

## NYMEX/COMEX Exchange Volume Report - Monthly

| Commodity                  |     | VOLUME<br>NOV 2022 | VOLUME<br>NOV 2021 | % CHG  | VOLUME<br>OCT 2022 | % CHG   | VOLUME<br>Y.T.D 2022 | VOLUME<br>Y.T.D 2021 | % CHG   |
|----------------------------|-----|--------------------|--------------------|--------|--------------------|---------|----------------------|----------------------|---------|
| <b>Ag Products Futures</b> |     |                    |                    |        |                    |         |                      |                      |         |
| COFFEE                     | KT  | 0                  | 0                  | 0.0%   | 0                  | 0.0%    | 0                    | 2                    | -100.0% |
| COTTON                     | TT  | 0                  | 0                  | 0.0%   | 0                  | -       | 0                    | 0                    | 0.0%    |
| SUGAR 11                   | YO  | 0                  | 0                  | 0.0%   | 0                  | -       | 0                    | 0                    | 0.0%    |
| <b>Energy Futures</b>      |     |                    |                    |        |                    |         |                      |                      |         |
| CRUDE OIL PHY              | CL  | 16,410,464         | 22,982,482         | -28.6% | 14,339,648         | 14.4%   | 191,188,101          | 230,984,726          | -17.2%  |
| CRUDE OIL                  | WS  | 0                  | 0                  | 0.0%   | 0                  | 0.0%    | 1,000                | 3,732                | -73.2%  |
| MINY WTI CRUDE OIL         | QM  | 432,710            | 618,678            | -30.1% | 463,840            | -6.7%   | 6,554,053            | 4,781,553            | 37.1%   |
| BRENT OIL LAST DAY         | BZ  | 1,466,257          | 2,227,127          | -34.2% | 1,450,089          | 1.1%    | 16,216,849           | 22,473,372           | -27.8%  |
| HEATING OIL PHY            | HO  | 2,674,562          | 3,817,258          | -29.9% | 3,545,120          | -24.6%  | 36,744,154           | 35,906,565           | 2.3%    |
| HTG OIL                    | BH  | 0                  | 0                  | 0.0%   | 36                 | -100.0% | 108                  | 124                  | -12.9%  |
| MINY HTG OIL               | QH  | 13                 | 9                  | 44.4%  | 10                 | 30.0%   | 99                   | 70                   | 41.4%   |
| RBOB PHY                   | RB  | 2,894,347          | 4,136,008          | -30.0% | 3,052,704          | -5.2%   | 38,239,717           | 44,525,093           | -14.1%  |
| MINY RBOB GAS              | QU  | 5                  | 8                  | -37.5% | 7                  | -28.6%  | 95                   | 94                   | 1.1%    |
| NATURAL GAS                | HP  | 147,873            | 142,005            | 4.1%   | 148,152            | -0.2%   | 1,845,769            | 1,772,135            | 4.2%    |
| LTD NAT GAS                | HH  | 365,864            | 336,990            | 8.6%   | 348,893            | 4.9%    | 3,900,873            | 3,706,474            | 5.2%    |
| MINY NATURAL GAS           | QG  | 325,570            | 326,126            | -0.2%  | 198,820            | 63.8%   | 3,411,265            | 2,110,945            | 61.6%   |
| PJM MONTHLY                | JM  | 0                  | 0                  | 0.0%   | 0                  | -       | 0                    | 0                    | 0.0%    |
| NATURAL GAS PHY            | NG  | 6,959,599          | 7,555,349          | -7.9%  | 6,411,375          | 8.6%    | 78,532,906           | 89,918,681           | -12.7%  |
| RBOB GAS                   | RT  | 0                  | 0                  | 0.0%   | 24                 | -100.0% | 72                   | 84                   | -14.3%  |
| 3.5% FUEL OIL CID MED SWA  | 7D  | 0                  | 0                  | 0.0%   | 0                  | -       | 0                    | 0                    | 0.0%    |
| AEP-DAYTON HUB DAILY       | VD  | 0                  | 0                  | 0.0%   | 0                  | 0.0%    | 0                    | 0                    | 0.0%    |
| ARGUS LLS VS. WTI (ARG) T  | E5  | 2,870              | 5,661              | -49.3% | 6,400              | -55.2%  | 63,190               | 93,008               | -32.1%  |
| ARGUS PROPAN FAR EST INDE  | 7E  | 9,075              | 5,703              | 59.1%  | 6,132              | 48.0%   | 66,316               | 67,501               | -1.8%   |
| ARGUS PROPAN(SAUDI ARAMCO  | 9N  | 3,027              | 1,901              | 59.2%  | 1,873              | 61.6%   | 22,410               | 20,144               | 11.2%   |
| AUSTRIALIAN COKE COAL      | ALW | 0                  | 0                  | 0.0%   | 0                  | -       | 0                    | 0                    | 0.0%    |
| BRENT BALMO SWAP           | J9  | 0                  | 0                  | 0.0%   | 0                  | 0.0%    | 1,587                | 1,314                | 20.8%   |
| BRENT CALENDAR SWAP        | CY  | 5,948              | 13,493             | -55.9% | 8,339              | -28.7%  | 153,925              | 112,681              | 36.6%   |
| BRENT FINANCIAL FUTURES    | BB  | 0                  | 0                  | 0.0%   | 0                  | 0.0%    | 0                    | 4,000                | -100.0% |
| BRENT FINANCIAL FUTURES    | MBC | 0                  | 0                  | 0.0%   | 0                  | 0.0%    | 250                  | 0                    | 0.0%    |
| BRENT FINANCIAL FUTURES    | MDB | 0                  | 0                  | 0.0%   | 0                  | 0.0%    | 0                    | 68                   | -100.0% |
| BRENT OIL LAST DAY         | BZL | 0                  | 0                  | 0.0%   | 0                  | 0.0%    | 0                    | 0                    | 0.0%    |
| BRENT OIL LAST DAY         | BZS | 0                  | 0                  | 0.0%   | 0                  | 0.0%    | 0                    | 0                    | 0.0%    |

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| <b>Energy Futures</b>               |     |                    |                    |          |                    |         |                      |                      |         |
| CAR VINTAGE                         | GEO | 7,863              | 4,389              | 79.2%    | 5,617              | 40.0%   | 40,182               | 13,871               | 189.7%  |
| CAR VINTAGE                         | NGO | 10,399             | 9,016              | 15.3%    | 8,343              | 24.6%   | 129,161              | 27,254               | 373.9%  |
| CHICAGO ETHANOL SWAP                | CU  | 55,334             | 77,780             | -28.9%   | 58,545             | -5.5%   | 653,012              | 812,487              | -19.6%  |
| CHICAGO ULSD PL VS HO SPR           | 5C  | 440                | 25                 | 1,660.0% | 1,540              | -71.4%  | 7,123                | 3,722                | 91.4%   |
| CHICAGO UNL GAS PL VS RBO           | 3C  | 0                  | 75                 | -100.0%  | 0                  | 0.0%    | 0                    | 500                  | -100.0% |
| CIG BASIS                           | CI  | 0                  | 0                  | 0.0%     | 0                  | -       | 0                    | 0                    | 0.0%    |
| CIN HUB 5MW D AH PK                 | H5  | 0                  | 0                  | 0.0%     | 0                  | -       | 0                    | 0                    | 0.0%    |
| CIN HUB 5MW REAL TIME O P           | H4  | 0                  | 0                  | 0.0%     | 0                  | -       | 0                    | 0                    | 0.0%    |
| CIN HUB 5MW REAL TIME PK            | H3  | 0                  | 0                  | 0.0%     | 0                  | -       | 0                    | 0                    | 0.0%    |
| COLUMB GULF MAINLINE NG B           | 5Z  | 0                  | 0                  | 0.0%     | 0                  | -       | 0                    | 0                    | 0.0%    |
| CONWAY NATURAL GASOLINE (OPIS) SWAP | 8L  | 15                 | 50                 | -70.0%   | 365                | -95.9%  | 2,976                | 3,308                | -10.0%  |
| CONWAY NORMAL BUTANE (OPIS) SWAP    | 8M  | 605                | 215                | 181.4%   | 330                | 83.3%   | 4,112                | 3,197                | 28.6%   |
| CONWAY PROPANE 5 DECIMALS SWAP      | 8K  | 19,902             | 14,895             | 33.6%    | 18,518             | 7.5%    | 180,860              | 163,489              | 10.6%   |
| CRUDE OIL                           | LPS | 0                  | 0                  | 0.0%     | 0                  | 0.0%    | 0                    | 0                    | 0.0%    |
| CRUDE OIL LAST DAY                  | 26  | 697                | 457                | 52.5%    | 390                | 78.7%   | 4,719                | 3,130                | 50.8%   |
| CRUDE OIL OUTRIGHTS                 | 42  | 524                | 309                | 69.6%    | 418                | 25.4%   | 9,558                | 3,342                | 186.0%  |
| CRUDE OIL OUTRIGHTS                 | CC5 | 0                  | 0                  | 0.0%     | 422                | -100.0% | 1,988                | 9,906                | -79.9%  |
| CRUDE OIL OUTRIGHTS                 | CSW | 0                  | 0                  | 0.0%     | 60                 | -100.0% | 1,320                | 14,019               | -90.6%  |
| CRUDE OIL OUTRIGHTS                 | DAB | 0                  | 0                  | 0.0%     | 0                  | -       | 0                    | 0                    | 0.0%    |
| CRUDE OIL OUTRIGHTS                 | DBL | 0                  | 0                  | 0.0%     | 0                  | -       | 0                    | 0                    | 0.0%    |
| CRUDE OIL OUTRIGHTS                 | GSW | 0                  | 0                  | 0.0%     | 0                  | 0.0%    | 105                  | 2,464                | -95.7%  |
| CRUDE OIL OUTRIGHTS                 | HTT | 90,319             | 90,500             | -0.2%    | 65,799             | 37.3%   | 813,236              | 697,020              | 16.7%   |
| CRUDE OIL OUTRIGHTS                 | LSW | 0                  | 90                 | -100.0%  | 82                 | -100.0% | 4,347                | 10,372               | -58.1%  |
| CRUDE OIL OUTRIGHTS                 | WCW | 150                | 7,295              | -97.9%   | 140                | 7.1%    | 17,420               | 41,637               | -58.2%  |
| CRUDE OIL PHY                       | CLL | 0                  | 0                  | 0.0%     | 0                  | 0.0%    | 0                    | 0                    | 0.0%    |
| CRUDE OIL PHY                       | HCL | 0                  | 0                  | 0.0%     | 0                  | 0.0%    | 0                    | 20,147               | -100.0% |
| CRUDE OIL PHY                       | MCL | 2,239,156          | 2,015,644          | 11.1%    | 2,178,545          | 2.8%    | 28,241,937           | 6,654,042            | 324.4%  |
| CRUDE OIL SPRDS                     | 38  | 0                  | 0                  | 0.0%     | 0                  | -       | 0                    | 0                    | 0.0%    |
| CRUDE OIL SPRDS                     | ANT | 0                  | 1,564              | -100.0%  | 330                | -100.0% | 8,466                | 5,711                | 48.2%   |
| CRUDE OIL SPRDS                     | HIL | 0                  | 240                | -100.0%  | 0                  | 0.0%    | 3,255                | 5,590                | -41.8%  |
| CRUDE OIL SPRDS                     | WTT | 61,415             | 41,441             | 48.2%    | 43,044             | 42.7%   | 571,752              | 294,639              | 94.1%   |
| CRUDE OIL TRADE AT MARKER SINGAPORE | CLS | 0                  | 0                  | 0.0%     | 0                  | 0.0%    | 0                    | 0                    | 0.0%    |
| DAILY PJM                           | AOR | 0                  | 0                  | 0.0%     | 0                  | 0.0%    | 0                    | 0                    | 0.0%    |
| DAILY PJM                           | IDO | 0                  | 0                  | 0.0%     | 0                  | 0.0%    | 0                    | 0                    | 0.0%    |
| DAILY PJM                           | NOC | 0                  | 0                  | 0.0%     | 0                  | 0.0%    | 0                    | 0                    | 0.0%    |

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| <b>Energy Futures</b>               |     |                    |                    |          |                    |        |                      |                      |         |
| DAILY PJM                           | PAP | 0                  | 0                  | 0.0%     | 0                  | 0.0%   | 0                    | 0                    | 0.0%    |
| DAILY PJM                           | PEO | 0                  | 0                  | 0.0%     | 0                  | 0.0%   | 0                    | 0                    | 0.0%    |
| DAILY PJM                           | PNO | 0                  | 0                  | 0.0%     | 0                  | -      | 0                    | 0                    | 0.0%    |
| DAILY PJM                           | PNP | 0                  | 0                  | 0.0%     | 0                  | -      | 0                    | 0                    | 0.0%    |
| DAILY PJM                           | PWO | 0                  | 0                  | 0.0%     | 0                  | 0.0%   | 0                    | 0                    | 0.0%    |
| DAILY PJM                           | PWP | 0                  | 0                  | 0.0%     | 0                  | 0.0%   | 0                    | 0                    | 0.0%    |
| DAILY PJM                           | WOR | 0                  | 0                  | 0.0%     | 0                  | 0.0%   | 0                    | 0                    | 0.0%    |
| DAILY PJM                           | ZAO | 0                  | 0                  | 0.0%     | 0                  | 0.0%   | 0                    | 0                    | 0.0%    |
| DAILY PJM                           | ZGO | 0                  | 0                  | 0.0%     | 0                  | 0.0%   | 0                    | 0                    | 0.0%    |
| DAILY PJM                           | ZJO | 0                  | 0                  | 0.0%     | 0                  | 0.0%   | 0                    | 0                    | 0.0%    |
| DATED BRENT (PLATTS) DAILY SWAP     | 7G  | 0                  | 0                  | 0.0%     | 0                  | -      | 0                    | 0                    | 0.0%    |
| DATED TO FRONTLINE BRENT            | FY  | 0                  | 0                  | 0.0%     | 0                  | 0.0%   | 2,220                | 2,715                | -18.2%  |
| DIESEL 10P BRG FOB RDM VS           | 7X  | 0                  | 0                  | 0.0%     | 0                  | 0.0%   | 5                    | 30                   | -83.3%  |
| DOMINION TRANSMISSION INC           | PG  | 0                  | 0                  | 0.0%     | 0                  | 0.0%   | 0                    | 0                    | 0.0%    |
| DUBAI CRUDE OIL BALMO               | BI  | 0                  | 0                  | 0.0%     | 0                  | -      | 0                    | 0                    | 0.0%    |
| DUBAI CRUDE OIL CALENDAR            | DC  | 0                  | 0                  | 0.0%     | 0                  | 0.0%   | 2,000                | 0                    | 0.0%    |
| DUTCH TTF NATURAL GAS CAL MONTH FUT | TTF | 0                  | 1,712              | -100.0%  | 0                  | 0.0%   | 14,607               | 433,381              | -96.6%  |
| EAST/WEST FUEL OIL SPREAD           | EW  | 0                  | 0                  | 0.0%     | 0                  | 0.0%   | 0                    | 0                    | 0.0%    |
| EIA FLAT TAX ONHWAY DIESE           | A5  | 1,173              | 28                 | 4,089.3% | 0                  | 0.0%   | 2,011                | 4,367                | -54.0%  |
| ELEC FINSETTLED                     | 47  | 0                  | 0                  | 0.0%     | 0                  | 0.0%   | 0                    | 0                    | 0.0%    |
| ELECTRICITY OFF PEAK                | 46  | 0                  | 0                  | 0.0%     | 0                  | 0.0%   | 0                    | 0                    | 0.0%    |
| ELECTRICITY OFF PEAK                | 4P  | 0                  | 0                  | 0.0%     | 0                  | -      | 0                    | 0                    | 0.0%    |
| EMMISSIONS                          | CGO | 3,391              | 0                  | -        | 1,437              | 136.0% | 22,428               | 0                    | -       |
| ETHANOL                             | MTH | 0                  | 0                  | 0.0%     | 0                  | 0.0%   | 10                   | 10                   | 0.0%    |
| ETHANOL SWAP                        | MT2 | 155                | 315                | -50.8%   | 300                | -48.3% | 2,120                | 2,128                | -0.4%   |
| ETHANOL T2 FOB ROTT INCL DUTY SWAP  | Z1  | 3,655              | 3,929              | -7.0%    | 2,783              | 31.3%  | 38,533               | 40,870               | -5.7%   |
| EURO 3.5% FUEL OIL RDAM B           | KR  | 0                  | 35                 | -100.0%  | 0                  | 0.0%   | 0                    | 81                   | -100.0% |
| EURO 3.5% FUEL OIL SPREAD           | FK  | 0                  | 0                  | 0.0%     | 0                  | -      | 0                    | 0                    | 0.0%    |
| EURO GASOIL 10 CAL SWAP             | GT  | 0                  | 0                  | -        | 0                  | 0.0%   | 3                    | 0                    | -       |
| EURO GASOIL 10PPM VS ICE            | ET  | 0                  | 45                 | -100.0%  | 0                  | 0.0%   | 1,169                | 2,812                | -58.4%  |
| EUROPE 1% FUEL OIL NWE CA           | UF  | 0                  | 0                  | 0.0%     | 0                  | 0.0%   | 0                    | 84                   | -100.0% |
| EUROPE 1% FUEL OIL RDAM C           | UH  | 0                  | 0                  | 0.0%     | 0                  | -      | 0                    | 0                    | 0.0%    |
| EUROPE 3.5% FUEL OIL MED            | UI  | 0                  | 0                  | 0.0%     | 0                  | 0.0%   | 0                    | 13                   | -100.0% |
| EUROPE 3.5% FUEL OIL RDAM           | UV  | 1                  | 99                 | -99.0%   | 13                 | -92.3% | 560                  | 541                  | 3.5%    |
| EUROPEAN GASOIL (ICE)               | 7F  | 129                | 371                | -65.2%   | 199                | -35.2% | 13,592               | 8,353                | 62.7%   |

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| <b>Energy Futures</b>           |     |                    |                    |         |                    |         |                      |                      |         |
| EUROPEAN NAPHTHA BALMO          | KZ  | 30                 | 75                 | -60.0%  | 5                  | 500.0%  | 211                  | 118                  | 78.8%   |
| EUROPEAN NAPHTHA CRACK SPR      | EN  | 293                | 2,502              | -88.3%  | 1,292              | -77.3%  | 21,700               | 18,928               | 14.6%   |
| EUROPE DATED BRENT SWAP         | UB  | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 0                    | 710                  | -100.0% |
| EUROPE JET KERO NWE CALSW       | UJ  | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 0                    | 20                   | -100.0% |
| EUROPE NAPHTHA CALSWAP          | UN  | 823                | 681                | 20.9%   | 343                | 139.9%  | 6,704                | 6,760                | -0.8%   |
| EURO PROPANE CIF ARA SWA        | PS  | 1,721              | 1,907              | -9.8%   | 2,313              | -25.6%  | 19,618               | 17,333               | 13.2%   |
| FREIGHT MARKETS                 | ACB | 0                  | 0                  | 0.0%    | 0                  | -       | 0                    | 0                    | 0.0%    |
| FREIGHT MARKETS                 | BF1 | 0                  | 0                  | 0.0%    | 0                  | -       | 0                    | 0                    | 0.0%    |
| FREIGHT MARKETS                 | BF2 | 0                  | 5                  | -100.0% | 0                  | 0.0%    | 0                    | 124                  | -100.0% |
| FREIGHT MARKETS                 | BF3 | 0                  | 0                  | 0.0%    | 0                  | -       | 0                    | 0                    | 0.0%    |
| FREIGHT MARKETS                 | BL2 | 132                | 50                 | 164.0%  | 0                  | 0.0%    | 1,377                | 285                  | 383.2%  |
| FREIGHT MARKETS                 | CS3 | 0                  | 0                  | -       | 0                  | 0.0%    | 10                   | 0                    | -       |
| FREIGHT MARKETS                 | CS4 | 120                | 0                  | -       | 0                  | 0.0%    | 480                  | 0                    | -       |
| FREIGHT MARKETS                 | FLJ | 0                  | 5                  | -100.0% | 0                  | 0.0%    | 0                    | 97                   | -100.0% |
| FREIGHT MARKETS                 | FLP | 0                  | 88                 | -100.0% | 68                 | -100.0% | 296                  | 702                  | -57.8%  |
| FREIGHT MARKETS                 | FRC | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 36                   | 70                   | -48.6%  |
| FREIGHT MARKETS                 | T2D | 57                 | 0                  | 0.0%    | 20                 | 185.0%  | 785                  | 784                  | 0.1%    |
| FREIGHT MARKETS                 | T7C | 0                  | 0                  | 0.0%    | 0                  | -       | 0                    | 0                    | 0.0%    |
| FREIGHT MARKETS                 | T8C | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 0                    | 10                   | -100.0% |
| FREIGHT MARKETS                 | TC6 | 0                  | 225                | -100.0% | 0                  | 0.0%    | 0                    | 225                  | -100.0% |
| FREIGHT MARKETS                 | TD3 | 0                  | 0                  | -       | 0                  | 0.0%    | 0                    | 0                    | -       |
| FREIGHT MARKETS                 | USC | 0                  | 0                  | 0.0%    | 0                  | -       | 0                    | 0                    | 0.0%    |
| FREIGHT MARKETS                 | USE | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 0                    | 90                   | -100.0% |
| FUEL OIL CRACK VS ICE           | FO  | 12                 | 0                  | 0.0%    | 0                  | 0.0%    | 1,204                | 2,203                | -45.3%  |
| FUEL OIL NWE CRACK VS ICE       | FI  | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 66                   | 72                   | -8.3%   |
| FUEL OIL (PLATS) CAR CM         | 1W  | 0                  | 0                  | 0.0%    | 0                  | -       | 0                    | 0                    | 0.0%    |
| FUELOIL SWAP:CARGOES VS.B       | FS  | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 0                    | 0                    | 0.0%    |
| GAS EURO-BOB OXY NWE BARGES     | 7H  | 147                | 358                | -58.9%  | 21                 | 600.0%  | 2,129                | 7,235                | -70.6%  |
| GAS EURO-BOB OXY NWE BARGES CRK | 7K  | 1,249              | 7,478              | -83.3%  | 1,207              | 3.5%    | 26,012               | 59,763               | -56.5%  |
| GASOIL 0.1CIF MED VS ICE        | Z5  | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 45                   | 60                   | -25.0%  |
| GASOIL 0.1 RDAM BRGS VS I       | WQ  | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 10                   | 42                   | -76.2%  |
| GASOIL 0.1 ROTTERDAM BARG       | VL  | 10                 | 15                 | -33.3%  | 0                  | 0.0%    | 76                   | 178                  | -57.3%  |
| GASOIL 10PPM VS ICE SWAP        | TP  | 0                  | 0                  | 0.0%    | 12                 | -100.0% | 12                   | 0                    | 0.0%    |
| GASOIL CALENDAR SWAP            | GX  | 36                 | 164                | -78.0%  | 6                  | 500.0%  | 1,013                | 1,586                | -36.1%  |
| GASOIL CRACK SPREAD CALEN       | GZ  | 12                 | 4,683              | -99.7%  | 0                  | 0.0%    | 10,971               | 20,494               | -46.5%  |

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| <b>Energy Futures</b>              |     |                    |                    |          |                    |         |                      |                      |          |
| GASOIL MINI CALENDAR SWAP          | QA  | 360                | 607                | -40.7%   | 116                | 210.3%  | 3,177                | 4,060                | -21.7%   |
| GERMAN POWER BASELOAD CAL MONTH FU | DEB | 0                  | 6                  | -100.0%  | 0                  | 0.0%    | 0                    | 244                  | -100.0%  |
| GROUP THREE UNLEAD GAS (P          | A9  | 0                  | 0                  | 0.0%     | 0                  | -       | 0                    | 0                    | 0.0%     |
| GRP THREE ULSD(PLT)VS HEA          | A6  | 3,035              | 3,460              | -12.3%   | 4,826              | -37.1%  | 49,238               | 47,395               | 3.9%     |
| GRP THREE UNL GS (PLT) VS          | A8  | 1,625              | 2,740              | -40.7%   | 905                | 79.6%   | 32,487               | 29,034               | 11.9%    |
| GULF COAST 3% FUEL OIL BA          | VZ  | 0                  | 28                 | -100.0%  | 0                  | 0.0%    | 967                  | 740                  | 30.7%    |
| GULF COAST JET FUEL CLNDR          | GE  | 0                  | 0                  | 0.0%     | 0                  | 0.0%    | 0                    | 0                    | 0.0%     |
| GULF COAST JET VS NYM 2 H          | ME  | 4,422              | 9,535              | -53.6%   | 5,219              | -15.3%  | 100,870              | 222,242              | -54.6%   |
| GULF COAST NO.6 FUEL OIL           | MF  | 4,566              | 545                | 737.8%   | 9,657              | -52.7%  | 49,763               | 18,759               | 165.3%   |
| GULF COAST NO.6 FUEL OIL           | MG  | 16,081             | 4,050              | 297.1%   | 13,424             | 19.8%   | 94,358               | 28,788               | 227.8%   |
| GULF COAST ULSD CALENDAR           | LY  | 1,203              | 68                 | 1,669.1% | 0                  | 0.0%    | 2,007                | 4,206                | -52.3%   |
| GULF COAST ULSD CRACK SPR          | GY  | 0                  | 0                  | 0.0%     | 0                  | 0.0%    | 0                    | 0                    | 0.0%     |
| HEATING OIL BALMO CLNDR S          | 1G  | 20                 | 235                | -91.5%   | 87                 | -77.0%  | 3,510                | 3,140                | 11.8%    |
| HEATING OIL CRCK SPRD BAL          | 1H  | 0                  | 0                  | 0.0%     | 0                  | 0.0%    | 127                  | 2,450                | -94.8%   |
| HEATING OIL PHY                    | HOL | 0                  | 0                  | 0.0%     | 0                  | 0.0%    | 0                    | 0                    | 0.0%     |
| HEATING OIL PHY                    | MHO | 36                 | 0                  | -        | 40                 | -10.0%  | 102                  | 0                    | -        |
| HENRY HUB BASIS SWAP               | HB  | 0                  | 0                  | 0.0%     | 0                  | -       | 0                    | 0                    | 0.0%     |
| HENRY HUB FINANCIAL LAST           | NBP | 0                  | 0                  | 0.0%     | 0                  | -       | 0                    | 0                    | 0.0%     |
| HENRY HUB INDEX SWAP FUTU          | IN  | 0                  | 0                  | 0.0%     | 0                  | -       | 0                    | 0                    | 0.0%     |
| HENRY HUB SWAP                     | NN  | 14,672             | 14,775             | -0.7%    | 23,546             | -37.7%  | 295,238              | 342,416              | -13.8%   |
| HOUSTON SHIP CHANNEL BASI          | NH  | 0                  | 0                  | 0.0%     | 0                  | 0.0%    | 0                    | 0                    | 0.0%     |
| ICE BRENT DUBAI SWAP               | DB  | 220                | 1,140              | -80.7%   | 0                  | 0.0%    | 2,413                | 6,744                | -64.2%   |
| ICE GASOIL BALMO SWAP              | U9  | 0                  | 0                  | 0.0%     | 0                  | 0.0%    | 0                    | 46                   | -100.0%  |
| INDIANA MISO                       | FTD | 0                  | 0                  | 0.0%     | 0                  | 0.0%    | 0                    | 0                    | 0.0%     |
| INDIANA MISO                       | PDD | 0                  | 0                  | 0.0%     | 0                  | -       | 0                    | 0                    | 0.0%     |
| INDIANA MISO                       | PTD | 0                  | 0                  | 0.0%     | 0                  | 0.0%    | 0                    | 0                    | 0.0%     |
| INDONESIAN COAL ICI4               | ICI | 0                  | 0                  | 0.0%     | 0                  | 0.0%    | 0                    | 1,124                | -100.0%  |
| JAPAN C&F NAPHTHA CRACK S          | JB  | 0                  | 6                  | -100.0%  | 0                  | 0.0%    | 428                  | 6                    | 7,033.3% |
| JAPAN C&F NAPHTHA SWAP             | JA  | 47                 | 46                 | 2.2%     | 141                | -66.7%  | 1,210                | 668                  | 81.1%    |
| JAPAN NAPHTHA BALMO SWAP           | E6  | 0                  | 6                  | -100.0%  | 0                  | 0.0%    | 6                    | 18                   | -66.7%   |
| JET CIF NWE VS ICE                 | JC  | 0                  | 386                | -100.0%  | 24                 | -100.0% | 1,525                | 1,750                | -12.9%   |
| JET FUEL UP-DOWN BALMO CL          | 1M  | 125                | 1,275              | -90.2%   | 245                | -49.0%  | 15,366               | 17,114               | -10.2%   |
| JKM LNG Futures                    | JKM | 386                | 830                | -53.5%   | 335                | 15.2%   | 3,609                | 6,423                | -43.8%   |
| LA CARB DIESEL (OPIS) SWA          | KL  | 43                 | 35                 | 22.9%    | 10                 | 330.0%  | 2,334                | 1,980                | 17.9%    |
| LA CARBOB GASOLINE(OPIS)S          | JL  | 0                  | 0                  | 0.0%     | 0                  | 0.0%    | 0                    | 225                  | -100.0%  |

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| Commodity                            |     | VOLUME<br>NOV 2022 | VOLUME<br>NOV 2021 | % CHG    | VOLUME<br>OCT 2022 | % CHG   | VOLUME<br>Y.T.D 2022 | VOLUME<br>Y.T.D 2021 | % CHG   |
|--------------------------------------|-----|--------------------|--------------------|----------|--------------------|---------|----------------------|----------------------|---------|
| <b>Energy Futures</b>                |     |                    |                    |          |                    |         |                      |                      |         |
| LA JET (OPIS) SWAP                   | JS  | 25                 | 705                | -96.5%   | 50                 | -50.0%  | 3,400                | 5,725                | -40.6%  |
| LLS (ARGUS) CALENDAR SWAP            | XA  | 0                  | 0                  | 0.0%     | 0                  | 0.0%    | 0                    | 0                    | 0.0%    |
| LLS (ARGUS) VS WTI SWAP              | WJ  | 0                  | 336                | -100.0%  | 0                  | 0.0%    | 93                   | 2,786                | -96.7%  |
| LOS ANGELES CARB GASOLINE            | MH  | 0                  | 0                  | 0.0%     | 0                  | -       | 0                    | 0                    | 0.0%    |
| MARS (ARGUS) VS WTI SWAP             | YX  | 0                  | 0                  | 0.0%     | 0                  | 0.0%    | 1,685                | 1,750                | -3.7%   |
| MARS (ARGUS) VS WTI TRD M            | YV  | 11,873             | 18,456             | -35.7%   | 15,185             | -21.8%  | 168,219              | 203,347              | -17.3%  |
| MARS BLEND CRUDE OIL                 | MB  | 0                  | 0                  | 0.0%     | 0                  | -       | 0                    | 0                    | 0.0%    |
| MCCLOSKEY ARA ARGS COAL              | MTF | 2,132              | 8,920              | -76.1%   | 926                | 130.2%  | 55,782               | 146,782              | -62.0%  |
| MCCLOSKEY RCH BAY COAL               | MFF | 15                 | 1,542              | -99.0%   | 80                 | -81.3%  | 4,151                | 10,581               | -60.8%  |
| MGN1 SWAP FUT                        | MGN | 0                  | 0                  | 0.0%     | 0                  | 0.0%    | 0                    | 0                    | 0.0%    |
| MICHIGAN BASIS                       | NF  | 0                  | 0                  | 0.0%     | 0                  | -       | 0                    | 0                    | 0.0%    |
| MINI GAS EUROBOB OXY NWE ARGS BALMO  | MEB | 0                  | 68                 | -100.0%  | 0                  | 0.0%    | 263                  | 193                  | 36.3%   |
| MINI RBOB V. EBOBARG NWE BRGS BALMO  | MXR | 0                  | 0                  | 0.0%     | 0                  | 0.0%    | 50                   | 391                  | -87.2%  |
| MINI RBOB V. EBOB(ARGUS) NWE BRGS    | MXB | 310                | 319                | -2.8%    | 130                | 138.5%  | 3,364                | 6,138                | -45.2%  |
| MJC FUT                              | MJC | 0                  | 0                  | 0.0%     | 0                  | 0.0%    | 0                    | 50                   | -100.0% |
| MNC FUT                              | MNC | 1,658              | 1,964              | -15.6%   | 1,545              | 7.3%    | 18,555               | 10,318               | 79.8%   |
| MONT BELVIEU ETHANE 5 DECIMAL        | C0  | 37,839             | 29,425             | 28.6%    | 32,072             | 18.0%   | 400,423              | 321,678              | 24.5%   |
| MONT BELVIEU ETHANE OPIS BALMO       | 8C  | 1,176              | 1,450              | -18.9%   | 220                | 434.5%  | 10,077               | 9,848                | 2.3%    |
| MONT BELVIEU LDH PROPANE 5 DECIMAL   | B0  | 199,579            | 195,629            | 2.0%     | 192,621            | 3.6%    | 1,898,487            | 2,081,079            | -8.8%   |
| MONT BELVIEU LDH PROPANE OPIS BALMO  | 8O  | 2,379              | 1,957              | 21.6%    | 1,593              | 49.3%   | 29,449               | 33,830               | -13.0%  |
| MONT BELVIEU NATURAL GASOLINE 5 DEC  | 7Q  | 20,191             | 17,526             | 15.2%    | 27,114             | -25.5%  | 267,044              | 163,373              | 63.5%   |
| MONT BELVIEU NATURAL GASOLINE BALMO  | R0  | 2,393              | 207                | 1,056.0% | 2,814              | -15.0%  | 18,781               | 6,672                | 181.5%  |
| MONT BELVIEU NORMAL BUTANE 5 DECIMAL | D0  | 60,424             | 55,203             | 9.5%     | 57,789             | 4.6%    | 605,894              | 608,338              | -0.4%   |
| MONT BELVIEU NORMAL BUTANE BALMO     | 8J  | 1,577              | 1,183              | 33.3%    | 2,247              | -29.8%  | 16,734               | 13,999               | 19.5%   |
| NATURAL GAS                          | NWM | 0                  | 0                  | -        | 305                | -100.0% | 305                  | 0                    | -       |
| NATURAL GAS PEN SWP                  | NP  | 27,154             | 41,693             | -34.9%   | 33,039             | -17.8%  | 478,558              | 584,427              | -18.1%  |
| NEPOOL INTR HUB 5MW D AH             | H2  | 0                  | 0                  | 0.0%     | 0                  | 0.0%    | 0                    | 0                    | 0.0%    |
| NEPOOL INTR HUB 5MW D AH             | U6  | 0                  | 0                  | 0.0%     | 0                  | 0.0%    | 0                    | 0                    | 0.0%    |
| NEPOOL NE MASS 5MW D AH O            | P8  | 0                  | 0                  | 0.0%     | 0                  | -       | 0                    | 0                    | 0.0%    |
| NEPOOL NE MASS 5MW D AH P            | P7  | 0                  | 0                  | 0.0%     | 0                  | -       | 0                    | 0                    | 0.0%    |
| NEW ENGLAND HUB PEAK DAIL            | CE  | 0                  | 0                  | 0.0%     | 0                  | 0.0%    | 0                    | 0                    | 0.0%    |
| NEW YORK ETHANOL SWAP                | EZ  | 490                | 245                | 100.0%   | 605                | -19.0%  | 9,482                | 1,815                | 422.4%  |
| NEW YORK HUB ZONE G PEAK             | GN  | 0                  | 0                  | 0.0%     | 0                  | 0.0%    | 0                    | 0                    | 0.0%    |
| NEW YORK HUB ZONE J PEAK             | JN  | 0                  | 0                  | 0.0%     | 0                  | 0.0%    | 0                    | 0                    | 0.0%    |
| NGPL MID-CONTINENT                   | NL  | 0                  | 0                  | 0.0%     | 0                  | -       | 0                    | 0                    | 0.0%    |

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| Commodity                         |     | VOLUME<br>NOV 2022 | VOLUME<br>NOV 2021 | % CHG   | VOLUME<br>OCT 2022 | % CHG  | VOLUME<br>Y.T.D 2022 | VOLUME<br>Y.T.D 2021 | % CHG   |
|-----------------------------------|-----|--------------------|--------------------|---------|--------------------|--------|----------------------|----------------------|---------|
| <b>Energy Futures</b>             |     |                    |                    |         |                    |        |                      |                      |         |
| NGPL TEX/OK                       | PD  | 0                  | 0                  | 0.0%    | 0                  | -      | 0                    | 0                    | 0.0%    |
| N ILLINOIS HUB DAILY              | UD  | 0                  | 0                  | 0.0%    | 0                  | 0.0%   | 0                    | 0                    | 0.0%    |
| NO 2 UP-DOWN SPREAD CALEN         | UT  | 0                  | 0                  | 0.0%    | 0                  | -      | 0                    | 0                    | 0.0%    |
| NORTHWEST ROCKIES BASIS S         | NR  | 0                  | 0                  | 0.0%    | 0                  | -      | 0                    | 0                    | 0.0%    |
| NY1% VS GC SPREAD SWAP            | VR  | 0                  | 0                  | 0.0%    | 0                  | 0.0%   | 0                    | 0                    | 0.0%    |
| NY HARBOR 1% FUEL OIL BAL         | VK  | 0                  | 0                  | 0.0%    | 0                  | 0.0%   | 0                    | 0                    | 0.0%    |
| NY HARBOR HEAT OIL SWP            | MP  | 3,327              | 2,532              | 31.4%   | 1,038              | 220.5% | 15,816               | 12,636               | 25.2%   |
| NY HARBOR LOW SULPUR GAS 1000MBBL | NLS | 0                  | 0                  | 0.0%    | 0                  | 0.0%   | 0                    | 1,570                | -100.0% |
| NY HARBOR RESIDUAL FUEL 1         | MM  | 75                 | 200                | -62.5%  | 75                 | 0.0%   | 1,425                | 2,424                | -41.2%  |
| NYH NO 2 CRACK SPREAD CAL         | HK  | 105                | 562                | -81.3%  | 1,344              | -92.2% | 17,055               | 17,045               | 0.1%    |
| NYISO CAPACITY                    | LHV | 0                  | 0                  | 0.0%    | 0                  | 0.0%   | 0                    | 0                    | 0.0%    |
| NYISO CAPACITY                    | NRS | 0                  | 0                  | 0.0%    | 0                  | -      | 0                    | 0                    | 0.0%    |
| NYISO ZONE A 5MW D AH O P         | K4  | 0                  | 0                  | 0.0%    | 0                  | -      | 0                    | 0                    | 0.0%    |
| NYISO ZONE G 5MW D AH O P         | D2  | 0                  | 0                  | 0.0%    | 0                  | 0.0%   | 0                    | 0                    | 0.0%    |
| NYISO ZONE G 5MW D AH PK          | T3  | 0                  | 0                  | 0.0%    | 0                  | 0.0%   | 0                    | 0                    | 0.0%    |
| NYISO ZONE J 5MW D AH O P         | D4  | 0                  | 0                  | 0.0%    | 0                  | -      | 0                    | 0                    | 0.0%    |
| NYISO ZONE J 5MW D AH PK          | D3  | 0                  | 0                  | 0.0%    | 0                  | -      | 0                    | 0                    | 0.0%    |
| NYMEX ALUMINUM FUTURES            | AN  | 0                  | 0                  | 0.0%    | 0                  | -      | 0                    | 0                    | 0.0%    |
| NYMEX ULSD VS NYMEX HO            | UY  | 0                  | 0                  | 0.0%    | 0                  | -      | 0                    | 0                    | 0.0%    |
| NY ULSD (ARGUS) VS HEATING OIL    | 7Y  | 998                | 0                  | 0.0%    | 840                | 18.8%  | 6,410                | 650                  | 886.2%  |
| PANHANDLE BASIS SWAP FUTU         | PH  | 0                  | 0                  | 0.0%    | 0                  | 0.0%   | 0                    | 0                    | 0.0%    |
| PERMIAN BASIS SWAP                | PM  | 0                  | 0                  | 0.0%    | 0                  | -      | 0                    | 0                    | 0.0%    |
| PETROCHEMICALS                    | 22  | 142                | 292                | -51.4%  | 82                 | 73.2%  | 1,532                | 1,995                | -23.2%  |
| PETROCHEMICALS                    | 32  | 98                 | 73                 | 34.2%   | 92                 | 6.5%   | 523                  | 690                  | -24.2%  |
| PETROCHEMICALS                    | 3NA | 2                  | 13                 | -84.6%  | 45                 | -95.6% | 269                  | 162                  | 66.0%   |
| PETROCHEMICALS                    | 51  | 0                  | 0                  | 0.0%    | 0                  | 0.0%   | 15                   | 0                    | 0.0%    |
| PETROCHEMICALS                    | 81  | 0                  | 0                  | 0.0%    | 0                  | 0.0%   | 424                  | 147                  | 188.4%  |
| PETROCHEMICALS                    | 8I  | 200                | 574                | -65.2%  | 1,683              | -88.1% | 9,539                | 12,509               | -23.7%  |
| PETROCHEMICALS                    | 91  | 680                | 510                | 33.3%   | 377                | 80.4%  | 3,891                | 4,454                | -12.6%  |
| PETROCHEMICALS                    | MAA | 30                 | 50                 | -40.0%  | 0                  | 0.0%   | 490                  | 475                  | 3.2%    |
| PETROCHEMICALS                    | MAE | 1,522              | 1,405              | 8.3%    | 1,292              | 17.8%  | 13,104               | 10,665               | 22.9%   |
| PETROCHEMICALS                    | MAS | 460                | 557                | -17.4%  | 310                | 48.4%  | 4,030                | 4,212                | -4.3%   |
| PETROCHEMICALS                    | MBE | 50                 | 60                 | -16.7%  | 0                  | 0.0%   | 760                  | 710                  | 7.0%    |
| PETROCHEMICALS                    | MNB | 0                  | 16                 | -100.0% | 0                  | 0.0%   | 15                   | 2,055                | -99.3%  |
| PETROCHEMICALS                    | MPS | 618                | 606                | 2.0%    | 329                | 87.8%  | 3,244                | 4,343                | -25.3%  |





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|--------------------------|-----|--------------------|--------------------|---------|--------------------|---------|----------------------|----------------------|---------|
| <b>Energy Futures</b>    |     |                    |                    |         |                    |         |                      |                      |         |
| PETROCHEMICALS           | PMF | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 14                   | 9                    | 55.6%   |
| PETRO CRCKS & SPRDS ASIA | STR | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 0                    | 0                    | 0.0%    |
| PETRO CRCKS & SPRDS ASIA | STS | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 0                    | 0                    | 0.0%    |
| PETRO CRCKS & SPRDS NA   | CRB | 9,830              | 12,040             | -18.4%  | 11,592             | -15.2%  | 174,119              | 222,366              | -21.7%  |
| PETRO CRCKS & SPRDS NA   | EXR | 172                | 694                | -75.2%  | 132                | 30.3%   | 2,853                | 6,979                | -59.1%  |
| PETRO CRCKS & SPRDS NA   | FOC | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 0                    | 0                    | 0.0%    |
| PETRO CRCKS & SPRDS NA   | GBB | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 700                  | 655                  | 6.9%    |
| PETRO CRCKS & SPRDS NA   | GCC | 0                  | 0                  | 0.0%    | 0                  | -       | 0                    | 0                    | 0.0%    |
| PETRO CRCKS & SPRDS NA   | GCI | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 150                  | 370                  | -59.5%  |
| PETRO CRCKS & SPRDS NA   | GCM | 0                  | 0                  | 0.0%    | 0                  | -       | 0                    | 0                    | 0.0%    |
| PETRO CRCKS & SPRDS NA   | GCU | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 275                  | 880                  | -68.8%  |
| PETRO CRCKS & SPRDS NA   | GFC | 0                  | 14                 | -100.0% | 0                  | 0.0%    | 1,350                | 474                  | 184.8%  |
| PETRO CRCKS & SPRDS NA   | HOB | 0                  | 1,430              | -100.0% | 0                  | 0.0%    | 577                  | 5,310                | -89.1%  |
| PETRO CRCKS & SPRDS NA   | MFR | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 0                    | 145                  | -100.0% |
| PETRO CRCKS & SPRDS NA   | NYF | 0                  | 0                  | 0.0%    | 0                  | -       | 0                    | 0                    | 0.0%    |
| PETRO CRCKS & SPRDS NA   | RBB | 25                 | 967                | -97.4%  | 673                | -96.3%  | 6,651                | 16,081               | -58.6%  |
| PETRO CRCKS & SPRDS NA   | RVG | 861                | 225                | 282.7%  | 1,720              | -49.9%  | 20,396               | 11,595               | 75.9%   |
| PETRO CRCKS & SPRDS NA   | SF3 | 0                  | 0                  | 0.0%    | 0                  | -       | 0                    | 0                    | 0.0%    |
| PETRO CRK&SPRD EURO      | 1NB | 378                | 50                 | 656.0%  | 336                | 12.5%   | 2,499                | 433                  | 477.1%  |
| PETRO CRK&SPRD EURO      | 43  | 0                  | 5                  | -100.0% | 0                  | 0.0%    | 121                  | 26                   | 365.4%  |
| PETRO CRK&SPRD EURO      | BOB | 0                  | 294                | -100.0% | 0                  | 0.0%    | 605                  | 1,474                | -59.0%  |
| PETRO CRK&SPRD EURO      | EOB | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 0                    | 5                    | -100.0% |
| PETRO CRK&SPRD EURO      | EPN | 348                | 885                | -60.7%  | 374                | -7.0%   | 4,313                | 6,026                | -28.4%  |
| PETRO CRK&SPRD EURO      | EVC | 40                 | 20                 | 100.0%  | 40                 | 0.0%    | 867                  | 856                  | 1.3%    |
| PETRO CRK&SPRD EURO      | FVB | 0                  | 0                  | 0.0%    | 0                  | -       | 0                    | 0                    | 0.0%    |
| PETRO CRK&SPRD EURO      | GCB | 0                  | 0                  | 0.0%    | 0                  | -       | 0                    | 0                    | 0.0%    |
| PETRO CRK&SPRD EURO      | GOC | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 9                    | 0                    | 0.0%    |
| PETRO CRK&SPRD EURO      | MGB | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 0                    | 70                   | -100.0% |
| PETRO CRK&SPRD EURO      | MUD | 0                  | 0                  | 0.0%    | 0                  | -       | 0                    | 0                    | 0.0%    |
| PETRO CRK&SPRD EURO      | NBB | 0                  | 9                  | -100.0% | 0                  | 0.0%    | 0                    | 9                    | -100.0% |
| PETRO CRK&SPRD EURO      | NOB | 17                 | 68                 | -75.0%  | 75                 | -77.3%  | 934                  | 551                  | 69.5%   |
| PETROLEUM PRODUCTS       | 1NM | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 50                   | 717                  | -93.0%  |
| PETROLEUM PRODUCTS       | BEB | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 0                    | 3                    | -100.0% |
| PETROLEUM PRODUCTS       | BEF | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 2                    | 3                    | -33.3%  |
| PETROLEUM PRODUCTS       | CMS | 0                  | 0                  | 0.0%    | 350                | -100.0% | 1,590                | 730                  | 117.8%  |

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| Commodity               |     | VOLUME<br>NOV 2022 | VOLUME<br>NOV 2021 | % CHG   | VOLUME<br>OCT 2022 | % CHG   | VOLUME<br>Y.T.D 2022 | VOLUME<br>Y.T.D 2021 | % CHG    |
|-------------------------|-----|--------------------|--------------------|---------|--------------------|---------|----------------------|----------------------|----------|
| <b>Energy Futures</b>   |     |                    |                    |         |                    |         |                      |                      |          |
| PETROLEUM PRODUCTS      | EWG | 50                 | 350                | -85.7%  | 150                | -66.7%  | 4,817                | 5,298                | -9.1%    |
| PETROLEUM PRODUCTS      | H5F | 100                | 0                  | 0.0%    | 150                | -33.3%  | 885                  | 60                   | 1,375.0% |
| PETROLEUM PRODUCTS      | JCC | 50                 | 450                | -88.9%  | 2,250              | -97.8%  | 13,566               | 2,600                | 421.8%   |
| PETROLEUM PRODUCTS      | MME | 0                  | 0                  | 0.0%    | 0                  | -       | 0                    | 0                    | 0.0%     |
| PETROLEUM PRODUCTS      | MPE | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 0                    | 14                   | -100.0%  |
| PETROLEUM PRODUCTS      | NCC | 0                  | 0                  | 0.0%    | 0                  | -       | 0                    | 0                    | 0.0%     |
| PETROLEUM PRODUCTS      | R5E | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 0                    | 5                    | -100.0%  |
| PETROLEUM PRODUCTS      | R5F | 17                 | 98                 | -82.7%  | 24                 | -29.2%  | 473                  | 540                  | -12.4%   |
| PETROLEUM PRODUCTS      | S53 | 0                  | 12                 | -100.0% | 0                  | 0.0%    | 0                    | 12                   | -100.0%  |
| PETROLEUM PRODUCTS      | UCS | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 0                    | 0                    | 0.0%     |
| PETROLEUM PRODUCTS      | UP5 | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 0                    | 0                    | 0.0%     |
| PETROLEUM PRODUCTS      | VU  | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 1,148                | 341                  | 236.7%   |
| PETROLEUM PRODUCTS ASIA | E6M | 0                  | 0                  | 0.0%    | 10                 | -100.0% | 50                   | 10                   | 400.0%   |
| PETROLEUM PRODUCTS ASIA | MJN | 240                | 280                | -14.3%  | 320                | -25.0%  | 7,416                | 2,894                | 156.3%   |
| PETRO OUTRIGHT EURO     | 0B  | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 0                    | 223                  | -100.0%  |
| PETRO OUTRIGHT EURO     | 0C  | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 0                    | 75                   | -100.0%  |
| PETRO OUTRIGHT EURO     | 0D  | 60                 | 64                 | -6.2%   | 62                 | -3.2%   | 355                  | 940                  | -62.2%   |
| PETRO OUTRIGHT EURO     | 0E  | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 0                    | 20                   | -100.0%  |
| PETRO OUTRIGHT EURO     | 0F  | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 9                    | 9                    | 0.0%     |
| PETRO OUTRIGHT EURO     | 1T  | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 0                    | 20                   | -100.0%  |
| PETRO OUTRIGHT EURO     | 5L  | 20                 | 0                  | 0.0%    | 0                  | 0.0%    | 30                   | 0                    | 0.0%     |
| PETRO OUTRIGHT EURO     | 63  | 0                  | 0                  | 0.0%    | 0                  | -       | 0                    | 0                    | 0.0%     |
| PETRO OUTRIGHT EURO     | 7I  | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 285                  | 50                   | 470.0%   |
| PETRO OUTRIGHT EURO     | 7R  | 0                  | 17                 | -100.0% | 8                  | -100.0% | 46                   | 79                   | -41.8%   |
| PETRO OUTRIGHT EURO     | CBB | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 0                    | 33                   | -100.0%  |
| PETRO OUTRIGHT EURO     | CGB | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 30                   | 0                    | 0.0%     |
| PETRO OUTRIGHT EURO     | CPB | 80                 | 130                | -38.5%  | 12                 | 566.7%  | 1,766                | 3,612                | -51.1%   |
| PETRO OUTRIGHT EURO     | EFF | 0                  | 0                  | 0.0%    | 0                  | -       | 0                    | 0                    | 0.0%     |
| PETRO OUTRIGHT EURO     | EFM | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 0                    | 12                   | -100.0%  |
| PETRO OUTRIGHT EURO     | ENS | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 0                    | 0                    | 0.0%     |
| PETRO OUTRIGHT EURO     | EWN | 405                | 88                 | 360.2%  | 480                | -15.6%  | 2,170                | 2,095                | 3.6%     |
| PETRO OUTRIGHT EURO     | FLB | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 0                    | 5                    | -100.0%  |
| PETRO OUTRIGHT EURO     | GNO | 0                  | 0                  | 0.0%    | 0                  | -       | 0                    | 0                    | 0.0%     |
| PETRO OUTRIGHT EURO     | H5G | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 0                    | 0                    | 0.0%     |
| PETRO OUTRIGHT EURO     | JFB | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 0                    | 10                   | -100.0%  |

## NYMEX/COMEX Exchange Volume Report - Monthly

| Commodity             |     | VOLUME<br>NOV 2022 | VOLUME<br>NOV 2021 | % CHG   | VOLUME<br>OCT 2022 | % CHG  | VOLUME<br>Y.T.D 2022 | VOLUME<br>Y.T.D 2021 | % CHG   |
|-----------------------|-----|--------------------|--------------------|---------|--------------------|--------|----------------------|----------------------|---------|
| <b>Energy Futures</b> |     |                    |                    |         |                    |        |                      |                      |         |
| PETRO OUTRIGHT EURO   | M1B | 574                | 707                | -18.8%  | 817                | -29.7% | 11,589               | 13,399               | -13.5%  |
| PETRO OUTRIGHT EURO   | MBB | 0                  | 0                  | 0.0%    | 0                  | 0.0%   | 0                    | 240                  | -100.0% |
| PETRO OUTRIGHT EURO   | MBN | 390                | 210                | 85.7%   | 410                | -4.9%  | 6,411                | 3,760                | 70.5%   |
| PETRO OUTRIGHT EURO   | MEF | 20                 | 18                 | 11.1%   | 0                  | 0.0%   | 114                  | 2,355                | -95.2%  |
| PETRO OUTRIGHT EURO   | MQA | 30                 | 3                  | 900.0%  | 0                  | 0.0%   | 218                  | 68                   | 220.6%  |
| PETRO OUTRIGHT EURO   | R53 | 0                  | 0                  | 0.0%    | 0                  | 0.0%   | 0                    | 127                  | -100.0% |
| PETRO OUTRIGHT EURO   | R5B | 0                  | 0                  | 0.0%    | 0                  | 0.0%   | 0                    | 56                   | -100.0% |
| PETRO OUTRIGHT EURO   | R5M | 1,305              | 2,163              | -39.7%  | 1,440              | -9.4%  | 19,022               | 13,903               | 36.8%   |
| PETRO OUTRIGHT EURO   | R5O | 472                | 1,134              | -58.4%  | 511                | -7.6%  | 10,096               | 8,150                | 23.9%   |
| PETRO OUTRIGHT EURO   | RBM | 10                 | 0                  | 0.0%    | 0                  | 0.0%   | 122                  | 34                   | 258.8%  |
| PETRO OUTRIGHT EURO   | S5B | 0                  | 0                  | 0.0%    | 0                  | 0.0%   | 5                    | 5                    | 0.0%    |
| PETRO OUTRIGHT EURO   | S5F | 110                | 106                | 3.8%    | 101                | 8.9%   | 1,260                | 1,186                | 6.2%    |
| PETRO OUTRIGHT EURO   | S5M | 2,096              | 2,013              | 4.1%    | 2,074              | 1.1%   | 23,810               | 19,430               | 22.5%   |
| PETRO OUTRIGHT EURO   | S5O | 1,062              | 3,004              | -64.6%  | 712                | 49.2%  | 27,043               | 14,147               | 91.2%   |
| PETRO OUTRIGHT EURO   | SMU | 0                  | 50                 | -100.0% | 0                  | 0.0%   | 0                    | 1,450                | -100.0% |
| PETRO OUTRIGHT EURO   | SR5 | 12                 | 0                  | -       | 12                 | 0.0%   | 132                  | 0                    | -       |
| PETRO OUTRIGHT EURO   | T0  | 0                  | 0                  | 0.0%    | 0                  | -      | 0                    | 0                    | 0.0%    |
| PETRO OUTRIGHT EURO   | T2B | 0                  | 0                  | 0.0%    | 0                  | -      | 0                    | 0                    | 0.0%    |
| PETRO OUTRIGHT EURO   | TLB | 0                  | 33                 | -100.0% | 0                  | 0.0%   | 0                    | 58                   | -100.0% |
| PETRO OUTRIGHT EURO   | ULB | 625                | 0                  | 0.0%    | 0                  | -      | 625                  | 0                    | 0.0%    |
| PETRO OUTRIGHT EURO   | UNB | 0                  | 0                  | 0.0%    | 0                  | -      | 0                    | 0                    | 0.0%    |
| PETRO OUTRIGHT EURO   | V0  | 0                  | 132                | -100.0% | 0                  | 0.0%   | 0                    | 582                  | -100.0% |
| PETRO OUTRIGHT NA     | A8B | 75                 | 0                  | 0.0%    | 50                 | 50.0%  | 2,380                | 1,090                | 118.3%  |
| PETRO OUTRIGHT NA     | AB6 | 435                | 170                | 155.9%  | 590                | -26.3% | 3,880                | 2,100                | 84.8%   |
| PETRO OUTRIGHT NA     | BCR | 900                | 2,200              | -59.1%  | 2,050              | -56.1% | 26,070               | 20,707               | 25.9%   |
| PETRO OUTRIGHT NA     | DBB | 0                  | 0                  | 0.0%    | 0                  | -      | 0                    | 0                    | 0.0%    |
| PETRO OUTRIGHT NA     | FCB | 0                  | 0                  | 0.0%    | 0                  | 0.0%   | 0                    | 32                   | -100.0% |
| PETRO OUTRIGHT NA     | H5B | 0                  | 0                  | 0.0%    | 0                  | -      | 0                    | 0                    | 0.0%    |
| PETRO OUTRIGHT NA     | JE  | 0                  | 0                  | 0.0%    | 0                  | 0.0%   | 60                   | 275                  | -78.2%  |
| PETRO OUTRIGHT NA     | JET | 575                | 125                | 360.0%  | 975                | -41.0% | 6,360                | 4,150                | 53.3%   |
| PETRO OUTRIGHT NA     | JTB | 25                 | 0                  | 0.0%    | 75                 | -66.7% | 2,161                | 665                  | 225.0%  |
| PETRO OUTRIGHT NA     | MBL | 60                 | 60                 | 0.0%    | 75                 | -20.0% | 920                  | 731                  | 25.9%   |
| PETRO OUTRIGHT NA     | MEN | 13                 | 308                | -95.8%  | 0                  | 0.0%   | 594                  | 935                  | -36.5%  |
| PETRO OUTRIGHT NA     | MEO | 497                | 359                | 38.4%   | 302                | 64.6%  | 3,108                | 4,928                | -36.9%  |
| PETRO OUTRIGHT NA     | MFD | 0                  | 0                  | 0.0%    | 0                  | 0.0%   | 0                    | 0                    | 0.0%    |



## NYMEX/COMEX Exchange Volume Report - Monthly

| Commodity                           |     | VOLUME<br>NOV 2022 | VOLUME<br>NOV 2021 | % CHG  | VOLUME<br>OCT 2022 | % CHG   | VOLUME<br>Y.T.D 2022 | VOLUME<br>Y.T.D 2021 | % CHG   |
|-------------------------------------|-----|--------------------|--------------------|--------|--------------------|---------|----------------------|----------------------|---------|
| <b>Energy Futures</b>               |     |                    |                    |        |                    |         |                      |                      |         |
| PETRO OUTRIGHT NA                   | MMF | 0                  | 0                  | 0.0%   | 10                 | -100.0% | 20                   | 65                   | -69.2%  |
| PJM AD HUB 5MW REAL TIME            | V3  | 0                  | 0                  | 0.0%   | 0                  | 0.0%    | 0                    | 0                    | 0.0%    |
| PJM AD HUB 5MW REAL TIME            | Z9  | 0                  | 0                  | 0.0%   | 0                  | 0.0%    | 0                    | 0                    | 0.0%    |
| PJM DAILY                           | JD  | 0                  | 0                  | 0.0%   | 0                  | 0.0%    | 0                    | 0                    | 0.0%    |
| PJM DAYTON DA OFF-PEAK              | R7  | 0                  | 0                  | 0.0%   | 0                  | -       | 0                    | 0                    | 0.0%    |
| PJM DAYTON DA PEAK                  | D7  | 0                  | 0                  | 0.0%   | 0                  | -       | 0                    | 0                    | 0.0%    |
| PJM NI HUB 5MW REAL TIME            | B3  | 0                  | 0                  | 0.0%   | 0                  | 0.0%    | 0                    | 0                    | 0.0%    |
| PJM NI HUB 5MW REAL TIME            | B6  | 0                  | 0                  | 0.0%   | 0                  | 0.0%    | 0                    | 0                    | 0.0%    |
| PJM PECO ZONE5MW PEAK CAL MO DAY AH | 4N  | 0                  | 0                  | 0.0%   | 0                  | -       | 0                    | 0                    | 0.0%    |
| PJM PSEG DA OFF-PEAK                | W6  | 0                  | 0                  | 0.0%   | 0                  | -       | 0                    | 0                    | 0.0%    |
| PJM PSEG DA PEAK                    | L6  | 0                  | 0                  | 0.0%   | 0                  | -       | 0                    | 0                    | 0.0%    |
| PJM WESTH DA OFF-PEAK               | E4  | 0                  | 0                  | 0.0%   | 0                  | -       | 0                    | 0                    | 0.0%    |
| PJM WESTHDA PEAK                    | J4  | 0                  | 0                  | 0.0%   | 0                  | -       | 0                    | 0                    | 0.0%    |
| PJM WESTH RT OFF-PEAK               | N9  | 0                  | 0                  | 0.0%   | 0                  | 0.0%    | 0                    | 0                    | 0.0%    |
| PJM WESTH RT PEAK                   | L1  | 0                  | 0                  | 0.0%   | 0                  | 0.0%    | 0                    | 0                    | 0.0%    |
| PLASTICS                            | PGP | 729                | 2,026              | -64.0% | 1,347              | -45.9%  | 10,648               | 15,267               | -30.3%  |
| PREMIUM UNLD 10P FOB MED            | 3G  | 0                  | 0                  | 0.0%   | 0                  | 0.0%    | 111                  | 185                  | -40.0%  |
| PROPANE NON-LDH MB (OPIS) BALMO SWP | 1S  | 2,000              | 1,333              | 50.0%  | 2,404              | -16.8%  | 18,530               | 14,899               | 24.4%   |
| PROPANE NON-LDH MT. BEL (OPIS) SWP  | 1R  | 24,838             | 22,174             | 12.0%  | 14,183             | 75.1%   | 152,674              | 181,670              | -16.0%  |
| RBOB CALENDAR SWAP                  | RL  | 7,857              | 4,571              | 71.9%  | 8,402              | -6.5%   | 60,164               | 73,411               | -18.0%  |
| RBOB CRACK SPREAD                   | RM  | 300                | 575                | -47.8% | 395                | -24.1%  | 15,212               | 21,699               | -29.9%  |
| RBOB CRACK SPREAD BALMO S           | 1E  | 0                  | 0                  | -      | 0                  | 0.0%    | 127                  | 0                    | -       |
| RBOB GASOLINE BALMO CLNDR           | 1D  | 9                  | 833                | -98.9% | 647                | -98.6%  | 12,525               | 8,835                | 41.8%   |
| RBOB PHY                            | MRB | 30                 | 0                  | -      | 31                 | -3.2%   | 89                   | 0                    | -       |
| RBOB PHY                            | RBL | 0                  | 0                  | 0.0%   | 0                  | 0.0%    | 0                    | 0                    | 0.0%    |
| RBOB VS HEATING OIL SWAP            | RH  | 0                  | 0                  | 0.0%   | 420                | -100.0% | 975                  | 1,105                | -11.8%  |
| SAN JUAN BASIS SWAP                 | NJ  | 0                  | 0                  | 0.0%   | 0                  | -       | 0                    | 0                    | 0.0%    |
| SINGAPORE 180CST BALMO              | BS  | 1                  | 0                  | 0.0%   | 0                  | 0.0%    | 3                    | 0                    | 0.0%    |
| SINGAPORE 380CST BALMO              | BT  | 0                  | 0                  | 0.0%   | 0                  | 0.0%    | 1                    | 23                   | -95.7%  |
| SINGAPORE 380CST FUEL OIL           | SE  | 20                 | 189                | -89.4% | 12                 | 66.7%   | 1,323                | 2,023                | -34.6%  |
| SINGAPORE FUEL 180CST CAL           | UA  | 0                  | 0                  | 0.0%   | 3                  | -100.0% | 3                    | 0                    | 0.0%    |
| SINGAPORE FUEL OIL 180 CS           | GMS | 0                  | 0                  | 0.0%   | 0                  | 0.0%    | 0                    | 12                   | -100.0% |
| SINGAPORE FUEL OIL SPREAD           | SD  | 0                  | 0                  | 0.0%   | 45                 | -100.0% | 102                  | 0                    | 0.0%    |
| SINGAPORE GASOIL                    | MAF | 69                 | 350                | -80.3% | 77                 | -10.4%  | 4,026                | 3,089                | 30.3%   |
| SINGAPORE GASOIL                    | MTB | 0                  | 0                  | 0.0%   | 0                  | 0.0%    | 196                  | 52                   | 276.9%  |

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## NYMEX/COMEX Exchange Volume Report - Monthly

| Commodity                         |     | VOLUME<br>NOV 2022 | VOLUME<br>NOV 2021 | % CHG   | VOLUME<br>OCT 2022 | % CHG   | VOLUME<br>Y.T.D 2022 | VOLUME<br>Y.T.D 2021 | % CHG   |
|-----------------------------------|-----|--------------------|--------------------|---------|--------------------|---------|----------------------|----------------------|---------|
| <b>Energy Futures</b>             |     |                    |                    |         |                    |         |                      |                      |         |
| SINGAPORE GASOIL                  | MTS | 277                | 437                | -36.6%  | 386                | -28.2%  | 3,645                | 4,091                | -10.9%  |
| SINGAPORE GASOIL                  | SBM | 0                  | 60                 | -100.0% | 0                  | 0.0%    | 332                  | 178                  | 86.5%   |
| SINGAPORE GASOIL CALENDAR         | MSG | 26                 | 235                | -88.9%  | 61                 | -57.4%  | 1,272                | 8,346                | -84.8%  |
| SINGAPORE GASOIL SWAP             | SG  | 0                  | 225                | -100.0% | 15                 | -100.0% | 3,155                | 13,308               | -76.3%  |
| SINGAPORE GASOIL VS ICE           | GA  | 0                  | 1,080              | -100.0% | 0                  | 0.0%    | 3,936                | 11,108               | -64.6%  |
| SINGAPORE JET KERO BALMO          | BX  | 0                  | 0                  | 0.0%    | 0                  | -       | 0                    | 0                    | 0.0%    |
| SINGAPORE JET KERO GASOIL         | RK  | 0                  | 1,758              | -100.0% | 0                  | 0.0%    | 3,725                | 3,748                | -0.6%   |
| SINGAPORE JET KEROSENE SW         | KS  | 0                  | 1,300              | -100.0% | 0                  | 0.0%    | 405                  | 3,435                | -88.2%  |
| SINGAPORE MOGAS 92 UNLEADED BALMO | 1P  | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 810                  | 610                  | 32.8%   |
| SINGAPORE MOGAS 92 UNLEADED SWP   | 1N  | 0                  | 725                | -100.0% | 0                  | 0.0%    | 600                  | 7,281                | -91.8%  |
| Sumas Basis Swap                  | NK  | 0                  | 0                  | 0.0%    | 0                  | -       | 0                    | 0                    | 0.0%    |
| TC2 ROTTERDAM TO USAC 37K         | TM  | 12                 | 0                  | 0.0%    | 144                | -91.7%  | 450                  | 300                  | 50.0%   |
| TC5 RAS TANURA TO YOKOHAM         | TH  | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 243                  | 620                  | -60.8%  |
| TCO BASIS SWAP                    | TC  | 0                  | 0                  | 0.0%    | 0                  | -       | 0                    | 0                    | 0.0%    |
| TD3 MEG TO JAPAN 250K MT          | TL  | 120                | 845                | -85.8%  | 40                 | 200.0%  | 6,405                | 12,245               | -47.7%  |
| TEXAS EASTERN ZONE M-3 BA         | NX  | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 0                    | 0                    | 0.0%    |
| TRANSCO ZONE4 BASIS SWAP          | TR  | 0                  | 0                  | 0.0%    | 0                  | -       | 0                    | 0                    | 0.0%    |
| UK NBP NAT GAS CAL MTH FUT        | UKG | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 0                    | 2,535                | -100.0% |
| ULSD UP-DOWN BALMO SWP            | 1L  | 4,510              | 6,255              | -27.9%  | 7,335              | -38.5%  | 65,989               | 55,049               | 19.9%   |
| UP DOWN GC ULSD VS NMX HO         | LT  | 20,476             | 30,319             | -32.5%  | 21,792             | -6.0%   | 284,703              | 378,058              | -24.7%  |
| WAHA BASIS                        | NW  | 0                  | 0                  | 0.0%    | 0                  | -       | 0                    | 0                    | 0.0%    |
| WTI-BRENT BULLET SWAP             | BY  | 0                  | 0                  | 0.0%    | 0                  | -       | 0                    | 0                    | 0.0%    |
| WTI-BRENT CALENDAR SWAP           | BK  | 43,728             | 80,450             | -45.6%  | 44,545             | -1.8%   | 558,872              | 572,509              | -2.4%   |
| WTI CALENDAR                      | CS  | 43,810             | 54,416             | -19.5%  | 47,047             | -6.9%   | 668,310              | 575,720              | 16.1%   |
| WTI MIDLAND CRUDE OIL             | WTL | 0                  | 0                  | 0.0%    | 600                | -100.0% | 900                  | 2,655                | -66.1%  |
| WTS (ARGUS) VS WTI SWAP           | FF  | 216                | 0                  | 0.0%    | 150                | 44.0%   | 27,838               | 38,356               | -27.4%  |
| WTS (ARGUS) VS WTI TRD MT         | FH  | 0                  | 300                | -100.0% | 0                  | 0.0%    | 7,035                | 6,375                | 10.4%   |
| <b>Energy Options</b>             |     |                    |                    |         |                    |         |                      |                      |         |
| BRENT CALENDAR SWAP               | BA  | 0                  | 45                 | -100.0% | 144                | -100.0% | 3,272                | 3,106                | 5.3%    |
| BRENT CRUDE OIL 1 M CSO           | 9C  | 35,250             | 0                  | 0.0%    | 30,000             | 17.5%   | 166,500              | 198,050              | -15.9%  |
| BRENT OIL LAST DAY                | BE  | 19,750             | 7,649              | 158.2%  | 13,600             | 45.2%   | 129,287              | 231,991              | -44.3%  |
| BRENT OIL LAST DAY                | BZO | 9,152              | 50,182             | -81.8%  | 13,873             | -34.0%  | 187,241              | 290,872              | -35.6%  |
| BRENT OIL LAST DAY                | OS  | 0                  | 0                  | 0.0%    | 0                  | -       | 0                    | 0                    | 0.0%    |
| COAL API2 INDEX                   | F2C | 20                 | 190                | -89.5%  | 0                  | 0.0%    | 410                  | 1,580                | -74.1%  |

## NYMEX/COMEX Exchange Volume Report - Monthly

| Commodity                             |      | VOLUME<br>NOV 2022 | VOLUME<br>NOV 2021 | % CHG   | VOLUME<br>OCT 2022 | % CHG  | VOLUME<br>Y.T.D 2022 | VOLUME<br>Y.T.D 2021 | % CHG    |
|---------------------------------------|------|--------------------|--------------------|---------|--------------------|--------|----------------------|----------------------|----------|
| <b>Energy Options</b>                 |      |                    |                    |         |                    |        |                      |                      |          |
| COAL API2 INDEX                       | F2Q  | 0                  | 50                 | -100.0% | 0                  | 0.0%   | 100                  | 1,110                | -91.0%   |
| CRUDE OIL                             | 6Y   | 0                  | 0                  | 0.0%    | 0                  | 0.0%   | 0                    | 0                    | 0.0%     |
| CRUDE OIL 1MO                         | WA   | 57,425             | 58,910             | -2.5%   | 18,900             | 203.8% | 636,578              | 1,239,950            | -48.7%   |
| CRUDE OIL APO                         | AO   | 9,004              | 16,172             | -44.3%  | 23,246             | -61.3% | 217,958              | 335,170              | -35.0%   |
| CRUDE OIL CALNDR STRIP                | 6F   | 0                  | 0                  | 0.0%    | 0                  | 0.0%   | 0                    | 0                    | 0.0%     |
| CRUDE OIL OUTRIGHTS                   | ECCL | 7,184              | 0                  | -       | 4,173              | 72.2%  | 12,785               | 0                    | -        |
| CRUDE OIL PHY                         | CD   | 0                  | 0                  | 0.0%    | 0                  | -      | 0                    | 0                    | 0.0%     |
| CRUDE OIL PHY                         | LC   | 18,730             | 21,909             | -14.5%  | 27,578             | -32.1% | 374,191              | 141,495              | 164.5%   |
| CRUDE OIL PHY                         | LO   | 2,742,193          | 3,366,581          | -18.5%  | 2,283,507          | 20.1%  | 27,222,977           | 27,592,195           | -1.3%    |
| CRUDE OIL PHY                         | LO1  | 55,554             | 53,714             | 3.4%    | 37,459             | 48.3%  | 373,986              | 239,618              | 56.1%    |
| CRUDE OIL PHY                         | LO2  | 41,882             | 28,941             | 44.7%   | 28,918             | 44.8%  | 285,390              | 194,932              | 46.4%    |
| CRUDE OIL PHY                         | LO3  | 22,223             | 28,733             | -22.7%  | 24,296             | -8.5%  | 195,046              | 150,815              | 29.3%    |
| CRUDE OIL PHY                         | LO4  | 48,547             | 40,349             | 20.3%   | 29,882             | 62.5%  | 380,268              | 260,139              | 46.2%    |
| CRUDE OIL PHY                         | LO5  | 0                  | 0                  | 0.0%    | 0                  | 0.0%   | 76,069               | 79,307               | -4.1%    |
| CRUDE OIL PHY                         | MCO  | 16,247             | 0                  | -       | 11,020             | 47.4%  | 55,328               | 0                    | -        |
| CRUDE OIL PHY                         | MW1  | 2,161              | 0                  | -       | 1,332              | 62.2%  | 7,531                | 0                    | -        |
| CRUDE OIL PHY                         | MW2  | 2,540              | 0                  | -       | 1,126              | 125.6% | 8,801                | 0                    | -        |
| CRUDE OIL PHY                         | MW3  | 1,178              | 0                  | -       | 959                | 22.8%  | 4,568                | 0                    | -        |
| CRUDE OIL PHY                         | MW4  | 3,137              | 0                  | -       | 1,049              | 199.0% | 10,609               | 0                    | -        |
| CRUDE OIL PHY                         | MW5  | 0                  | 0                  | -       | 0                  | 0.0%   | 3,293                | 0                    | -        |
| ELEC FINSETTLED                       | PJN  | 0                  | 0                  | 0.0%    | 0                  | 0.0%   | 0                    | 0                    | 0.0%     |
| ETHANOL SWAP                          | CVR  | 1,911              | 6,173              | -69.0%  | 1,430              | 33.6%  | 30,680               | 36,500               | -15.9%   |
| ETHANOL SWAP                          | GVR  | 0                  | 0                  | 0.0%    | 0                  | 0.0%   | 0                    | 0                    | 0.0%     |
| FREIGHT MARKETS                       | FLO  | 0                  | 0                  | -       | 0                  | 0.0%   | 30                   | 0                    | -        |
| HEATING OIL CRK SPD AVG PRICE OPTIONS | 3W   | 0                  | 0                  | 0.0%    | 0                  | 0.0%   | 750                  | 1,980                | -62.1%   |
| HEATING OIL PHY                       | FZ   | 0                  | 0                  | 0.0%    | 0                  | 0.0%   | 0                    | 2,225                | -100.0%  |
| HEATING OIL PHY                       | LB   | 0                  | 0                  | 0.0%    | 0                  | 0.0%   | 382                  | 1,911                | -80.0%   |
| HEATING OIL PHY                       | OH   | 14,319             | 12,072             | 18.6%   | 11,009             | 30.1%  | 123,955              | 91,687               | 35.2%    |
| HENRY HUB FINANCIAL LAST              | E7   | 6,451              | 5,312              | 21.4%   | 5,139              | 25.5%  | 52,814               | 88,049               | -40.0%   |
| HENRY HUB FINANCIAL LAST              | ECNG | 4,308              | 0                  | -       | 3,243              | 32.8%  | 10,358               | 0                    | -        |
| HO 1 MONTH CLNDR OPTIONS              | FA   | 1,500              | 0                  | 0.0%    | 1,100              | 36.4%  | 7,975                | 200                  | 3,887.5% |
| LLS CRUDE OIL                         | HTO  | 0                  | 0                  | -       | 0                  | 0.0%   | 1,200                | 0                    | -        |
| LLS CRUDE OIL                         | WTO  | 0                  | 0                  | 0.0%    | 0                  | 0.0%   | 4,500                | 0                    | 0.0%     |
| MCCLOSKEY ARA ARGS COAL               | MTO  | 0                  | 0                  | 0.0%    | 0                  | 0.0%   | 0                    | 540                  | -100.0%  |
| MCCLOSKEY RCH BAY COAL                | MFO  | 0                  | 0                  | 0.0%    | 0                  | -      | 0                    | 0                    | 0.0%     |

## NYMEX/COMEX Exchange Volume Report - Monthly

| Commodity                           |     | VOLUME<br>NOV 2022 | VOLUME<br>NOV 2021 | % CHG   | VOLUME<br>OCT 2022 | % CHG   | VOLUME<br>Y.T.D 2022 | VOLUME<br>Y.T.D 2021 | % CHG   |
|-------------------------------------|-----|--------------------|--------------------|---------|--------------------|---------|----------------------|----------------------|---------|
| <b>Energy Options</b>               |     |                    |                    |         |                    |         |                      |                      |         |
| NATURAL GAS                         | LN1 | 150                | 0                  | -       | 0                  | 0.0%    | 847                  | 0                    | -       |
| NATURAL GAS                         | LN2 | 0                  | 0                  | -       | 0                  | 0.0%    | 1,502                | 0                    | -       |
| NATURAL GAS                         | LN3 | 0                  | 0                  | -       | 0                  | 0.0%    | 1,072                | 0                    | -       |
| NATURAL GAS                         | LN4 | 0                  | 0                  | -       | 0                  | 0.0%    | 1,517                | 0                    | -       |
| NATURAL GAS                         | LN5 | 0                  | 0                  | -       | 0                  | 0.0%    | 5                    | 0                    | -       |
| NATURAL GAS 1 M CSO FIN             | G4  | 77,350             | 76,220             | 1.5%    | 64,279             | 20.3%   | 975,021              | 647,028              | 50.7%   |
| NATURAL GAS 2 M CSO FIN             | G2  | 0                  | 8,150              | -100.0% | 0                  | 0.0%    | 14,100               | 30,250               | -53.4%  |
| NATURAL GAS 3 M CSO FIN             | G3  | 3,250              | 0                  | 0.0%    | 1,000              | 225.0%  | 354,540              | 247,994              | 43.0%   |
| NATURAL GAS 5 M CSO FIN             | G5  | 2,000              | 5,250              | -61.9%  | 0                  | 0.0%    | 48,250               | 18,650               | 158.7%  |
| NATURAL GAS 6 M CSO FIN             | G6  | 12,375             | 7,050              | 75.5%   | 3,500              | 253.6%  | 103,275              | 114,950              | -10.2%  |
| NATURAL GAS OPT                     | JFO | 0                  | 0                  | -       | 150                | -100.0% | 450                  | 0                    | -       |
| NATURAL GAS OPT                     | JKO | 850                | 2,500              | -66.0%  | 0                  | 0.0%    | 6,450                | 21,560               | -70.1%  |
| NATURAL GAS OPT                     | TFO | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 700                  | 153,770              | -99.5%  |
| NATURAL GAS OPTION ON CALENDAR STRP | 6J  | 0                  | 2,100              | -100.0% | 0                  | 0.0%    | 600                  | 63,320               | -99.1%  |
| NATURAL GAS PHY                     | KD  | 400                | 285                | 40.4%   | 300                | 33.3%   | 15,030               | 20,735               | -27.5%  |
| NATURAL GAS PHY                     | LN  | 1,877,430          | 1,334,882          | 40.6%   | 1,819,043          | 3.2%    | 21,849,328           | 22,448,890           | -2.7%   |
| NATURAL GAS PHY                     | ON  | 64,187             | 80,152             | -19.9%  | 60,158             | 6.7%    | 907,995              | 965,208              | -5.9%   |
| NATURAL GAS SUMMER STRIP            | 4D  | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 0                    | 0                    | 0.0%    |
| NATURAL GAS WINTER STRIP            | 6I  | 0                  | 0                  | 0.0%    | 0                  | -       | 0                    | 0                    | 0.0%    |
| N ROCKIES PIPE SWAP                 | ZR  | 0                  | 0                  | 0.0%    | 0                  | -       | 0                    | 0                    | 0.0%    |
| NY HARBOR HEAT OIL SWP              | AT  | 2,543              | 2,342              | 8.6%    | 1,067              | 138.3%  | 22,488               | 12,005               | 87.3%   |
| PETROCHEMICALS                      | 4H  | 0                  | 390                | -100.0% | 120                | -100.0% | 3,314                | 9,902                | -66.5%  |
| PETROCHEMICALS                      | 4J  | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 0                    | 1,315                | -100.0% |
| PETROCHEMICALS                      | 4K  | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 0                    | 0                    | 0.0%    |
| PETROCHEMICALS                      | CPR | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 0                    | 180                  | -100.0% |
| PETRO OUTRIGHT EURO                 | BCO | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 0                    | 0                    | 0.0%    |
| PETRO OUTRIGHT NA                   | 1N5 | 0                  | 0                  | 0.0%    | 0                  | -       | 0                    | 0                    | 0.0%    |
| PETRO OUTRIGHT NA                   | DAP | 0                  | 120                | -100.0% | 0                  | 0.0%    | 375                  | 1,410                | -73.4%  |
| PJM WES HUB PEAK CAL MTH            | 6OA | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 0                    | 0                    | 0.0%    |
| PJM WES HUB PEAK LMP 50MW           | PMA | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 0                    | 0                    | 0.0%    |
| RBOB 1MO CAL SPD OPTIONS            | ZA  | 250                | 0                  | -       | 300                | -16.7%  | 3,600                | 0                    | -       |
| RBOB CALENDAR SWAP                  | RA  | 20                 | 0                  | 0.0%    | 12                 | 66.7%   | 3,605                | 1,274                | 183.0%  |
| RBOB PHY                            | OB  | 2,114              | 6,442              | -67.2%  | 1,167              | 81.1%   | 41,498               | 82,113               | -49.5%  |
| RBOB PHY                            | RF  | 30                 | 0                  | 0.0%    | 80                 | -62.5%  | 1,540                | 480                  | 220.8%  |
| SAN JUAN PIPE SWAP                  | PJ  | 0                  | 0                  | 0.0%    | 0                  | -       | 0                    | 0                    | 0.0%    |

## NYMEX/COMEX Exchange Volume Report - Monthly

| Commodity                |     | VOLUME<br>NOV 2022 | VOLUME<br>NOV 2021 | % CHG   | VOLUME<br>OCT 2022 | % CHG   | VOLUME<br>Y.T.D 2022 | VOLUME<br>Y.T.D 2021 | % CHG   |
|--------------------------|-----|--------------------|--------------------|---------|--------------------|---------|----------------------|----------------------|---------|
| <b>Energy Options</b>    |     |                    |                    |         |                    |         |                      |                      |         |
| SHORT TERM               | U11 | 100                | 0                  | 0.0%    | 0                  | 0.0%    | 400                  | 50                   | 700.0%  |
| SHORT TERM               | U12 | 0                  | 50                 | -100.0% | 0                  | 0.0%    | 550                  | 150                  | 266.7%  |
| SHORT TERM               | U13 | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 100                  | 200                  | -50.0%  |
| SHORT TERM               | U14 | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 500                  | 300                  | 66.7%   |
| SHORT TERM               | U15 | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 50                   | 350                  | -85.7%  |
| SHORT TERM               | U22 | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 350                  | 0                    | 0.0%    |
| SHORT TERM               | U23 | 0                  | 0                  | 0.0%    | 0                  | -       | 0                    | 0                    | 0.0%    |
| SHORT TERM               | U24 | 0                  | 0                  | 0.0%    | 100                | -100.0% | 100                  | 100                  | 0.0%    |
| SHORT TERM               | U25 | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 400                  | 300                  | 33.3%   |
| SHORT TERM               | U26 | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 200                  | 75                   | 166.7%  |
| SHORT TERM NATURAL GAS   | U01 | 0                  | 50                 | -100.0% | 0                  | 0.0%    | 250                  | 275                  | -9.1%   |
| SHORT TERM NATURAL GAS   | U02 | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 0                    | 650                  | -100.0% |
| SHORT TERM NATURAL GAS   | U03 | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 0                    | 100                  | -100.0% |
| SHORT TERM NATURAL GAS   | U04 | 0                  | 200                | -100.0% | 0                  | 0.0%    | 950                  | 550                  | 72.7%   |
| SHORT TERM NATURAL GAS   | U05 | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 500                  | 200                  | 150.0%  |
| SHORT TERM NATURAL GAS   | U06 | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 550                  | 800                  | -31.3%  |
| SHORT TERM NATURAL GAS   | U07 | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 925                  | 325                  | 184.6%  |
| SHORT TERM NATURAL GAS   | U08 | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 200                  | 50                   | 300.0%  |
| SHORT TERM NATURAL GAS   | U09 | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 0                    | 300                  | -100.0% |
| SHORT TERM NATURAL GAS   | U10 | 500                | 0                  | 0.0%    | 0                  | 0.0%    | 700                  | 100                  | 600.0%  |
| SHORT TERM NATURAL GAS   | U16 | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 0                    | 75                   | -100.0% |
| SHORT TERM NATURAL GAS   | U17 | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 0                    | 150                  | -100.0% |
| SHORT TERM NATURAL GAS   | U18 | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 350                  | 100                  | 250.0%  |
| SHORT TERM NATURAL GAS   | U19 | 0                  | 0                  | 0.0%    | 50                 | -100.0% | 600                  | 0                    | 0.0%    |
| SHORT TERM NATURAL GAS   | U20 | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 250                  | 300                  | -16.7%  |
| SHORT TERM NATURAL GAS   | U21 | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 950                  | 300                  | 216.7%  |
| SHORT TERM NATURAL GAS   | U27 | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 0                    | 50                   | -100.0% |
| SHORT TERM NATURAL GAS   | U28 | 0                  | 0                  | 0.0%    | 250                | -100.0% | 350                  | 100                  | 250.0%  |
| SHORT TERM NATURAL GAS   | U29 | 150                | 0                  | 0.0%    | 0                  | 0.0%    | 150                  | 50                   | 200.0%  |
| SHORT TERM NATURAL GAS   | U30 | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 100                  | 250                  | -60.0%  |
| SHORT TERM NATURAL GAS   | U31 | 0                  | 0                  | 0.0%    | 0                  | 0.0%    | 200                  | 0                    | 0.0%    |
| WTI-BRENT BULLET SWAP    | BV  | 12,400             | 54,425             | -77.2%  | 28,800             | -56.9%  | 375,995              | 335,925              | 11.9%   |
| WTI CRUDE OIL 1 M CSO FI | 7A  | 74,350             | 40,085             | 85.5%   | 48,200             | 54.3%   | 630,350              | 746,785              | -15.6%  |



## NYMEX/COMEX Exchange Volume Report - Monthly

| Commodity                     |     | VOLUME<br>NOV 2022 | VOLUME<br>NOV 2021 | % CHG  | VOLUME<br>OCT 2022 | % CHG  | VOLUME<br>Y.T.D 2022 | VOLUME<br>Y.T.D 2021 | % CHG    |
|-------------------------------|-----|--------------------|--------------------|--------|--------------------|--------|----------------------|----------------------|----------|
| <b>Metals Futures</b>         |     |                    |                    |        |                    |        |                      |                      |          |
| COMEX GOLD                    | GC  | 5,419,185          | 6,130,590          | -11.6% | 3,998,867          | 35.5%  | 51,006,861           | 55,391,386           | -7.9%    |
| NYMEX HOT ROLLED STEEL        | HR  | 18,556             | 17,776             | 4.4%   | 22,180             | -16.3% | 241,016              | 227,056              | 6.1%     |
| NYMEX PLATINUM                | PL  | 433,587            | 364,392            | 19.0%  | 415,982            | 4.2%   | 4,635,183            | 4,005,434            | 15.7%    |
| PALLADIUM                     | PA  | 77,831             | 84,800             | -8.2%  | 40,121             | 94.0%  | 528,118              | 567,209              | -6.9%    |
| URANIUM                       | UX  | 0                  | 0                  | 0.0%   | 0                  | 0.0%   | 24                   | 1,183                | -98.0%   |
| COMEX SILVER                  | SI  | 1,849,022          | 1,880,818          | -1.7%  | 1,346,715          | 37.3%  | 15,952,951           | 18,661,387           | -14.5%   |
| COMEX E-Mini GOLD             | QO  | 48,013             | 26,937             | 78.2%  | 45,577             | 5.3%   | 368,046              | 253,486              | 45.2%    |
| COMEX E-Mini SILVER           | QI  | 4,568              | 5,279              | -13.5% | 4,378              | 4.3%   | 42,932               | 64,421               | -33.4%   |
| COMEX COPPER                  | HG  | 2,498,607          | 1,977,841          | 26.3%  | 1,821,218          | 37.2%  | 20,253,078           | 23,422,235           | -13.5%   |
| COMEX MINY COPPER             | QC  | 4,581              | 8,864              | -48.3% | 2,817              | 62.6%  | 39,534               | 55,837               | -29.2%   |
| ALUMINUM                      | A38 | 0                  | 0                  | 0.0%   | 0                  | 0.0%   | 0                    | 174                  | -100.0%  |
| ALUMINUM                      | AEP | 3,687              | 3,923              | -6.0%  | 1,346              | 173.9% | 21,169               | 30,848               | -31.4%   |
| ALUMINUM                      | ALA | 45                 | 60                 | -25.0% | 0                  | 0.0%   | 1,970                | 3,705                | -46.8%   |
| ALUMINUM                      | ALI | 44,688             | 13,922             | 221.0% | 52,643             | -15.1% | 365,883              | 130,003              | 181.4%   |
| ALUMINUM                      | AUP | 7,524              | 9,917              | -24.1% | 9,483              | -20.7% | 78,743               | 73,424               | 7.2%     |
| ALUMINUM                      | CUP | 0                  | 0                  | 0.0%   | 0                  | -      | 0                    | 0                    | 0.0%     |
| ALUMINUM                      | EDP | 4,292              | 6,218              | -31.0% | 9,623              | -55.4% | 56,374               | 39,562               | 42.5%    |
| ALUMINUM                      | MJP | 100                | 1,992              | -95.0% | 240                | -58.3% | 3,200                | 5,162                | -38.0%   |
| COBALT METAL FUTURES          | COB | 2,987              | 273                | 994.1% | 2,709              | 10.3%  | 13,990               | 3,222                | 334.2%   |
| COPPER                        | HGS | 1,633              | 1,337              | 22.1%  | 1,785              | -8.5%  | 17,931               | 24,038               | -25.4%   |
| COPPER                        | MHG | 91,994             | 0                  | -      | 71,359             | 28.9%  | 509,134              | 0                    | -        |
| FERROUS PRODUCTS              | BUS | 4,524              | 1,243              | 264.0% | 2,729              | 65.8%  | 30,583               | 16,068               | 90.3%    |
| GOLD                          | 4GC | 0                  | 0                  | 0.0%   | 0                  | 0.0%   | 0                    | 116                  | -100.0%  |
| GOLD                          | SGC | 243                | 566                | -57.1% | 296                | -17.9% | 7,886                | 17,463               | -54.8%   |
| GOLD                          | SGU | 550                | 14,715             | -96.3% | 502                | 9.6%   | 53,439               | 72,758               | -26.6%   |
| HOT ROLLED COIL STEEL FUTURES | EHR | 5,102              | 1,742              | 192.9% | 6,027              | -15.3% | 40,767               | 12,695               | 221.1%   |
| IRON ORE 62 CHINA TSI FUTURES | TIO | 0                  | 0                  | 0.0%   | 0                  | -      | 0                    | 0                    | 0.0%     |
| IRON ORE CHINA                | TIO | 752                | 1,630              | -53.9% | 880                | -14.5% | 14,165               | 11,016               | 28.6%    |
| METALS                        | HDG | 15                 | 0                  | 0.0%   | 35                 | -57.1% | 667                  | 143                  | 366.4%   |
| METALS                        | LTH | 91                 | 0                  | 0.0%   | 34                 | 167.6% | 149                  | 10                   | 1,390.0% |
| METALS                        | PAC | 0                  | 0                  | -      | 0                  | 0.0%   | 1,300                | 0                    | -        |
| MICRO GOLD                    | MGC | 1,020,946          | 1,271,788          | -19.7% | 941,893            | 8.4%   | 11,701,858           | 13,194,542           | -11.3%   |
| SILVER                        | SIL | 199,205            | 131,283            | 51.7%  | 173,016            | 15.1%  | 1,819,846            | 2,101,191            | -13.4%   |

### Metals Options

## NYMEX/COMEX Exchange Volume Report - Monthly

| Commodity             |      | VOLUME<br>NOV 2022 | VOLUME<br>NOV 2021 | % CHG    | VOLUME<br>OCT 2022 | % CHG   | VOLUME<br>Y.T.D 2022 | VOLUME<br>Y.T.D 2021 | % CHG     |
|-----------------------|------|--------------------|--------------------|----------|--------------------|---------|----------------------|----------------------|-----------|
| <b>Metals Options</b> |      |                    |                    |          |                    |         |                      |                      |           |
| ALUMINUM              | ALO  | 0                  | 0                  | 0.0%     | 0                  | 0.0%    | 0                    | 2,250                | -100.0%   |
| ALUMINUM              | AX   | 482                | 0                  | -        | 537                | -10.2%  | 1,237                | 0                    | -         |
| COMEX COPPER          | HX   | 126,171            | 45,922             | 174.8%   | 81,947             | 54.0%   | 966,469              | 713,861              | 35.4%     |
| COMEX GOLD            | ECGC | 5,944              | 0                  | -        | 2,350              | 152.9%  | 10,604               | 0                    | -         |
| COMEX GOLD            | OG   | 799,672            | 850,608            | -6.0%    | 825,563            | -3.1%   | 9,264,189            | 7,855,215            | 17.9%     |
| COMEX SILVER          | ECSI | 2,349              | 0                  | -        | 3,089              | -24.0%  | 7,812                | 0                    | -         |
| COMEX SILVER          | SO   | 178,438            | 118,369            | 50.7%    | 143,722            | 24.2%   | 1,308,539            | 1,678,421            | -22.0%    |
| COPPER                | ECHG | 1,811              | 0                  | -        | 1,856              | -2.4%   | 5,235                | 0                    | -         |
| COPPER                | H1E  | 494                | 38                 | 1,200.0% | 526                | -6.1%   | 2,551                | 85                   | 2,901.2%  |
| COPPER                | H1M  | 564                | 0                  | -        | 78                 | 623.1%  | 1,584                | 0                    | -         |
| COPPER                | H1W  | 90                 | 0                  | -        | 101                | -10.9%  | 1,331                | 0                    | -         |
| COPPER                | H2E  | 700                | 55                 | 1,172.7% | 405                | 72.8%   | 3,122                | 98                   | 3,085.7%  |
| COPPER                | H2M  | 232                | 0                  | -        | 61                 | 280.3%  | 955                  | 0                    | -         |
| COPPER                | H2W  | 209                | 0                  | -        | 168                | 24.4%   | 708                  | 0                    | -         |
| COPPER                | H3E  | 366                | 35                 | 945.7%   | 269                | 36.1%   | 2,489                | 68                   | 3,560.3%  |
| COPPER                | H3M  | 46                 | 0                  | -        | 80                 | -42.5%  | 797                  | 0                    | -         |
| COPPER                | H3W  | 52                 | 0                  | -        | 122                | -57.4%  | 423                  | 0                    | -         |
| COPPER                | H4E  | 372                | 11                 | 3,281.8% | 471                | -21.0%  | 2,867                | 160                  | 1,691.9%  |
| COPPER                | H4M  | 79                 | 0                  | -        | 90                 | -12.2%  | 482                  | 0                    | -         |
| COPPER                | H4W  | 46                 | 0                  | -        | 24                 | 91.7%   | 645                  | 0                    | -         |
| COPPER                | H5E  | 0                  | 0                  | 0.0%     | 0                  | 0.0%    | 710                  | 7                    | 10,042.9% |
| COPPER                | H5M  | 0                  | 0                  | -        | 141                | -100.0% | 360                  | 0                    | -         |
| COPPER                | H5W  | 253                | 0                  | -        | 0                  | 0.0%    | 966                  | 0                    | -         |
| GOLD                  | G1M  | 6,740              | 0                  | -        | 5,929              | 13.7%   | 32,253               | 0                    | -         |
| GOLD                  | G1W  | 4,399              | 0                  | -        | 13,906             | -68.4%  | 50,547               | 0                    | -         |
| GOLD                  | G2M  | 8,884              | 0                  | -        | 3,995              | 122.4%  | 42,716               | 0                    | -         |
| GOLD                  | G2W  | 8,401              | 0                  | -        | 8,988              | -6.5%   | 43,926               | 0                    | -         |
| GOLD                  | G3M  | 4,959              | 0                  | -        | 5,704              | -13.1%  | 29,247               | 0                    | -         |
| GOLD                  | G3W  | 10,702             | 0                  | -        | 5,134              | 108.5%  | 50,424               | 0                    | -         |
| GOLD                  | G4M  | 4,719              | 0                  | -        | 3,944              | 19.7%   | 23,245               | 0                    | -         |
| GOLD                  | G4W  | 4,489              | 0                  | -        | 518                | 766.6%  | 27,159               | 0                    | -         |
| GOLD                  | G5M  | 0                  | 0                  | -        | 3,819              | -100.0% | 8,464                | 0                    | -         |
| GOLD                  | G5W  | 8,936              | 0                  | -        | 0                  | 0.0%    | 22,942               | 0                    | -         |
| GOLD                  | OG1  | 55,968             | 64,964             | -13.8%   | 43,565             | 28.5%   | 510,828              | 485,652              | 5.2%      |
| GOLD                  | OG2  | 54,569             | 72,133             | -24.3%   | 34,615             | 57.6%   | 502,513              | 487,168              | 3.1%      |



## NYMEX/COMEX Exchange Volume Report - Monthly

| Commodity                         |     | VOLUME<br>NOV 2022 | VOLUME<br>NOV 2021 | % CHG         | VOLUME<br>OCT 2022 | % CHG        | VOLUME<br>Y.T.D 2022 | VOLUME<br>Y.T.D 2021 | % CHG        |
|-----------------------------------|-----|--------------------|--------------------|---------------|--------------------|--------------|----------------------|----------------------|--------------|
| <b>Metals Options</b>             |     |                    |                    |               |                    |              |                      |                      |              |
| GOLD                              | OG3 | 36,871             | 54,970             | -32.9%        | 42,155             | -12.5%       | 506,285              | 470,891              | 7.5%         |
| GOLD                              | OG4 | 18,861             | 54,743             | -65.5%        | 26,927             | -30.0%       | 407,681              | 327,166              | 24.6%        |
| GOLD                              | OG5 | 0                  | 0                  | 0.0%          | 0                  | 0.0%         | 117,605              | 123,602              | -4.9%        |
| HOT ROLLED COIL STEEL CALL OPTION | HRO | 0                  | 0                  | 0.0%          | 0                  | -            | 0                    | 0                    | 0.0%         |
| HOT ROLLED COIL STEEL PUT OPTION  | HRO | 0                  | 0                  | 0.0%          | 0                  | -            | 0                    | 0                    | 0.0%         |
| IRON ORE 62 CHINA TSI CALL OPTION | ICT | 0                  | 0                  | 0.0%          | 0                  | -            | 0                    | 0                    | 0.0%         |
| IRON ORE 62 CHINA TSI PUT OPTION  | ICT | 0                  | 0                  | 0.0%          | 0                  | -            | 0                    | 0                    | 0.0%         |
| IRON ORE CHINA                    | ICT | 0                  | 0                  | 0.0%          | 0                  | 0.0%         | 300                  | 6,198                | -95.2%       |
| NYMEX HOT ROLLED STEEL            | HRO | 2,025              | 830                | 144.0%        | 2,640              | -23.3%       | 18,065               | 3,800                | 375.4%       |
| NYMEX PLATINUM                    | PO  | 2,982              | 2,855              | 4.4%          | 2,837              | 5.1%         | 51,484               | 33,270               | 54.7%        |
| PALLADIUM                         | PAO | 3                  | 68                 | -95.6%        | 8                  | -62.5%       | 138                  | 6,630                | -97.9%       |
| SILVER                            | M1S | 4,949              | 0                  | -             | 277                | 1,686.6%     | 6,156                | 0                    | -            |
| SILVER                            | M2S | 936                | 0                  | -             | 1,253              | -25.3%       | 4,391                | 0                    | -            |
| SILVER                            | M3S | 156                | 0                  | -             | 591                | -73.6%       | 1,936                | 0                    | -            |
| SILVER                            | M4S | 508                | 0                  | -             | 986                | -48.5%       | 2,495                | 0                    | -            |
| SILVER                            | M5S | 0                  | 0                  | -             | 342                | -100.0%      | 544                  | 0                    | -            |
| SILVER                            | SO1 | 16,642             | 5,586              | 197.9%        | 6,605              | 152.0%       | 63,471               | 36,701               | 72.9%        |
| SILVER                            | SO2 | 10,091             | 6,754              | 49.4%         | 6,551              | 54.0%        | 60,293               | 40,218               | 49.9%        |
| SILVER                            | SO3 | 7,635              | 3,490              | 118.8%        | 8,534              | -10.5%       | 50,251               | 32,509               | 54.6%        |
| SILVER                            | SO4 | 2,882              | 3,109              | -7.3%         | 4,205              | -31.5%       | 37,425               | 22,621               | 65.4%        |
| SILVER                            | SO5 | 0                  | 0                  | 0.0%          | 0                  | 0.0%         | 9,229                | 8,830                | 4.5%         |
| SILVER                            | W1S | 416                | 0                  | -             | 1,015              | -59.0%       | 3,600                | 0                    | -            |
| SILVER                            | W2S | 1,921              | 0                  | -             | 517                | 271.6%       | 4,397                | 0                    | -            |
| SILVER                            | W3S | 589                | 0                  | -             | 573                | 2.8%         | 2,625                | 0                    | -            |
| SILVER                            | W4S | 260                | 0                  | -             | 2                  | 12,900.0%    | 920                  | 0                    | -            |
| SILVER                            | W5S | 712                | 0                  | -             | 0                  | 0.0%         | 1,468                | 0                    | -            |
| <b>TOTAL FUTURES GROUP</b>        |     |                    |                    |               |                    |              |                      |                      |              |
| Ag Products Futures               |     | 0                  | 0                  | 0.0%          | 0                  | 0.0%         | 0                    | 2                    | -100.0%      |
| Energy Futures                    |     | 34,793,519         | 45,123,045         | -22.9%        | 32,987,429         | 5.5%         | 414,870,809          | 453,363,068          | -8.5%        |
| Metals Futures                    |     | 11,742,328         | 11,957,906         | -1.8%         | 8,972,455          | 30.9%        | 107,806,797          | 118,385,774          | -8.9%        |
| <b>TOTAL FUTURES</b>              |     | <b>46,535,847</b>  | <b>57,080,951</b>  | <b>-18.5%</b> | <b>41,959,884</b>  | <b>10.9%</b> | <b>522,677,606</b>   | <b>571,748,844</b>   | <b>-8.6%</b> |

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## NYMEX/COMEX Exchange Volume Report - Monthly

| Commodity                  | VOLUME<br>NOV 2022 | VOLUME<br>NOV 2021 | % CHG         | VOLUME<br>OCT 2022 | % CHG        | VOLUME<br>Y.T.D 2022 | VOLUME<br>Y.T.D 2021 | % CHG        |
|----------------------------|--------------------|--------------------|---------------|--------------------|--------------|----------------------|----------------------|--------------|
| <b>TOTAL OPTIONS GROUP</b> |                    |                    |               |                    |              |                      |                      |              |
| Energy Options             | 5,251,115          | 5,317,675          | -1.3%         | 4,601,559          | 14.1%        | 55,957,954           | 57,113,416           | -2.0%        |
| Metals Options             | 1,399,575          | 1,284,540          | 9.0%          | 1,297,735          | 7.8%         | 14,279,098           | 12,335,421           | 15.8%        |
| <b>TOTAL OPTIONS</b>       | <b>6,650,690</b>   | <b>6,602,215</b>   | <b>0.7%</b>   | <b>5,899,294</b>   | <b>12.7%</b> | <b>70,237,052</b>    | <b>69,448,837</b>    | <b>1.1%</b>  |
| <b>TOTAL COMBINED</b>      |                    |                    |               |                    |              |                      |                      |              |
| Ag Products                | 0                  | 0                  | 0.0%          | 0                  | -            | 0                    | 2                    | -100.0%      |
| Energy                     | 40,044,634         | 50,440,720         | -20.6%        | 37,588,988         | 6.5%         | 470,828,763          | 510,476,484          | -7.8%        |
| Metals                     | 13,141,903         | 13,242,446         | -0.8%         | 10,270,190         | 28.0%        | 122,085,895          | 130,721,195          | -6.6%        |
| <b>GRAND TOTAL</b>         | <b>53,186,537</b>  | <b>63,683,166</b>  | <b>-16.5%</b> | <b>47,859,178</b>  | <b>11.1%</b> | <b>592,914,658</b>   | <b>641,197,681</b>   | <b>-7.5%</b> |