

## CME Group Exchange Volume Comparison Report - Monthly

|                              | Open<br>Outcry<br>NOV 2018 | Open<br>Outcry<br>NOV 2017 | % CHG    | ELEC<br>NOV 2018 | ELEC<br>NOV 2017 | % CHG    | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG    | ELEC<br>Y.T.D 2018 | ELEC<br>Y.T.D<br>2017 | %<br>CHG |
|------------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|-----------------------|----------|
| <b>Interest Rate Futures</b> |                            |                            |          |                  |                  |          |                              |                              |          |                    |                       |          |
| 10-YR NOTE                   | 160,120                    | 112,679                    | 42.1%    | 47,960,845       | 40,251,077       | 19.15%   | 1,528,295                    | 1,386,146                    | 10.3%    | 411,860,519        | 341,043,767           | 20.8%    |
| 10-YR SWAP RATE              | 0                          | 0                          | 0.0%     | 16,421           | 28,761           | -42.91%  | 0                            | 0                            | 0.0%     | 408,856            | 462,353               | -11.6%   |
| 1-MONTH EURODOLLAR           | 0                          | 0                          | 0.0%     | 0                | 4,420            | -100.00% | 0                            | 0                            | 0.0%     | 31,342             | 51,775                | -39.5%   |
| 2-YR NOTE                    | 1,685                      | 2,655                      | -36.5%   | 18,704,612       | 13,952,937       | 34.06%   | 32,258                       | 19,545                       | 65.0%    | 117,151,816        | 83,932,383            | 39.6%    |
| 2-YR SWAP RATE               | -                          | 0                          | 0.0%     | -                | 0                | 0.00%    | -                            | 0                            | 0.0%     | -                  | 0                     | 0.0%     |
| 30-YR BOND                   | 24,088                     | 14,515                     | 66.0%    | 10,152,635       | 8,026,624        | 26.49%   | 232,131                      | 182,199                      | 27.4%    | 84,003,174         | 66,717,883            | 25.9%    |
| 30-YR SWAP RATE              | 0                          | 0                          | 0.0%     | 0                | 133              | -100.00% | 0                            | 0                            | 0.0%     | 983                | 10,383                | -90.5%   |
| 5-YR NOTE                    | 42,504                     | 26,737                     | 59.0%    | 35,560,926       | 26,797,584       | 32.70%   | 378,646                      | 244,575                      | 54.8%    | 254,554,850        | 201,180,266           | 26.5%    |
| 5-YR SWAP RATE               | 0                          | 0                          | 0.0%     | 15,799           | 21,609           | -26.89%  | 0                            | 0                            | 0.0%     | 248,304            | 462,855               | -46.4%   |
| 7-YR SWAP                    | -                          | 0                          | 0.0%     | -                | 0                | 0.00%    | -                            | 0                            | 0.0%     | -                  | 0                     | 0.0%     |
| EURODOLLARS                  | 678,692                    | 660,232                    | 2.8%     | 57,692,399       | 48,059,358       | 20.04%   | 8,669,920                    | 7,007,421                    | 23.7%    | 673,062,244        | 578,041,719           | 16.4%    |
| FED FUND                     | 0                          | 0                          | 0.0%     | 5,606,524        | 2,745,030        | 104.24%  | 0                            | 30                           | -100.0%  | 56,863,229         | 44,614,457            | 27.5%    |
| SOFR                         | 0                          | -                          | -        | 245,030          | -                |          | 0                            | -                            | -        | 775,902            | -                     | -        |
| SONIA                        | 0                          | -                          | -        | 124,925          | -                |          | 0                            | -                            | -        | 186,324            | -                     | -        |
| Ultra 10-Year Note           | 0                          | 0                          | 0.0%     | 5,210,163        | 3,954,932        | 31.74%   | 0                            | 8                            | -100.0%  | 41,762,809         | 25,797,554            | 61.9%    |
| ULTRA T-BOND                 | 0                          | 0                          | 0.0%     | 6,005,546        | 4,701,981        | 27.72%   | 230                          | 15                           | 1,433.3% | 40,755,265         | 29,480,389            | 38.2%    |
| <b>Interest Rate Options</b> |                            |                            |          |                  |                  |          |                              |                              |          |                    |                       |          |
| 10-YR NOTE                   | 3,441,648                  | 2,133,114                  | 61.3%    | 16,157,718       | 7,648,757        | 111.25%  | 26,488,010                   | 24,335,040                   | 8.8%     | 125,050,261        | 93,978,818            | 33.1%    |
| 2-YR NOTE                    | 98,503                     | 88,474                     | 11.3%    | 217,445          | 194,197          | 11.97%   | 1,517,130                    | 725,063                      | 109.2%   | 4,037,621          | 1,294,884             | 211.8%   |
| 30-YR BOND                   | 333,693                    | 210,111                    | 58.8%    | 3,334,685        | 1,712,080        | 94.77%   | 3,532,270                    | 2,811,068                    | 25.7%    | 29,017,967         | 22,173,755            | 30.9%    |
| 5-YR NOTE                    | 1,239,052                  | 571,247                    | 116.9%   | 3,936,992        | 1,625,606        | 142.19%  | 8,002,485                    | 6,033,461                    | 32.6%    | 29,497,413         | 21,453,100            | 37.5%    |
| EURODOLLARS                  | 5,541,787                  | 6,113,057                  | -9.3%    | 4,426,523        | 3,646,239        | 21.40%   | 97,329,754                   | 89,052,373                   | 9.3%     | 49,491,941         | 43,024,159            | 15.0%    |
| EURO MIDCURVE                | 8,989,740                  | 10,240,172                 | -12.2%   | 6,892,241        | 6,742,140        | 2.23%    | 97,587,723                   | 98,467,733                   | -0.9%    | 59,839,028         | 63,835,544            | -6.3%    |
| FED FUND                     | 500                        | 0                          | 0.0%     | 5                | 65               | -92.31%  | 2,250                        | 15,398                       | -85.4%   | 15,968             | 1,482                 | 977.5%   |
| Ultra 10-Year Note           | 60                         | 0                          | 0.0%     | 0                | 0                | 0.00%    | 100                          | 1,652                        | -93.9%   | 28                 | 6,835                 | -99.6%   |
| ULTRA T-BOND                 | 23,531                     | 1,487                      | 1,482.4% | 2,965            | 2,502            | 18.51%   | 63,768                       | 12,443                       | 412.5%   | 30,047             | 22,107                | 35.9%    |

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## CME Group Exchange Volume Comparison Report - Monthly

|                             | Open<br>Outcry<br>NOV 2018 | Open<br>Outcry<br>NOV 2017 | % CHG  | ELEC<br>NOV 2018 | ELEC<br>NOV 2017 | % CHG     | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG  | ELEC<br>Y.T.D 2018 | ELEC<br>Y.T.D<br>2017 | %<br>CHG |
|-----------------------------|----------------------------|----------------------------|--------|------------------|------------------|-----------|------------------------------|------------------------------|--------|--------------------|-----------------------|----------|
| <b>Equity Index Futures</b> |                            |                            |        |                  |                  |           |                              |                              |        |                    |                       |          |
| BITCOIN FUTURES             | 0                          | -                          | -      | 125,751          | -                |           | 0                            | -                            | -      | 842,902            | -                     | -        |
| DJ US REAL ESTATE           | 0                          | 0                          | 0.0%   | 22,713           | 16,236           | 39.89%    | 0                            | 0                            | 0.0%   | 255,438            | 174,445               | 46.4%    |
| E-mini (\$5) Dow            | 0                          | 0                          | 0.0%   | 4,883,923        | 2,704,885        | 80.56%    | 0                            | 0                            | 0.0%   | 53,279,864         | 29,923,362            | 78.1%    |
| E-mini FTSE 100 (USD)       | 0                          | 0                          | 0.0%   | 1,306            | 1,093            | 19.49%    | 0                            | 0                            | 0.0%   | 15,538             | 2,072                 | 649.9%   |
| E-mini FTSE China 50        | 0                          | 0                          | 0.0%   | 498              | 4,404            | -88.69%   | 0                            | 0                            | 0.0%   | 11,249             | 19,291                | -41.7%   |
| E-MINI MIDCAP               | 0                          | 0                          | 0.0%   | 354,261          | 278,129          | 27.37%    | 0                            | 0                            | 0.0%   | 4,177,261          | 3,760,657             | 11.1%    |
| E-MINI NASDAQ 100           | 0                          | 0                          | 0.0%   | 13,040,926       | 6,421,192        | 103.09%   | 0                            | 0                            | 0.0%   | 108,936,314        | 62,479,988            | 74.4%    |
| E-MINI RUSSELL 1000         | 0                          | 0                          | 0.0%   | 10,332           | 6,643            | 55.53%    | 0                            | 0                            | 0.0%   | 96,277             | 28,345                | 239.7%   |
| E-MINI RUSSELL 1000 GROWT   | 0                          | 0                          | 0.0%   | 11,185           | 3,032            | 268.90%   | 0                            | 0                            | 0.0%   | 86,327             | 17,685                | 388.1%   |
| E-MINI RUSSELL 1000 VALUE   | 0                          | 0                          | 0.0%   | 10,799           | 3,731            | 189.44%   | 0                            | 0                            | 0.0%   | 106,118            | 26,218                | 304.8%   |
| E-MINI RUSSELL 2000         | 0                          | 0                          | 0.0%   | 3,093,984        | 2,164,088        | 42.97%    | 0                            | 0                            | 0.0%   | 32,143,163         | 7,210,280             | 345.8%   |
| E-MINI S&P500               | 0                          | 0                          | 0.0%   | 36,983,127       | 27,554,129       | 34.22%    | 0                            | 0                            | 0.0%   | 388,896,537        | 333,755,902           | 16.5%    |
| E-MINI S&P REAL ESTATE SEL  | 0                          | 0                          | 0.0%   | 6,495            | 1,264            | 413.84%   | 0                            | 0                            | 0.0%   | 44,854             | 26,695                | 68.0%    |
| FT-SE 100                   | 0                          | 0                          | 0.0%   | 1,167            | 1,173            | -0.51%    | 0                            | 0                            | 0.0%   | 13,812             | 6,703                 | 106.1%   |
| FTSE Emerging               | 0                          | 0                          | 0.0%   | 2,979            | 266              | 1,019.92% | 0                            | 0                            | 0.0%   | 8,030              | 722                   | 1,012.2% |
| IBOVESPA INDEX              | 0                          | 0                          | 0.0%   | 136              | 590              | -76.95%   | 0                            | 0                            | 0.0%   | 11,475             | 6,988                 | 64.2%    |
| NASDAQ BIOTECH              | 0                          | 0                          | 0.0%   | 0                | 0                | 0.00%     | 0                            | 0                            | 0.0%   | 0                  | 0                     | 0.0%     |
| NIFTY 50                    | 0                          | 0                          | 0.0%   | 0                | 14,369           | -100.00%  | 0                            | 0                            | 0.0%   | 54,444             | 131,490               | -58.6%   |
| NIKKEI 225 (\$) STOCK       | 0                          | 0                          | 0.0%   | 267,623          | 425,097          | -37.04%   | 0                            | 0                            | 0.0%   | 3,422,886          | 3,023,295             | 13.2%    |
| NIKKEI 225 (YEN) STOCK      | 0                          | 0                          | 0.0%   | 850,395          | 1,148,523        | -25.96%   | 0                            | 0                            | 0.0%   | 9,818,741          | 10,066,944            | -2.5%    |
| S&P 500                     | 15,177                     | 22,303                     | -32.0% | 3,313            | 4,209            | -21.29%   | 425,797                      | 698,482                      | -39.0% | 49,091             | 48,090                | 2.1%     |
| S&P 500/GI                  | 0                          | 0                          | 0.0%   | 0                | 1                | -100.00%  | 0                            | 0                            | 0.0%   | 73                 | 251                   | -70.9%   |
| S&P 500/VALUE               | 0                          | 0                          | 0.0%   | 6,788            | 1,162            | 484.17%   | 0                            | 0                            | 0.0%   | 54,033             | 73,738                | -26.7%   |
| S&P 600 SMALLCAP EMINI      | 0                          | -                          | -      | 0                | -                |           | 0                            | -                            | -      | 1                  | -                     | -        |
| S&P CONSUMER DSCRTNRY S     | 0                          | 0                          | 0.0%   | 21,487           | 3,269            | 557.30%   | 0                            | 0                            | 0.0%   | 173,666            | 45,434                | 282.2%   |
| S&P CONSUMER STAPLES SE     | 0                          | 0                          | 0.0%   | 13,468           | 3,197            | 321.27%   | 0                            | 0                            | 0.0%   | 158,080            | 87,234                | 81.2%    |
| S&P ENERGY SECTOR           | 0                          | 0                          | 0.0%   | 32,649           | 6,470            | 404.62%   | 0                            | 0                            | 0.0%   | 237,603            | 107,447               | 121.1%   |
| S&P FINANCIAL SECTOR        | 0                          | 0                          | 0.0%   | 33,904           | 12,079           | 180.69%   | 0                            | 0                            | 0.0%   | 340,426            | 164,382               | 107.1%   |
| S&P HEALTH CARE SECTOR      | 0                          | 0                          | 0.0%   | 23,765           | 4,238            | 460.76%   | 0                            | 0                            | 0.0%   | 163,646            | 92,740                | 76.5%    |
| S&P INDUSTRIAL SECTOR       | 0                          | 0                          | 0.0%   | 13,405           | 5,457            | 145.65%   | 0                            | 0                            | 0.0%   | 145,660            | 51,882                | 180.8%   |
| S&P MATERIALS SECTOR        | 0                          | 0                          | 0.0%   | 9,880            | 4,179            | 136.42%   | 0                            | 0                            | 0.0%   | 94,011             | 62,743                | 49.8%    |
| S&P TECHNOLOGY SECTOR       | 0                          | 0                          | 0.0%   | 51,906           | 4,825            | 975.77%   | 0                            | 0                            | 0.0%   | 314,480            | 58,683                | 435.9%   |
| S&P UTILITIES SECTOR        | 0                          | 0                          | 0.0%   | 29,757           | 6,482            | 359.07%   | 0                            | 0                            | 0.0%   | 278,732            | 151,121               | 84.4%    |
| YEN DENOMINATED TOPIX       | 0                          | -                          | -      | 597              | -                |           | 0                            | -                            | -      | 5,734              | -                     | -        |

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|-----------------------------|----------------------------|----------------------------|---------|------------------|------------------|---------|------------------------------|------------------------------|---------|--------------------|-----------------------|----------|
| <b>Equity Index Options</b> |                            |                            |         |                  |                  |         |                              |                              |         |                    |                       |          |
| E-mini (\$5) Dow            | 0                          | 0                          | 0.0%    | 8,992            | 9,656            | -6.88%  | 0                            | 0                            | 0.0%    | 106,676            | 63,956                | 66.8%    |
| E-MINI MIDCAP               | -                          | 0                          | 0.0%    | -                | 0                | 0.00%   | -                            | 0                            | 0.0%    | -                  | 0                     | 0.0%     |
| E-MINI NASDAQ 100           | 0                          | 0                          | 0.0%    | 249,338          | 351,587          | -29.08% | 0                            | 0                            | 0.0%    | 2,683,262          | 2,691,520             | -0.3%    |
| E-MINI RUSSELL 2000         | 0                          | 0                          | 0.0%    | 11,113           | 19,153           | -41.98% | 0                            | 0                            | 0.0%    | 143,256            | 41,359                | 246.4%   |
| E-MINI S&P500               | 0                          | 3,200                      | -100.0% | 6,606,266        | 5,429,562        | 21.67%  | 14,660                       | 5,135                        | 185.5%  | 65,060,734         | 46,788,678            | 39.1%    |
| EOM E-MINI RUSSELL 2000 EN  | 0                          | 0                          | 0.0%    | 10,529           | 3,493            | 201.43% | 0                            | 0                            | 0.0%    | 74,388             | 15,018                | 395.3%   |
| EOM EMINI S&P               | 0                          | 0                          | 0.0%    | 2,336,360        | 2,316,604        | 0.85%   | 0                            | 0                            | 0.0%    | 28,995,981         | 22,235,291            | 30.4%    |
| EOM S&P 500                 | 157,237                    | 278,004                    | -43.4%  | 0                | 0                | 0.00%   | 1,989,998                    | 2,110,848                    | -5.7%   | 0                  | 0                     | 0.0%     |
| EOW1 E-MINI RUSSELL 2000 W  | 0                          | 0                          | 0.0%    | 1,702            | 1,641            | 3.72%   | 0                            | 0                            | 0.0%    | 22,621             | 6,576                 | 244.0%   |
| EOW1 E-MINI RUSSELL 2000 W  | 0                          | 0                          | 0.0%    | 1,937            | 1,764            | 9.81%   | 0                            | 0                            | 0.0%    | 28,060             | 6,625                 | 323.5%   |
| EOW1 EMINI S&P 500          | 0                          | 0                          | 0.0%    | 1,164,190        | 1,246,815        | -6.63%  | 0                            | 0                            | 0.0%    | 12,387,393         | 11,805,588            | 4.9%     |
| EOW1 S&P 500                | 34,448                     | 108,008                    | -68.1%  | 0                | 0                | 0.00%   | 878,609                      | 982,064                      | -10.5%  | 0                  | 0                     | 0.0%     |
| EOW2 E-MINI RUSSELL 2000 W  | 0                          | 0                          | 0.0%    | 5,319            | 4,977            | 6.87%   | 0                            | 0                            | 0.0%    | 55,304             | 11,645                | 374.9%   |
| EOW2 EMINI S&P 500          | 0                          | 0                          | 0.0%    | 1,310,158        | 1,214,931        | 7.84%   | 0                            | 0                            | 0.0%    | 14,328,432         | 11,746,518            | 22.0%    |
| EOW2 S&P 500                | 132,952                    | 243,522                    | -45.4%  | 0                | 0                | 0.00%   | 1,720,817                    | 1,911,618                    | -10.0%  | 0                  | 0                     | 0.0%     |
| EOW3 E-MINI RUSSELL 2000 W  | 0                          | 0                          | 0.0%    | 13,977           | 12,044           | 16.05%  | 0                            | 0                            | 0.0%    | 207,503            | 55,382                | 274.7%   |
| EOW3 EMINI S&P 500          | 0                          | 0                          | 0.0%    | 3,199,095        | 2,992,790        | 6.89%   | 0                            | 3,000                        | -100.0% | 40,435,024         | 37,054,376            | 9.1%     |
| EOW3 S&P 500                | 174,710                    | 340,297                    | -48.7%  | 0                | 0                | 0.00%   | 2,968,491                    | 3,984,497                    | -25.5%  | 0                  | 0                     | 0.0%     |
| EOW4 E-MINI RUSSELL 2000 W  | 0                          | 0                          | 0.0%    | 4,718            | 3,109            | 51.75%  | 0                            | 0                            | 0.0%    | 57,976             | 11,558                | 401.6%   |
| EOW4 EMINI S&P 500          | 0                          | 0                          | 0.0%    | 990,683          | 892,935          | 10.95%  | 0                            | 0                            | 0.0%    | 12,419,736         | 10,536,427            | 17.9%    |
| S&P 500                     | 409,029                    | 435,685                    | -6.1%   | 0                | 0                | 0.00%   | 3,445,548                    | 3,573,737                    | -3.6%   | 0                  | 0                     | 0.0%     |

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|----------------------------|----------------------------|----------------------------|-------|------------------|------------------|------------|------------------------------|------------------------------|-------|--------------------|-----------------------|-----------|
| <b>Metals Futures</b>      |                            |                            |       |                  |                  |            |                              |                              |       |                    |                       |           |
| ALUMINUM                   | 0                          | 0                          | 0.0%  | 550              | 398              | 38.19%     | 0                            | 0                            | 0.0%  | 8,496              | 7,244                 | 17.3%     |
| COMEX COPPER               | 0                          | 0                          | 0.0%  | 2,521,183        | 2,961,088        | -14.86%    | 0                            | 0                            | 0.0%  | 31,009,521         | 24,409,645            | 27.0%     |
| COMEX E-Mini GOLD          | 0                          | 0                          | 0.0%  | 9,527            | 7,107            | 34.05%     | 0                            | 0                            | 0.0%  | 91,830             | 87,450                | 5.0%      |
| COMEX E-Mini SILVER        | 0                          | 0                          | 0.0%  | 1,047            | 806              | 29.90%     | 0                            | 0                            | 0.0%  | 12,554             | 8,890                 | 41.2%     |
| COMEX GOLD                 | 0                          | 0                          | 0.0%  | 6,115,530        | 8,313,211        | -26.44%    | 0                            | 0                            | 0.0%  | 73,507,108         | 65,353,608            | 12.5%     |
| COMEX MINY COPPER          | 0                          | 0                          | 0.0%  | 337              | 629              | -46.42%    | 0                            | 0                            | 0.0%  | 4,933              | 7,642                 | -35.4%    |
| COMEX SILVER               | 0                          | 0                          | 0.0%  | 2,239,156        | 2,468,023        | -9.27%     | 0                            | 0                            | 0.0%  | 22,056,704         | 21,142,786            | 4.3%      |
| COPPER                     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%      | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%      |
| E-MICRO GOLD               | 0                          | 0                          | 0.0%  | 161,742          | 112,421          | 43.87%     | 0                            | 0                            | 0.0%  | 1,645,616          | 1,058,548             | 55.5%     |
| FERROUS PRODUCTS           | 0                          | 0                          | 0.0%  | 305              | 0                | 0.00%      | 0                            | 0                            | 0.0%  | 1,123              | 85                    | 1,221.2%  |
| GOLD                       | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%      | 0                            | 0                            | 0.0%  | 0                  | 1                     | -100.0%   |
| Gold Kilo                  | 0                          | 0                          | 0.0%  | 0                | 285              | -100.00%   | 0                            | 0                            | 0.0%  | 136                | 3,561                 | -96.2%    |
| IRON ORE 62 CHINA PLATTS F | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%      | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%      |
| IRON ORE 62 CHINA TSI FUTU | 0                          | 0                          | 0.0%  | 23               | 30               | -23.33%    | 0                            | 0                            | 0.0%  | 172                | 2,840                 | -93.9%    |
| LNDN ZINC                  | 0                          | 0                          | 0.0%  | 2,931            | 10               | 29,210.00% | 0                            | 0                            | 0.0%  | 13,475             | 125                   | 10,680.0% |
| METALS                     | -                          | 0                          | 0.0%  | -                | 0                | 0.00%      | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%      |
| NYMEX HOT ROLLED STEEL     | 0                          | 0                          | 0.0%  | 3,633            | 837              | 334.05%    | 0                            | 0                            | 0.0%  | 33,933             | 4,742                 | 615.6%    |
| NYMEX PLATINUM             | 0                          | 0                          | 0.0%  | 361,546          | 373,171          | -3.12%     | 0                            | 0                            | 0.0%  | 4,829,803          | 4,151,624             | 16.3%     |
| PALLADIUM                  | 0                          | 0                          | 0.0%  | 143,577          | 148,736          | -3.47%     | 0                            | 0                            | 0.0%  | 1,304,704          | 1,265,327             | 3.1%      |
| SILVER                     | 0                          | 0                          | 0.0%  | 12,447           | 7,866            | 58.24%     | 0                            | 0                            | 0.0%  | 89,789             | 66,270                | 35.5%     |
| URANIUM                    | 0                          | 0                          | 0.0%  | 27               | 2                | 1,250.00%  | 0                            | 0                            | 0.0%  | 793                | 429                   | 84.8%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                             | Open<br>Outcry<br>NOV 2018 | Open<br>Outcry<br>NOV 2017 | % CHG | ELEC<br>NOV 2018 | ELEC<br>NOV 2017 | % CHG     | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG | ELEC<br>Y.T.D 2018 | ELEC<br>Y.T.D<br>2017 | %<br>CHG |
|-----------------------------|----------------------------|----------------------------|-------|------------------|------------------|-----------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| <b>Metals Options</b>       |                            |                            |       |                  |                  |           |                              |                              |       |                    |                       |          |
| COMEX COPPER                | 0                          | 0                          | 0.0%  | 33,435           | 11,975           | 179.21%   | 0                            | 0                            | 0.0%  | 240,145            | 82,241                | 192.0%   |
| COMEX GOLD                  | 0                          | 0                          | 0.0%  | 719,309          | 564,034          | 27.53%    | 0                            | 0                            | 0.0%  | 8,548,130          | 7,077,375             | 20.8%    |
| COMEX SILVER                | 0                          | 0                          | 0.0%  | 131,793          | 84,947           | 55.15%    | 0                            | 0                            | 0.0%  | 1,415,708          | 1,161,289             | 21.9%    |
| COPPER                      | 0                          | -                          | -     | 35               | -                |           | 0                            | -                            | -     | 506                | -                     | -        |
| GOLD                        | 0                          | 0                          | 0.0%  | 49,931           | 24,982           | 99.87%    | 0                            | 0                            | 0.0%  | 461,639            | 152,619               | 202.5%   |
| HOT ROLLED COIL STEEL CAL   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| IRON ORE 62 CHINA TSI CALL  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| IRON ORE 62 CHINA TSI PUT O | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NYMEX PLATINUM              | 0                          | 0                          | 0.0%  | 1,421            | 2,124            | -33.10%   | 0                            | 0                            | 0.0%  | 20,018             | 13,008                | 53.9%    |
| PALLADIUM                   | 0                          | 0                          | 0.0%  | 443              | 1,724            | -74.30%   | 0                            | 0                            | 0.0%  | 15,010             | 13,313                | 12.7%    |
| SILVER                      | 0                          | 0                          | 0.0%  | 3,629            | 38               | 9,450.00% | 0                            | 0                            | 0.0%  | 24,104             | 1,672                 | 1,341.6% |
| <b>Energy Futures</b>       |                            |                            |       |                  |                  |           |                              |                              |       |                    |                       |          |
| 3.5% FUEL OIL CID MED SWA   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| 3.5% FUEL OIL CIF BALMO S   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| AEP-DAYTON HUB DAILY        | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| AEP-DAYTON HUB MTHLY        | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| AEP-DAYTON HUB OFF-PEAK     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ALGON CITY GATES NAT GAS    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ALGONQUIN CITYGATES BASI    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ANR LOUISIANA BASIS SWAP    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ANR OKLAHOMA                | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| APPALACHIAN COAL (PHY)      | -                          | 0                          | 0.0%  | -                | 0                | 0.00%     | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| ARGUS LLS VS. WTI (ARG) T   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%     | 0                            | 0                            | 0.0%  | 30                 | 60                    | -50.0%   |
| ARGUS PROPAN FAR EST IND    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ARGUS PROPAN(SAUDI ARAM     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| AUSTRIALIAN COKE COAL       | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| BRENT BALMO SWAP            | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| BRENT CALENDAR SWAP         | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| BRENT CFD SWAP              | 0                          | -                          | -     | 0                | -                |           | 0                            | -                            | -     | 0                  | -                     | -        |
| BRENT FINANCIAL FUTURES     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                            | Open<br>Outcry<br>NOV 2018 | Open<br>Outcry<br>NOV 2017 | % CHG | ELEC<br>NOV 2018 | ELEC<br>NOV 2017 | % CHG   | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG | ELEC<br>Y.T.D 2018 | ELEC<br>Y.T.D<br>2017 | %<br>CHG |
|----------------------------|----------------------------|----------------------------|-------|------------------|------------------|---------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| <b>Energy Futures</b>      |                            |                            |       |                  |                  |         |                              |                              |       |                    |                       |          |
| BRENT OIL LAST DAY         | 0                          | 0                          | 0.0%  | 2,220,732        | 1,535,316        | 44.64%  | 0                            | 0                            | 0.0%  | 19,734,445         | 20,280,916            | -2.7%    |
| CAISO SP15 EZGNHUB5 MW P   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CAISO SP15 EZGNHUB5 PEAK   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CANADIAN LIGHT SWEET OIL   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CENTERPOINT BASIS SWAP     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CENTERPOINT EAST INDEX     | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| CEU ENERGY                 | 0                          | -                          | -     | 7,093            | -                |         | 0                            | -                            | -     | 70,812             | -                     | -        |
| CHICAGO ETHANOL SWAP       | 0                          | 0                          | 0.0%  | 66               | 621              | -89.37% | 0                            | 0                            | 0.0%  | 2,071              | 4,204                 | -50.7%   |
| CHICAGO ULSD (PLATTS) SWA  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CHICAGO ULSD PL VS HO SPR  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CHICAGO UNL GAS PL VS RBO  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CIG BASIS                  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CIG ROCKIES NG INDEX SWA   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CINERGY HUB OFF-PEAK MON   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CINERGY HUB PEAK MONTH     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CIN HUB 5MW D AH O PK      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CIN HUB 5MW D AH PK        | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CIN HUB 5MW REAL TIME O P  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CIN HUB 5MW REAL TIME PK   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| COAL SWAP                  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| COLUMB GULF MAINLINE NG B  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| COLUMBIA GULF MAIN NAT G   | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| COLUMBIA GULF ONSHORE      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CONWAY NATURAL GASOLINE    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 5                  | 0                     | 0.0%     |
| CONWAY NORMAL BUTANE (O    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CONWAY PROPANE 5 DECIMA    | 0                          | 0                          | 0.0%  | 16               | 4                | 300.00% | 0                            | 0                            | 0.0%  | 48                 | 58                    | -17.2%   |
| CRUDE OIL                  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 89                 | 507                   | -82.4%   |
| CRUDE OIL OUTRIGHTS        | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CRUDE OIL PHY              | 0                          | 0                          | 0.0%  | 26,959,935       | 27,068,603       | -0.40%  | 0                            | 0                            | 0.0%  | 278,488,076        | 283,703,452           | -1.8%    |
| CRUDE OIL SPRDS            | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 50                    | -100.0%  |
| CRUDE OIL TRADE AT MARKE   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| DAILY PJM                  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| DATED BRENT (PLATTS) DAILY | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| DATED TO FRONTLINE BRENT   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>NOV 2018 | Open<br>Outcry<br>NOV 2017 | % CHG | ELEC<br>NOV 2018 | ELEC<br>NOV 2017 | % CHG  | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG | ELEC<br>Y.T.D 2018 | ELEC<br>Y.T.D<br>2017 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|-------|------------------|------------------|--------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| <b>Energy Futures</b>     |                            |                            |       |                  |                  |        |                              |                              |       |                    |                       |          |
| DEMARC INDEX FUTURE       | -                          | 0                          | 0.0%  | -                | 0                | 0.00%  | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| DEMARC SWING SWAP         | -                          | 0                          | 0.0%  | -                | 0                | 0.00%  | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| DIESEL 10P BRG FOB RDM VS | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%  | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| DIESEL 10PPM BARGES FOB B | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%  | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| DLY GAS EURO-BOB OXY      | -                          | 0                          | 0.0%  | -                | 0                | 0.00%  | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| DOMINION TRAN INC - APP I | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%  | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| DOMINION TRANSMISSION INC | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%  | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| DUBAI CRUDE OIL BALMO     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%  | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| DUBAI CRUDE OIL CALENDAR  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%  | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| DY EURO 3.5% FUEL OI RDA  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%  | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| EASTERN RAIL DELIVERY CSX | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%  | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| EAST/WEST FUEL OIL SPREAD | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%  | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| EIA FLAT TAX ONHWAY DIESE | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%  | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ELEC ERCOT DLY OFF PK     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%  | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ELEC ERCOT DLY PEAK       | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%  | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ELEC ERCOT OFF PEAK       | 0                          | -                          | -     | 0                | -                |        | 0                            | -                            | -     | 0                  | -                     | -        |
| ELEC FINSETTLED           | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%  | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ELEC MISO PEAK            | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%  | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ELEC NYISO OFF-PEAK       | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%  | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ELECTRICITY ERCOT PEAK    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%  | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ELECTRICITY OFF PEAK      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%  | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ELEC WEST POWER OFF-PEA   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%  | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ELEC WEST POWER PEAK      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%  | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| EL PASO PERMIAN INDEX SWA | -                          | 0                          | 0.0%  | -                | 0                | 0.00%  | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| ERCOT DAILY 5MW PEAK      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%  | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ERCOT HOUSTON Z MCPE 5M   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%  | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ERCOT NORTH ZMCPE 5MW O   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%  | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ERCOT NORTH ZMCPE 5MW O   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%  | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ERCOT NORTH ZMCPE 5MW P   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%  | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ETHANOL                   | 0                          | 0                          | 0.0%  | 12,343           | 9,943            | 24.14% | 0                            | 0                            | 0.0%  | 101,269            | 138,193               | -26.7%   |
| ETHANOL FWD               | -                          | -                          | -     | -                | -                |        | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| ETHANOL SWAP              | 0                          | -                          | -     | 0                | -                |        | 0                            | -                            | -     | 0                  | -                     | -        |
| ETHANOL T2 FOB ROTT INCL  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%  | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| EURO 1% FUEL OIL NEW BALM | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%  | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>NOV 2018 | Open<br>Outcry<br>NOV 2017 | % CHG | ELEC<br>NOV 2018 | ELEC<br>NOV 2017 | % CHG   | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG | ELEC<br>Y.T.D 2018 | ELEC<br>Y.T.D<br>2017 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|-------|------------------|------------------|---------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| <b>Energy Futures</b>     |                            |                            |       |                  |                  |         |                              |                              |       |                    |                       |          |
| EURO 3.5% FUEL OIL RDAM B | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| EURO 3.5% FUEL OIL SPREAD | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| EURO-DENOMINATED PETRO    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| EURO GASOIL 10 CAL SWAP   | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| EURO GASOIL 10PPM VS ICE  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| EUROPE 1% FUEL OIL NWE CA | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| EUROPE 1% FUEL OIL RDAM C | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| EUROPE 3.5% FUEL OIL MED  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| EUROPE 3.5% FUEL OIL RDAM | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| EUROPEAN GASOIL (ICE)     | 0                          | 0                          | 0.0%  | 1,254            | 1,490            | -15.84% | 0                            | 0                            | 0.0%  | 6,929              | 30,762                | -77.5%   |
| EUROPEAN NAPHTHA BALMO    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| EUROPEAN NAPHTHA CRACK S  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| EUROPE DATED BRENT SWAP   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| EUROPE JET KERO NWE CALS  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| EUROPE NAPHTHA CALSWAP    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| EURO PROPANE CIF ARA SW   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| FL GAS ZONE 3 NAT GAS IND | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| FLORIDA GAS ZONE3 BASIS S | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| FREIGHT MARKETS           | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| FUEL OIL CRACK VS ICE     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| FUEL OIL NWE CRACK VS ICE | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| FUEL OIL (PLATS) CAR CM   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| FUEL OIL (PLATS) CAR CN   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| FUELOIL SWAP:CARGOES VS.  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GAS EURO-BOB OXY NWE BA   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GAS EURO-BOB OXY NWE BA   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GASOIL 0.1 BRGS FOB VS IC | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| GASOIL 0.1 CIF MED SWAP   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GASOIL 0.1CIF MED VS ICE  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GASOIL 0.1 CIF NWE VS ISE | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GASOIL 0.1 CIF VS ICE GAS | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GASOIL 0.1 CRG CIF NW VS  | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| GASOIL 0.1 RDAM BRGS VS I | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GASOIL 0.1 ROTTERDAM BAR  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>NOV 2018 | Open<br>Outcry<br>NOV 2017 | % CHG | ELEC<br>NOV 2018 | ELEC<br>NOV 2017 | % CHG    | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG | ELEC<br>Y.T.D 2018 | ELEC<br>Y.T.D<br>2017 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|-------|------------------|------------------|----------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| <b>Energy Futures</b>     |                            |                            |       |                  |                  |          |                              |                              |       |                    |                       |          |
| GASOIL 10P CRG CIF NW VS  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GASOIL 10PPM CARGOES CIF  | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| GASOIL 10PPM VS ICE SWAP  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GASOIL BULLET SWAP        | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GASOIL CALENDAR SWAP      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GASOIL CRACK SPREAD CALE  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GASOIL MINI CALENDAR SWA  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GASOLINE UP-DOWN BALMO S  | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| GROUP THREE ULSD (PLATTS) | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GROUP THREE UNLEAD GAS (  | 0                          | -                          | -     | 0                | -                |          | 0                            | -                            | -     | 0                  | -                     | -        |
| GRP THREE ULSD(PLT)VS HEA | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GRP THREE UNL GS (PLT) VS | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GULF COAST 3% FUEL OIL BA | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GULF COAST GASOLINE CLND  | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| GULF COAST JET FUEL CLNDR | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GULF COAST JET VS NYM 2 H | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GULF COAST NO.6 FUEL OIL  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GULF COAST ULSD CALEND    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GULF COAST ULSD CRACK SP  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| HEATING OIL BALMO CLNDR S | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| HEATING OIL CRCK SPRD BAL | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| HEATING OIL PHY           | 0                          | 0                          | 0.0%  | 4,309,272        | 3,320,816        | 29.77%   | 0                            | 0                            | 0.0%  | 40,965,345         | 37,488,106            | 9.3%     |
| HENRY HUB BASIS SWAP      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 2,996                 | -100.0%  |
| HENRY HUB FINANCIAL LAST  | 0                          | 0                          | 0.0%  | 0                | 1,896            | -100.00% | 0                            | 0                            | 0.0%  | 27,703             | 5,144                 | 438.5%   |
| HENRY HUB INDEX SWAP FUT  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 2,996                 | -100.0%  |
| HENRY HUB SWAP            | 0                          | 0                          | 0.0%  | 9,147            | 3,189            | 186.83%  | 0                            | 0                            | 0.0%  | 68,731             | 65,169                | 5.5%     |
| HENRY HUB SWING FUTURE    | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| HOUSTON SHIP CHANNEL BAS  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| HOUSTON SHIP CHANNEL IND  | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| HTG OIL                   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 144                   | -100.0%  |
| HUSTN SHIP CHNL PIPE SWP  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ICE BRENT DUBAI SWAP      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ICE GASOIL BALMO SWAP     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| IN DELIVERY MONTH EUA     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                              | Open<br>Outcry<br>NOV 2018 | Open<br>Outcry<br>NOV 2017 | % CHG | ELEC<br>NOV 2018 | ELEC<br>NOV 2017 | % CHG    | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG | ELEC<br>Y.T.D 2018 | ELEC<br>Y.T.D<br>2017 | %<br>CHG |
|------------------------------|----------------------------|----------------------------|-------|------------------|------------------|----------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| <b>Energy Futures</b>        |                            |                            |       |                  |                  |          |                              |                              |       |                    |                       |          |
| INDIANA MISO                 | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| INDONESIAN COAL              | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| INDONESIAN COAL ICI4         | 0                          | -                          | -     | 0                | -                |          | 0                            | -                            | -     | 0                  | -                     | -        |
| ISO NEW ENGLAND OFF-PEAK     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ISO NEW ENGLAND PK LMP       | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| JAPAN C&F NAPHTHA CRACK      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| JAPAN C&F NAPHTHA SWAP       | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| JAPAN NAPHTHA BALMO SWA      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| JET AV FUEL (P) CAR FM ICE G | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| JET BARGES VS ICE GASOIL     | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| JET CIF NWE VS ICE           | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| JET FUEL BRG FOB RDM VS I    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| JET FUEL CRG CIF NEW VS I    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| JET FUEL UP-DOWN BALMO C     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| LA CARB DIESEL (OPIS)        | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| LA CARB DIESEL (OPIS) SWA    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| LA CARBOB GASOLINE(OPIS)S    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| LA JET FUEL VS NYM NO 2 H    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| LA JET (OPIS) SWAP           | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| LLS (ARGUS) CALENDAR SWA     | 0                          | -                          | -     | 0                | -                |          | 0                            | -                            | -     | 0                  | -                     | -        |
| LLS (ARGUS) VS WTI SWAP      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 15                    | -100.0%  |
| LOS ANGELES CARB GASOLIN     | 0                          | -                          | -     | 0                | -                |          | 0                            | -                            | -     | 0                  | -                     | -        |
| LTD NAT GAS                  | 0                          | 0                          | 0.0%  | 303,243          | 157,723          | 92.26%   | 0                            | 0                            | 0.0%  | 2,364,603          | 1,408,252             | 67.9%    |
| MARS (ARGUS) VS WTI SWAP     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 70                    | -100.0%  |
| MARS (ARGUS) VS WTI TRD M    | 0                          | 0                          | 0.0%  | 0                | 150              | -100.00% | 0                            | 0                            | 0.0%  | 575                | 950                   | -39.5%   |
| MARS BLEND CRUDE OIL         | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 200                   | -100.0%  |
| MCCLOSKEY ARA ARGS COAL      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 731                | 0                     | 0.0%     |
| MCCLOSKEY RCH BAY COAL       | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MGF FUT                      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MGN1 SWAP FUT                | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MICHCON NG INDEX SWAP        | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| MICHIGAN BASIS               | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MICHIGAN MISO                | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MINI GAS EUROBOB OXY NWE     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                            | Open<br>Outcry<br>NOV 2018 | Open<br>Outcry<br>NOV 2017 | % CHG | ELEC<br>NOV 2018 | ELEC<br>NOV 2017 | % CHG   | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG | ELEC<br>Y.T.D 2018 | ELEC<br>Y.T.D<br>2017 | %<br>CHG |
|----------------------------|----------------------------|----------------------------|-------|------------------|------------------|---------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| <b>Energy Futures</b>      |                            |                            |       |                  |                  |         |                              |                              |       |                    |                       |          |
| MINI RBOB V. EBOBARG NWE   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MINI RBOB V. EBOB(ARGUS) N | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MINY HTG OIL               | 0                          | 0                          | 0.0%  | 4                | 4                | 0.00%   | 0                            | 0                            | 0.0%  | 44                 | 32                    | 37.5%    |
| MINY NATURAL GAS           | 0                          | 0                          | 0.0%  | 112,587          | 28,377           | 296.75% | 0                            | 0                            | 0.0%  | 387,425            | 271,600               | 42.6%    |
| MINY RBOB GAS              | 0                          | 0                          | 0.0%  | 6                | 4                | 50.00%  | 0                            | 0                            | 0.0%  | 43                 | 47                    | -8.5%    |
| MINY WTI CRUDE OIL         | 0                          | 0                          | 0.0%  | 615,655          | 235,179          | 161.78% | 0                            | 0                            | 0.0%  | 4,074,872          | 2,834,261             | 43.8%    |
| MJC FUT                    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MNC FUT                    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MONT BELVIEU ETHANE 5 DEC  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MONT BELVIEU ETHANE OPIS   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MONT BELVIEU LDH PROPANE   | 0                          | 0                          | 0.0%  | 3                | 74               | -95.95% | 0                            | 0                            | 0.0%  | 212                | 401                   | -47.1%   |
| MONT BELVIEU LDH PROPANE   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MONT BELVIEU NATURAL GAS   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 20                    | -100.0%  |
| MONT BELVIEU NATURAL GAS   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MONT BELVIEU NORMAL BUTA   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MONT BELVIEU NORMAL BUTA   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NAT GAS BASIS SWAP         | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NATURAL GAS                | 0                          | 0                          | 0.0%  | 76,626           | 38,452           | 99.28%  | 0                            | 0                            | 0.0%  | 560,641            | 393,799               | 42.4%    |
| NATURAL GAS FIXED PRICE S  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NATURAL GAS INDEX          | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NATURAL GAS PEN SWP        | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 62                    | -100.0%  |
| NATURAL GAS PHY            | 0                          | 0                          | 0.0%  | 13,892,304       | 9,685,384        | 43.44%  | 0                            | 0                            | 0.0%  | 103,290,989        | 94,669,998            | 9.1%     |
| NEPOOL CNCTCT 5MW D AH O   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NEPOOL CONECTIC 5MW D AH   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NEPOOL INTR HUB 5MW D AH   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NEPOOL NE MASS 5MW D AH    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NEPOOL NE MASS 5MW D AH    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NEPOOL NEW HAMP 5MW D A    | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| NEPOOL RHD ISLD 5MW D AH   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NEPOOL RHODE IL 5MW D AH   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NEPOOL SE MASS 5MW D AH    | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| NEPOOL SE MASS 5MW D AH    | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| NEPOOL W CNT MASS 5MW D    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NEPOOL W CNTR M 5MW D AH   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>NOV 2018 | Open<br>Outcry<br>NOV 2017 | % CHG | ELEC<br>NOV 2018 | ELEC<br>NOV 2017 | % CHG | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG | ELEC<br>Y.T.D 2018 | ELEC<br>Y.T.D<br>2017 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|-------|------------------|------------------|-------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| <b>Energy Futures</b>     |                            |                            |       |                  |                  |       |                              |                              |       |                    |                       |          |
| NEW ENGLAND HUB PEAK DAI  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NEW YORK ETHANOL SWAP     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NEW YORK HUB ZONE G PEAK  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NEW YORK HUB ZONE J PEAK  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NGPL MID-CONTINENT        | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NGPL MIDCONTINENT INDEX   | -                          | 0                          | 0.0%  | -                | 0                | 0.00% | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| NGPL MIDCONTINENT SWING   | -                          | 0                          | 0.0%  | -                | 0                | 0.00% | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| NGPL TEX/OK               | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NGPL TEXOK INDEX          | -                          | 0                          | 0.0%  | -                | 0                | 0.00% | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| N ILLINOIS HUB DAILY      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| N ILLINOIS HUB MTHLY      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NO 2 UP-DOWN SPREAD CALE  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NORTHEN NATURAL GAS DEM   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NORTHEN NATURAL GAS VEN   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NORTHERN ILLINOIS OFF-PEA | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NORTHWEST ROCKIES BASIS   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| N ROCKIES PIPE SWAP       | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NY1% VS GC SPREAD SWAP    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NY 2.2% FUEL OIL (PLATTS  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NY 3.0% FUEL OIL (PLATTS  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NY HARBOR 1% FUEL OIL BAL | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NY HARBOR HEAT OIL SWP    | 0                          | 0                          | 0.0%  | 10               | 0                | 0.00% | 0                            | 0                            | 0.0%  | 77                 | 3                     | 2,466.7% |
| NY HARBOR LOW SULPUR GA   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NY HARBOR RESIDUAL FUEL 1 | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NY HARBOR RESIDUAL FUEL   | 0                          | -                          | -     | 0                | -                |       | 0                            | -                            | -     | 0                  | -                     | -        |
| NYH NO 2 CRACK SPREAD CA  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NY H OIL PLATTS VS NYMEX  | -                          | 0                          | 0.0%  | -                | 0                | 0.00% | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| NYISO A                   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NYISO A OFF-PEAK          | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NYISO CAPACITY            | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NYISO G                   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NYISO G OFF-PEAK          | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NYISO J                   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NYISO J OFF-PEAK          | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                             | Open<br>Outcry<br>NOV 2018 | Open<br>Outcry<br>NOV 2017 | % CHG | ELEC<br>NOV 2018 | ELEC<br>NOV 2017 | % CHG | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG | ELEC<br>Y.T.D 2018 | ELEC<br>Y.T.D<br>2017 | %<br>CHG |
|-----------------------------|----------------------------|----------------------------|-------|------------------|------------------|-------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| <b>Energy Futures</b>       |                            |                            |       |                  |                  |       |                              |                              |       |                    |                       |          |
| NYISO ZONE A 5MW D AH O P   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NYISO ZONE A 5MW D AH PK    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NYISO ZONE C 5MW D AH O P   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NYISO ZONE C 5MW D AH PK    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NYISO ZONE G 5MW D AH O P   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NYISO ZONE G 5MW D AH PK    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NYISO ZONE J 5MW D AH O P   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NYISO ZONE J 5MW D AH PK    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NY JET FUEL (PLATTS) HEAT C | -                          | 0                          | 0.0%  | -                | 0                | 0.00% | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| NYMEX ALUMINUM FUTURES      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NYMEX ULSD VS NYMEX HO      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NY ULSD (ARGUS) VS HEATIN   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ONEOK OKLAHOMA NG BASIS     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ONTARIO POWER SWAPS         | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PANHANDLE BASIS SWAP FUT    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PANHANDLE INDEX SWAP FUT    | -                          | 0                          | 0.0%  | -                | 0                | 0.00% | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| PANHANDLE PIPE SWAP         | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PERMIAN BASIS SWAP          | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PETROCHEMICALS              | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PETRO CRCKS & SPRDS ASIA    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PETRO CRCKS & SPRDS NA      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PETRO CRK&SPRD EURO         | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PETROLEUM PRODUCTS          | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PETROLEUM PRODUCTS ASIA     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PETRO OUTRIGHT EURO         | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PETRO OUTRIGHT NA           | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM AD HUB 5MW REAL TIME    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM AECO DA OFF-PEAK        | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM AECO DA PEAK            | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM APS ZONE DA OFF-PEAK    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM APS ZONE DA PEAK        | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM ATSI ELEC               | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM BGE DA OFF-PEAK         | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM BGE DA PEAK             | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>NOV 2018 | Open<br>Outcry<br>NOV 2017 | % CHG | ELEC<br>NOV 2018 | ELEC<br>NOV 2017 | % CHG | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG | ELEC<br>Y.T.D 2018 | ELEC<br>Y.T.D<br>2017 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|-------|------------------|------------------|-------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| <b>Energy Futures</b>     |                            |                            |       |                  |                  |       |                              |                              |       |                    |                       |          |
| PJM COMED 5MW D AH O PK   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM COMED 5MW D AH PK     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM DAILY                 | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM DAYTON DA OFF-PEAK    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM DAYTON DA PEAK        | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM JCPL DA OFF-PEAK      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM JCPL DA PEAK          | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM MONTHLY               | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM NI HUB 5MW REAL TIME  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM NILL DA OFF-PEAK      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM NILL DA PEAK          | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM OFF-PEAK LMP SWAP FU  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM PECO ZONE5MW PEAK C   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM PPL DA OFF-PEAK       | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM PPL DA PEAK           | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM PSEG DA OFF-PEAK      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM PSEG DA PEAK          | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM WES HUB PEAK LMP 50 M | -                          | 0                          | 0.0%  | -                | 0                | 0.00% | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| PJM WESTH DA OFF-PEAK     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM WESTHDA PEAK          | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM WESTH RT OFF-PEAK     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM WESTH RT PEAK         | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PLASTICS                  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PREMIUM UNLD 10P FOB MED  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PREMIUM UNLEAD 10PPM FOB  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PREM UNL GAS 10PPM RDAM   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PREM UNL GAS 10PPM RDAM   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PROPANE NON-LDH MB (OPIS) | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PROPANE NON-LDH MT. BEL ( | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| RBOB CALENDAR SWAP        | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 5                     | -100.0%  |
| RBOB CRACK SPREAD         | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| RBOB CRACK SPREAD BALMO   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| RBOB GAS                  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| RBOB GASOLINE BALMO CLNC  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>NOV 2018 | Open<br>Outcry<br>NOV 2017 | % CHG | ELEC<br>NOV 2018 | ELEC<br>NOV 2017 | % CHG | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG | ELEC<br>Y.T.D 2018 | ELEC<br>Y.T.D<br>2017 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|-------|------------------|------------------|-------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| <b>Energy Futures</b>     |                            |                            |       |                  |                  |       |                              |                              |       |                    |                       |          |
| RBOB PHY                  | 0                          | 0                          | 0.0%  | 3,784,893        | 3,493,215        | 8.35% | 0                            | 0                            | 0.0%  | 43,873,965         | 43,324,640            | 1.3%     |
| RBOB (PLATTS) CAL SWAP    | -                          | 0                          | 0.0%  | -                | 0                | 0.00% | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| RBOB SPREAD (PLATTS) SWA  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| RBOB UP-DOWN CALENDAR S   | -                          | 0                          | 0.0%  | -                | 0                | 0.00% | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| RBOB VS HEATING OIL SWAP  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ROCKIES KERN OPAL - NW IN | -                          | 0                          | 0.0%  | -                | 0                | 0.00% | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| SAN JUAN BASIS SWAP       | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SAN JUAN PIPE SWAP        | 0                          | -                          | -     | 0                | -                |       | 0                            | -                            | -     | 0                  | -                     | -        |
| SINGAPORE 180CST BALMO    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SINGAPORE 380CST BALMO    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SINGAPORE 380CST FUEL OIL | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SINGAPORE FUEL 180CST CAL | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SINGAPORE FUEL OIL SPREA  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SINGAPORE GASOIL          | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SINGAPORE GASOIL CALEND A | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SINGAPORE GASOIL SWAP     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 2                  | 36                    | -94.4%   |
| SINGAPORE GASOIL VS ICE   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SINGAPORE JET KERO BALMO  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SINGAPORE JET KERO GASOI  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SINGAPORE JET KEROSENE S  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SINGAPORE JET KERO VS. GA | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SINGAPORE MOGAS 92 UNLEA  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SINGAPORE MOGAS 92 UNLEA  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 2                  | 5                     | -60.0%   |
| SINGAPORE NAPHTHA BALMO   | -                          | 0                          | 0.0%  | -                | 0                | 0.00% | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| SINGAPORE NAPHTHA SWAP    | 0                          | -                          | -     | 0                | -                |       | 0                            | -                            | -     | 0                  | -                     | -        |
| SING FUEL                 | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SOCAL PIPE SWAP           | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SONAT BASIS SWAP FUTURE   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SOUTHERN NAT LA NAT GAS   | -                          | 0                          | 0.0%  | -                | 0                | 0.00% | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| SOUTH STAR TEX OKLHM KNS  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| Sumas Basis Swap          | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SUMAS NAT GAS PLATTS FIXE | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| TC2 ROTTERDAM TO USAC 37  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| TC5 RAS TANURA TO YOKOHA  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>NOV 2018 | Open<br>Outcry<br>NOV 2017 | % CHG | ELEC<br>NOV 2018 | ELEC<br>NOV 2017 | % CHG | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG | ELEC<br>Y.T.D 2018 | ELEC<br>Y.T.D<br>2017 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|-------|------------------|------------------|-------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| <b>Energy Futures</b>     |                            |                            |       |                  |                  |       |                              |                              |       |                    |                       |          |
| TCO BASIS SWAP            | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| TCO NG INDEX SWAP         | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| TD3 MEG TO JAPAN 250K MT  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| TENN 800 LEG NAT GAS INDE | -                          | 0                          | 0.0%  | -                | 0                | 0.00% | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| TENNESSEE 500 LEG BASIS S | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| TENNESSEE 800 LEG NG BASI | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| TENNESSEE ZONE 0 BASIS S  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| TETCO M-3 INDEX           | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| Tetco STX Basis           | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| TEXAS EASTERN ZONE M-3 BA | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| TEXAS GAS ZONE1 NG BASIS  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| Transco Zone 3 Basis      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| TRANSCO ZONE 3 NG INDEX S | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| TRANSCO ZONE4 BASIS SWAP  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| TRANSCO ZONE 4 NAT GAS IN | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| TRANSCO ZONE 6 BASIS SWA  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| TRANSCO ZONE 6 INDEX      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| UCM FUT                   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ULSD 10PPM CIF MED BALMO  | -                          | 0                          | 0.0%  | -                | 0                | 0.00% | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| ULSD 10PPM CIF MED SWAP   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ULSD 10PPM CIF MED VS ICE | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ULSD 10PPM CIF NW BALMO S | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ULSD 10PPM CIF VS ICE GAS | -                          | 0                          | 0.0%  | -                | 0                | 0.00% | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| ULSD UP-DOWN BALMO SWP    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| UP DOWN GC ULSD VS NMX H  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| USGC UNL 87 CRACK SPREAD  | -                          | 0                          | 0.0%  | -                | 0                | 0.00% | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| WAHA BASIS                | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| WAHA INDEX SWAP FUTURE    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| WESTERN RAIL DELIVERY PR  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| WTI-BRENT BULLET SWAP     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| WTI-BRENT CALENDAR SWAP   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 6                  | 120                   | -95.0%   |
| WTI CALENDAR              | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| WTS (ARGUS) VS WTI SWAP   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| WTS (ARGUS) VS WTI TRD MT | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>NOV 2018 | Open<br>Outcry<br>NOV 2017 | % CHG | ELEC<br>NOV 2018 | ELEC<br>NOV 2017 | % CHG   | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG | ELEC<br>Y.T.D 2018 | ELEC<br>Y.T.D<br>2017 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|-------|------------------|------------------|---------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| <b>Energy Options</b>     |                            |                            |       |                  |                  |         |                              |                              |       |                    |                       |          |
| 12 MO GASOIL CAL SWAP SPR | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| 1 MO GASOIL CAL SWAP SPR  | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| BRENT 1 MONTH CAL         | 0                          | -                          | -     | 0                | -                | -       | 0                            | -                            | -     | 0                  | -                     | -        |
| BRENT CALENDAR SWAP       | 0                          | 0                          | 0.0%  | 12               | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 24                 | 0                     | 0.0%     |
| BRENT CRUDE OIL 12 M CSO  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| BRENT CRUDE OIL 1 M CSO   | 0                          | -                          | -     | 100              | -                | -       | 0                            | -                            | -     | 3,000              | -                     | -        |
| BRENT CRUDE OIL 6 M CSO   | 0                          | -                          | -     | 0                | -                | -       | 0                            | -                            | -     | 0                  | -                     | -        |
| BRENT OIL LAST DAY        | 0                          | 0                          | 0.0%  | 126,936          | 26,281           | 383.00% | 0                            | 0                            | 0.0%  | 804,649            | 129,611               | 520.8%   |
| COAL API2 INDEX           | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| COAL API4 INDEX           | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| COAL SWAP                 | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CRUDE OIL 1MO             | 0                          | 0                          | 0.0%  | 37,230           | 62,490           | -40.42% | 0                            | 0                            | 0.0%  | 188,985            | 385,190               | -50.9%   |
| CRUDE OIL APO             | 0                          | 0                          | 0.0%  | 5                | 65               | -92.31% | 0                            | 0                            | 0.0%  | 336                | 135                   | 148.9%   |
| CRUDE OIL CALNDR STRIP    | 0                          | -                          | -     | 0                | -                | -       | 0                            | -                            | -     | 0                  | -                     | -        |
| CRUDE OIL OUTRIGHTS       | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CRUDE OIL PHY             | 0                          | 0                          | 0.0%  | 4,817,911        | 3,393,685        | 41.97%  | 0                            | 0                            | 0.0%  | 34,536,143         | 33,034,371            | 4.5%     |
| ELEC FINSETTLED           | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| ELEC MISO PEAK            | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ETHANOL                   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ETHANOL SWAP              | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| EURO-DENOMINATED PETRO    | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| EUROPEAN JET KEROSENE N   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GASOLINE                  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| HEATING OIL CRACK OPTIONS | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| HEATING OIL CRK SPD AVG P | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| HEATING OIL PHY           | 0                          | 0                          | 0.0%  | 7,385            | 4,252            | 73.68%  | 0                            | 0                            | 0.0%  | 58,392             | 53,919                | 8.3%     |
| HENRY HUB FINANCIAL LAST  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 5                  | 0                     | 0.0%     |
| HO 1 MONTH CLNDR OPTIONS  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| HUSTN SHIP CHNL PIPE SWP  | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| LLS CRUDE OIL             | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MCCLOSKEY ARA ARGS COAL   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MCCLOSKEY RCH BAY COAL    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NATURAL GAS               | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NATURAL GAS 1 M CSO FIN   | 0                          | 0                          | 0.0%  | 250              | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 2,629              | 3,920                 | -32.9%   |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>NOV 2018 | Open<br>Outcry<br>NOV 2017 | % CHG | ELEC<br>NOV 2018 | ELEC<br>NOV 2017 | % CHG    | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG | ELEC<br>Y.T.D 2018 | ELEC<br>Y.T.D<br>2017 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|-------|------------------|------------------|----------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| <b>Energy Options</b>     |                            |                            |       |                  |                  |          |                              |                              |       |                    |                       |          |
| NATURAL GAS 2 M CSO FIN   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NATURAL GAS 3 M CSO FIN   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 1                  | 0                     | 0.0%     |
| NATURAL GAS 5 M CSO FIN   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NATURAL GAS 6 M CSO FIN   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NATURAL GAS OPTION ON CA  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NATURAL GAS PHY           | 0                          | 0                          | 0.0%  | 2,182,172        | 1,962,490        | 11.19%   | 0                            | 0                            | 0.0%  | 15,184,583         | 14,222,768            | 6.8%     |
| NATURAL GAS WINTER STRIP  | 0                          | -                          | -     | 0                | -                |          | 0                            | -                            | -     | 0                  | -                     | -        |
| NG HH 3 MONTH CAL         | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| N ROCKIES PIPE SWAP       | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NY HARBOR HEAT OIL SWP    | 0                          | 0                          | 0.0%  | 44               | 26               | 69.23%   | 0                            | 0                            | 0.0%  | 602                | 509                   | 18.3%    |
| NYISO ZONE G 5MW PEAK OP  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NYMEX EUROPEAN GASOIL A   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NYMEX EUROPEAN GASOIL O   | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| PANHANDLE PIPE SWAP       | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PETROCHEMICALS            | 0                          | 0                          | 0.0%  | 0                | 8                | -100.00% | 0                            | 0                            | 0.0%  | 23                 | 16                    | 43.8%    |
| PETRO OUTRIGHT EURO       | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PETRO OUTRIGHT NA         | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM MONTHLY               | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| PJM WES HUB PEAK CAL MTH  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM WES HUB PEAK LMP 50M  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| RBOB 1MO CAL SPD OPTIONS  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| RBOB CALENDAR SWAP        | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 10                    | -100.0%  |
| RBOB CRACK                | 0                          | -                          | -     | 0                | -                |          | 0                            | -                            | -     | 2                  | -                     | -        |
| RBOB PHY                  | 0                          | 0                          | 0.0%  | 2,901            | 6,740            | -56.96%  | 0                            | 0                            | 0.0%  | 36,662             | 75,996                | -51.8%   |
| ROTTERDAM 3.5%FUEL OIL CL | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SAN JUAN PIPE SWAP        | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SHORT TERM                | 0                          | 0                          | 0.0%  | 0                | 282              | -100.00% | 0                            | 0                            | 0.0%  | 996                | 534                   | 86.5%    |
| SHORT TERM NATURAL GAS    | 0                          | 0                          | 0.0%  | 0                | 2,535            | -100.00% | 0                            | 0                            | 0.0%  | 1,005              | 3,637                 | -72.4%   |
| SINGAPORE GASOIL CALEND   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SINGAPORE JET FUEL CALEN  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SOCAL PIPE SWAP           | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| WTI-BRENT BULLET SWAP     | 0                          | 0                          | 0.0%  | 2,300            | 13,024           | -82.34%  | 0                            | 0                            | 0.0%  | 148,335            | 54,628                | 171.5%   |
| WTI CRUDE OIL 1 M CSO FI  | 0                          | 0                          | 0.0%  | 0                | 3,700            | -100.00% | 0                            | 0                            | 0.0%  | 15,050             | 7,700                 | 95.5%    |

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## CME Group Exchange Volume Comparison Report - Monthly

|                        | Open<br>Outcry<br>NOV 2018 | Open<br>Outcry<br>NOV 2017 | % CHG | ELEC<br>NOV 2018 | ELEC<br>NOV 2017 | % CHG   | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG   | ELEC<br>Y.T.D 2018 | ELEC<br>Y.T.D<br>2017 | %<br>CHG |
|------------------------|----------------------------|----------------------------|-------|------------------|------------------|---------|------------------------------|------------------------------|---------|--------------------|-----------------------|----------|
| <b>FX Futures</b>      |                            |                            |       |                  |                  |         |                              |                              |         |                    |                       |          |
| AD/CD CROSS RATES      | 0                          | 0                          | 0.0%  | 2                | 0                | 0.00%   | 0                            | 0                            | 0.0%    | 55                 | 38                    | 44.7%    |
| AD/JY CROSS RATES      | 0                          | 0                          | 0.0%  | 3,090            | 1,567            | 97.19%  | 0                            | 0                            | 0.0%    | 45,521             | 26,109                | 74.3%    |
| AD/NE CROSS RATES      | 0                          | 0                          | 0.0%  | 62               | 51               | 21.57%  | 0                            | 0                            | 0.0%    | 795                | 940                   | -15.4%   |
| AUSTRALIAN DOLLAR      | 0                          | 0                          | 0.0%  | 2,223,688        | 1,966,988        | 13.05%  | 0                            | 1,537                        | -100.0% | 25,768,304         | 21,951,546            | 17.4%    |
| BDI                    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%    | 0                  | 6,243                 | -100.0%  |
| BP/JY CROSS RATES      | 0                          | 0                          | 0.0%  | 2,049            | 3,643            | -43.76% | 0                            | 0                            | 0.0%    | 32,759             | 32,137                | 1.9%     |
| BP/SF CROSS RATES      | 0                          | 0                          | 0.0%  | 172              | 175              | -1.71%  | 0                            | 0                            | 0.0%    | 3,853              | 912                   | 322.5%   |
| BRAZIL REAL            | 0                          | 0                          | 0.0%  | 86,134           | 87,786           | -1.88%  | 0                            | 0                            | 0.0%    | 1,110,191          | 650,829               | 70.6%    |
| BRITISH POUND          | 0                          | 0                          | 0.0%  | 2,861,731        | 2,937,040        | -2.56%  | 10                           | 249                          | -96.0%  | 29,765,078         | 27,979,757            | 6.4%     |
| CANADIAN DOLLAR        | 0                          | 0                          | 0.0%  | 1,544,012        | 1,413,742        | 9.21%   | 45                           | 2,684                        | -98.3%  | 18,954,703         | 17,345,207            | 9.3%     |
| CD/JY CROSS RATES      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%    | 949                | 554                   | 71.3%    |
| CHINESE RENMINBI (CNH) | 0                          | 0                          | 0.0%  | 20,793           | 2,098            | 891.09% | 0                            | 0                            | 0.0%    | 98,437             | 17,522                | 461.8%   |
| CZECK KORUNA (EC)      | 0                          | -                          | -     | 2                | -                |         | 0                            | -                            | -       | 8                  | -                     | -        |
| CZECK KORUNA (US)      | 0                          | -                          | -     | 0                | -                |         | 0                            | -                            | -       | 15                 | -                     | -        |
| EC/AD CROSS RATES      | 0                          | 0                          | 0.0%  | 1,155            | 1,533            | -24.66% | 0                            | 0                            | 0.0%    | 20,915             | 25,047                | -16.5%   |
| EC/CD CROSS RATES      | 0                          | 0                          | 0.0%  | 744              | 2,342            | -68.23% | 0                            | 0                            | 0.0%    | 33,075             | 45,774                | -27.7%   |
| EC/NOK CROSS RATES     | 0                          | 0                          | 0.0%  | 173              | 766              | -77.42% | 0                            | 0                            | 0.0%    | 4,165              | 2,776                 | 50.0%    |
| EC/SEK CROSS RATES     | 0                          | 0                          | 0.0%  | 110              | 1,225            | -91.02% | 0                            | 0                            | 0.0%    | 8,090              | 7,502                 | 7.8%     |
| EFX/BP CROSS RATES     | 0                          | 0                          | 0.0%  | 61,271           | 66,882           | -8.39%  | 0                            | 0                            | 0.0%    | 873,700            | 771,836               | 13.2%    |
| EFX/JY CROSS RATES     | 0                          | 0                          | 0.0%  | 42,635           | 54,669           | -22.01% | 0                            | 0                            | 0.0%    | 845,610            | 698,424               | 21.1%    |
| EFX/SF CROSS RATES     | 0                          | 0                          | 0.0%  | 19,142           | 17,156           | 11.58%  | 0                            | 0                            | 0.0%    | 313,613            | 350,493               | -10.5%   |
| E-MICRO AUD/USD        | 0                          | 0                          | 0.0%  | 123,047          | 83,620           | 47.15%  | 0                            | 0                            | 0.0%    | 1,201,816          | 946,499               | 27.0%    |
| E-MICRO CAD/USD        | 0                          | 0                          | 0.0%  | 15,649           | 17,650           | -11.34% | 0                            | 0                            | 0.0%    | 189,497            | 222,816               | -15.0%   |
| E-MICRO CHF/USD        | 0                          | 0                          | 0.0%  | 1,481            | 1,346            | 10.03%  | 0                            | 0                            | 0.0%    | 16,267             | 11,016                | 47.7%    |
| E-MICRO EUR/USD        | 0                          | 0                          | 0.0%  | 324,646          | 227,772          | 42.53%  | 0                            | 0                            | 0.0%    | 4,037,284          | 2,769,857             | 45.8%    |
| E-MICRO GBP/USD        | 0                          | 0                          | 0.0%  | 53,401           | 55,621           | -3.99%  | 0                            | 0                            | 0.0%    | 509,258            | 632,229               | -19.5%   |
| E-MICRO INR/USD        | 0                          | 0                          | 0.0%  | 5,994            | 3,423            | 75.11%  | 0                            | 0                            | 0.0%    | 54,678             | 29,104                | 87.9%    |
| E-MICRO JPY/USD        | 0                          | 0                          | 0.0%  | 24,174           | 37,845           | -36.12% | 0                            | 0                            | 0.0%    | 331,003            | 427,547               | -22.6%   |
| E-MICRO USD/CAD        | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%    | -                  | 0                     | 0.0%     |
| E-MICRO USD/CHF        | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%    | -                  | 0                     | 0.0%     |
| E-MICRO USD/CNH        | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%    | -                  | 0                     | 0.0%     |
| E-MICRO USD/JPY        | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%    | -                  | 0                     | 0.0%     |
| E-MINI EURO FX         | 0                          | 0                          | 0.0%  | 84,842           | 89,708           | -5.42%  | 0                            | 0                            | 0.0%    | 1,121,476          | 1,033,894             | 8.5%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                       | Open<br>Outcry<br>NOV 2018 | Open<br>Outcry<br>NOV 2017 | % CHG  | ELEC<br>NOV 2018 | ELEC<br>NOV 2017 | % CHG    | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG   | ELEC<br>Y.T.D 2018 | ELEC<br>Y.T.D<br>2017 | %<br>CHG |
|-----------------------|----------------------------|----------------------------|--------|------------------|------------------|----------|------------------------------|------------------------------|---------|--------------------|-----------------------|----------|
| <b>FX Futures</b>     |                            |                            |        |                  |                  |          |                              |                              |         |                    |                       |          |
| E-MINI JAPANESE YEN   | 0                          | 0                          | 0.0%   | 9,376            | 10,882           | -13.84%  | 0                            | 0                            | 0.0%    | 140,981            | 308,393               | -54.3%   |
| EURO FX               | 2                          | 152                        | -98.7% | 4,606,155        | 4,571,246        | 0.76%    | 544                          | 2,825                        | -80.7%  | 62,903,914         | 50,607,396            | 24.3%    |
| HUNGARIAN FORINT (EC) | 0                          | -                          | -      | 0                | -                |          | 0                            | -                            | -       | 0                  | -                     | -        |
| HUNGARIAN FORINT (US) | 0                          | -                          | -      | 0                | -                |          | 0                            | -                            | -       | 0                  | -                     | -        |
| INDIAN RUPEE          | 0                          | 0                          | 0.0%   | 99,328           | 69,855           | 42.19%   | 0                            | 0                            | 0.0%    | 1,010,786          | 427,776               | 136.3%   |
| JAPANESE YEN          | 4                          | 46                         | -91.3% | 2,704,644        | 3,486,863        | -22.43%  | 111                          | 8,981                        | -98.8%  | 33,442,354         | 38,320,545            | -12.7%   |
| KOREAN WON            | 0                          | 0                          | 0.0%   | 391              | 150              | 160.67%  | 0                            | 0                            | 0.0%    | 2,791              | 350                   | 697.4%   |
| MEXICAN PESO          | 0                          | 0                          | 0.0%   | 1,280,686        | 1,025,069        | 24.94%   | 0                            | 5                            | -100.0% | 15,441,433         | 11,505,936            | 34.2%    |
| NEW ZEALND DOLLAR     | 0                          | 0                          | 0.0%   | 623,641          | 511,002          | 22.04%   | 0                            | 0                            | 0.0%    | 6,896,725          | 5,683,002             | 21.4%    |
| NKR/USD CROSS RATE    | 0                          | 0                          | 0.0%   | 2,756            | 1,576            | 74.87%   | 0                            | 0                            | 0.0%    | 52,629             | 19,572                | 168.9%   |
| POLISH ZLOTY (EC)     | 0                          | 0                          | 0.0%   | 22               | 19               | 15.79%   | 0                            | 0                            | 0.0%    | 208                | 407                   | -48.9%   |
| POLISH ZLOTY (US)     | 0                          | 0                          | 0.0%   | 54               | 313              | -82.75%  | 0                            | 0                            | 0.0%    | 934                | 1,293                 | -27.8%   |
| RMB USD               | 0                          | 0                          | 0.0%   | 0                | 1                | -100.00% | 0                            | 0                            | 0.0%    | 25                 | 281                   | -91.1%   |
| RUSSIAN RUBLE         | 0                          | 0                          | 0.0%   | 42,376           | 52,886           | -19.87%  | 0                            | 0                            | 0.0%    | 568,752            | 396,654               | 43.4%    |
| S.AFRICAN RAND        | 0                          | 0                          | 0.0%   | 37,222           | 34,974           | 6.43%    | 0                            | 0                            | 0.0%    | 497,058            | 490,296               | 1.4%     |
| SF/JY CROSS RATES     | 0                          | 0                          | 0.0%   | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 7                  | 0                     | 0.0%     |
| SHEKEL                | 0                          | 0                          | 0.0%   | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| SKR/USD CROSS RATES   | 0                          | 0                          | 0.0%   | 2,788            | 1,471            | 89.53%   | 0                            | 0                            | 0.0%    | 48,253             | 21,799                | 121.4%   |
| SWISS FRANC           | 0                          | 0                          | 0.0%   | 477,324          | 517,290          | -7.73%   | 0                            | 0                            | 0.0%    | 6,476,230          | 6,207,772             | 4.3%     |
| TURKISH LIRA          | 0                          | 0                          | 0.0%   | 0                | 6                | -100.00% | 0                            | 0                            | 0.0%    | 10                 | 18                    | -44.4%   |
| USDZAR                | 0                          | 0                          | 0.0%   | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 15                 | 0                     | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                      | Open<br>Outcry<br>NOV 2018 | Open<br>Outcry<br>NOV 2017 | % CHG  | ELEC<br>NOV 2018 | ELEC<br>NOV 2017 | % CHG    | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG   | ELEC<br>Y.T.D 2018 | ELEC<br>Y.T.D<br>2017 | %<br>CHG |
|----------------------|----------------------------|----------------------------|--------|------------------|------------------|----------|------------------------------|------------------------------|---------|--------------------|-----------------------|----------|
| <b>FX Options</b>    |                            |                            |        |                  |                  |          |                              |                              |         |                    |                       |          |
| AUD/USD PQO 2pm Fix  | 0                          | 0                          | 0.0%   | 149,195          | 97,896           | 52.40%   | 600                          | 5,746                        | -89.6%  | 1,405,249          | 1,183,009             | 18.8%    |
| AUSTRALIAN DLR (EU)  | 0                          | 0                          | 0.0%   | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 0                  | 2                     | -100.0%  |
| AUSTRALIAN DOLLAR    | 0                          | 0                          | 0.0%   | 0                | 0                | 0.00%    | 0                            | 2,674                        | -100.0% | 0                  | 200,250               | -100.0%  |
| BRITISH POUND        | 0                          | 0                          | 0.0%   | 0                | 0                | 0.00%    | 0                            | 693                          | -100.0% | 0                  | 462,114               | -100.0%  |
| BRITISH POUND (EU)   | 0                          | 0                          | 0.0%   | 2                | 178              | -98.88%  | 0                            | 0                            | 0.0%    | 279                | 4,429                 | -93.7%   |
| CAD/USD PQO 2pm Fix  | 334                        | 945                        | -64.7% | 120,063          | 138,660          | -13.41%  | 3,040                        | 6,145                        | -50.5%  | 1,732,506          | 1,524,613             | 13.6%    |
| CANADIAN DOLLAR      | 0                          | 0                          | 0.0%   | 0                | 0                | 0.00%    | 0                            | 4,597                        | -100.0% | 0                  | 183,080               | -100.0%  |
| CANADIAN DOLLAR (EU) | 0                          | 0                          | 0.0%   | 0                | 25               | -100.00% | 0                            | 0                            | 0.0%    | 63                 | 136                   | -53.7%   |
| CHF/USD PQO 2pm Fix  | 0                          | 0                          | 0.0%   | 852              | 2,504            | -65.97%  | 0                            | 0                            | 0.0%    | 29,719             | 36,975                | -19.6%   |
| EFX/JY CROSS RATES   | 0                          | -                          | -      | 0                | -                |          | 0                            | -                            | -       | 0                  | -                     | -        |
| EURO FX              | 0                          | 0                          | 0.0%   | 0                | 0                | 0.00%    | 0                            | 8,535                        | -100.0% | 0                  | 1,287,538             | -100.0%  |
| EURO FX (EU)         | 0                          | 0                          | 0.0%   | 0                | 16               | -100.00% | 0                            | 0                            | 0.0%    | 59                 | 505                   | -88.3%   |
| EUR/USD PQO 2pm Fix  | 2,327                      | 1,818                      | 28.0%  | 603,964          | 822,167          | -26.54%  | 15,854                       | 29,946                       | -47.1%  | 8,066,359          | 7,092,602             | 13.7%    |
| GBP/USD PQO 2pm Fix  | 260                        | 257                        | 1.2%   | 333,863          | 384,704          | -13.22%  | 912                          | 5,002                        | -81.8%  | 2,933,490          | 2,426,611             | 20.9%    |
| JAPANESE YEN         | 0                          | 0                          | 0.0%   | 0                | 0                | 0.00%    | 0                            | 8,468                        | -100.0% | 0                  | 544,469               | -100.0%  |
| JAPANESE YEN (EU)    | 0                          | 0                          | 0.0%   | 0                | 2                | -100.00% | 0                            | 0                            | 0.0%    | 0                  | 182                   | -100.0%  |
| JPY/USD PQO 2pm Fix  | 20                         | 725                        | -97.2% | 232,896          | 273,932          | -14.98%  | 4,485                        | 34,603                       | -87.0%  | 2,821,053          | 2,820,665             | 0.0%     |
| MEXICAN PESO         | 400                        | 180                        | 122.2% | 1,219            | 1,906            | -36.04%  | 6,118                        | 1,770                        | 245.6%  | 16,576             | 25,346                | -34.6%   |
| NEW ZEALND DOLLAR    | 0                          | -                          | -      | 1,017            | -                |          | 0                            | -                            | -       | 1,033              | -                     | -        |
| RUSSIAN RUBLE        | -                          | 0                          | 0.0%   | -                | 0                | 0.00%    | -                            | 0                            | 0.0%    | -                  | 0                     | 0.0%     |
| SWISS FRANC          | 0                          | 0                          | 0.0%   | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 0                  | 5,710                 | -100.0%  |
| SWISS FRANC (EU)     | 0                          | 0                          | 0.0%   | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 0                  | 15                    | -100.0%  |

|                    |   |   |      |   |   |       |   |   |      |   |   |      |
|--------------------|---|---|------|---|---|-------|---|---|------|---|---|------|
| <b>Ags Futures</b> |   |   |      |   |   |       |   |   |      |   |   |      |
| FERTILIZER PRODUCS | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |

|                                 |   |   |      |     |     |         |   |   |      |        |        |        |
|---------------------------------|---|---|------|-----|-----|---------|---|---|------|--------|--------|--------|
| <b>Foreign Exchange Futures</b> |   |   |      |     |     |         |   |   |      |        |        |        |
| CHILEAN PESO                    | 0 | 0 | 0.0% | 134 | 516 | -74.03% | 0 | 0 | 0.0% | 12,942 | 17,593 | -26.4% |

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## CME Group Exchange Volume Comparison Report - Monthly

|                                 | Open<br>Outcry<br>NOV 2018 | Open<br>Outcry<br>NOV 2017 | % CHG  | ELEC<br>NOV 2018 | ELEC<br>NOV 2017 | % CHG    | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG  | ELEC<br>Y.T.D 2018 | ELEC<br>Y.T.D<br>2017 | %<br>CHG |
|---------------------------------|----------------------------|----------------------------|--------|------------------|------------------|----------|------------------------------|------------------------------|--------|--------------------|-----------------------|----------|
| <b>Foreign Exchange Options</b> |                            |                            |        |                  |                  |          |                              |                              |        |                    |                       |          |
| AUD/USD PQO 2pm Fix             | 0                          | 0                          | 0.0%   | 479              | 634              | -24.45%  | 0                            | 0                            | 0.0%   | 9,681              | 634                   | 1,427.0% |
| <b>Ag Products Futures</b>      |                            |                            |        |                  |                  |          |                              |                              |        |                    |                       |          |
| BUTTER CS                       | 0                          | 0                          | 0.0%   | 4,440            | 3,548            | 25.14%   | 0                            | 0                            | 0.0%   | 47,001             | 35,369                | 32.9%    |
| CASH-SETTLED CHEESE             | 0                          | 0                          | 0.0%   | 13,239           | 15,258           | -13.23%  | 0                            | 0                            | 0.0%   | 120,259            | 113,436               | 6.0%     |
| CAT EURO SEASONAL STRIP         | -                          | 0                          | 0.0%   | -                | 0                | 0.00%    | -                            | 0                            | 0.0%   | -                  | 0                     | 0.0%     |
| CATTLE                          | 128                        | 1,342                      | -90.5% | 1,466,221        | 1,498,605        | -2.16%   | 12,971                       | 37,877                       | -65.8% | 15,294,230         | 15,097,606            | 1.3%     |
| CDD SEASONAL STRIP              | 0                          | 0                          | 0.0%   | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%   | 0                  | 0                     | 0.0%     |
| CDD WEATHER                     | 0                          | 0                          | 0.0%   | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%   | 0                  | 25                    | -100.0%  |
| CHI WHEAT                       | 6,896                      | 4,896                      | 40.8%  | 3,031,498        | 3,660,619        | -17.19%  | 147,612                      | 154,337                      | -4.4%  | 34,898,773         | 31,734,614            | 10.0%    |
| CLASS IV MILK                   | 3                          | 0                          | 0.0%   | 2,127            | 417              | 410.07%  | 3                            | 79                           | -96.2% | 8,418              | 10,013                | -15.9%   |
| COCOA TAS                       | 0                          | 0                          | 0.0%   | 0                | 1                | -100.00% | 0                            | 0                            | 0.0%   | 5                  | 87                    | -94.3%   |
| COFFEE                          | 0                          | 0                          | 0.0%   | 0                | 1                | -100.00% | 0                            | 0                            | 0.0%   | 0                  | 41                    | -100.0%  |
| CORN                            | 21,727                     | 26,157                     | -16.9% | 9,278,538        | 10,328,123       | -10.16%  | 357,667                      | 368,830                      | -3.0%  | 89,564,532         | 82,953,182            | 8.0%     |
| COTTON                          | 0                          | 0                          | 0.0%   | 1                | 3                | -66.67%  | 0                            | 0                            | 0.0%   | 21                 | 19                    | 10.5%    |
| DJ_UBS ROLL SELECT INDEX        | 0                          | 0                          | 0.0%   | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%   | 0                  | 0                     | 0.0%     |
| DOW-UBS COMMOD INDEX            | 0                          | 0                          | 0.0%   | 58,173           | 57,947           | 0.39%    | 0                            | 0                            | 0.0%   | 838,770            | 869,525               | -3.5%    |
| DRY WHEY                        | 0                          | 0                          | 0.0%   | 1,009            | 1,844            | -45.28%  | 0                            | 0                            | 0.0%   | 15,359             | 19,079                | -19.5%   |
| FEEDER CATTLE                   | 21                         | 13                         | 61.5%  | 226,098          | 248,088          | -8.86%   | 38                           | 538                          | -92.9% | 3,296,953          | 3,264,471             | 1.0%     |
| FERTILIZER PRODUCTS             | 0                          | 0                          | 0.0%   | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%   | 0                  | 0                     | 0.0%     |
| GOLDMAN SACHS                   | 0                          | 0                          | 0.0%   | 31,129           | 33,561           | -7.25%   | 0                            | 0                            | 0.0%   | 343,251            | 373,955               | -8.2%    |
| GSCI EXCESS RETURN FUT          | 0                          | 0                          | 0.0%   | 202              | 0                | 0.00%    | 0                            | 0                            | 0.0%   | 818                | 1,065                 | -23.2%   |
| HDD EURO SEASONAL STRIP         | 0                          | 0                          | 0.0%   | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%   | 0                  | 0                     | 0.0%     |
| HDD SEASONAL STRIP              | 0                          | 0                          | 0.0%   | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%   | 0                  | 0                     | 0.0%     |
| HDD WEATHER                     | 0                          | 0                          | 0.0%   | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%   | 55                 | 50                    | 10.0%    |
| HDD WEATHER EUROPEAN            | 0                          | 0                          | 0.0%   | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%   | 0                  | 50                    | -100.0%  |
| HOGS                            | 1,432                      | 3,438                      | -58.3% | 1,259,546        | 1,092,958        | 15.24%   | 17,211                       | 34,177                       | -49.6% | 12,760,457         | 10,428,534            | 22.4%    |
| HOUSING INDEX                   | 0                          | 0                          | 0.0%   | 11               | 2                | 450.00%  | 0                            | 0                            | 0.0%   | 100                | 133                   | -24.8%   |
| Intercommodity Spread           | 0                          | 0                          | 0.0%   | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%   | 0                  | 0                     | 0.0%     |
| KC WHEAT                        | 315                        | 532                        | -40.8% | 1,337,072        | 1,509,537        | -11.43%  | 12,435                       | 10,220                       | 21.7%  | 14,323,304         | 11,589,669            | 23.6%    |
| LUMBER                          | 0                          | 0                          | 0.0%   | 13,993           | 18,607           | -24.80%  | 0                            | 0                            | 0.0%   | 202,554            | 185,268               | 9.3%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                            | Open<br>Outcry<br>NOV 2018 | Open<br>Outcry<br>NOV 2017 | % CHG   | ELEC<br>NOV 2018 | ELEC<br>NOV 2017 | % CHG    | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG   | ELEC<br>Y.T.D 2018 | ELEC<br>Y.T.D<br>2017 | %<br>CHG |
|----------------------------|----------------------------|----------------------------|---------|------------------|------------------|----------|------------------------------|------------------------------|---------|--------------------|-----------------------|----------|
| <b>Ag Products Futures</b> |                            |                            |         |                  |                  |          |                              |                              |         |                    |                       |          |
| MALAYSIAN PALM SWAP        | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| MILK                       | 0                          | 1,829                      | -100.0% | 30,949           | 25,474           | 21.49%   | 1,239                        | 2,914                        | -57.5%  | 271,744            | 290,709               | -6.5%    |
| MINI CORN                  | 0                          | 0                          | 0.0%    | 12,003           | 14,781           | -18.79%  | 0                            | 0                            | 0.0%    | 112,705            | 110,107               | 2.4%     |
| MINI SOYBEAN               | 0                          | 0                          | 0.0%    | 24,396           | 15,324           | 59.20%   | 0                            | 0                            | 0.0%    | 252,870            | 186,223               | 35.8%    |
| MINI WHEAT                 | 0                          | 0                          | 0.0%    | 5,946            | 5,043            | 17.91%   | 0                            | 0                            | 0.0%    | 84,952             | 64,943                | 30.8%    |
| MLK MID OPTIONS            | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| NFD MILK                   | 0                          | 15                         | -100.0% | 5,784            | 3,915            | 47.74%   | 43                           | 29                           | 48.3%   | 55,682             | 54,958                | 1.3%     |
| OATS                       | 3                          | 0                          | 0.0%    | 19,766           | 18,315           | 7.92%    | 43                           | 80                           | -46.3%  | 157,180            | 145,203               | 8.2%     |
| PALM OIL                   | -                          | 0                          | 0.0%    | -                | 0                | 0.00%    | -                            | 0                            | 0.0%    | -                  | 0                     | 0.0%     |
| ROUGH RICE                 | 32                         | 0                          | 0.0%    | 6,833            | 15,162           | -54.93%  | 58                           | 0                            | 0.0%    | 197,345            | 234,246               | -15.8%   |
| SOYBEAN                    | 14,073                     | 11,118                     | 26.6%   | 3,331,046        | 3,579,275        | -6.94%   | 171,824                      | 158,162                      | 8.6%    | 51,779,288         | 46,860,074            | 10.5%    |
| SOYBEAN MEAL               | 1,636                      | 966                        | 69.4%   | 2,357,910        | 2,497,499        | -5.59%   | 36,624                       | 23,094                       | 58.6%   | 28,702,468         | 22,622,598            | 26.9%    |
| SOYBEAN OIL                | 369                        | 4,747                      | -92.2%  | 3,073,565        | 3,058,733        | 0.48%    | 15,854                       | 43,629                       | -63.7%  | 28,143,707         | 26,850,410            | 4.8%     |
| S&P GSCI ENHANCED ER SWA   | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| SUGAR 11                   | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 58                 | 42                    | 38.1%    |
| USD CRUDE PALM OIL         | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| WHEAT                      | 0                          | 0                          | 0.0%    | 0                | 118              | -100.00% | 0                            | 0                            | 0.0%    | 22                 | 119,222               | -100.0%  |
| <b>Ag Products Options</b> |                            |                            |         |                  |                  |          |                              |                              |         |                    |                       |          |
| AUG-DEC SOYBEAN MEAL CS    | -                          | 0                          | 0.0%    | -                | 0                | 0.00%    | -                            | 0                            | 0.0%    | -                  | 0                     | 0.0%     |
| AUG-NOV SOYBEAN CAL SPR    | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 103                          | -100.0% | 0                  | 0                     | 0.0%     |
| BUTTER CS                  | 196                        | 926                        | -78.8%  | 3,448            | 2,018            | 70.86%   | 10,712                       | 11,566                       | -7.4%   | 33,272             | 9,038                 | 268.1%   |
| CASH-SETTLED CHEESE        | 1,926                      | 3,897                      | -50.6%  | 6,100            | 9,474            | -35.61%  | 31,062                       | 50,431                       | -38.4%  | 78,368             | 52,729                | 48.6%    |
| CATTLE                     | 12,312                     | 30,719                     | -59.9%  | 149,990          | 215,294          | -30.33%  | 277,604                      | 538,580                      | -48.5%  | 2,217,257          | 2,171,611             | 2.1%     |
| CDD SEASONAL STRIP         | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| CDD WEATHER                | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| CHI WHEAT                  | 69,558                     | 91,117                     | -23.7%  | 467,792          | 389,583          | 20.08%   | 1,907,844                    | 1,601,843                    | 19.1%   | 6,939,226          | 5,480,439             | 26.6%    |
| CLASS IV MILK              | 307                        | 336                        | -8.6%   | 1,326            | 1,560            | -15.00%  | 1,088                        | 3,291                        | -66.9%  | 11,526             | 16,045                | -28.2%   |
| CORN                       | 286,978                    | 377,077                    | -23.9%  | 1,319,282        | 1,220,055        | 8.13%    | 5,967,025                    | 6,423,526                    | -7.1%   | 18,173,071         | 16,552,657            | 9.8%     |
| CORN NEARBY+2 CAL SPRD     | 4,730                      | 1,980                      | 138.9%  | 50               | 25               | 100.00%  | 30,718                       | 15,738                       | 95.2%   | 150                | 102                   | 47.1%    |
| DEC-DEC CORN CAL SPRD      | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 18,242                       | 11,786                       | 54.8%   | 33                 | 274                   | -88.0%   |
| DEC-JULY CORN CAL SPRD     | 2,075                      | 290                        | 615.5%  | 0                | 0                | 0.00%    | 18,499                       | 39,888                       | -53.6%  | 0                  | 0                     | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                            | Open<br>Outcry<br>NOV 2018 | Open<br>Outcry<br>NOV 2017 | % CHG    | ELEC<br>NOV 2018 | ELEC<br>NOV 2017 | % CHG    | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG    | ELEC<br>Y.T.D 2018 | ELEC<br>Y.T.D<br>2017 | %<br>CHG |
|----------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|-----------------------|----------|
| <b>Ag Products Options</b> |                            |                            |          |                  |                  |          |                              |                              |          |                    |                       |          |
| DEC-JULY WHEAT CAL SPRD    | 50                         | 399                        | -87.5%   | 0                | 10               | -100.00% | 1,744                        | 1,923                        | -9.3%    | 0                  | 210                   | -100.0%  |
| DRY WHEY                   | 0                          | 686                        | -100.0%  | 88               | 670              | -86.87%  | 1,355                        | 3,810                        | -64.4%   | 5,216              | 2,824                 | 84.7%    |
| FEEDER CATTLE              | 1,392                      | 3,012                      | -53.8%   | 23,307           | 25,316           | -7.94%   | 20,159                       | 48,334                       | -58.3%   | 298,254            | 329,777               | -9.6%    |
| HDD EURO SEASONAL STRIP    | 0                          | 0                          | 0.0%     | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%     | 0                  | 0                     | 0.0%     |
| HDD SEASONAL STRIP         | 0                          | 0                          | 0.0%     | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%     | 0                  | 0                     | 0.0%     |
| HDD WEATHER                | 0                          | 0                          | 0.0%     | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%     | 0                  | 0                     | 0.0%     |
| HDD WEATHER EUROPEAN       | 0                          | 0                          | 0.0%     | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%     | 0                  | 0                     | 0.0%     |
| HOGS                       | 33,769                     | 35,846                     | -5.8%    | 193,646          | 181,941          | 6.43%    | 304,284                      | 342,476                      | -11.2%   | 2,303,868          | 2,050,290             | 12.4%    |
| HOUSING INDEX              | 0                          | 0                          | 0.0%     | 0                | 4                | -100.00% | 0                            | 0                            | 0.0%     | 0                  | 46                    | -100.0%  |
| Intercommodity Spread      | 395                        | 0                          | 0.0%     | 0                | 0                | 0.00%    | 10,713                       | 701                          | 1,428.2% | 0                  | 0                     | 0.0%     |
| JAN-MAY SOYBEAN CAL SPRD   | 0                          | 0                          | 0.0%     | 0                | 0                | 0.00%    | 0                            | 36                           | -100.0%  | 0                  | 0                     | 0.0%     |
| JULY-DEC CORN CAL SPRD     | 400                        | 0                          | 0.0%     | 0                | 0                | 0.00%    | 10,576                       | 17,402                       | -39.2%   | 100                | 0                     | 0.0%     |
| JULY-DEC SOYMEAL CAL SPR   | 0                          | -                          | -        | 0                | -                | -        | 1,200                        | -                            | -        | 0                  | -                     | -        |
| JULY-DEC SOY OIL CAL SPRD  | 0                          | 0                          | 0.0%     | 0                | 0                | 0.00%    | 0                            | 630                          | -100.0%  | 0                  | 10                    | -100.0%  |
| JULY-DEC WHEAT CAL SPRD    | 200                        | 0                          | 0.0%     | 0                | 0                | 0.00%    | 2,165                        | 1,414                        | 53.1%    | 455                | 200                   | 127.5%   |
| JULY-JULY WHEAT CAL SPRD   | -                          | 0                          | 0.0%     | -                | 0                | 0.00%    | -                            | 0                            | 0.0%     | -                  | 0                     | 0.0%     |
| JULY-NOV SOYBEAN CAL SPR   | 780                        | 10                         | 7,700.0% | 17               | 0                | 0.00%    | 56,383                       | 69,350                       | -18.7%   | 2,615              | 1,317                 | 98.6%    |
| KC WHEAT                   | 14,442                     | 6,748                      | 114.0%   | 38,260           | 20,559           | 86.10%   | 344,095                      | 154,009                      | 123.4%   | 590,268            | 341,970               | 72.6%    |
| LUMBER                     | 7                          | 1                          | 600.0%   | 1,526            | 2,714            | -43.77%  | 223                          | 44                           | 406.8%   | 19,264             | 14,566                | 32.3%    |
| LV CATL CSO                | 14                         | 0                          | 0.0%     | 0                | 0                | 0.00%    | 316                          | 1,972                        | -84.0%   | 0                  | 0                     | 0.0%     |
| MAR-JULY CORN CAL SPRD     | 0                          | 0                          | 0.0%     | 0                | 0                | 0.00%    | 0                            | 70                           | -100.0%  | 0                  | 0                     | 0.0%     |
| MAR-JULY WHEAT CAL SPRD    | 0                          | 200                        | -100.0%  | 0                | 0                | 0.00%    | 200                          | 1,493                        | -86.6%   | 0                  | 76                    | -100.0%  |
| MILK                       | 2,325                      | 16,315                     | -85.7%   | 35,040           | 25,543           | 37.18%   | 61,007                       | 133,144                      | -54.2%   | 326,415            | 259,504               | 25.8%    |
| MLK MID OPTIONS            | 6                          | 142                        | -95.8%   | 1                | 0                | 0.00%    | 431                          | 756                          | -43.0%   | 28                 | 0                     | 0.0%     |
| NFD MILK                   | 456                        | 1,610                      | -71.7%   | 5,258            | 3,087            | 70.33%   | 9,116                        | 15,909                       | -42.7%   | 46,028             | 32,108                | 43.4%    |
| NOV-JULY SOYBEAN CAL SPR   | 0                          | 0                          | 0.0%     | 0                | 0                | 0.00%    | 1                            | 1,696                        | -99.9%   | 0                  | 0                     | 0.0%     |
| NOV-MAR SOYBEAN CSO        | 0                          | -                          | -        | 0                | -                | -        | 130                          | -                            | -        | 0                  | -                     | -        |
| NOV-NOV SOYBEAN CAL SPR    | 0                          | 0                          | 0.0%     | 0                | 0                | 0.00%    | 118                          | 164                          | -28.0%   | 0                  | 0                     | 0.0%     |
| OATS                       | 190                        | 615                        | -69.1%   | 460              | 381              | 20.73%   | 2,093                        | 6,116                        | -65.8%   | 4,316              | 7,328                 | -41.1%   |
| ROUGH RICE                 | 431                        | 1,180                      | -63.5%   | 463              | 1,460            | -68.29%  | 8,411                        | 11,715                       | -28.2%   | 8,920              | 12,102                | -26.3%   |
| SEP-DEC SOYBEAN MEAL CSC   | 0                          | -                          | -        | 0                | -                | -        | 1,170                        | -                            | -        | 0                  | -                     | -        |
| SOYBEAN                    | 187,517                    | 222,048                    | -15.6%   | 1,141,028        | 954,565          | 19.53%   | 3,181,841                    | 3,230,645                    | -1.5%    | 14,659,940         | 12,589,797            | 16.4%    |
| SOYBEAN CRUSH              | 0                          | 76                         | -100.0%  | 0                | 0                | 0.00%    | 185                          | 716                          | -74.2%   | 0                  | 0                     | 0.0%     |
| SOYBEAN MEAL               | 38,466                     | 52,190                     | -26.3%   | 105,046          | 119,298          | -11.95%  | 1,044,245                    | 590,775                      | 76.8%    | 2,032,566          | 1,315,840             | 54.5%    |

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## CME Group Exchange Volume Comparison Report - Monthly

|                            | Open<br>Outcry<br>NOV 2018 | Open<br>Outcry<br>NOV 2017 | % CHG        | ELEC<br>NOV 2018   | ELEC<br>NOV 2017   | % CHG        | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG        | ELEC<br>Y.T.D 2018   | ELEC<br>Y.T.D<br>2017 | %<br>CHG     |
|----------------------------|----------------------------|----------------------------|--------------|--------------------|--------------------|--------------|------------------------------|------------------------------|--------------|----------------------|-----------------------|--------------|
| <b>Ag Products Options</b> |                            |                            |              |                    |                    |              |                              |                              |              |                      |                       |              |
| SOYBEAN OIL                | 26,110                     | 93,902                     | -72.2%       | 99,010             | 100,708            | -1.69%       | 402,997                      | 885,990                      | -54.5%       | 905,312              | 1,047,007             | -13.5%       |
| SOYBN NEARBY+2 CAL SPRD    | 0                          | 0                          | 0.0%         | 0                  | 0                  | 0.00%        | 10                           | 460                          | -97.8%       | 0                    | 600                   | -100.0%      |
| SOYMEAL NEARBY+2 CAL SPR   | 0                          | 0                          | 0.0%         | 0                  | 0                  | 0.00%        | 8,415                        | 0                            | 0.0%         | 0                    | 0                     | 0.0%         |
| WHEAT                      | 77                         | 50                         | 54.0%        | 0                  | 50                 | -100.00%     | 2,987                        | 1,047                        | 185.3%       | 335                  | 503                   | -33.4%       |
| WHEAT-CORN ICSD            | 0                          | 1,015                      | -100.0%      | 0                  | 0                  | 0.00%        | 5,780                        | 6,550                        | -11.8%       | 0                    | 6                     | -100.0%      |
| WHEAT NEARBY+2 CAL SPRD    | 255                        | 1,135                      | -77.5%       | 50                 | 260                | -80.77%      | 9,487                        | 12,926                       | -26.6%       | 4,531                | 4,367                 | 3.8%         |
| <b>TOTAL FUTURES GROUP</b> |                            |                            |              |                    |                    |              |                              |                              |              |                      |                       |              |
| Interest Rate Futures      | 907,089                    | 816,818                    | 11.1%        | 187,295,825        | 148,544,446        | 26.1%        | 10,841,480                   | 8,839,939                    | 22.6%        | 1,681,665,617        | 1,371,795,784         | 22.6%        |
| Equity Index Futures       | 15,177                     | 22,303                     | -32.0%       | 59,908,519         | 40,804,412         | 46.8%        | 425,797                      | 698,482                      | -39.0%       | 604,236,466          | 451,604,827           | 33.8%        |
| Metals Futures             | 0                          | 0                          | 0.0%         | 11,573,561         | 14,394,620         | -19.6%       | 0                            | 0                            | 0.0%         | 134,610,690          | 117,570,817           | 14.5%        |
| Energy Futures             | 0                          | 0                          | 0.0%         | 52,305,189         | 45,580,440         | 14.8%        | 0                            | 0                            | 0.0%         | 494,019,740          | 484,627,273           | 1.9%         |
| FX Futures                 | 6                          | 198                        | -97.0%       | 17,386,962         | 17,358,251         | 0.2%         | 710                          | 16,281                       | -95.6%       | 212,824,220          | 189,978,098           | 12.0%        |
| Ags Futures                | 0                          | 0                          | 0.0%         | 0                  | 0                  | 0.0%         | 0                            | 0                            | 0.0%         | 0                    | 0                     | 0.0%         |
| Foreign Exchange Futures   | 0                          | 0                          | 0.0%         | 134                | 516                | -74.0%       | 0                            | 0                            | 0.0%         | 12,942               | 17,593                | -26.4%       |
| Ag Products Futures        | 46,635                     | 55,053                     | -15.3%       | 25,591,495         | 27,702,758         | -7.6%        | 773,622                      | 833,966                      | -7.2%        | 281,472,881          | 254,214,926           | 10.7%        |
| <b>TOTAL FUTURES</b>       | <b>968,907</b>             | <b>894,372</b>             | <b>8.3%</b>  | <b>354,061,685</b> | <b>294,385,443</b> | <b>20.3%</b> | <b>12,041,609</b>            | <b>10,388,668</b>            | <b>15.9%</b> | <b>3,408,842,556</b> | <b>2,869,809,318</b>  | <b>18.8%</b> |
| <b>TOTAL OPTIONS GROUP</b> |                            |                            |              |                    |                    |              |                              |                              |              |                      |                       |              |
| Equity Index Options       | 908,376                    | 1,408,716                  | -35.5%       | 15,914,377         | 14,501,061         | 9.7%         | 11,018,123                   | 12,570,899                   | -12.4%       | 177,006,346          | 143,070,517           | 23.7%        |
| Interest Rate Options      | 19,668,514                 | 19,357,662                 | 1.6%         | 34,968,574         | 21,571,586         | 62.1%        | 234,523,490                  | 221,454,231                  | 5.9%         | 296,980,274          | 245,790,684           | 20.8%        |
| Metals Options             | 0                          | 0                          | 0.0%         | 939,996            | 689,824            | 36.3%        | 0                            | 0                            | 0.0%         | 10,725,260           | 8,501,517             | 26.2%        |
| Energy Options             | 0                          | 0                          | 0.0%         | 7,177,246          | 5,475,578          | 31.1%        | 0                            | 0                            | 0.0%         | 50,981,422           | 47,972,944            | 6.3%         |
| FX Options                 | 3,341                      | 3,925                      | -14.9%       | 1,443,071          | 1,721,990          | -16.2%       | 31,009                       | 108,179                      | -71.3%       | 17,006,386           | 17,798,251            | -4.4%        |
| Ag Products Options        | 685,364                    | 943,522                    | -27.4%       | 3,591,188          | 3,274,575          | 9.7%         | 13,754,631                   | 14,239,025                   | -3.4%        | 48,661,334           | 42,293,343            | 15.1%        |
| Foreign Exchange Options   | 0                          | 0                          | 0.0%         | 479                | 634                | -24.4%       | 0                            | 0                            | 0.0%         | 9,681                | 634                   | 1,427.0%     |
| <b>TOTAL OPTIONS</b>       | <b>21,265,595</b>          | <b>21,713,825</b>          | <b>-2.1%</b> | <b>64,034,931</b>  | <b>47,235,248</b>  | <b>35.6%</b> | <b>259,327,253</b>           | <b>248,372,334</b>           | <b>4.4%</b>  | <b>601,370,703</b>   | <b>505,427,890</b>    | <b>19.0%</b> |

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## CME Group Exchange Volume Comparison Report - Monthly

|                       | Open<br>Outcry<br>NOV 2018 | Open<br>Outcry<br>NOV 2017 | % CHG        | ELEC<br>NOV 2018   | ELEC<br>NOV 2017   | % CHG        | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG       | ELEC<br>Y.T.D 2018   | ELEC<br>Y.T.D<br>2017 | %<br>CHG     |
|-----------------------|----------------------------|----------------------------|--------------|--------------------|--------------------|--------------|------------------------------|------------------------------|-------------|----------------------|-----------------------|--------------|
| <b>TOTAL COMBINED</b> |                            |                            |              |                    |                    |              |                              |                              |             |                      |                       |              |
| Interest Rate         | 20,575,603                 | 20,174,480                 | 2.0%         | 222,264,399        | 170,116,032        | 30.7%        | 245,364,970                  | 230,294,170                  | 6.5%        | 1,978,645,891        | 1,617,586,468         | 22.3%        |
| Equity Index          | 923,553                    | 1,431,019                  | -35.5%       | 75,822,896         | 55,305,473         | 37.1%        | 11,443,920                   | 13,269,381                   | -13.8%      | 781,242,812          | 594,675,344           | 31.4%        |
| Metals                | 0                          | 0                          | 0.0%         | 12,513,557         | 15,084,444         | -17.0%       | 0                            | 0                            | 0.0%        | 145,335,950          | 126,072,334           | 15.3%        |
| Energy                | 0                          | 0                          | 0.0%         | 59,482,435         | 51,056,018         | 16.5%        | 0                            | 0                            | 0.0%        | 545,001,162          | 532,600,217           | 2.3%         |
| FX                    | 3,347                      | 4,123                      | -18.8%       | 18,830,033         | 19,080,241         | -1.3%        | 31,719                       | 124,460                      | -74.5%      | 229,830,606          | 207,776,349           | 10.6%        |
| Ags                   | 0                          | 0                          | 0.0%         | 0                  | 0                  | 0.0%         | 0                            | 0                            | 0.0%        | 0                    | 0                     | 0.0%         |
| Foreign Exchange      | 0                          | 0                          | 0.0%         | 613                | 1,150              | -46.7%       | 0                            | 0                            | 0.0%        | 22,623               | 18,227                | 24.1%        |
| Ag Products           | 731,999                    | 998,575                    | -26.7%       | 29,182,683         | 30,977,333         | -5.8%        | 14,528,253                   | 15,072,991                   | -3.6%       | 330,134,215          | 296,508,269           | 11.3%        |
| <b>GRAND TOTAL</b>    | <b>22,234,502</b>          | <b>22,608,197</b>          | <b>-1.7%</b> | <b>418,096,616</b> | <b>341,620,691</b> | <b>22.4%</b> | <b>271,368,862</b>           | <b>258,761,002</b>           | <b>4.9%</b> | <b>4,010,213,259</b> | <b>3,375,237,208</b>  | <b>18.8%</b> |

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