | 3,705 | -79.8% | 1,000 | -25.0% |
| HEATING OIL PHY | FZ | 0 | 0 | 0.0% | 0 | - |
| HEATING OIL PHY | LB | 0 | 508 | -100.0% | 0 | - |
| HEATING OIL PHY | OH | 13,493 | 27,920 | -51.7% | 22,958 | -41.2% |
| HENRY HUB FINANCIAL LAST | E7 | 26,172 | 29,665 | -11.8% | 22,733 | 15.1% |
| HENRY HUB FINANCIAL LAST | ECNG | 0 | 0 | - | 0 | 0.0% |
| HO 1 MONTH CLNDR OPTIONS | FA | 600 | 200 | 200.0% | 950 | -36.8% |
| LLS CRUDE OIL | HTO | 1,200 | 0 | - | 1,200 | 0.0% |
| LLS CRUDE OIL | WTO | 4,500 | 0 | - | 4,650 | -3.2% |
| MCCLOSKEY ARA ARGS COAL | MTO | 20 | 402 | -95.0% | 60 | -66.7% |
| MCCLOSKEY RCH BAY COAL | MFO | 0 | 0 | - | 0 | - |
| NATURAL GAS | LN1 | 150 | 0 | - | 0 | - |
| NATURAL GAS | LN2 | 0 | 0 | - | 0 | - |
| NATURAL GAS | LN3 | 0 | 0 | - | 0 | - |
| NATURAL GAS | LN4 | 0 | 0 | - | 0 | - |
| NATURAL GAS | LN5 | 0 | 0 | - | 0 | - |
| NATURAL GAS 1 M CSO FIN | G4 | 95,875 | 162,495 | -41.0% | 113,750 | -15.7% |
| NATURAL GAS 2 M CSO FIN | G2 | 0 | 17,750 | -100.0% | 0 | - |
| NATURAL GAS 3 M CSO FIN | G3 | 3,250 | 0 | - | 1,200 | 170.8% |
| NATURAL GAS 5 M CSO FIN | G5 | 2,000 | 5,250 | -61.9% | 0 | - |
| NATURAL GAS 6 M CSO FIN | G6 | 18,375 | 34,350 | -46.5% | 8,500 | 116.2% |
| NATURAL GAS OPT | JFO | 150 | 0 | - | 150 | 0.0% |
| NATURAL GAS OPT | JKO | 850 | 4,315 | -80.3% | 100 | 750.0% |
| NATURAL GAS OPT | TFO | 0 | 24,990 | -100.0% | 0 | - |
| NATURAL GAS OPTION ON CALENDAR STRP | 6J | 7,784 | 47,084 | -83.5% | 7,784 | 0.0% |
| NATURAL GAS PHY | KD | 0 | 0 | - | 0 | - |

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| Energy Options | | | | | | |
| NATURAL GAS PHY | LN | 2,880,278 | 2,238,259 | 28.7% | 2,867,759 | 0.4% |
| NATURAL GAS PHY | ON | 32,941 | 65,903 | -50.0% | 35,434 | -7.0% |
| NATURAL GAS SUMMER STRIP | 4D | 0 | 0 | - | 0 | - |
| NATURAL GAS WINTER STRIP | 6I | 0 | 0 | - | 0 | - |
| N ROCKIES PIPE SWAP | ZR | 0 | 0 | - | 0 | - |
| NY HARBOR HEAT OIL SWP | AT | 9,075 | 7,482 | 21.3% | 8,619 | 5.3% |
| PETROCHEMICALS | 4H | 3,517 | 8,131 | -56.7% | 4,038 | -12.9% |
| PETROCHEMICALS | 4J | 0 | 1,010 | -100.0% | 0 | - |
| PETROCHEMICALS | 4K | 0 | 0 | - | 0 | - |
| PETROCHEMICALS | CPR | 0 | 0 | - | 0 | - |
| PETRO OUTRIGHT EURO | BCO | 0 | 0 | - | 0 | - |
| PETRO OUTRIGHT NA | 1N5 | 0 | 0 | - | 0 | - |
| PETRO OUTRIGHT NA | DAP | 310 | 1,120 | -72.3% | 435 | -28.7% |
| PJM WES HUB PEAK CAL MTH | 6OA | 180 | 850 | -78.8% | 180 | 0.0% |
| PJM WES HUB PEAK LMP 50MW | PMA | 0 | 0 | 0.0% | 0 | - |
| RBOB 1MO CAL SPD OPTIONS | ZA | 0 | 0 | - | 0 | 0.0% |
| RBOB CALENDAR SWAP | RA | 324 | 401 | -19.2% | 393 | -17.6% |
| RBOB PHY | OB | 4,772 | 6,918 | -31.0% | 6,330 | -24.6% |
| RBOB PHY | RF | 0 | 0 | - | 0 | - |
| SAN JUAN PIPE SWAP | PJ | 0 | 0 | - | 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 | 50 | -100.0% | 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 | - |
| WTI-BRENT BULLET SWAP | BV | 153,150 | 190,460 | -19.6% | 153,950 | -0.5% |

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| Commodity | | Open Interest NOV 2022 | Open Interest NOV 2021 | % CHG | Open Interest OCT 2022 | % CHG |
|-------------------------------|------|---------------------------|---------------------------|-----------|---------------------------|----------|
| Energy Options | | | | | | |
| WTI CRUDE OIL 1 M CSO FI | 7A | 137,000 | 42,350 | 223.5% | 152,275 | -10.0% |
| Metals Futures | | | | | | |
| COMEX GOLD | GC | 429,283 | 531,868 | -19.3% | 464,625 | -7.6% |
| NYMEX HOT ROLLED STEEL | HR | 25,197 | 37,391 | -32.6% | 22,388 | 12.5% |
| NYMEX PLATINUM | PL | 67,790 | 62,385 | 8.7% | 56,940 | 19.1% |
| PALLADIUM | PA | 7,568 | 9,621 | -21.3% | 8,374 | -9.6% |
| URANIUM | UX | 800 | 800 | 0.0% | 800 | 0.0% |
| COMEX SILVER | SI | 122,380 | 138,003 | -11.3% | 139,157 | -12.1% |
| COMEX E-Mini GOLD | QO | 1,126 | 1,410 | -20.1% | 1,937 | -41.9% |
| COMEX E-Mini SILVER | QI | 292 | 473 | -38.3% | 413 | -29.3% |
| COMEX COPPER | HG | 149,642 | 184,214 | -18.8% | 180,740 | -17.2% |
| COMEX MINY COPPER | QC | 303 | 351 | -13.7% | 483 | -37.3% |
| ALUMINUM | A38 | 0 | 30 | -100.0% | 0 | - |
| ALUMINUM | AEP | 7,387 | 8,102 | -8.8% | 6,043 | 22.2% |
| ALUMINUM | ALA | 830 | 855 | -2.9% | 945 | -12.2% |
| ALUMINUM | ALI | 1,050 | 152 | 590.8% | 1,335 | -21.3% |
| ALUMINUM | AUP | 30,025 | 24,128 | 24.4% | 31,510 | -4.7% |
| ALUMINUM | CUP | 0 | 0 | - | 0 | - |
| ALUMINUM | EDP | 19,805 | 15,976 | 24.0% | 20,423 | -3.0% |
| ALUMINUM | MJP | 1,724 | 4,022 | -57.1% | 2,031 | -15.1% |
| COBALT METAL FUTURES | COB | 10,753 | 1,730 | 521.6% | 8,258 | 30.2% |
| COPPER | HGS | 13,712 | 17,244 | -20.5% | 13,508 | 1.5% |
| COPPER | MHG | 1,083 | 0 | - | 2,255 | -52.0% |
| FERROUS PRODUCTS | BUS | 8,228 | 4,106 | 100.4% | 6,986 | 17.8% |
| GOLD | 4GC | 0 | 0 | - | 0 | - |
| GOLD | SGC | 499 | 520 | -4.0% | 521 | -4.2% |
| GOLD | SGU | 526 | 705 | -25.4% | 538 | -2.2% |
| HOT ROLLED COIL STEEL FUTURES | EHR | 6,367 | 1,938 | 228.5% | 6,137 | 3.7% |
| IRON ORE 62 CHINA TSI FUTURES | TIO | 0 | 0 | - | 0 | - |
| IRON ORE CHINA | TIO | 2,020 | 2,409 | -16.1% | 2,570 | -21.4% |
| METALS | HDG | 212 | 100 | 112.0% | 212 | 0.0% |
| METALS | LTH | 149 | 0 | - | 58 | 156.9% |
| METALS | PAC | 0 | 0 | - | 0 | - |
| MICRO GOLD | MGC | 17,503 | 21,198 | -17.4% | 23,785 | -26.4% |
| SILVER | SIL | 7,872 | 5,973 | 31.8% | 6,240 | 26.2% |
| Metals Options | | | | | | |
| ALUMINUM | ALO | 0 | 1,450 | -100.0% | 0 | - |
| ALUMINUM | AX | 214 | 0 | - | 309 | -30.7% |
| COMEX COPPER | HX | 71,740 | 45,734 | 56.9% | 79,313 | -9.5% |
| COMEX GOLD | ECGC | 0 | 0 | - | 0 | 0.0% |
| COMEX GOLD | OG | 572,864 | 690,834 | -17.1% | 791,784 | -27.6% |
| COMEX SILVER | ECSI | 0 | 0 | - | 0 | 0.0% |
| COMEX SILVER | SO | 89,174 | 80,102 | 11.3% | 129,245 | -31.0% |
| COPPER | ECHG | 0 | 0 | - | 0 | 0.0% |
| COPPER | H1E | 175 | 0 | - | 313 | -44.1% |
| COPPER | H1M | 36 | 0 | - | 54 | -33.3% |
| COPPER | H1W | 73 | 0 | - | 80 | -8.7% |
| COPPER | H2E | 268 | 1 | 26,700.0% | 161 | 66.5% |
| COPPER | H2M | 90 | 0 | - | 2 | 4,400.0% |
| COPPER | H2W | 63 | 0 | - | 81 | -22.2% |

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| | Commodity | Open Interest NOV 2022 | Open Interest NOV 2021 | % CHG | Open Interest OCT 2022 | % CHG |
|-----------------------------------|-----------|---------------------------|---------------------------|--------|---------------------------|----------|
| Metals Options | | | | | | |
| COPPER | H3E | 49 | 0 | - | 29 | 69.0% |
| COPPER | H3M | 0 | 0 | - | 0 | - |
| COPPER | H3W | 2 | 0 | - | 23 | -91.3% |
| COPPER | H4E | 0 | 0 | - | 14 | -100.0% |
| COPPER | H4M | 0 | 0 | - | 0 | - |
| COPPER | H4W | 0 | 0 | - | 8 | -100.0% |
| COPPER | H5E | 0 | 0 | - | 0 | - |
| COPPER | H5M | 0 | 0 | - | 0 | 0.0% |
| COPPER | H5W | 0 | 0 | - | 0 | - |
| GOLD | G1M | 2,291 | 0 | - | 1,874 | 22.3% |
| GOLD | G1W | 874 | 0 | - | 4,036 | -78.3% |
| GOLD | G2M | 2,004 | 0 | - | 102 | 1,864.7% |
| GOLD | G2W | 463 | 0 | - | 1,228 | -62.3% |
| GOLD | G3M | 1,158 | 0 | - | 12 | 9,550.0% |
| GOLD | G3W | 47 | 0 | - | 973 | -95.2% |
| GOLD | G4M | 0 | 0 | - | 0 | - |
| GOLD | G4W | 0 | 0 | - | 447 | -100.0% |
| GOLD | G5M | 0 | 0 | - | 0 | 0.0% |
| GOLD | G5W | 0 | 0 | - | 0 | - |
| GOLD | OG1 | 15,580 | 18,180 | -14.3% | 12,968 | 20.1% |
| GOLD | OG2 | 4,568 | 16,033 | -71.5% | 4,700 | -2.8% |
| GOLD | OG3 | 2,452 | 4,013 | -38.9% | 1,056 | 132.2% |
| GOLD | OG4 | 387 | 390 | -0.8% | 71 | 445.1% |
| GOLD | OG5 | 0 | 0 | - | 0 | - |
| HOT ROLLED COIL STEEL CALL OPTION | HRO | 0 | 0 | - | 0 | - |
| HOT ROLLED COIL STEEL PUT OPTION | HRO | 0 | 0 | - | 0 | - |
| IRON ORE 62 CHINA TSI CALL OPTION | ICT | 0 | 0 | - | 0 | - |
| IRON ORE 62 CHINA TSI PUT OPTION | ICT | 0 | 0 | - | 0 | - |
| IRON ORE CHINA | ICT | 200 | 626 | -68.1% | 300 | -33.3% |
| NYMEX HOT ROLLED STEEL | HRO | 6,726 | 1,985 | 238.8% | 4,971 | 35.3% |
| NYMEX PLATINUM | PO | 2,946 | 15,215 | -80.6% | 2,519 | 17.0% |
| PALLADIUM | PAO | 3 | 221 | -98.6% | 6 | -50.0% |
| SILVER | M1S | 320 | 0 | - | 42 | 661.9% |
| SILVER | M2S | 79 | 0 | - | 99 | -20.2% |
| SILVER | M3S | 14 | 0 | - | 2 | 600.0% |
| SILVER | M4S | 0 | 0 | - | 0 | - |
| SILVER | M5S | 0 | 0 | - | 0 | 0.0% |
| SILVER | SO1 | 2,385 | 2,134 | 11.8% | 1,722 | 38.5% |
| SILVER | SO2 | 1,370 | 1,233 | 11.1% | 1,141 | 20.1% |
| SILVER | SO3 | 408 | 316 | 29.1% | 33 | 1,136.4% |
| SILVER | SO4 | 15 | 51 | -70.6% | 19 | -21.1% |
| SILVER | SO5 | 0 | 0 | - | 0 | - |
| SILVER | W1S | 152 | 0 | - | 238 | -36.1% |
| SILVER | W2S | 33 | 0 | - | 29 | 13.8% |
| SILVER | W3S | 0 | 0 | - | 57 | -100.0% |
| SILVER | W4S | 0 | 0 | - | 1 | -100.0% |
| SILVER | W5S | 0 | 0 | - | 0 | - |

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| Commodity | Open Interest NOV 2022 | Open Interest NOV 2021 | % CHG | Open Interest OCT 2022 | % CHG |
|----------------------------|---------------------------|---------------------------|---------------|---------------------------|---------------|
| TOTAL FUTURES GROUP | | | | | |
| Ag Products Futures | 0 | 0 | - | 0 | - |
| Energy Futures | 5,651,053 | 7,215,108 | -21.7% | 5,749,307 | -1.7% |
| Metals Futures | 934,126 | 1,075,704 | -13.2% | 1,009,212 | -7.4% |
| TOTAL FUTURES | 6,585,179 | 8,290,812 | -20.6% | 6,758,519 | -2.6% |
| TOTAL OPTIONS GROUP | | | | | |
| Energy Options | 5,991,622 | 5,673,374 | 5.6% | 6,799,042 | -11.9% |
| Metals Options | 779,223 | 878,518 | -11.3% | 1,040,062 | -25.1% |
| TOTAL OPTIONS | 6,770,845 | 6,551,892 | 3.3% | 7,839,104 | -13.6% |
| TOTAL COMBINED | | | | | |
| Ag Products | 0 | 0 | - | 0 | - |
| Energy | 11,642,675 | 12,888,482 | -9.7% | 12,548,349 | -7.2% |
| Metals | 1,713,349 | 1,954,222 | -12.3% | 2,049,274 | -16.4% |
| GRAND TOTAL | 13,356,024 | 14,842,704 | -10.0% | 14,597,623 | -8.5% |