



CME Group Exchange Volume Comparison Report - Monthly

| | Open Outcry MAY 2013 | Open Outcry MAY 2012 | % CHG | ELEC MAY 2013 | ELEC MAY 2012 | % CHG | Open Outcry Y.T.D 2013 | Open Outcry Y.T.D 2012 | % CHG | ELEC Y.T.D 2013 | ELEC Y.T.D 2012 | % CHG |
|------------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| Interest Rate Futures | | | | | | | | | | | | |
| 30-YR BOND | 260,268 | 289,914 | -10.2% | 12,880,551 | 10,838,727 | 0.19 | 596,190 | 563,289 | 5.8% | 46,747,767 | 38,129,345 | 22.6% |
| 10-YR NOTE | 963,482 | 520,192 | 85.2% | 41,200,611 | 31,076,971 | 0.33 | 2,311,258 | 1,340,061 | 72.5% | 143,499,857 | 118,989,112 | 20.6% |
| 5-YR NOTE | 731,898 | 622,125 | 17.6% | 22,036,035 | 13,396,934 | 0.64 | 1,899,830 | 1,240,668 | 53.1% | 72,107,812 | 55,376,498 | 30.2% |
| 2-YR NOTE | 327,696 | 197,878 | 65.6% | 7,992,272 | 6,284,673 | 0.27 | 1,052,462 | 453,029 | 132.3% | 24,328,288 | 22,745,893 | 7.0% |
| FED FUND | 24 | 2,781 | -99.1% | 440,241 | 552,822 | -0.2 | 586 | 9,621 | -93.9% | 1,868,291 | 3,047,675 | -38.7% |
| 10-YR SWAP | 0 | 1,000 | -100.0% | 11,383 | 11,378 | 0 | 79 | 3,143 | -97.5% | 62,738 | 67,765 | -7.4% |
| 5-YR SWAP | 0 | 0 | 0.0% | 8,690 | 15,645 | -0.44 | 97 | 2,958 | -96.7% | 37,147 | 114,184 | -67.5% |
| MINI EURODOLLAR | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| EUROYEN | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 10 | -100.0% |
| EURODOLLARS | 439,201 | 409,971 | 7.1% | 50,663,180 | 40,059,673 | 0.26 | 1,544,683 | 1,972,942 | -21.7% | 189,105,901 | 196,074,217 | -3.6% |
| 5-YR SWAP RATE | 0 | - | - | 28,605 | - | - | 224 | - | - | 116,402 | - | - |
| 2-YR SWAP RATE | 0 | - | - | 7,293 | - | - | 37 | - | - | 38,015 | - | - |
| 10-YR SWAP RATE | 0 | - | - | 49,236 | - | - | 984 | - | - | 142,837 | - | - |
| EMINI ED | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| 7-YR SWAP | 0 | 0 | 0.0% | 0 | 3 | -1 | 0 | 0 | 0.0% | 0 | 3,000 | -100.0% |
| 3-MONTH OIS | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| 30-YR SWAP | 0 | 0 | 0.0% | 60 | 94 | -0.36 | 0 | 93 | -100.0% | 156 | 1,111 | -86.0% |
| 1-MONTH EURODOLLAR | 0 | 0 | 0.0% | 246 | 13,145 | -0.98 | 0 | 20 | -100.0% | 7,600 | 56,698 | -86.6% |
| ULTRA T-BOND | 134,434 | 129,143 | 4.1% | 2,628,127 | 2,059,526 | 0.28 | 317,034 | 359,620 | -11.8% | 8,613,874 | 6,486,448 | 32.8% |
| OTR 10-YR NOTE | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 342 | -100.0% |
| OTR 5-YR NOTE | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 212 | -100.0% |
| OTR 2-YR NOTE | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 141 | -100.0% |
| SOVEREIGN YIELD FUTURE | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| EURO BONDS | 0 | 0 | 0.0% | 0 | 2,916 | -1 | 0 | 0 | 0.0% | 40 | 8,572 | -99.5% |
| 30-YR SWAP RATE | 0 | - | - | 22,224 | - | - | 0 | - | - | 28,688 | - | - |

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|------------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| Interest Rate Options | | | | | | | | | | | | |
| 30-YR BOND | 1,037,649 | 762,854 | 36.0% | 1,767,349 | 1,234,500 | 0.43 | 3,061,337 | 3,509,136 | -12.8% | 5,972,399 | 4,022,199 | 48.5% |
| 10-YR NOTE | 4,105,689 | 2,711,355 | 51.4% | 4,996,548 | 2,518,972 | 0.98 | 15,483,023 | 13,170,874 | 17.6% | 18,707,050 | 11,564,581 | 61.8% |
| 5-YR NOTE | 1,356,183 | 528,649 | 156.5% | 1,251,422 | 213,892 | 4.85 | 4,797,743 | 3,069,275 | 56.3% | 4,243,051 | 1,357,714 | 212.5% |
| 2-YR NOTE | 204,762 | 180,994 | 13.1% | 53,881 | 23,188 | 1.32 | 643,542 | 699,325 | -8.0% | 229,162 | 160,326 | 42.9% |
| FED FUND | 2,300 | 69,462 | -96.7% | 0 | 530 | -1 | 29,955 | 732,413 | -95.9% | 6 | 44,159 | -100.0% |
| FLEX 30-YR BOND | 0 | 800 | -100.0% | 0 | 0 | 0 | 0 | 12,335 | -100.0% | 0 | 0 | 0.0% |
| FLEX 10-YR NOTE | 200 | 1,150 | -82.6% | 0 | 0 | 0 | 400 | 1,150 | -65.2% | 0 | 0 | 0.0% |
| FLEX 2-YR NOTE | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| EURODOLLARS | 1,877,805 | 5,314,690 | -64.7% | 302,853 | 680,193 | -0.55 | 7,506,671 | 26,359,488 | -71.5% | 1,328,545 | 3,532,059 | -62.4% |
| EURO MIDCURVE | 8,816,121 | 6,706,934 | 31.4% | 1,174,082 | 903,583 | 0.3 | 28,438,470 | 38,903,252 | -26.9% | 4,173,275 | 3,396,986 | 22.9% |
| TOMMI MIDCURVE | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 3,600 | -100.0% | 0 | 0 | 0.0% |
| EURODOLLAR SPRD OPTIONS | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| ULTRA T-BOND | 3,609 | 8,386 | -57.0% | 8,525 | 4,831 | 0.76 | 13,605 | 30,009 | -54.7% | 25,655 | 15,604 | 64.4% |
| FED FUNDS MIDCURVE | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| Equity Index Futures | | | | | | | | | | | | |
| \$25 DJ | 0 | 0 | 0.0% | 0 | 3 | -1 | 0 | 0 | 0.0% | 22 | 20 | 10.0% |
| DJIA | 2,101 | 2,256 | -6.9% | 1,129 | 1,273 | -0.11 | 23,681 | 34,523 | -31.4% | 6,171 | 8,554 | -27.9% |
| MINI \$5 DOW | 0 | 0 | 0.0% | 3,212,088 | 3,488,489 | -0.08 | 0 | 0 | 0.0% | 14,343,330 | 12,397,518 | 15.7% |
| E-MINI S&P500 | 0 | 0 | 0.0% | 41,861,881 | 47,347,151 | -0.12 | 0 | 0 | 0.0% | 193,236,247 | 194,450,917 | -0.6% |
| S&P 500 | 145,170 | 176,969 | -18.0% | 30,443 | 41,679 | -0.27 | 1,113,929 | 1,264,581 | -11.9% | 149,298 | 189,081 | -21.0% |
| S&P 600 SMALLCAP EMINI | 0 | 0 | 0.0% | 9 | 35 | -0.74 | 0 | 0 | 0.0% | 177 | 1,243 | -85.8% |
| E-MINI MSCI EAFE FUT | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| E-MINI MSCI | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| SPDR-S&P 500 | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| TRAKRS BXY | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| TRAKRS PIMCO | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| TRAKRS PIMCO SPTR | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| E-MINI MIDCAP | 0 | 0 | 0.0% | 401,857 | 612,050 | -0.34 | 0 | 0 | 0.0% | 2,056,750 | 2,694,794 | -23.7% |
| S&P 400 MIDCAP | 71 | 58 | 22.4% | 0 | 0 | 0 | 927 | 994 | -6.7% | 0 | 0 | 0.0% |
| S&P 500 GROWTH | 0 | 0 | 0.0% | 13 | 8 | 0.63 | 0 | 0 | 0.0% | 154 | 127 | 21.3% |
| S&P 500/VALUE | 0 | 0 | 0.0% | 14 | 9 | 0.56 | 0 | 0 | 0.0% | 158 | 177 | -10.7% |
| IWM-RUSSELL | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |

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|-----------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| Equity Index Futures | | | | | | | | | | | | |
| E-MINI NASDAQ 100 | 0 | 0 | 0.0% | 4,547,310 | 6,422,301 | -0.29 | 0 | 0 | 0.0% | 23,449,732 | 25,989,307 | -9.8% |
| NASDAQ | 4,894 | 7,513 | -34.9% | 1,057 | 2,816 | -0.62 | 32,847 | 44,879 | -26.8% | 6,323 | 10,644 | -40.6% |
| QQQ-NASDAQ | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| NIKKEI 225 (\$) STOCK | 7 | 0 | 0.0% | 449,421 | 121,612 | 2.7 | 32 | 0 | 0.0% | 1,780,822 | 661,233 | 169.3% |
| NIKKEI 225 (YEN) STOCK | 0 | 0 | 0.0% | 1,304,339 | 541,846 | 1.41 | 0 | 0 | 0.0% | 4,876,986 | 2,439,340 | 99.9% |
| S&P FIN SECT INDEX | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| DJ US REAL ESTATE | 0 | 0 | 0.0% | 1,042 | 363 | 1.87 | 0 | 0 | 0.0% | 9,105 | 841 | 982.6% |
| DOW-UBS COMMOD INDEX | 0 | 0 | 0.0% | 3,682 | 4,720 | -0.22 | 0 | 0 | 0.0% | 105,078 | 39,947 | 163.0% |
| E-MINI NIFTY | 0 | 0 | 0.0% | 0 | 9 | -1 | 0 | 0 | 0.0% | 0 | 77 | -100.0% |
| E-MICRO NIFTY | 0 | 0 | 0.0% | 4 | 1,025 | -1 | 0 | 0 | 0.0% | 47 | 2,699 | -98.3% |
| S&P CONSUMER STAPLES SEI | 0 | 0 | 0.0% | 2,318 | 876 | 1.65 | 0 | 0 | 0.0% | 10,177 | 2,985 | 240.9% |
| S&P HEALTH CARE SECTOR | 0 | 0 | 0.0% | 5,666 | 716 | 6.91 | 0 | 0 | 0.0% | 20,323 | 3,543 | 473.6% |
| S&P TECHNOLOGY SECTOR | 0 | 0 | 0.0% | 1,313 | 885 | 0.48 | 0 | 0 | 0.0% | 6,574 | 3,290 | 99.8% |
| S&P INDUSTRIAL SECTOR | 0 | 0 | 0.0% | 2,086 | 660 | 2.16 | 0 | 0 | 0.0% | 8,822 | 5,340 | 65.2% |
| S&P CONSUMER DSCRTNRY S | 0 | 0 | 0.0% | 939 | 499 | 0.88 | 0 | 0 | 0.0% | 5,671 | 2,422 | 134.1% |
| S&P UTILITIES SECTOR | 0 | 0 | 0.0% | 4,386 | 720 | 5.09 | 0 | 0 | 0.0% | 13,412 | 4,757 | 181.9% |
| S&P FINANCIAL SECTOR | 0 | 0 | 0.0% | 4,008 | 1,487 | 1.7 | 0 | 0 | 0.0% | 17,883 | 4,181 | 327.7% |
| S&P ENERGY SECTOR | 0 | 0 | 0.0% | 9,182 | 980 | 8.37 | 0 | 0 | 0.0% | 34,148 | 6,775 | 404.0% |
| S&P MATERIALS SECTOR | 0 | 0 | 0.0% | 2,846 | 726 | 2.92 | 0 | 0 | 0.0% | 10,333 | 5,654 | 82.8% |
| BESPOKE CUSTOM INDEXES | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| IBOVESPA INDEX | 0 | - | - | 2,660 | - | | 0 | - | - | 14,376 | - | - |

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|-----------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| Equity Index Options | | | | | | | | | | | | |
| DJIA | 27 | 267 | -89.9% | 0 | 2 | -1 | 4,274 | 704 | 507.1% | 0 | 22 | -100.0% |
| MINI \$5 DOW | 0 | 0 | 0.0% | 22,537 | 11,909 | 0.89 | 0 | 0 | 0.0% | 76,773 | 29,524 | 160.0% |
| E-MINI S&P500 | 40,205 | 32,265 | 24.6% | 5,311,078 | 3,544,967 | 0.5 | 136,150 | 116,760 | 16.6% | 21,874,191 | 12,713,008 | 72.1% |
| S&P 500 | 936,371 | 779,810 | 20.1% | 0 | 64 | -1 | 3,444,327 | 3,073,259 | 12.1% | 307 | 495 | -38.0% |
| E-MINI MIDCAP | 0 | 0 | 0.0% | 34 | 66 | -0.48 | 0 | 0 | 0.0% | 329 | 349 | -5.7% |
| E-MINI NASDAQ 100 | 0 | 0 | 0.0% | 66,761 | 88,557 | -0.25 | 0 | 0 | 0.0% | 317,575 | 414,598 | -23.4% |
| NASDAQ | 37 | 21 | 76.2% | 0 | 0 | 0 | 222 | 87 | 155.2% | 0 | 0 | 0.0% |
| EOM S&P 500 | 99,324 | 73,877 | 34.4% | 0 | 0 | 0 | 404,657 | 337,674 | 19.8% | 0 | 0 | 0.0% |
| EOM EMINI S&P | 0 | 0 | 0.0% | 793,344 | 433,981 | 0.83 | 0 | 0 | 0.0% | 2,627,784 | 1,555,976 | 68.9% |
| EOW1 S&P 500 | 8,923 | 7,582 | 17.7% | 0 | 0 | 0 | 32,984 | 23,520 | 40.2% | 0 | 4 | -100.0% |
| EOW1 EMINI S&P 500 | 0 | 0 | 0.0% | 515,961 | 202,574 | 1.55 | 0 | 0 | 0.0% | 2,067,554 | 789,086 | 162.0% |
| EOW2 S&P 500 | 22,189 | 22,398 | -0.9% | 0 | 0 | 0 | 78,132 | 75,799 | 3.1% | 0 | 23 | -100.0% |
| EOW2 EMINI S&P 500 | 0 | 0 | 0.0% | 414,137 | 286,674 | 0.44 | 0 | 0 | 0.0% | 1,808,936 | 977,536 | 85.1% |
| EOW4 EMINI S&P 500 | 0 | 0 | 0.0% | 648,721 | 358,724 | 0.81 | 0 | 0 | 0.0% | 2,273,812 | 1,110,610 | 104.7% |

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| Metals Futures | | | | | | | | | | | | |
| COMEX GOLD | 81,566 | 83,991 | -2.9% | 4,920,646 | 4,605,106 | 0.07 | 314,701 | 354,015 | -11.1% | 20,624,316 | 18,773,264 | 9.9% |
| E-MINI SILVER | 0 | 0 | 0.0% | 1 | 0 | 0 | 0 | 0 | 0.0% | 3 | 5 | -40.0% |
| E-MINI GOLD | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| COMEX MINY GOLD | 0 | 0 | 0.0% | 10,534 | 11,083 | -0.05 | 0 | 0 | 0.0% | 47,087 | 57,099 | -17.5% |
| COMEX MINY COPPER | 0 | 0 | 0.0% | 2,149 | 2,421 | -0.11 | 0 | 0 | 0.0% | 8,729 | 10,710 | -18.5% |
| COMEX MINY SILVER | 0 | 0 | 0.0% | 1,285 | 2,700 | -0.52 | 0 | 0 | 0.0% | 9,920 | 12,582 | -21.2% |
| COMEX SILVER | 16,719 | 8,572 | 95.0% | 1,116,662 | 991,329 | 0.13 | 77,269 | 60,206 | 28.3% | 6,051,394 | 5,461,191 | 10.8% |
| COMEX COPPER | 28,413 | 29,079 | -2.3% | 1,610,339 | 1,447,251 | 0.11 | 177,134 | 215,218 | -17.7% | 7,602,483 | 6,912,398 | 10.0% |
| NYMEX HOT ROLLED STEEL | 0 | 0 | 0.0% | 75 | 341 | -0.78 | 0 | 0 | 0.0% | 1,914 | 2,378 | -19.5% |
| NYMEX PLATINUM | 60 | 137 | -56.2% | 225,211 | 166,759 | 0.35 | 155 | 863 | -82.0% | 1,284,979 | 814,898 | 57.7% |
| PALLADIUM | 60 | 172 | -65.1% | 161,290 | 121,043 | 0.33 | 780 | 924 | -15.6% | 623,898 | 418,643 | 49.0% |
| E-MICRO GOLD | 0 | 0 | 0.0% | 47,828 | 22,955 | 1.08 | 0 | 0 | 0.0% | 170,940 | 143,805 | 18.9% |
| VOLATILITY GOLD | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| NYMEX IRON ORE FUTURES | 0 | 0 | 0.0% | 301 | 0 | 0 | 0 | 0 | 0.0% | 301 | 0 | 0.0% |
| IRON ORE | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| AUSTRIALIAN COKE COAL | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| COPPER | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| FERROUS PRODUCTS | 0 | 0 | 0.0% | 45 | 0 | 0 | 0 | 0 | 0.0% | 199 | 0 | 0.0% |
| Metals Options | | | | | | | | | | | | |
| COMEX GOLD | 248,988 | 306,750 | -18.8% | 514,549 | 426,416 | 0.21 | 1,573,799 | 1,541,367 | 2.1% | 2,869,484 | 1,801,391 | 59.3% |
| COMEX SILVER | 60,112 | 56,590 | 6.2% | 107,469 | 83,578 | 0.29 | 221,034 | 255,197 | -13.4% | 569,532 | 345,104 | 65.0% |
| COMEX COPPER | 217 | 10 | 2,070.0% | 5,545 | 131 | 41.33 | 422 | 465 | -9.2% | 20,564 | 1,310 | 1,469.8% |
| NYMEX HOT ROLLED STEEL | 0 | - | - | 0 | - | | 0 | - | - | 0 | - | - |
| NYMEX PLATINUM | 202 | 0 | 0.0% | 0 | 0 | 0 | 342 | 0 | 0.0% | 105 | 0 | 0.0% |
| PALLADIUM | 0 | 0 | 0.0% | 0 | 0 | 0 | 820 | 0 | 0.0% | 0 | 0 | 0.0% |
| SHORT TERM GOLD | 0 | 0 | 0.0% | 0 | 0 | 0 | 70 | 25 | 180.0% | 0 | 1 | -100.0% |
| SHORT TERM | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 20 | -100.0% |
| IRON ORE CHINA | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| Energy Futures | | | | | | | | | | | | |

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| Energy Futures | | | | | | | | | | | | |
| ETHANOL FWD | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CHICAGO BASIS SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| HOUSTON SHIP CHANNEL BAS | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NORTHWEST ROCKIES BASIS | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| HEATING OIL VS ICE GASOIL | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| FUEL OIL CRACK VS ICE | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| FUEL OIL NWE CRACK VS ICE | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NGPL MIDCONTINENT INDEX | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NGPL TEXOK INDEX | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| VENTURA INDEX FUTURE | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| CENTERPOINT BASIS SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| DAWN BASIS SWAP FUTURE | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| NATURAL GAS | 45 | 639 | -93.0% | 114 | 0 | 0 | 393 | 2,028 | -80.6% | 120 | 0 | 0.0% |
| HTG OIL | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| LTD NAT GAS | 37 | 0 | 0.0% | 15,797 | 0 | 0 | 368 | 700 | -47.4% | 93,801 | 0 | 0.0% |
| GASOIL MINI CALENDAR SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GASOIL 0.1 ROTTERDAM BARC | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SOCAL PIPE SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| BRENT OIL LAST DAY | 0 | 547 | -100.0% | 666,721 | 126,893 | 4.25 | 0 | 915 | -100.0% | 2,346,202 | 313,812 | 647.6% |
| BRENT CALENDAR SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GASOIL 0.1 CARGOES CIF NE | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GASOIL 0.1 RDAM BRGS VS I | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GASOIL 0.1 CIF NWE VS ISE | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NY HARBOR 0.3% FUEL OIL S | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| NY H OIL PLATTS VS NYMEX | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MARS (ARGUS) VS WTI SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MARS (ARGUS) VS WTI TRD M | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| WTS (ARGUS) VS WTI TRD MT | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SINGAPORE 180CST BALMO | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SINGAPORE 380CST BALMO | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SINGAPORE JET KERO BALMC | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SINGAPORE NAPHTHA BALMO | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| DUBAI CRUDE OIL BALMO | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| EURO 3.5% FUEL OIL RDAM B | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| EURO 1% FUEL OIL NEW BALM | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |

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CME Group Exchange Volume Comparison Report - Monthly

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|---------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| Energy Futures | | | | | | | | | | | | |
| NY HARBOR 1% FUEL OIL BAL | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GULF COAST 3% FUEL OIL BA | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PREMIUM UNLD 10P FOB MED | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GASOIL 10P CRG CIF NW VS | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GASOIL 0.1 CRG CIF NW VS | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| BRENT CFD SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| JET FUEL CRG CIF NEW VS I | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| 3.5% FUEL OIL CID MED SWA | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ARGUS PROPAN FAR EST INDI | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ULSD 10PPM CIF VS ICE GAS | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NEW YORK 0.3% FUEL OIL HI | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GASOIL 0.1 CIF VS ICE GAS | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| JET FUEL BRG FOB RDM VS I | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM NILL DA OFF-PEAK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM AECO DA OFF-PEAK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM DAYTON DA PEAK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM BGE DA PEAK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM BGE DA OFF-PEAK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM DPL DA PEAK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM DPL DA OFF-PEAK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM EASTERNH DA PEAK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM EASTERNH DA OFF-PEAK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM JCPL DA PEAK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM JCPL DA OFF-PEAK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM PEPCO DA PEAK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM PEPCO DA OFF-PEAK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM PPL DA PEAK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM PPL DA OFF-PEAK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM PSEG DA PEAK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM PSEG DA OFF-PEAK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM WESTHDA PEAK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM WESTH DA OFF-PEAK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM WESTH RT PEAK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM WESTH RT OFF-PEAK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ALGONQUIN CITYGATES BASI | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |

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|---------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| Energy Futures | | | | | | | | | | | | |
| TCO NG INDEX SWAP | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| TETCO STX NG INDEX SWAP | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| TENNESSEE ZONE 0 NG INDE | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| TRANSCO ZONE 3 NG INDEX S | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| TENNESSEE 500 LEG NG INDE | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MICHCON NG INDEX SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CIG ROCKIES NG INDEX SWA | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| TCO NG SWING | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| TENNESSEE ZONE 0 NG SWIN | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| MICHCON NG SWING | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| CIG ROCKIES NG SWING | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| GASOIL 0.1 CIF MED SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GASOIL 0.1CIF MED VS ICE | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ULSD 10PPM CIF MED SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ULSD 10PPM CIF MED VS ICE | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| BRENT BALMO SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ICE GASOIL BALMO SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| JET FUEL CARGOES CIF NEW | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| GASOIL 0.1 CIF NW BALMO S | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| ULSD 10PPM CIF NW BALMO S | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| ULSD 10PPM CIF MED BALMO | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| POLYETHYLENE FUTURES | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PERMIAN BASIS SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| Tetco ELA Basis | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PANHANDLE INDEX SWAP FUT | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PANHANDLE SWING FUTURE | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GULF COAST JET FUEL CLNDF | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| EUROPE 1% FUEL OIL NWE C/ | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SINGAPORE FUEL 180CST CAL | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NYISO G | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GULF COAST NO.6 FUEL OIL | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NEW YORK HUB ZONE G PEAK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NORTHERN ILLINOIS OFF-PEA | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| AEP-DAYTON HUB DAILY | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SINGAPORE FUEL OIL SPREAD | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |

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|---------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| Energy Futures | | | | | | | | | | | | |
| SINGAPORE JET KERO GASOIL | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| TRUNKLINE LA BASIS SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| TETCO M-3 INDEX | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| DOMINION TRAN INC - APP I | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CINERGY HUB PEAK MONTH | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| HEATING OIL PHY | 1,826 | 1,861 | -1.9% | 2,586,762 | 2,658,132 | -0.03 | 7,062 | 8,902 | -20.7% | 13,314,998 | 13,459,710 | -1.1% |
| GASOIL 10PPM CARGOES CIF | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GASOIL 10PPM VS ICE SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NY1% VS GC SPREAD SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SINGAPORE GASOIL BALMO | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| EUROPEAN NAPHTHA BALMO | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PREMIUM UNLD 10PPM CARGO | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GASOIL 0.1 BRGS FOB VS IC | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| DIESEL 10P BRG FOB RDM VS | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ARGUS PROPAN(SAUDI ARAM | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM AECO DA PEAK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| N ILLINOIS HUB MTHLY | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MINY HTG OIL | 0 | 0 | 0.0% | 6 | 11 | -0.45 | 0 | 0 | 0.0% | 50 | 114 | -56.1% |
| WAHA BASIS | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MINY NATURAL GAS | 12 | 0 | 0.0% | 30,320 | 33,039 | -0.08 | 69 | 0 | 0.0% | 156,277 | 176,517 | -11.5% |
| SINGAPORE GASOIL SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| UP DOWN GC ULSD VS NMX H | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 5 | 0 | 0.0% |
| PJM NILL DA PEAK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM DAYTON DA OFF-PEAK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| LA JET (OPIS) SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ULSD UP-DOWN BALMO SWP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| JET FUEL UP-DOWN BALMO CI | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NGPL STX BASIS | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| EIA FLAT TAX ONHWAY DIESE | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ARGUS LLS VS. WTI (ARG) T | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| JAPAN NAPHTHA BALMO SWA | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NY 3.0% FUEL OIL (PLATTS | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NY 2.2% FUEL OIL (PLATTS | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NY 0.7% FUEL OIL (PLATTS | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ARGUS BIODIESEL RME FOB F | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |

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|---------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| Energy Futures | | | | | | | | | | | | |
| BRENT CFD(PLATTS) VS FRNT | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| RBOB GASOLINE BALMO CLNE | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GASOLINE UP-DOWN BALMO 5 | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| TRANSCO ZONE 4 NAT GAS IN | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| TEXAS EAST WLA NAT GAS IN | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ONEOK OKLAHOMA NAT GAS I | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| TEXAS GAS ZONE SL NAT GAS | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| COLUMBIA GULF MAIN NAT G | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| TRANSCO ZONE 2 NAT GAS IN | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| SOUTHERN NAT LA NAT GAS | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| TEXAS GAS ZONE 1 NAT GAS | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NGPL STX NAT GAS INDEX SW | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| FL GAS ZONE 3 NAT GAS IND | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| COLUMB GULF MAINLINE NG E | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| TENNESSEE 800 LEG NG BASI | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| TEXAS EAST W LOUISANA NG | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| TRANSCO ZONE 1 NG BASIS | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| TRANSCO ZONE 2 NG BASIS | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| ONEOK OKLAHOMA NG BASIS | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SOUTH STAR TEX OKLHM KNS | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| TEXAS GAS ZONE1 NG BASIS | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NYISO ZONE C 5MW D AH O P | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM NI HUB 5MW REAL TIME | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NYISO ZONE G 5MW D AH O P | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NYISO ZONE J 5MW D AH PK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NYISO ZONE J 5MW D AH O P | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM COMED 5MW D AH PK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM COMED 5MW D AH O PK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NEPOOL INTR HUB 5MW D AH | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CIN HUB 5MW REAL TIME PK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CIN HUB 5MW D AH PK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NYISO ZONE A 5MW D AH PK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NYISO ZONE A 5MW D AH O P | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NEPOOL W CNT MASS 5MW D | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NEPOOL CONECTIC 5MW D AH | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |

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CME Group Exchange Volume Comparison Report - Monthly

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|---------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| Energy Futures | | | | | | | | | | | | |
| NEPOOL CNCTCT 5MW D AH C | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NEPOOL SE MASS 5MW D AH I | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NEPOOL SE MASS 5MW D AH C | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NEPOOL NE MASS 5MW D AH I | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NEPOOL NE MASS 5MW D AH C | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NEPOOL MAINE 5MW D AH PK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NYISO ZONE C 5MW D AH PK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NEPOOL W CNTR M 5MW D AH | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NYISO ZONE G 5MW D AH PK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM AD HUB 5MW REAL TIME | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NEPOOL MAINE 5MW D AH O E | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CIN HUB 5MW D AH O PK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CIN HUB 5MW REAL TIME O P | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| RBOB PHY | 1,022 | 3,428 | -70.2% | 2,835,273 | 2,905,878 | -0.02 | 7,196 | 16,211 | -55.6% | 14,408,612 | 14,633,314 | -1.5% |
| SING FUEL | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ULSD UP-DOWN(ARGUS) SWA | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| LLS (ARGUS) CALENDAR SWA | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| RBOB VS HEATING OIL SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MALIN | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| NORTHEN NATURAL GAS DEM | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| HOUSTON SHIP CHANNEL IND | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| EUROPE JET KERO NWE CALS | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MINY WTI CRUDE OIL | 0 | 0 | 0.0% | 165,182 | 179,588 | -0.08 | 0 | 0 | 0.0% | 672,731 | 840,928 | -20.0% |
| NEW ENGLAND HUB PEAK DAI | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ROCKIES KERN OPAL - NW IN | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NATURAL GAS PHY | 4,999 | 9,428 | -47.0% | 6,515,376 | 8,347,725 | -0.22 | 27,018 | 62,100 | -56.5% | 37,168,042 | 39,036,582 | -4.8% |
| APPALACHIAN COAL (PHY) | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| WTI CALENDAR | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| HENRY HUB BASIS SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| DEMARC INDEX FUTURE | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| WTS (ARGUS) VS WTI SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PREMIUM UNLEAD 10PPM FOE | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CHICAGO UNL GAS PL VS RBC | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CRUDE OIL PHY | 64,750 | 93,577 | -30.8% | 13,103,156 | 11,637,133 | 0.13 | 279,797 | 429,567 | -34.9% | 57,490,902 | 59,629,217 | -3.6% |
| RBOB CALENDAR SWAP | 10 | 3 | 233.3% | 0 | 0 | 0 | 134 | 7 | 1,814.3% | 0 | 0 | 0.0% |

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|---------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| Energy Futures | | | | | | | | | | | | |
| ISO NEW ENGLAND PK LMP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NY HRBR CONV GASOLINE VS | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| URANIUM | 0 | 0 | 0.0% | 32 | 6 | 4.33 | 0 | 0 | 0.0% | 195 | 53 | 267.9% |
| NY HARBOR ULSD DIESEL | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| LA CARB DIESEL (OPIS) | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CHICAGO ETHANOL SWAP | 0 | 0 | 0.0% | 843 | 0 | 0 | 0 | 0 | 0.0% | 1,959 | 0 | 0.0% |
| NEW YORK ETHANOL SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GASOIL BULLET SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| EURO PROPANE CIF ARA SW/ | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| JAPAN C&F NAPHTHA SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NYMEX ULSD VS NYMEX HO | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GASOLINE UP-DOWN (ARGUS) | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| JET UP-DOWN(ARGUS) SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| LA CARBOB GASOLINE(OPIS)S | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| LA CARB DIESEL (OPIS) SWA | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| JAPAN C&F NAPHTHA CRACK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| LLS (ARGUS) VS WTI SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MINY RBOB GAS | 0 | 0 | 0.0% | 4 | 2 | 1 | 0 | 0 | 0.0% | 24 | 16 | 50.0% |
| RBOB GAS | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| RBOB CRACK SPREAD | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| RBOB UP-DOWN CALENDAR S | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NY HARBOR RESIDUAL FUEL 1 | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NY HARBOR HEAT OIL SWP | 30 | 0 | 0.0% | 0 | 0 | 0 | 248 | 303 | -18.2% | 0 | 0 | 0.0% |
| LA JET FUEL VS NYM NO 2 H | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ANR OKLAHOMA | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MICHIGAN BASIS | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| Sumas Basis Swap | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NGPL MID-CONTINENT | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| TEXAS EASTERN ZONE M-3 B/ | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PGE&E CITYGATE | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM MONTHLY | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NORTHEN NATURAL GAS VEN | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| DOMINION TRANSMISSION INC | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| TCO BASIS SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CIG BASIS | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |

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|---------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| Energy Futures | | | | | | | | | | | | |
| PJM DAILY | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| COLUMBIA GULF ONSHORE | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| Tetco STX Basis | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| Transco Zone 3 Basis | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| HENRY HUB SWING FUTURE | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| DOW JONES MID-COLUMBIA F | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| EL PASO PERMIAN INDEX SWA | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| HENRY HUB INDEX SWAP FUT | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| WAHA INDEX SWAP FUTURE | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| HOUSTON SHIP CHANNEL SWA | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| CHICAGO SWING FUTURE | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GULF COAST GASOLINE CLND | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GULF COAST HEATING OIL CL | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| EUROPE NAPHTHA CALSWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| EUROPE JET KERO RDAM CAL | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| EUROPE 1% FUEL OIL RDAM C | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| EUROPE 3.5% FUEL OIL RDAM | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| EUROPE 3.5% FUEL OIL MED | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PANHANDLE BASIS SWAP FUT | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SAN JUAN BASIS SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SOCAL BASIS SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| TRANSCO ZONE 6 BASIS SWA | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NYISO A | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NYISO J | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GULF COAST JET VS NYM 2 H | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| LOS ANGELES CARB GASOLIN | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NY HARBOR RESIDUAL FUEL C | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MICHIGAN HUB PEAK MONTH | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MICHIGAN HUB OFF-PEAK MO | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ILLINOIS HUB PEAK MONTH S | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ILLINOIS OFF-PEAK MONTH S | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| EURO 3.5% FUEL OIL SPREAD | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GASOIL CALENDAR SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| EURO GASOIL 10 CAL SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| DEMARC SWING SWAP | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |

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|---------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| Energy Futures | | | | | | | | | | | | |
| CENTERPOINT EAST INDEX | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CRUDE OIL | 150 | 200 | -25.0% | 0 | 0 | 0 | 150 | 200 | -25.0% | 0 | 6 | -100.0% |
| BRENT FINANCIAL FUTURES | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| WTI-BRENT BULLET SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| WTI-BRENT CALENDAR SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| DATED TO FRONTLINE BRENT | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ICE BRENT DUBAI SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GASOIL CRACK SPREAD CALE | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| EUROPEAN NAPHTHA CRACK S | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| EURO GASOIL 10PPM VS ICE | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| JET CIF NWE VS ICE | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| JET BARGES VS ICE GASOIL | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SINGAPORE GASOIL VS ICE | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NATURAL GAS PEN SWP | 4,238 | 16,122 | -73.7% | 0 | 0 | 0 | 28,445 | 141,077 | -79.8% | 0 | 0 | 0.0% |
| WESTERN RAIL DELIVERY PRF | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| EASTERN RAIL DELIVERY CSX | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| EUROPE DATED BRENT SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| TC5 RAS TANURA TO YOKOHA | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| TC4 SINGAPORE TO JAPAN 30 | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| TD5 WEST AFRICA TO USAC 1 | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| TD3 MEG TO JAPAN 250K MT | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| TC2 ROTTERDAM TO USAC 37 | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM OFF-PEAK LMP SWAP FU | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NYISO A OFF-PEAK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NYISO G OFF-PEAK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NYISO J OFF-PEAK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ISO NEW ENGLAND OFF-PEAK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| AEP-DAYTON HUB OFF-PEAK I | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| N ILLINOIS HUB DAILY | 0 | - | - | 0 | - | 0 | 0 | - | - | 0 | - | - |
| AEP-DAYTON HUB MTHLY | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| FUELOIL SWAP:CARGOES VS.I | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| EAST/WEST FUEL OIL SPREAC | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SINGAPORE 380CST FUEL OIL | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SINGAPORE JET KEROSENE S | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SINGAPORE NAPHTHA SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |

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CME Group Exchange Volume Comparison Report - Monthly

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|------------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| Energy Futures | | | | | | | | | | | | |
| SONAT BASIS SWAP FUTURE | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| FLORIDA GAS ZONE3 BASIS S | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| TRANSCO ZONE4 BASIS SWAF | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ANR LOUISIANA BASIS SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| TENNESSEE 500 LEG BASIS S | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| TENNESSEE ZONE 0 BASIS SV | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| TEXAS GAS ZONE SL BASIS S | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| TRANSCO ZONE 6 INDEX | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| TRANSCO ZONE 6 SWING SW/ | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| TEXAS EASTERN ZONE M-3 SV | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| SAN JUAN INDEX | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| CINERGY HUB OFF-PEAK MON | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GULF COAST ULSD CALENDAR | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GULF COAST ULSD CRACK SP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| HENRY HUB SWAP | 1,184 | 9,208 | -87.1% | 61,458 | 2,202 | 26.91 | 26,027 | 43,876 | -40.7% | 469,058 | 14,804 | 3,068.5% |
| DUBAI CRUDE OIL CALENDAR | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| USGC UNL 87 CRACK SPREAD | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NYH NO 2 CRACK SPREAD CAI | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NO 2 UP-DOWN SPREAD CALE | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SINGAPORE MOGAS 92 UNLE/ | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ETHANOL T1FOB RTDM EX DU | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| ETHANOL T2 FOB ROTT INCL I | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SINGAPORE MOGAS 92 UNLE/ | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| FAME 0 BIODIESEL FOB RTDM | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PROPANE NON-LDH MT. BEL (I | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PROPANE NON-LDH MB (OPIS) | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NY JET FUEL (PLATTS) HEAT C | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| JET AV FUEL (P) CAR FM ICE C | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| FUEL OIL (PLATS) CAR CM | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| FUEL OIL (PLATS) CAR CN | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NY JET FUEL (ARGUS) VS HEA | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NY ULSD (ARGUS) VS HEATING | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GULF CO HEAT OIL (ARGUS) V | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| MISO 5MW PEAK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MISO 5MW OFF PEAK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |

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CME Group Exchange Volume Comparison Report - Monthly

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|----------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| Energy Futures | | | | | | | | | | | | |
| ERCOT SOUTH MCP E 50MW F | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| ERCOT NORTH MCP E 50MW OF | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| ERCOT HOU MCP E 50MW PEAK | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| ERCOT NORTH MCP E 50MW PE | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| ERCOT HOU MCP E 50MW OFF | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| MONT BELVIEU ETHYLENE | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| PJM PECO ZONE 5MW PEAK C/ | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| IN DELIVERY MONTH CER | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| IN DELIVERY MONTH EUA | 0 | 0 | 0.0% | 7,160 | 0 | 0 | 0 | 0 | 0.0% | 11,769 | 0 | 0.0% |
| OPIS PHYSICAL LDH PROPANE | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| OPIS PHYSICAL NONLDH PROI | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| OPIS PHYSICAL NORMAL BUT/ | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| OPIS PHYSICAL NATURAL GAS | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| OPIS PHYSICAL ETHANE | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| DATED BRENT (PLATTS) DAILY | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PETRO OUTRIGHT EURO | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GAS EURO-BOB OXY NWE BAF | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GAS EURO-BOB OXY NWE BAF | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PREM UNL GAS 10PPM RDAM | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PREM UNL GAS 10PPM RDAM | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MONT BELVIEU NORMAL BUT/ | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MONT BELVIEU ETHANE 5 DEC | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MONT BELVIEU LDH PROPANE | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| EUROPEAN GASOIL (ICE) | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ERCOT NORTH ZMCP E 5MW O | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ERCOT NORTH ZMCP E 5MW P | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ERCOT HOUSTON Z MCP E 5M | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| DIESEL 10PPM NWE LE HAVRE | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| SINGAPORE JET KERO VS. GA | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MONT BELVIEU NORMAL BUT/ | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MONT BELVIEU ETHANE OPIS | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MONT BELVIEU NATURAL GAS | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MONT BELVIEU LDH PROPANE | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CONWAY NORMAL BUTANE (O | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CONWAY NATURAL GASOLINE | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |

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|---------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| Energy Futures | | | | | | | | | | | | |
| CONWAY PROPANE 5 DECIMA | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PETROCHEMICALS | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MONT BELVIEU NATURAL GAS | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CRUDE OIL LAST DAY | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| ELEC NYISO OFF-PEAK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ELEC MISO PEAK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NYMEX ALUMINUM FUTURES | 0 | - | - | 0 | - | | 0 | - | - | 0 | - | - |
| RBOB CRACK SPREAD BALMO | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CARBON EUA EMISSIONS EUR | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CARBON CER EURO | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CINERGY HUB PEAK DAILY FU | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| DIESEL 10PPM BARGES FOB E | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| RBOB (PLATTS) CAL SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM DUQUESNE 5MW D AH PK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM DUQUS 5MW D AH O PK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PETRO CRK&SPRD EURO | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GRP THREE ULSD(PLT)VS HE/ | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| HEATING OIL CRCK SPRD BAL | 0 | - | - | 0 | - | | 0 | - | - | 0 | - | - |
| CHICAGO ULSD PL VS HO SPR | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GRP THREE UNL GS (PLT) VS | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| LL JET (OPIS) SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GC JET (ARGUS) CAL SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CO2 VINTAGE | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| CRUDE OIL OUTRIGHTS | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GC ULSD ARGUS CAL SWAP | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| PJM WES HUB PEAK LMP 50 M | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| FREIGHT MARKETS | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NEPOOL NEW HAMP 5MW D AI | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ELEC ERCOT OFF PEAK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ELECTRICITY OFF PEAK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| HEATING OIL BALMO CLNDR S | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CRUDE OIL SPRDS | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM APS ZONE DA PEAK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ANR LA NAT GAS INDEX SWAF | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ELEC FINSETTLED | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |

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|---------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| Energy Futures | | | | | | | | | | | | |
| PJM APS ZONE DA OFF-PEAK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PLASTICS | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PETRO OUTRIGHT NA | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MNC FUT | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MCCLOSKEY ARA ARGS COAL | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MCCLOSKEY RCH BAY COAL | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ELEC ERCOT DLY PEAK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GC ULSD VS GC JET SPREAD | 0 | - | - | 0 | - | | 0 | - | - | 0 | - | - |
| GULF CST GASOL CRCK SPRD | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| PETRO CRCKS & SPRDS NA | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ALGONQUIN CITY-GATES NAT | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| ALGON CITY GATES NAT GAS | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NYMEX OMAN CRUDE PRODU | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MJC FUT | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NGPL TEX/OK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| RBOB SPREAD (PLATTS) SWAI | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NEPOOL RHD ISLD 5MW D AH | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ALBERTA ELECTRICITY | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| DAILY EUA | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SINGAPORE GASOIL | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NEPOOL RHODE IL 5MW D AH | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| TENN 800 LEG NAT GAS INDE | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ONTARIO POWER SWAPS | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| HEATING OIL LAST DAY | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PREMIUM UNLEAD 10PPM C N | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PETROLEUM PRODUCTS ASIA | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| POLYPROPYLENE FUTURES | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| INDONESIAN COAL | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| DAILY PJM | 0 | - | - | 0 | - | | 0 | - | - | 0 | - | - |
| INDIANA MISO | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PETRO CRCKS & SPRDS ASIA | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| COAL SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NYISO CAPACITY | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| BRENT OIL | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |

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CME Group Exchange Volume Comparison Report - Monthly

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|---------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| Energy Futures | | | | | | | | | | | | |
| PJM ATSI ELEC | 0 | - | - | 0 | - | | 0 | - | - | 0 | - | - |
| MICHIGAN MISO | 0 | - | - | 0 | - | | 0 | - | - | 0 | - | - |
| EURO-DENOMINATED PETRO | 0 | - | - | 0 | - | | 0 | - | - | 0 | - | - |
| MGF FUT | 0 | - | - | 0 | - | | 0 | - | - | 0 | - | - |
| MGN1 SWAP FUT | 0 | - | - | 0 | - | | 0 | - | - | 0 | - | - |
| TRANSCO ZONE 1 NAT GAS IN | 0 | - | - | 0 | - | | 0 | - | - | 0 | - | - |
| NATURAL GAS INDEX | 0 | - | - | 0 | - | | 0 | - | - | 0 | - | - |
| GROUP THREE ULSD (PLATTS) | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PETROLEUM PRODUCTS | 0 | - | - | 0 | - | | 0 | - | - | 0 | - | - |
| NCN FUT | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| DLY GAS EURO-BOB OXY | 0 | - | - | 0 | - | | 0 | - | - | 0 | - | - |
| CHICAGO ULSD (PLATTS) SWA | 0 | - | - | 0 | - | | 0 | - | - | 0 | - | - |
| EMMISSIONS | 0 | - | - | 0 | - | | 0 | - | - | 10 | - | - |
| NEW YORK HUB ZONE J PEAK | 0 | - | - | 0 | - | | 0 | - | - | 0 | - | - |
| UCM FUT | 0 | - | - | 0 | - | | 0 | - | - | 0 | - | - |
| | 0 | - | - | 0 | - | | 0 | - | - | 0 | - | - |
| Energy Options | | | | | | | | | | | | |
| ETHANOL FWD | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PGE CITYGATE PIPE SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| N ROCKIES PIPE SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| HUSTN SHIP CHNL PIPE SWP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SAN JUAN PIPE SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SOCAL PIPE SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PANHANDLE PIPE SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| BRENT OIL LAST DAY | 10 | 2,575 | -99.6% | 11 | 0 | 0 | 328 | 6,395 | -94.9% | 11 | 44 | -75.0% |
| BRENT CALENDAR SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 24 | 0 | 0.0% | 0 | 0 | 0.0% |
| SINGAPORE JET FUEL CALENI | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ROTTERDAM 3.5%FUEL OIL CL | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SINGAPORE FUEL OIL 180 CS | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CINERGY HUB PEAK MONTH | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NATURAL GAS 1MO | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| HEATING OIL PHY | 5,778 | 9,863 | -41.4% | 3,554 | 2,960 | 0.2 | 35,501 | 40,911 | -13.2% | 15,695 | 12,152 | 29.2% |
| CENTRAL APPALACHIAN COAL | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |

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CME Group Exchange Volume Comparison Report - Monthly

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|---------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| Energy Options | | | | | | | | | | | | |
| N ILLINOIS HUB MTHLY | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| HENRY HUB FINANCIAL LAST | 266 | 0 | 0.0% | 0 | 0 | 0 | 883 | 0 | 0.0% | 0 | 0 | 0.0% |
| RBOB PHY | 9,620 | 16,337 | -41.1% | 3,844 | 3,537 | 0.09 | 54,773 | 65,739 | -16.7% | 25,437 | 13,908 | 82.9% |
| NATURAL GAS PHY | 126,708 | 235,676 | -46.2% | 257,942 | 174,156 | 0.48 | 595,204 | 1,366,255 | -56.4% | 1,391,962 | 886,278 | 57.1% |
| CRUDE OIL APO | 136 | 415 | -67.2% | 0 | 0 | 0 | 598 | 724 | -17.4% | 258 | 0 | 0.0% |
| NATURAL GAS 3 M CSO FIN | 0 | 0 | 0.0% | 0 | 0 | 0 | 200 | 5 | 3,900.0% | 0 | 0 | 0.0% |
| NATURAL GAS 1 M CSO FIN | 0 | 0 | 0.0% | 0 | 0 | 0 | 1,600 | 0 | 0.0% | 0 | 0 | 0.0% |
| WTI CRUDE OIL 1 M CSO FI | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 300 | -100.0% | 0 | 0 | 0.0% |
| CRUDE OIL PHY | 624,085 | 1,160,040 | -46.2% | 1,407,536 | 1,173,341 | 0.2 | 2,809,889 | 4,450,711 | -36.9% | 6,003,195 | 4,211,996 | 42.5% |
| RBOB CALENDAR SWAP | 52 | 32 | 62.5% | 0 | 0 | 0 | 1,271 | 700 | 81.6% | 0 | 0 | 0.0% |
| RBOB CRACK | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| RBOB 1MO CAL SPD OPTIONS | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ISO NEW ENGLAND PK LMP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NY HARBOR HEAT OIL SWP | 364 | 293 | 24.2% | 0 | 0 | 0 | 2,375 | 2,502 | -5.1% | 0 | 0 | 0.0% |
| PJM MONTHLY | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| WTI-BRENT BULLET SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 128 | 0 | 0.0% | 0 | 0 | 0.0% |
| HEATING OIL CRACK OPTIONS | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 30 | -100.0% | 0 | 0 | 0.0% |
| HO 1 MONTH CLNDR OPTIONS | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| AEP-DAYTON HUB MTHLY | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NG HH 3 MONTH CAL | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| CRUDE OIL 1MO | 1,700 | 16,600 | -89.8% | 0 | 0 | 0 | 12,129 | 35,995 | -66.3% | 0 | 0 | 0.0% |
| WTI 6 MONTH CALENDAR OPT | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| WTI 12 MONTH CALENDAR OP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 1,900 | -100.0% | 0 | 0 | 0.0% |
| NYMEX EUROPEAN GASOIL AF | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NYMEX EUROPEAN GASOIL OI | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| IN DELIVERY MONTH EUA OPT | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PETRO OUTRIGHT EURO | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NW PIPELINE ROCKIES BASIS | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| PANHANDLE BASIS | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NYISO ZONE G 5MW PEAK OP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PETROCHEMICALS | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NATURAL GAS SUMMER STRIF | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NATURAL GAS OPTION ON CA | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ELEC MISO PEAK | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| EUROPEAN JET KEROSENE N | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |

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|----------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| Energy Options | | | | | | | | | | | | |
| IN DELIVERY MONTH CER OPT | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SOCAL BASIS OPTION | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| NATURAL GAS OPT | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM CALENDAR STRIP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CRUDE OIL OUTRIGHTS | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| APPALACHIAN COAL | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| HEATING OIL CRK SPD AVG PF | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CRUDE OIL SPRDS | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| ELEC FINSETTLED | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| BRENT 1 MONTH CAL | 0 | - | - | 0 | - | - | 66 | - | - | 0 | - | - |
| BRENT CRUDE OIL 1 M CSO | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| CRUDE OIL CALNDR STRIP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NATURAL GAS 5 M CSO FIN | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NATURAL GAS WINTER STRIP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NAT GAS BASIS SWAP | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| PETRO OUTRIGHT NA | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MCCLOSKEY ARA ARGS COAL | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MCCLOSKEY RCH BAY COAL | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| TRANSCO ZONE 6 PIPE SWAP | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| NATURAL GAS 2 M CSO FIN | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NATURAL GAS 6 M CSO FIN | 0 | 0 | 0.0% | 0 | 0 | 0 | 58 | 0 | 0.0% | 0 | 0 | 0.0% |
| GASOIL CRACK SPREAD AVG I | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SINGAPORE GASOIL CALEND/ | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ETHANOL SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SHORT TERM NATURAL GAS | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SHORT TERM | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 51 | -100.0% |
| RBOB 3 MONTH CALENDAR SF | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| HO 6 MONTH CAL | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| RBOB CRACK SPREAD AVG PF | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NATURAL GAS 12 M CSO FIN | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| DAILY PJM | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SHORT TERM CRUDE OIL | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 181 | -100.0% |
| COAL SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| DAILY CRUDE OIL | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| COAL API2 INDEX | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |

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|--------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| Energy Options | | | | | | | | | | | | |
| EURO-DENOMINATED PETRO | 0 | - | - | 0 | - | | 0 | - | - | 0 | - | - |
| RBOB 6 MONTH CALENDAR SF | 0 | - | - | 0 | - | | 0 | - | - | 0 | - | - |
| COAL API4 INDEX | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| WTI CRUDE OIL 6 M CSO FI | 0 | - | - | 0 | - | | 0 | - | - | 0 | - | - |
| FX Futures | | | | | | | | | | | | |
| AUSTRALIAN DOLLAR | 6,208 | 1,214 | 411.4% | 2,994,480 | 3,273,119 | -0.09 | 17,444 | 13,163 | 32.5% | 10,833,985 | 13,305,646 | -18.6% |
| BRITISH POUND | 426 | 484 | -12.0% | 2,634,658 | 2,444,735 | 0.08 | 7,990 | 4,818 | 65.8% | 12,585,055 | 10,325,789 | 21.9% |
| BRAZIL REAL | 0 | 140 | -100.0% | 17,256 | 2,491 | 5.93 | 990 | 178 | 456.2% | 46,110 | 12,387 | 272.2% |
| CANADIAN DOLLAR | 2,365 | 2,333 | 1.4% | 1,726,373 | 2,219,076 | -0.22 | 9,697 | 8,782 | 10.4% | 7,706,887 | 9,203,486 | -16.3% |
| E-MINI EURO FX | 0 | 0 | 0.0% | 85,686 | 71,903 | 0.19 | 0 | 0 | 0.0% | 479,127 | 427,135 | 12.2% |
| EURO FX | 5,947 | 6,155 | -3.4% | 5,950,308 | 6,393,428 | -0.07 | 48,775 | 40,405 | 20.7% | 29,257,999 | 28,511,910 | 2.6% |
| E-MINI JAPANESE YEN | 0 | 0 | 0.0% | 37,382 | 8,210 | 3.55 | 0 | 0 | 0.0% | 168,870 | 47,302 | 257.0% |
| JAPANESE YEN | 4,365 | 919 | 375.0% | 4,388,079 | 1,770,562 | 1.48 | 24,107 | 6,986 | 245.1% | 20,349,659 | 8,942,088 | 127.6% |
| MEXICAN PESO | 11,696 | 92,553 | -87.4% | 982,989 | 1,129,246 | -0.13 | 31,763 | 223,603 | -85.8% | 4,119,532 | 4,179,385 | -1.4% |
| NEW ZEALND DOLLAR | 0 | 0 | 0.0% | 365,430 | 325,088 | 0.12 | 3,248 | 3,106 | 4.6% | 1,491,375 | 1,156,251 | 29.0% |
| NKR/USD CROSS RATE | 0 | 0 | 0.0% | 982 | 130 | 6.55 | 638 | 670 | -4.8% | 2,820 | 1,354 | 108.3% |
| RUSSIAN RUBLE | 0 | 0 | 0.0% | 13,824 | 3,709 | 2.73 | 4 | 5 | -20.0% | 51,825 | 19,306 | 168.4% |
| S.AFRICAN RAND | 500 | 0 | 0.0% | 451 | 47 | 8.6 | 1,140 | 0 | 0.0% | 10,328 | 6,981 | 47.9% |
| SWISS FRANC | 80 | 95 | -15.8% | 1,055,720 | 1,109,251 | -0.05 | 2,358 | 2,951 | -20.1% | 3,896,598 | 4,240,602 | -8.1% |
| AD/CD CROSS RATES | 0 | 0 | 0.0% | 59 | 23 | 1.57 | 0 | 0 | 0.0% | 102 | 375 | -72.8% |
| AD/JY CROSS RATES | 0 | 0 | 0.0% | 2,434 | 879 | 1.77 | 0 | 0 | 0.0% | 7,325 | 2,924 | 150.5% |
| AD/NE CROSS RATES | 0 | 0 | 0.0% | 52 | 54 | -0.04 | 0 | 0 | 0.0% | 73 | 118 | -38.1% |
| BP/JY CROSS RATES | 0 | 0 | 0.0% | 207 | 184 | 0.13 | 0 | 0 | 0.0% | 2,840 | 1,409 | 101.6% |
| BP/SF CROSS RATES | 0 | 0 | 0.0% | 57 | 56 | 0.02 | 0 | 0 | 0.0% | 431 | 408 | 5.6% |
| CD/JY CROSS RATES | 0 | 0 | 0.0% | 2 | 92 | -0.98 | 0 | 0 | 0.0% | 114 | 276 | -58.7% |
| EC/AD CROSS RATES | 0 | 0 | 0.0% | 1,118 | 277 | 3.04 | 0 | 0 | 0.0% | 2,438 | 1,138 | 114.2% |
| EC/CD CROSS RATES | 0 | 0 | 0.0% | 42 | 292 | -0.86 | 0 | 0 | 0.0% | 1,214 | 663 | 83.1% |
| EC/NOK CROSS RATES | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| EC/SEK CROSS RATES | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| EFX/BP CROSS RATES | 0 | 0 | 0.0% | 40,311 | 43,450 | -0.07 | 0 | 0 | 0.0% | 341,791 | 133,199 | 156.6% |
| EFX/JY CROSS RATES | 0 | 0 | 0.0% | 85,445 | 18,420 | 3.64 | 0 | 0 | 0.0% | 501,518 | 94,762 | 429.2% |
| EFX/SF CROSS RATES | 0 | 0 | 0.0% | 42,617 | 28,417 | 0.5 | 0 | 0 | 0.0% | 194,049 | 90,680 | 114.0% |

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|------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| FX Futures | | | | | | | | | | | | |
| SF/JY CROSS RATES | 0 | 0 | 0.0% | 2 | 24 | -0.92 | 0 | 0 | 0.0% | 340 | 314 | 8.3% |
| SKR/USD CROSS RATES | 0 | 0 | 0.0% | 2,203 | 52 | 41.37 | 0 | 0 | 0.0% | 4,335 | 422 | 927.3% |
| CZECK KORUNA (US) | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CZECK KORUNA (EC) | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| HUNGARIAN FORINT (US) | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 10 | 0 | 0.0% |
| HUNGARIAN FORINT (EC) | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| POLISH ZLOTY (US) | 0 | 0 | 0.0% | 3 | 21 | -0.86 | 0 | 0 | 0.0% | 34 | 65 | -47.7% |
| POLISH ZLOTY (EC) | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SHEKEL | 0 | 0 | 0.0% | 0 | 10 | -1 | 0 | 0 | 0.0% | 3 | 20 | -85.0% |
| RMB USD | 0 | 0 | 0.0% | 3,691 | 205 | 17 | 0 | 0 | 0.0% | 5,890 | 840 | 601.2% |
| KOREAN WON | 0 | 0 | 0.0% | 2 | 39 | -0.95 | 0 | 0 | 0.0% | 33 | 79 | -58.2% |
| TURKISH LIRA | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| TURKISH LIRA (EU) | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| E-MICRO EUR/USD | 0 | 0 | 0.0% | 195,270 | 144,719 | 0.35 | 0 | 0 | 0.0% | 970,999 | 673,529 | 44.2% |
| E-MICRO GBP/USD | 0 | 0 | 0.0% | 26,608 | 40,785 | -0.35 | 0 | 0 | 0.0% | 196,997 | 138,769 | 42.0% |
| E-MICRO USD/CAD | 0 | 0 | 0.0% | 0 | 46 | -1 | 0 | 0 | 0.0% | 9 | 1,088 | -99.2% |
| E-MICRO USD/CHF | 0 | 0 | 0.0% | 0 | 68 | -1 | 0 | 0 | 0.0% | 0 | 728 | -100.0% |
| E-MICRO USD/JPY | 0 | 0 | 0.0% | 0 | 1,268 | -1 | 0 | 0 | 0.0% | 38 | 9,726 | -99.6% |
| E-MICRO AUD/USD | 0 | 0 | 0.0% | 44,339 | 20,853 | 1.13 | 0 | 0 | 0.0% | 125,544 | 87,189 | 44.0% |
| COLOMBIAN PESO FUTURES | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| FX\$INDEX | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| MICRO JYP/USD | 0 | 0 | 0.0% | 21,834 | 2,789 | 6.83 | 0 | 0 | 0.0% | 79,988 | 25,048 | 219.3% |
| MICRO CHF/USD | 0 | 0 | 0.0% | 7,720 | 3,898 | 0.98 | 0 | 0 | 0.0% | 32,958 | 17,296 | 90.6% |
| EUR/USD REALIZED VOL | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| MICRO CAD/USD | 0 | 0 | 0.0% | 6,735 | 4,319 | 0.56 | 0 | 0 | 0.0% | 24,453 | 17,454 | 40.1% |
| INDIAN RUPEE | 0 | - | - | 24,099 | - | - | 0 | - | - | 49,134 | - | - |
| RMB JY | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |

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CME Group Exchange Volume Comparison Report - Monthly

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|--|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| FX Options | | | | | | | | | | | | |
| AUSTRALIAN DOLLAR | 49,370 | 17,327 | 184.9% | 182,168 | 97,249 | 0.87 | 144,627 | 74,573 | 93.9% | 562,758 | 362,009 | 55.5% |
| BRITISH POUND | 12,799 | 5,304 | 141.3% | 98,811 | 54,635 | 0.81 | 56,161 | 33,306 | 68.6% | 566,816 | 183,802 | 208.4% |
| CANADIAN DOLLAR | 16,333 | 10,251 | 59.3% | 82,893 | 76,647 | 0.08 | 67,849 | 31,539 | 115.1% | 361,624 | 241,549 | 49.7% |
| EURO FX | 89,301 | 147,727 | -39.5% | 436,254 | 612,676 | -0.29 | 465,302 | 658,988 | -29.4% | 2,331,097 | 1,960,116 | 18.9% |
| JAPANESE YEN | 37,136 | 15,912 | 133.4% | 332,339 | 83,357 | 2.99 | 199,569 | 131,712 | 51.5% | 1,573,310 | 477,721 | 229.3% |
| MEXICAN PESO | 0 | 0 | 0.0% | 1,045 | 0 | 0 | 280 | 0 | 0.0% | 1,862 | 0 | 0.0% |
| NEW ZEALND DOLLAR | 0 | - | - | 1 | - | - | 0 | - | - | 25 | - | - |
| RUSSIAN RUBLE | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SWISS FRANC | 1,099 | 252 | 336.1% | 22,173 | 9,103 | 1.44 | 4,014 | 6,454 | -37.8% | 62,405 | 31,737 | 96.6% |
| EFX/BP CROSS RATES | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| EFX/JY CROSS RATES | 0 | - | - | 2 | - | - | 0 | - | - | 2 | - | - |
| EFX/SF CROSS RATES | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 60 | -100.0% | 0 | 0 | 0.0% |
| JAPANESE YEN (EU) | 0 | 0 | 0.0% | 3,379 | 201 | 15.81 | 0 | 0 | 0.0% | 17,508 | 1,099 | 1,493.1% |
| EURO FX (EU) | 0 | 34 | -100.0% | 3,960 | 3,203 | 0.24 | 1 | 1,063 | -99.9% | 33,949 | 18,117 | 87.4% |
| SWISS FRANC (EU) | 0 | 0 | 0.0% | 535 | 119 | 3.5 | 0 | 0 | 0.0% | 3,554 | 299 | 1,088.6% |
| CANADIAN DOLLAR (EU) | 0 | 0 | 0.0% | 847 | 2,558 | -0.67 | 0 | 0 | 0.0% | 6,638 | 7,950 | -16.5% |
| BRITISH POUND (EU) | 0 | 301 | -100.0% | 1,262 | 1,442 | -0.12 | 3 | 302 | -99.0% | 10,678 | 1,981 | 439.0% |
| AUSTRALIAN DLR (EU) | 0 | 0 | 0.0% | 1,050 | 389 | 1.7 | 75 | 0 | 0.0% | 3,018 | 772 | 290.9% |
| Commodities and Alternative Investments | | | | | | | | | | | | |
| Futures | | | | | | | | | | | | |
| CORN | 144,407 | 331,223 | -56.4% | 4,649,516 | 5,646,747 | -0.18 | 861,083 | 2,111,000 | -59.2% | 26,562,554 | 30,479,506 | -12.9% |
| SOYBEAN | 72,938 | 207,770 | -64.9% | 3,317,324 | 4,209,099 | -0.21 | 381,368 | 1,266,468 | -69.9% | 18,333,230 | 19,915,883 | -7.9% |
| SOYBEAN MEAL | 42,066 | 88,868 | -52.7% | 1,445,899 | 1,321,281 | 0.09 | 233,122 | 524,694 | -55.6% | 7,521,993 | 6,709,544 | 12.1% |
| SOYBEAN OIL | 47,113 | 110,801 | -57.5% | 1,739,228 | 2,159,894 | -0.19 | 261,984 | 758,691 | -65.5% | 9,685,985 | 9,888,680 | -2.0% |
| OATS | 227 | 296 | -23.3% | 15,500 | 26,396 | -0.41 | 829 | 1,216 | -31.8% | 111,611 | 117,761 | -5.2% |
| ROUGH RICE | 152 | 564 | -73.0% | 13,328 | 25,048 | -0.47 | 1,536 | 4,151 | -63.0% | 124,209 | 165,717 | -25.0% |
| WHEAT | 22,391 | 39,561 | -43.4% | 1,828,697 | 2,614,684 | -0.3 | 152,315 | 240,927 | -36.8% | 11,068,383 | 11,371,787 | -2.7% |
| MINI CORN | 530 | 3,402 | -84.4% | 15,320 | 12,958 | 0.18 | 3,979 | 26,462 | -85.0% | 87,700 | 96,404 | -9.0% |
| MINI SOYBEAN | 1,225 | 6,426 | -80.9% | 22,718 | 14,423 | 0.58 | 6,730 | 71,073 | -90.5% | 122,747 | 121,085 | 1.4% |
| MINI WHEAT | 91 | 1,207 | -92.5% | 4,045 | 7,377 | -0.45 | 553 | 4,371 | -87.3% | 36,299 | 40,882 | -11.2% |
| LIVE CATTLE | 143,184 | 236,445 | -39.4% | 1,045,899 | 1,160,034 | -0.1 | 797,273 | 1,139,832 | -30.1% | 5,169,439 | 5,206,819 | -0.7% |
| FEEDER CATTLE | 6,160 | 14,241 | -56.7% | 110,788 | 129,826 | -0.15 | 66,997 | 115,468 | -42.0% | 738,671 | 703,157 | 5.1% |
| LEAN HOGS | 131,575 | 219,938 | -40.2% | 965,177 | 1,084,463 | -0.11 | 595,155 | 929,099 | -35.9% | 4,151,277 | 3,965,313 | 4.7% |

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CME Group Exchange Volume Comparison Report - Monthly

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|--|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| Commodities and Alternative Investments | | | | | | | | | | | | |
| Futures | | | | | | | | | | | | |
| PORK BELLIES | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| LUMBER | 433 | 2,844 | -84.8% | 22,620 | 21,433 | 0.06 | 5,373 | 13,833 | -61.2% | 117,790 | 119,046 | -1.1% |
| WOOD PULP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MILK | 316 | 512 | -38.3% | 24,072 | 21,956 | 0.1 | 2,953 | 3,196 | -7.6% | 119,127 | 126,413 | -5.8% |
| MLK MID | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NFD MILK | 0 | 0 | 0.0% | 821 | 252 | 2.26 | 0 | 0 | 0.0% | 3,131 | 4,010 | -21.9% |
| BUTTER CS | 0 | 0 | 0.0% | 2,344 | 1,042 | 1.25 | 0 | 0 | 0.0% | 9,382 | 9,554 | -1.8% |
| CLASS IV MILK | 127 | 0 | 0.0% | 375 | 114 | 2.29 | 1,080 | 12 | 8,900.0% | 2,773 | 911 | 204.4% |
| DRY WHEY | 0 | 0 | 0.0% | 616 | 724 | -0.15 | 0 | 0 | 0.0% | 4,769 | 6,869 | -30.6% |
| GSCI EXCESS RETURN FUT | 0 | 0 | 0.0% | 0 | 288 | -1 | 0 | 0 | 0.0% | 175 | 429 | -59.2% |
| GOLDMAN SACHS | 4,134 | 2,633 | 57.0% | 19,913 | 20,713 | -0.04 | 16,630 | 23,313 | -28.7% | 119,840 | 102,112 | 17.4% |
| ETHANOL | 0 | 0 | 0.0% | 28,861 | 34,768 | -0.17 | 0 | 0 | 0.0% | 158,423 | 115,842 | 36.8% |
| HDD WEATHER | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 787 | 1,163 | -32.3% |
| CDD WEATHER | 0 | 0 | 0.0% | 451 | 200 | 1.26 | 0 | 0 | 0.0% | 471 | 221 | 113.1% |
| HDD SEASONAL STRIP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 150 | -100.0% |
| CDD SEASONAL STRIP | 0 | 0 | 0.0% | 100 | 100 | 0 | 0 | 0 | 0.0% | 100 | 111 | -9.9% |
| HDD WEATHER EUROPEAN | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 50 | 350 | -85.7% |
| CAT WEATHER EUROPEAN | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| HDD EURO SEASONAL STRIP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CAT EURO SEASONAL STRIP | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| WKLY AVG TEMP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| HOUSING INDEX | 0 | 0 | 0.0% | 17 | 83 | -0.8 | 0 | 0 | 0.0% | 69 | 228 | -69.7% |
| PACIFIC RIM DAT SS WTHR | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| COTTON | 0 | 0 | 0.0% | 63 | 24 | 1.63 | 0 | 0 | 0.0% | 360 | 210 | 71.4% |
| COCOA TAS | 0 | 0 | 0.0% | 4 | 8 | -0.5 | 0 | 0 | 0.0% | 106 | 214 | -50.5% |
| COFFEE | 0 | 0 | 0.0% | 75 | 26 | 1.88 | 0 | 0 | 0.0% | 206 | 199 | 3.5% |
| SUGAR 11 | 0 | 0 | 0.0% | 125 | 92 | 0.36 | 0 | 0 | 0.0% | 521 | 610 | -14.6% |
| HARD WOOD PULP | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| USD CRUDE PALM OIL | 0 | 0 | 0.0% | 0 | 65 | -1 | 0 | 0 | 0.0% | 100 | 146 | -31.5% |
| CASH-SETTLED CHEESE | 0 | 0 | 0.0% | 2,080 | 3,534 | -0.41 | 0 | 0 | 0.0% | 12,523 | 17,015 | -26.4% |
| OTC SP GSCI ER SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| DOW-UBS COMMOD INDEX SW | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GRAIN BASIS SWAPS | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| OTC SP GSCI ER 3MTH SWAP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SEAS SNOWFALL | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |

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|--|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| Commodities and Alternative Investments | | | | | | | | | | | | |
| Futures | | | | | | | | | | | | |
| FERTILIZER PRODUCTS | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| S&P GSCI ENHANCED ER SWA | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| Commodities and Alternative Investments | | | | | | | | | | | | |
| Options | | | | | | | | | | | | |
| CORN | 1,084,020 | 1,507,369 | -28.1% | 853,149 | 702,427 | 0.21 | 5,816,285 | 6,950,287 | -16.3% | 3,836,037 | 2,967,196 | 29.3% |
| SOYBEAN | 667,745 | 1,332,201 | -49.9% | 710,560 | 494,442 | 0.44 | 2,934,760 | 5,005,603 | -41.4% | 2,793,773 | 1,771,344 | 57.7% |
| SOYBEAN MEAL | 66,182 | 98,357 | -32.7% | 59,786 | 42,630 | 0.4 | 361,398 | 355,749 | 1.6% | 283,423 | 140,481 | 101.8% |
| SOYBEAN OIL | 84,358 | 199,778 | -57.8% | 26,825 | 13,387 | 1 | 530,388 | 809,445 | -34.5% | 143,239 | 45,265 | 216.4% |
| SOYBEAN CRUSH | 299 | 83 | 260.2% | 0 | 0 | 0 | 1,368 | 337 | 305.9% | 0 | 0 | 0.0% |
| OATS | 1,287 | 2,157 | -40.3% | 1,069 | 1,085 | -0.01 | 6,698 | 5,715 | 17.2% | 6,217 | 2,690 | 131.1% |
| ROUGH RICE | 303 | 1,127 | -73.1% | 195 | 63 | 2.1 | 6,348 | 6,035 | 5.2% | 1,246 | 315 | 295.6% |
| WHEAT | 180,740 | 335,771 | -46.2% | 177,355 | 182,532 | -0.03 | 1,144,913 | 1,363,388 | -16.0% | 988,295 | 641,741 | 54.0% |
| LIVE CATTLE | 71,628 | 117,252 | -38.9% | 164,263 | 156,397 | 0.05 | 536,772 | 770,270 | -30.3% | 779,255 | 749,257 | 4.0% |
| FEEDER CATTLE | 1,134 | 6,600 | -82.8% | 16,268 | 16,205 | 0 | 9,511 | 30,437 | -68.8% | 88,320 | 67,051 | 31.7% |
| LEAN HOGS | 30,791 | 57,066 | -46.0% | 98,536 | 98,196 | 0 | 158,380 | 223,837 | -29.2% | 453,579 | 363,969 | 24.6% |
| LUMBER | 219 | 176 | 24.4% | 1,859 | 288 | 5.45 | 1,270 | 1,436 | -11.6% | 4,638 | 1,420 | 226.6% |
| MILK | 14,076 | 12,232 | 15.1% | 5,923 | 3,533 | 0.68 | 85,000 | 96,023 | -11.5% | 35,142 | 19,544 | 79.8% |
| MLK MID | 16 | 99 | -83.8% | 0 | 0 | 0 | 297 | 682 | -56.5% | 0 | 0 | 0.0% |
| NFD MILK | 379 | 264 | 43.6% | 0 | 0 | 0 | 1,131 | 1,855 | -39.0% | 0 | 0 | 0.0% |
| BUTTER CS | 1,697 | 154 | 1,001.9% | 65 | 0 | 0 | 6,619 | 2,882 | 129.7% | 71 | 0 | 0.0% |
| CLASS IV MILK | 309 | 34 | 808.8% | 4 | 33 | -0.88 | 4,053 | 1,871 | 116.6% | 153 | 45 | 240.0% |
| DRY WHEY | 616 | 219 | 181.3% | 0 | 0 | 0 | 1,377 | 731 | 88.4% | 0 | 0 | 0.0% |
| HDD WEATHER | 0 | 0 | 0.0% | 0 | 0 | 0 | 16 | 0 | 0.0% | 0 | 0 | 0.0% |
| CDD WEATHER | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| HDD SEASONAL STRIP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CDD SEASONAL STRIP | 60 | 0 | 0.0% | 0 | 0 | 0 | 60 | 0 | 0.0% | 0 | 0 | 0.0% |
| HDD WEATHER EUROPEAN | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CAT WEATHER EUROPEAN | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| HDD EURO SEASONAL STRIP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CAT EURO SEASONAL STRIP | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PACIFIC RIM DAT SS WTHR | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SBIN M HURR | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CORN NEARBY+2 CAL SPRD | 26,354 | 6,762 | 289.7% | 1 | 0 | 0 | 70,642 | 31,644 | 123.2% | 41 | 12 | 241.7% |
| SOYBN NEARBY+2 CAL SPRD | 51 | 30 | 70.0% | 0 | 0 | 0 | 153 | 655 | -76.6% | 0 | 0 | 0.0% |

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|--|----------------------------|----------------------------|--------------|--------------------|--------------------|--------------|------------------------------|------------------------------|---------------|----------------------|----------------------|-------------|
| Commodities and Alternative Investments | | | | | | | | | | | | |
| Options | | | | | | | | | | | | |
| WHEAT NEARBY+2 CAL SPRD | 1,834 | 5,002 | -63.3% | 3 | 14 | -0.79 | 12,019 | 29,855 | -59.7% | 29 | 26 | 11.5% |
| JULY-DEC CORN CAL SPRD | 22,398 | 25,013 | -10.5% | 3 | 37 | -0.92 | 69,511 | 85,643 | -18.8% | 138 | 182 | -24.2% |
| DEC-JULY WHEAT CAL SPRD | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| JULY-NOV SOYBEAN CAL SPR | 24,017 | 20,949 | 14.6% | 0 | 0 | 0 | 50,685 | 76,511 | -33.8% | 0 | 0 | 0.0% |
| JULY-DEC WHEAT CAL SPRD | 2,003 | 1,563 | 28.2% | 23 | 101 | -0.77 | 6,013 | 4,328 | 38.9% | 91 | 102 | -10.8% |
| JULY-JULY WHEAT CAL SPRD | 66 | 600 | -89.0% | 0 | 0 | 0 | 458 | 2,210 | -79.3% | 2 | 0 | 0.0% |
| NOV-NOV SOYBEAN CAL SPRI | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 30 | -100.0% | 0 | 0 | 0.0% |
| SBIN M HURR EVENT2 | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SOYMEAL NEARBY+2 CAL SPF | 5 | 0 | 0.0% | 0 | 0 | 0 | 5 | 0 | 0.0% | 0 | 0 | 0.0% |
| LV CATL CSO | 211 | 225 | -6.2% | 0 | 0 | 0 | 856 | 1,370 | -37.5% | 0 | 0 | 0.0% |
| SBIN HURR | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| JULY-DEC SOYMEAL CAL SPRI | - | 0 | 0.0% | - | 0 | 0 | - | 0 | 0.0% | - | 0 | 0.0% |
| JULY-DEC SOY OIL CAL SPRD | 49 | 0 | 0.0% | 0 | 0 | 0 | 446 | 0 | 0.0% | 0 | 0 | 0.0% |
| NOV-JULY SOYBEAN CAL SPR | 0 | 481 | -100.0% | 0 | 0 | 0 | 0 | 566 | -100.0% | 0 | 0 | 0.0% |
| SOY OIL NEARBY+2 CAL SPRD | 283 | 0 | 0.0% | 0 | 0 | 0 | 904 | 2,054 | -56.0% | 0 | 0 | 0.0% |
| CASH-SETTLED CHEESE | 1,735 | 1,003 | 73.0% | 263 | 0 | 0 | 9,319 | 5,301 | 75.8% | 497 | 250 | 98.8% |
| DEC-JULY CORN CAL SPRD | 0 | 25 | -100.0% | 0 | 0 | 0 | 100 | 25 | 300.0% | 0 | 0 | 0.0% |
| WHEAT-CORN IC SO | 60 | 0 | 0.0% | 0 | 0 | 0 | 180 | 140 | 28.6% | 0 | 0 | 0.0% |
| DEC-DEC CORN CAL SPRD | 220 | 220 | 0.0% | 0 | 0 | 0 | 220 | 1,040 | -78.8% | 0 | 0 | 0.0% |
| SNOWFALL | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SEAS SNOWFALL | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SOYBEAN CORN RATIO | 0 | 0 | 0.0% | 0 | 0 | 0 | 0 | 11 | -100.0% | 0 | 0 | 0.0% |
| AUG-NOV SOYBEAN CAL SPRI | 5 | 100 | -95.0% | 0 | 0 | 0 | 5 | 100 | -95.0% | 0 | 0 | 0.0% |
| LN HOGS CSO | 0 | 145 | -100.0% | 0 | 0 | 0 | 0 | 145 | -100.0% | 0 | 0 | 0.0% |
| JAN-MAY SOYBEAN CAL SPRD | 0 | 65 | -100.0% | 0 | 0 | 0 | 0 | 135 | -100.0% | 0 | 0 | 0.0% |
| MAY-NOV SOYBEAN CAL SPRI | 0 | - | - | 0 | - | - | 80 | - | - | 0 | - | - |
| TOTAL FUTURES GROUP | | | | | | | | | | | | |
| Interest Rate Futures | 2,857,003 | 2,173,004 | 31.5% | 137,968,754 | 104,312,507 | 32.3% | 7,723,464 | 5,945,444 | 29.9% | 486,705,413 | 441,101,223 | 10.3% |
| Equity Index Futures | 152,243 | 186,796 | -18.5% | 51,849,693 | 58,592,938 | -11.5% | 1,171,416 | 1,344,977 | -12.9% | 240,162,119 | 238,925,466 | 0.5% |
| Metals Futures | 126,818 | 121,951 | 4.0% | 8,096,366 | 7,370,988 | 9.8% | 570,039 | 631,226 | -9.7% | 36,426,163 | 32,606,973 | 11.7% |
| Energy Futures | 78,303 | 135,013 | -42.0% | 25,988,204 | 25,890,609 | 0.4% | 376,907 | 705,886 | -46.6% | 126,134,755 | 128,105,073 | -1.5% |
| FX Futures | 31,587 | 103,893 | -69.6% | 20,758,468 | 19,062,235 | 8.9% | 148,154 | 304,667 | -51.4% | 93,542,830 | 81,678,141 | 14.5% |
| Commodities and Alternative Inv | 617,069 | 1,266,731 | -51.3% | 15,275,976 | 18,517,652 | -17.5% | 3,388,960 | 7,233,806 | -53.2% | 84,264,801 | 89,288,341 | -5.6% |
| TOTAL FUTURES | 3,863,023 | 3,987,388 | -3.1% | 259,937,461 | 233,746,929 | 11.2% | 13,378,940 | 16,166,006 | -17.2% | 1,067,236,081 | 1,011,705,217 | 5.5% |

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CME Group Exchange Volume Comparison Report - Monthly

| | Open Outcry MAY 2013 | Open Outcry MAY 2012 | % CHG | ELEC MAY 2013 | ELEC MAY 2012 | % CHG | Open Outcry Y.T.D 2013 | Open Outcry Y.T.D 2012 | % CHG | ELEC Y.T.D 2013 | ELEC Y.T.D 2012 | % CHG |
|----------------------------------|----------------------------|----------------------------|--------------|--------------------|--------------------|--------------|------------------------------|------------------------------|---------------|----------------------|----------------------|--------------|
| TOTAL OPTIONS GROUP | | | | | | | | | | | | |
| Equity Index Options | 1,107,076 | 916,220 | 20.8% | 7,772,573 | 4,927,518 | 57.7% | 4,100,746 | 3,627,803 | 13.0% | 31,047,261 | 17,591,231 | 76.5% |
| Interest Rate Options | 17,404,318 | 16,285,274 | 6.9% | 9,554,660 | 5,579,689 | 71.2% | 59,974,746 | 86,490,857 | -30.7% | 34,679,143 | 24,093,628 | 43.9% |
| Metals Options | 309,519 | 363,350 | -14.8% | 627,563 | 510,125 | 23.0% | 1,796,487 | 1,797,054 | 0.0% | 3,459,685 | 2,147,826 | 61.1% |
| Energy Options | 768,719 | 1,441,831 | -46.7% | 1,672,887 | 1,353,994 | 23.6% | 3,515,027 | 5,972,167 | -41.1% | 7,436,558 | 5,124,610 | 45.1% |
| FX Options | 206,038 | 197,108 | 4.5% | 1,166,719 | 941,579 | 23.9% | 937,881 | 937,997 | 0.0% | 5,535,244 | 3,287,152 | 68.4% |
| Commodities and Alternative Inve | 2,285,150 | 3,733,122 | -38.8% | 2,116,150 | 1,711,370 | 23.7% | 11,828,240 | 15,868,346 | -25.5% | 9,414,186 | 6,770,890 | 39.0% |
| TOTAL OPTIONS | 22,080,820 | 22,936,905 | -3.7% | 22,910,552 | 15,024,275 | 52.5% | 82,153,127 | 114,694,224 | -28.4% | 91,572,077 | 59,015,337 | 55.2% |
| TOTAL COMBINED | | | | | | | | | | | | |
| Interest Rate | 20,261,321 | 18,458,278 | 9.8% | 147,523,414 | 109,892,196 | 34.2% | 67,698,210 | 92,436,301 | -26.8% | 521,384,556 | 465,194,851 | 12.1% |
| Equity Index | 1,259,319 | 1,103,016 | 14.2% | 59,622,266 | 63,520,456 | -6.1% | 5,272,162 | 4,972,780 | 6.0% | 271,209,380 | 256,516,697 | 5.7% |
| Metals | 436,337 | 485,301 | -10.1% | 8,723,929 | 7,881,113 | 10.7% | 2,366,526 | 2,428,280 | -2.5% | 39,885,848 | 34,754,799 | 14.8% |
| Energy | 847,022 | 1,576,844 | -46.3% | 27,661,091 | 27,244,603 | 1.5% | 3,891,934 | 6,678,053 | -41.7% | 133,571,313 | 133,229,683 | 0.3% |
| FX | 237,625 | 301,001 | -21.1% | 21,925,187 | 20,003,814 | 9.6% | 1,086,035 | 1,242,664 | -12.6% | 99,078,074 | 84,965,293 | 16.6% |
| Commodities and Alternative Inve | 2,902,219 | 4,999,853 | -42.0% | 17,392,126 | 20,229,022 | -14.0% | 15,217,200 | 23,102,152 | -34.1% | 93,678,987 | 96,059,231 | -2.5% |
| GRAND TOTAL | 25,943,843 | 26,924,293 | -3.6% | 282,848,013 | 248,771,204 | 13.7% | 95,532,067 | 130,860,230 | -27.0% | 1,158,808,158 | 1,070,720,554 | 8.2% |

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