

## CME Group Exchange Volume Comparison Report - Monthly

|                              | Open<br>Outcry<br>OCT 2017 | Open<br>Outcry<br>OCT 2016 | % CHG   | ELEC<br>OCT 2017 | ELEC<br>OCT 2016 | % CHG | Open<br>Outcry<br>Y.T.D 2017 | Open<br>Outcry<br>Y.T.D 2016 | % CHG  | ELEC<br>Y.T.D 2017 | ELEC<br>Y.T.D<br>2016 | %<br>CHG |
|------------------------------|----------------------------|----------------------------|---------|------------------|------------------|-------|------------------------------|------------------------------|--------|--------------------|-----------------------|----------|
| <b>Interest Rate Futures</b> |                            |                            |         |                  |                  |       |                              |                              |        |                    |                       |          |
| 30-YR BOND                   | 12,855                     | 19,505                     | -34.1%  | 5,536,559        | 4,932,431        | 0.12  | 167,684                      | 199,311                      | -15.9% | 58,691,259         | 55,738,326            | 5.3%     |
| 10-YR NOTE                   | 125,903                    | 100,381                    | 25.4%   | 27,741,687       | 22,222,540       | 0.25  | 1,273,467                    | 1,383,582                    | -8.0%  | 300,792,690        | 272,721,002           | 10.3%    |
| 5-YR NOTE                    | 20,873                     | 27,677                     | -24.6%  | 14,310,343       | 10,912,212       | 0.31  | 217,838                      | 286,250                      | -23.9% | 174,382,682        | 150,240,779           | 16.1%    |
| 2-YR NOTE                    | 1,245                      | 1,010                      | 23.3%   | 6,217,267        | 5,145,205        | 0.21  | 16,890                       | 9,103                        | 85.5%  | 69,979,446         | 61,584,066            | 13.6%    |
| FED FUND                     | 0                          | 225                        | -100.0% | 2,926,454        | 2,270,364        | 0.29  | 30                           | 225                          | -86.7% | 41,869,427         | 27,697,916            | 51.2%    |
| EURODOLLARS                  | 805,345                    | 406,790                    | 98.0%   | 50,635,232       | 41,410,245       | 0.22  | 6,347,189                    | 5,316,332                    | 19.4%  | 529,982,361        | 497,283,263           | 6.6%     |
| 5-YR SWAP RATE               | 0                          | 0                          | 0.0%    | 28,117           | 37,472           | -0.25 | 0                            | 0                            | 0.0%   | 441,246            | 566,834               | -22.2%   |
| 2-YR SWAP RATE               | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%   | 0                  | 4,414                 | -100.0%  |
| 10-YR SWAP RATE              | 0                          | 0                          | 0.0%    | 31,887           | 33,041           | -0.03 | 0                            | 0                            | 0.0%   | 433,592            | 449,862               | -3.6%    |
| 7-YR SWAP                    | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%   | 0                  | 3,052                 | -100.0%  |
| 1-MONTH EURODOLLAR           | 0                          | 0                          | 0.0%    | 2,091            | 391              | 4.35  | 0                            | 0                            | 0.0%   | 47,355             | 10,712                | 342.1%   |
| ULTRA T-BOND                 | 0                          | 371                        | -100.0% | 2,181,422        | 1,565,729        | 0.39  | 15                           | 497                          | -97.0% | 24,778,408         | 21,154,561            | 17.1%    |
| Ultra 10-Year Note           | 0                          | 0                          | 0.0%    | 2,253,390        | 1,272,000        | 0.77  | 8                            | 28                           | -71.4% | 21,842,622         | 11,434,190            | 91.0%    |
| 30-YR SWAP RATE              | 0                          | 0                          | 0.0%    | 172              | 876              | -0.8  | 0                            | 0                            | 0.0%   | 10,250             | 16,550                | -38.1%   |
| 2YR BUNDLE                   | -                          | 0                          | 0.0%    | -                | 0                | 0     | -                            | 0                            | 0.0%   | -                  | 0                     | 0.0%     |
| 3YR BUNDLE                   | -                          | 0                          | 0.0%    | -                | 0                | 0     | -                            | 0                            | 0.0%   | -                  | 0                     | 0.0%     |
| EURO 5YR BUNDLE              | -                          | 0                          | 0.0%    | -                | 0                | 0     | -                            | 0                            | 0.0%   | -                  | 0                     | 0.0%     |
| <b>Interest Rate Options</b> |                            |                            |         |                  |                  |       |                              |                              |        |                    |                       |          |
| 30-YR BOND                   | 231,867                    | 363,451                    | -36.2%  | 2,034,755        | 1,333,267        | 0.53  | 2,600,957                    | 2,971,850                    | -12.5% | 20,461,675         | 14,346,441            | 42.6%    |
| 10-YR NOTE                   | 2,102,071                  | 1,679,614                  | 25.2%   | 10,549,751       | 4,840,895        | 1.18  | 22,201,926                   | 22,141,718                   | 0.3%   | 86,330,061         | 51,702,151            | 67.0%    |
| 5-YR NOTE                    | 512,806                    | 428,893                    | 19.6%   | 2,356,779        | 866,826          | 1.72  | 5,462,214                    | 6,271,855                    | -12.9% | 19,827,494         | 12,758,124            | 55.4%    |
| 2-YR NOTE                    | 61,017                     | 69,735                     | -12.5%  | 177,997          | 48,123           | 2.7   | 636,589                      | 441,876                      | 44.1%  | 1,100,687          | 1,011,460             | 8.8%     |
| FED FUND                     | 1,000                      | 2,350                      | -57.4%  | 10               | 10               | 0     | 15,398                       | 70,351                       | -78.1% | 1,417              | 13,319                | -89.4%   |
| EURODOLLARS                  | 7,772,111                  | 6,429,982                  | 20.9%   | 3,471,967        | 2,316,002        | 0.5   | 82,939,316                   | 100,866,717                  | -17.8% | 39,377,920         | 29,160,616            | 35.0%    |
| EURO MIDCURVE                | 11,478,636                 | 5,057,832                  | 126.9%  | 8,437,344        | 2,152,778        | 2.92  | 88,227,561                   | 63,486,778                   | 39.0%  | 57,093,404         | 28,464,848            | 100.6%   |
| ULTRA T-BOND                 | 166                        | 7,682                      | -97.8%  | 3,824            | 6,452            | -0.41 | 10,956                       | 26,096                       | -58.0% | 19,605             | 47,951                | -59.1%   |
| Ultra 10-Year Note           | 700                        | 3,900                      | -82.1%  | 0                | 2,320            | -1    | 1,652                        | 9,475                        | -82.6% | 6,835              | 17,816                | -61.6%   |

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|                             | Open<br>Outcry<br>OCT 2017 | Open<br>Outcry<br>OCT 2016 | % CHG  | ELEC<br>OCT 2017 | ELEC<br>OCT 2016 | % CHG  | Open<br>Outcry<br>Y.T.D 2017 | Open<br>Outcry<br>Y.T.D 2016 | % CHG  | ELEC<br>Y.T.D 2017 | ELEC<br>Y.T.D<br>2016 | %<br>CHG |
|-----------------------------|----------------------------|----------------------------|--------|------------------|------------------|--------|------------------------------|------------------------------|--------|--------------------|-----------------------|----------|
| <b>Equity Index Futures</b> |                            |                            |        |                  |                  |        |                              |                              |        |                    |                       |          |
| DJIA                        | -                          | 0                          | 0.0%   | -                | 0                | 0      | -                            | 0                            | 0.0%   | -                  | 0                     | 0.0%     |
| E-MINI S&P500               | 0                          | 0                          | 0.0%   | 24,289,311       | 32,449,166       | -0.25  | 0                            | 0                            | 0.0%   | 306,201,773        | 397,271,642           | -22.9%   |
| S&P 500                     | 11,070                     | 35,316                     | -68.7% | 4,715            | 5,535            | -0.15  | 676,179                      | 1,113,843                    | -39.3% | 43,881             | 99,334                | -55.8%   |
| S&P 600 SMALLCAP EMINI      | -                          | 0                          | 0.0%   | -                | 0                | 0      | -                            | 0                            | 0.0%   | -                  | 0                     | 0.0%     |
| E-MINI MIDCAP               | 0                          | 0                          | 0.0%   | 224,115          | 327,545          | -0.32  | 0                            | 0                            | 0.0%   | 3,482,528          | 4,326,961             | -19.5%   |
| S&P 400 MIDCAP              | -                          | 0                          | 0.0%   | -                | 0                | 0      | -                            | 0                            | 0.0%   | -                  | 0                     | 0.0%     |
| S&P 500 GROWTH              | 0                          | 0                          | 0.0%   | 18               | 12               | 0.5    | 0                            | 0                            | 0.0%   | 250                | 220                   | 13.6%    |
| S&P 500/VALUE               | 0                          | 0                          | 0.0%   | 5,216            | 300              | 16.39  | 0                            | 0                            | 0.0%   | 72,576             | 27,502                | 163.9%   |
| E-MINI RUSSELL 2000         | 0                          | -                          | -      | 1,641,751        | -                | -      | 0                            | -                            | -      | 5,046,192          | -                     | -        |
| E-MINI RUSSELL 1000         | 0                          | 0                          | 0.0%   | 4,463            | 131              | 33.07  | 0                            | 0                            | 0.0%   | 21,702             | 4,154                 | 422.4%   |
| E-MINI NASDAQ 100           | 0                          | 0                          | 0.0%   | 5,458,936        | 4,683,119        | 0.17   | 0                            | 0                            | 0.0%   | 56,058,796         | 55,282,711            | 1.4%     |
| NASDAQ                      | -                          | 0                          | 0.0%   | -                | 0                | 0      | -                            | 0                            | 0.0%   | -                  | 0                     | 0.0%     |
| NIKKEI 225 (\$) STOCK       | 0                          | 0                          | 0.0%   | 245,441          | 193,521          | 0.27   | 0                            | 0                            | 0.0%   | 2,598,198          | 3,686,694             | -29.5%   |
| NIKKEI 225 (YEN) STOCK      | 0                          | 0                          | 0.0%   | 868,933          | 847,860          | 0.02   | 0                            | 0                            | 0.0%   | 8,918,421          | 12,402,461            | -28.1%   |
| DJ US REAL ESTATE           | 0                          | 0                          | 0.0%   | 16,623           | 8,364            | 0.99   | 0                            | 0                            | 0.0%   | 158,209            | 112,930               | 40.1%    |
| NASDAQ BIOTECH              | 0                          | 0                          | 0.0%   | 0                | 18               | -1     | 0                            | 0                            | 0.0%   | 0                  | 18                    | -100.0%  |
| E-MICRO NIFTY               | -                          | 0                          | 0.0%   | -                | 0                | 0      | -                            | 0                            | 0.0%   | -                  | 0                     | 0.0%     |
| S&P CONSUMER STAPLES SE     | 0                          | 0                          | 0.0%   | 5,487            | 5,343            | 0.03   | 0                            | 0                            | 0.0%   | 84,037             | 75,013                | 12.0%    |
| S&P HEALTH CARE SECTOR      | 0                          | 0                          | 0.0%   | 4,508            | 4,393            | 0.03   | 0                            | 0                            | 0.0%   | 88,502             | 74,655                | 18.5%    |
| S&P TECHNOLOGY SECTOR       | 0                          | 0                          | 0.0%   | 4,466            | 2,166            | 1.06   | 0                            | 0                            | 0.0%   | 53,858             | 47,935                | 12.4%    |
| S&P INDUSTRIAL SECTOR       | 0                          | 0                          | 0.0%   | 4,172            | 2,005            | 1.08   | 0                            | 0                            | 0.0%   | 46,425             | 27,507                | 68.8%    |
| S&P CONSUMER DSCRTNRY S     | 0                          | 0                          | 0.0%   | 4,379            | 6,074            | -0.28  | 0                            | 0                            | 0.0%   | 42,165             | 50,026                | -15.7%   |
| S&P UTILITIES SECTOR        | 0                          | 0                          | 0.0%   | 8,138            | 11,646           | -0.3   | 0                            | 0                            | 0.0%   | 144,639            | 119,285               | 21.3%    |
| S&P FINANCIAL SECTOR        | 0                          | 0                          | 0.0%   | 9,071            | 6,370            | 0.42   | 0                            | 0                            | 0.0%   | 152,303            | 69,372                | 119.5%   |
| S&P ENERGY SECTOR           | 0                          | 0                          | 0.0%   | 5,220            | 9,077            | -0.42  | 0                            | 0                            | 0.0%   | 100,977            | 93,829                | 7.6%     |
| S&P MATERIALS SECTOR        | 0                          | 0                          | 0.0%   | 4,823            | 4,279            | 0.13   | 0                            | 0                            | 0.0%   | 58,564             | 44,881                | 30.5%    |
| E-MINI RUSSELL 1000 GROWT   | 0                          | 0                          | 0.0%   | 2,493            | 16               | 154.81 | 0                            | 0                            | 0.0%   | 14,653             | 2,626                 | 458.0%   |
| FT-SE 100                   | 0                          | 0                          | 0.0%   | 799              | 554              | 0.44   | 0                            | 0                            | 0.0%   | 5,530              | 6,435                 | -14.1%   |
| IBOVESPA INDEX              | 0                          | 0                          | 0.0%   | 1,011            | 1,204            | -0.16  | 0                            | 0                            | 0.0%   | 6,398              | 7,202                 | -11.2%   |
| E-MINI RUSSELL 1000 VALUE   | 0                          | 0                          | 0.0%   | 3,347            | 49               | 67.31  | 0                            | 0                            | 0.0%   | 22,487             | 4,354                 | 416.5%   |
| NIFTY 50                    | 0                          | 0                          | 0.0%   | 14,123           | 13,294           | 0.06   | 0                            | 0                            | 0.0%   | 117,121            | 104,071               | 12.5%    |
| E-MINI S&P REAL ESTATE SEL  | 0                          | 0                          | 0.0%   | 2,064            | 492              | 3.2    | 0                            | 0                            | 0.0%   | 25,431             | 1,567                 | 1,522.9% |
| E-mini (\$5) Dow            | 0                          | 0                          | 0.0%   | 2,136,239        | 3,268,255        | -0.35  | 0                            | 0                            | 0.0%   | 27,218,477         | 35,631,418            | -23.6%   |
| E-mini FTSE China 50        | 0                          | 0                          | 0.0%   | 1,842            | 799              | 1.31   | 0                            | 0                            | 0.0%   | 14,887             | 8,583                 | 73.4%    |

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| <b>Equity Index Futures</b> |                            |                            |       |                  |                  |       |                              |                              |        |                    |                       |          |
| E-mini FTSE 100 (USD)       | 0                          | 0                          | 0.0%  | 593              | 0                | 0     | 0                            | 0                            | 0.0%   | 979                | 373                   | 162.5%   |
| FTSE Emerging               | 0                          | 0                          | 0.0%  | 187              | 67               | 1.79  | 0                            | 0                            | 0.0%   | 456                | 1,424                 | -68.0%   |
| <b>Equity Index Options</b> |                            |                            |       |                  |                  |       |                              |                              |        |                    |                       |          |
| DJIA                        | -                          | 0                          | 0.0%  | -                | 0                | 0     | -                            | 0                            | 0.0%   | -                  | 0                     | 0.0%     |
| E-MINI S&P500               | 0                          | 0                          | 0.0%  | 3,657,995        | 2,354,131        | 0.55  | 1,935                        | 110,315                      | -98.2% | 41,359,116         | 48,540,395            | -14.8%   |
| S&P 500                     | 275,881                    | 140,050                    | 97.0% | 0                | 0                | 0     | 3,138,052                    | 5,028,143                    | -37.6% | 0                  | 0                     | 0.0%     |
| E-MINI MIDCAP               | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%   | 0                  | 17                    | -100.0%  |
| E-MINI RUSSELL 2000         | 0                          | -                          | -     | 12,380           | -                | -     | 0                            | -                            | -      | 22,206             | -                     | -        |
| E-MINI NASDAQ 100           | 0                          | 0                          | 0.0%  | 292,479          | 190,796          | 0.53  | 0                            | 0                            | 0.0%   | 2,339,933          | 2,204,915             | 6.1%     |
| NASDAQ                      | -                          | 0                          | 0.0%  | -                | 0                | 0     | -                            | 0                            | 0.0%   | -                  | 0                     | 0.0%     |
| EOM S&P 500                 | 217,950                    | 134,824                    | 61.7% | 0                | 0                | 0     | 1,832,844                    | 1,736,724                    | 5.5%   | 0                  | 0                     | 0.0%     |
| EOM EMINI S&P               | 0                          | 0                          | 0.0%  | 1,962,598        | 1,355,515        | 0.45  | 0                            | 0                            | 0.0%   | 19,918,687         | 16,398,398            | 21.5%    |
| EOW1 S&P 500                | 104,396                    | 93,078                     | 12.2% | 0                | 0                | 0     | 874,056                      | 625,217                      | 39.8%  | 0                  | 0                     | 0.0%     |
| EOW1 EMINI S&P 500          | 0                          | 0                          | 0.0%  | 1,082,551        | 1,184,812        | -0.09 | 0                            | 0                            | 0.0%   | 10,558,773         | 9,957,828             | 6.0%     |
| EOW2 S&P 500                | 206,966                    | 111,845                    | 85.0% | 0                | 0                | 0     | 1,668,096                    | 1,290,611                    | 29.2%  | 0                  | 0                     | 0.0%     |
| EOW2 EMINI S&P 500          | 0                          | 0                          | 0.0%  | 916,206          | 1,115,305        | -0.18 | 0                            | 0                            | 0.0%   | 10,531,587         | 10,198,371            | 3.3%     |
| EOW4 EMINI S&P 500          | 0                          | 0                          | 0.0%  | 1,083,350        | 928,897          | 0.17  | 0                            | 0                            | 0.0%   | 9,643,492          | 11,196,423            | -13.9%   |
| EOW3 S&P 500                | 469,573                    | 434,322                    | 8.1%  | 0                | 0                | 0     | 3,644,200                    | 2,472,843                    | 47.4%  | 0                  | 0                     | 0.0%     |
| EOW3 EMINI S&P 500          | 0                          | 0                          | 0.0%  | 3,490,647        | 4,397,999        | -0.21 | 3,000                        | 27,000                       | -88.9% | 34,061,586         | 20,066,091            | 69.7%    |
| E-mini (\$5) Dow            | 0                          | 0                          | 0.0%  | 7,372            | 5,324            | 0.38  | 0                            | 0                            | 0.0%   | 54,300             | 107,773               | -49.6%   |
| EOW2 E-MINI RUSSELL 2000 W  | 0                          | -                          | -     | 4,268            | -                | -     | 0                            | -                            | -      | 6,668              | -                     | -        |
| EOW1 E-MINI RUSSELL 2000 W  | 0                          | -                          | -     | 2,456            | -                | -     | 0                            | -                            | -      | 4,935              | -                     | -        |
| EOM E-MINI RUSSELL 2000 EN  | 0                          | -                          | -     | 1,678            | -                | -     | 0                            | -                            | -      | 11,525             | -                     | -        |
| EOW3 E-MINI RUSSELL 2000 W  | 0                          | -                          | -     | 20,186           | -                | -     | 0                            | -                            | -      | 43,338             | -                     | -        |
| EOW1 E-MINI RUSSELL 2000 W  | 0                          | -                          | -     | 2,650            | -                | -     | 0                            | -                            | -      | 4,861              | -                     | -        |
| EOW4 E-MINI RUSSELL 2000 W  | 0                          | -                          | -     | 5,357            | -                | -     | 0                            | -                            | -      | 8,449              | -                     | -        |

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|----------------------------|----------------------------|----------------------------|---------|------------------|------------------|-------|------------------------------|------------------------------|---------|--------------------|-----------------------|----------|
| <b>Metals Futures</b>      |                            |                            |         |                  |                  |       |                              |                              |         |                    |                       |          |
| COMEX GOLD                 | 0                          | 2,713                      | -100.0% | 6,514,119        | 3,574,211        | 0.82  | 0                            | 90,777                       | -100.0% | 57,040,397         | 44,394,106            | 28.5%    |
| COMEX MINY COPPER          | 0                          | 0                          | 0.0%    | 459              | 239              | 0.92  | 0                            | 0                            | 0.0%    | 7,013              | 5,043                 | 39.1%    |
| COMEX SILVER               | 0                          | 253                        | -100.0% | 1,793,724        | 1,299,064        | 0.38  | 0                            | 9,675                        | -100.0% | 18,674,763         | 14,471,128            | 29.0%    |
| COMEX COPPER               | 0                          | 72                         | -100.0% | 2,395,581        | 1,490,243        | 0.61  | 0                            | 922                          | -100.0% | 21,448,557         | 16,380,972            | 30.9%    |
| NYMEX HOT ROLLED STEEL     | 0                          | 0                          | 0.0%    | 1,157            | 404              | 1.86  | 0                            | 0                            | 0.0%    | 3,905              | 4,593                 | -15.0%   |
| NYMEX PLATINUM             | 0                          | 0                          | 0.0%    | 335,247          | 288,495          | 0.16  | 0                            | 38                           | -100.0% | 3,778,453          | 3,072,367             | 23.0%    |
| URANIUM                    | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 427                | 993                   | -57.0%   |
| PALLADIUM                  | 0                          | 0                          | 0.0%    | 83,314           | 106,495          | -0.22 | 0                            | 63                           | -100.0% | 1,116,591          | 1,071,610             | 4.2%     |
| E-MICRO GOLD               | 0                          | 0                          | 0.0%    | 106,238          | 52,304           | 1.03  | 0                            | 0                            | 0.0%    | 946,127            | 821,509               | 15.2%    |
| GOLD                       | 0                          | -                          | -       | 0                | -                |       | 0                            | -                            | -       | 1                  | -                     | -        |
| ALUMINUM                   | 0                          | 0                          | 0.0%    | 191              | 1,229            | -0.84 | 0                            | 0                            | 0.0%    | 6,846              | 15,333                | -55.4%   |
| COPPER                     | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| SILVER                     | 0                          | 0                          | 0.0%    | 4,985            | 5,630            | -0.11 | 0                            | 0                            | 0.0%    | 58,404             | 83,606                | -30.1%   |
| Gold Kilo                  | 0                          | 0                          | 0.0%    | 153              | 3,711            | -0.96 | 0                            | 0                            | 0.0%    | 3,276              | 47,646                | -93.1%   |
| COMEX E-Mini SILVER        | 0                          | 0                          | 0.0%    | 471              | 1,033            | -0.54 | 0                            | 0                            | 0.0%    | 8,084              | 12,279                | -34.2%   |
| COMEX E-Mini GOLD          | 0                          | 0                          | 0.0%    | 5,343            | 6,890            | -0.22 | 0                            | 0                            | 0.0%    | 80,343             | 105,332               | -23.7%   |
| LNDN ZINC                  | 0                          | 0                          | 0.0%    | 20               | 27               | -0.26 | 0                            | 0                            | 0.0%    | 115                | 227                   | -49.3%   |
| METALS                     | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 25                    | -100.0%  |
| FERROUS PRODUCTS           | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 85                 | 0                     | 0.0%     |
| IRON ORE 62 CHINA PLATTS F | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| IRON ORE 62 CHINA TSI FUTU | 0                          | 0                          | 0.0%    | 220              | 508              | -0.57 | 0                            | 0                            | 0.0%    | 2,810              | 5,306                 | -47.0%   |
| IRON ORE 58 CHINA TSI FUTU | -                          | 0                          | 0.0%    | -                | 0                | 0     | -                            | 0                            | 0.0%    | -                  | 0                     | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                             | Open<br>Outcry<br>OCT 2017 | Open<br>Outcry<br>OCT 2016 | % CHG   | ELEC<br>OCT 2017 | ELEC<br>OCT 2016 | % CHG | Open<br>Outcry<br>Y.T.D 2017 | Open<br>Outcry<br>Y.T.D 2016 | % CHG   | ELEC<br>Y.T.D 2017 | ELEC<br>Y.T.D<br>2016 | %<br>CHG |
|-----------------------------|----------------------------|----------------------------|---------|------------------|------------------|-------|------------------------------|------------------------------|---------|--------------------|-----------------------|----------|
| <b>Metals Options</b>       |                            |                            |         |                  |                  |       |                              |                              |         |                    |                       |          |
| COMEX GOLD                  | 0                          | 16,698                     | -100.0% | 625,816          | 607,491          | 0.03  | 0                            | 592,859                      | -100.0% | 6,513,341          | 5,732,193             | 13.6%    |
| COMEX SILVER                | 0                          | 8,781                      | -100.0% | 79,409           | 90,349           | -0.12 | 0                            | 79,795                       | -100.0% | 1,076,342          | 993,161               | 8.4%     |
| COMEX COPPER                | 0                          | 0                          | 0.0%    | 16,137           | 2,454            | 5.58  | 0                            | 1,188                        | -100.0% | 70,266             | 23,822                | 195.0%   |
| NYMEX PLATINUM              | 0                          | 0                          | 0.0%    | 955              | 743              | 0.29  | 0                            | 2,254                        | -100.0% | 10,884             | 7,645                 | 42.4%    |
| PALLADIUM                   | 0                          | 0                          | 0.0%    | 1,198            | 265              | 3.52  | 0                            | 322                          | -100.0% | 11,589             | 2,546                 | 355.2%   |
| GOLD                        | 0                          | 0                          | 0.0%    | 17,955           | 5,865            | 2.06  | 0                            | 666                          | -100.0% | 127,637            | 38,371                | 232.6%   |
| COPPER                      | -                          | 0                          | 0.0%    | -                | 0                | 0     | -                            | 0                            | 0.0%    | -                  | 0                     | 0.0%     |
| SILVER                      | 0                          | 0                          | 0.0%    | 206              | 773              | -0.73 | 0                            | 0                            | 0.0%    | 1,634              | 1,569                 | 4.1%     |
| IRON ORE 62 CHINA TSI CALL  | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| IRON ORE 62 CHINA TSI PUT O | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| HOT ROLLED COIL STEEL CAL   | 0                          | -                          | -       | 0                | -                |       | 0                            | -                            | -       | 0                  | -                     | -        |
| <b>Energy Futures</b>       |                            |                            |         |                  |                  |       |                              |                              |         |                    |                       |          |
| ETHANOL                     | 0                          | 0                          | 0.0%    | 10,185           | 11,502           | -0.11 | 0                            | 0                            | 0.0%    | 128,250            | 137,625               | -6.8%    |
| ETHANOL FWD                 | -                          | 0                          | 0.0%    | -                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| HOUSTON SHIP CHANNEL BAS    | 0                          | 0                          | 0.0%    | 0                | 182              | -1    | 0                            | 0                            | 0.0%    | 0                  | 1,102                 | -100.0%  |
| NORTHWEST ROCKIES BASIS     | 0                          | 0                          | 0.0%    | 0                | 870              | -1    | 0                            | 0                            | 0.0%    | 0                  | 2,815                 | -100.0%  |
| HEATING OIL VS ICE GASOIL   | -                          | 0                          | 0.0%    | -                | 0                | 0     | -                            | 0                            | 0.0%    | -                  | 0                     | 0.0%     |
| FUEL OIL CRACK VS ICE       | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| FUEL OIL NWE CRACK VS ICE   | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| NGPL MIDCONTINENT INDEX     | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| NGPL TEXOK INDEX            | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| CENTERPOINT BASIS SWAP      | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| NATURAL GAS                 | 0                          | 0                          | 0.0%    | 35,812           | 34,775           | 0.03  | 0                            | 800                          | -100.0% | 355,347            | 200,362               | 77.4%    |
| HTG OIL                     | 0                          | 0                          | 0.0%    | 60               | 0                | 0     | 0                            | 36                           | -100.0% | 144                | 0                     | 0.0%     |
| LTD NAT GAS                 | 0                          | 0                          | 0.0%    | 142,164          | 85,476           | 0.66  | 0                            | 0                            | 0.0%    | 1,250,529          | 729,085               | 71.5%    |
| GASOIL MINI CALENDAR SWA    | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| GASOIL 0.1 ROTTERDAM BAR    | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| N ROCKIES PIPE SWAP         | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| HUSTN SHIP CHNL PIPE SWP    | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| SAN JUAN PIPE SWAP          | -                          | 0                          | 0.0%    | -                | 0                | 0     | -                            | 0                            | 0.0%    | -                  | 0                     | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>OCT 2017 | Open<br>Outcry<br>OCT 2016 | % CHG | ELEC<br>OCT 2017 | ELEC<br>OCT 2016 | % CHG | Open<br>Outcry<br>Y.T.D 2017 | Open<br>Outcry<br>Y.T.D 2016 | % CHG   | ELEC<br>Y.T.D 2017 | ELEC<br>Y.T.D<br>2016 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|-------|------------------|------------------|-------|------------------------------|------------------------------|---------|--------------------|-----------------------|----------|
| <b>Energy Futures</b>     |                            |                            |       |                  |                  |       |                              |                              |         |                    |                       |          |
| SOCAL PIPE SWAP           | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| PANHANDLE PIPE SWAP       | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| BRENT OIL LAST DAY        | 0                          | 0                          | 0.0%  | 1,406,972        | 1,530,837        | -0.08 | 0                            | 344                          | -100.0% | 18,745,600         | 18,888,975            | -0.8%    |
| BRENT CALENDAR SWAP       | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| GASOIL 0.1 CARGOES CIF NE | -                          | 0                          | 0.0%  | -                | 0                | 0     | -                            | 0                            | 0.0%    | -                  | 0                     | 0.0%     |
| GASOIL 0.1 RDAM BRGS VS I | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| GASOIL 0.1 CIF NWE VS ISE | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| NY H OIL PLATTS VS NYMEX  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| MARS (ARGUS) VS WTI SWAP  | 0                          | 0                          | 0.0%  | 70               | 0                | 0     | 0                            | 0                            | 0.0%    | 70                 | 0                     | 0.0%     |
| MARS (ARGUS) VS WTI TRD M | 0                          | 0                          | 0.0%  | 800              | 0                | 0     | 0                            | 0                            | 0.0%    | 800                | 0                     | 0.0%     |
| WTS (ARGUS) VS WTI TRD MT | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| SINGAPORE 180CST BALMO    | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| SINGAPORE 380CST BALMO    | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| SINGAPORE JET KERO BALMO  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| SINGAPORE NAPHTHA BALMO   | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| DUBAI CRUDE OIL BALMO     | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| EURO 3.5% FUEL OIL RDAM B | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| EURO 1% FUEL OIL NEW BALM | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| NY HARBOR 1% FUEL OIL BAL | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| GULF COAST 3% FUEL OIL BA | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| PREMIUM UNLD 10P FOB MED  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| GASOIL 10P CRG CIF NW VS  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| GASOIL 0.1 CRG CIF NW VS  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| BRENT CFD SWAP            | -                          | 0                          | 0.0%  | -                | 0                | 0     | -                            | 0                            | 0.0%    | -                  | 0                     | 0.0%     |
| JET FUEL CRG CIF NEW VS I | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| 3.5% FUEL OIL CID MED SWA | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| ARGUS PROPAN FAR EST IND  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| ULSD 10PPM CIF VS ICE GAS | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| GASOIL 0.1 CIF VS ICE GAS | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| JET FUEL BRG FOB RDM VS I | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| PJM NILL DA OFF-PEAK      | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| PJM AEEO DA OFF-PEAK      | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| PJM DAYTON DA PEAK        | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| PJM BGE DA PEAK           | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |

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|                           | Open<br>Outcry<br>OCT 2017 | Open<br>Outcry<br>OCT 2016 | % CHG | ELEC<br>OCT 2017 | ELEC<br>OCT 2016 | % CHG | Open<br>Outcry<br>Y.T.D 2017 | Open<br>Outcry<br>Y.T.D 2016 | % CHG | ELEC<br>Y.T.D 2017 | ELEC<br>Y.T.D 2016 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|-------|------------------|------------------|-------|------------------------------|------------------------------|-------|--------------------|--------------------|----------|
| <b>Energy Futures</b>     |                            |                            |       |                  |                  |       |                              |                              |       |                    |                    |          |
| PJM BGE DA OFF-PEAK       | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PJM JCPL DA PEAK          | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PJM JCPL DA OFF-PEAK      | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PJM PEP CO DA OFF-PEAK    | -                          | 0                          | 0.0%  | -                | 0                | 0     | -                            | 0                            | 0.0%  | -                  | 0                  | 0.0%     |
| PJM PPL DA PEAK           | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PJM PPL DA OFF-PEAK       | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PJM PSEG DA PEAK          | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PJM PSEG DA OFF-PEAK      | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PJM WESTHDA PEAK          | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PJM WESTH DA OFF-PEAK     | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PJM WESTH RT PEAK         | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PJM WESTH RT OFF-PEAK     | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| ALGONQUIN CITYGATES BASI  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| TCO NG INDEX SWAP         | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| TRANSCO ZONE 3 NG INDEX S | 0                          | -                          | -     | 0                | -                |       | 0                            | -                            | -     | 0                  | -                  | -        |
| MICHCON NG INDEX SWAP     | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| CIG ROCKIES NG INDEX SWA  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| GASOIL 0.1 CIF MED SWAP   | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| GASOIL 0.1CIF MED VS ICE  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| ULSD 10PPM CIF MED SWAP   | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| ULSD 10PPM CIF MED VS ICE | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| BRENT BALMO SWAP          | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| ICE GASOIL BALMO SWAP     | 0                          | -                          | -     | 0                | -                |       | 0                            | -                            | -     | 0                  | -                  | -        |
| ULSD 10PPM CIF NW BALMO S | 0                          | -                          | -     | 0                | -                |       | 0                            | -                            | -     | 0                  | -                  | -        |
| ULSD 10PPM CIF MED BALMO  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PERMIAN BASIS SWAP        | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| Tetco ELA Basis           | -                          | 0                          | 0.0%  | -                | 0                | 0     | -                            | 0                            | 0.0%  | -                  | 0                  | 0.0%     |
| PANHANDLE INDEX SWAP FUT  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| GULF COAST JET FUEL CLNDR | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| EUROPE 1% FUEL OIL NWE CA | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| SINGAPORE FUEL 180CST CAL | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NYISO G                   | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| GULF COAST NO.6 FUEL OIL  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NEW YORK HUB ZONE G PEAK  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>OCT 2017 | Open<br>Outcry<br>OCT 2016 | % CHG   | ELEC<br>OCT 2017 | ELEC<br>OCT 2016 | % CHG | Open<br>Outcry<br>Y.T.D 2017 | Open<br>Outcry<br>Y.T.D 2016 | % CHG   | ELEC<br>Y.T.D 2017 | ELEC<br>Y.T.D<br>2016 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|---------|------------------|------------------|-------|------------------------------|------------------------------|---------|--------------------|-----------------------|----------|
| <b>Energy Futures</b>     |                            |                            |         |                  |                  |       |                              |                              |         |                    |                       |          |
| NORTHERN ILLINOIS OFF-PEA | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| AEP-DAYTON HUB DAILY      | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| SINGAPORE FUEL OIL SPREA  | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| SINGAPORE JET KERO GASOI  | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| TETCO M-3 INDEX           | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| DOMINION TRAN INC - APP I | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| CINERGY HUB PEAK MONTH    | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| HEATING OIL PHY           | 0                          | 182                        | -100.0% | 3,617,837        | 2,939,540        | 0.23  | 0                            | 968                          | -100.0% | 34,167,290         | 29,921,434            | 14.2%    |
| GASOIL 10PPM CARGOES CIF  | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| GASOIL 10PPM VS ICE SWAP  | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| NY1% VS GC SPREAD SWAP    | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| EUROPEAN NAPHTHA BALMO    | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| GASOIL 0.1 BRGS FOB VS IC | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| DIESEL 10P BRG FOB RDM VS | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| ARGUS PROPAN(SAUDI ARAM   | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| PJM AECO DA PEAK          | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| N ILLINOIS HUB MTHLY      | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| MINY HTG OIL              | 0                          | 0                          | 0.0%    | 3                | 7                | -0.57 | 0                            | 0                            | 0.0%    | 28                 | 95                    | -70.5%   |
| WAHA BASIS                | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| MINY NATURAL GAS          | 0                          | 0                          | 0.0%    | 24,478           | 33,276           | -0.26 | 0                            | 0                            | 0.0%    | 243,223            | 253,764               | -4.2%    |
| SINGAPORE GASOIL SWAP     | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 36                 | 0                     | 0.0%     |
| UP DOWN GC ULSD VS NMX H  | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| PJM NILL DA PEAK          | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| PJM DAYTON DA OFF-PEAK    | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| LA JET (OPIS) SWAP        | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| ULSD UP-DOWN BALMO SWP    | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| JET FUEL UP-DOWN BALMO C  | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| EIA FLAT TAX ONHWAY DIESE | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| ARGUS LLS VS. WTI (ARG) T | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 60                 | 0                     | 0.0%     |
| JAPAN NAPHTHA BALMO SWA   | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| NY 3.0% FUEL OIL (PLATTS  | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| NY 2.2% FUEL OIL (PLATTS  | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| CAISO SP15 EZGNHUB5 MW P  | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| RBOB GASOLINE BALMO CLNC  | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>OCT 2017 | Open<br>Outcry<br>OCT 2016 | % CHG | ELEC<br>OCT 2017 | ELEC<br>OCT 2016 | % CHG | Open<br>Outcry<br>Y.T.D 2017 | Open<br>Outcry<br>Y.T.D 2016 | % CHG | ELEC<br>Y.T.D 2017 | ELEC<br>Y.T.D<br>2016 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|-------|------------------|------------------|-------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| <b>Energy Futures</b>     |                            |                            |       |                  |                  |       |                              |                              |       |                    |                       |          |
| GASOLINE UP-DOWN BALMO S  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| TRANSCO ZONE 4 NAT GAS IN | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| COLUMBIA GULF MAIN NAT G  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SOUTHERN NAT LA NAT GAS   | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| FL GAS ZONE 3 NAT GAS IND | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| COLUMB GULF MAINLINE NG B | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 122                   | -100.0%  |
| HENRY HUB FINANCIAL LAST  | 0                          | -                          | -     | 1,701            | -                |       | 0                            | -                            | -     | 3,248              | -                     | -        |
| TENNESSEE 800 LEG NG BASI | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| TRANSCO ZONE 1 NG BASIS   | -                          | 0                          | 0.0%  | -                | 0                | 0     | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| ONEOK OKLAHOMA NG BASIS   | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SOUTH STAR TEX OKLHM KNS  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| TEXAS GAS ZONE1 NG BASIS  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NYISO ZONE C 5MW D AH O P | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM NI HUB 5MW REAL TIME  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NYISO ZONE G 5MW D AH O P | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NYISO ZONE J 5MW D AH PK  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NYISO ZONE J 5MW D AH O P | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM COMED 5MW D AH PK     | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM COMED 5MW D AH O PK   | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NEPOOL INTR HUB 5MW D AH  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CIN HUB 5MW REAL TIME PK  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CIN HUB 5MW D AH PK       | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NYISO ZONE A 5MW D AH PK  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NYISO ZONE A 5MW D AH O P | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NEPOOL W CNT MASS 5MW D   | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NEPOOL CONECTIC 5MW D AH  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NEPOOL CNCTCT 5MW D AH O  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NEPOOL SE MASS 5MW D AH   | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NEPOOL SE MASS 5MW D AH   | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NEPOOL NE MASS 5MW D AH   | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NEPOOL NE MASS 5MW D AH   | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NYISO ZONE C 5MW D AH PK  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NEPOOL W CNTR M 5MW D AH  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NYISO ZONE G 5MW D AH PK  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>OCT 2017 | Open<br>Outcry<br>OCT 2016 | % CHG   | ELEC<br>OCT 2017 | ELEC<br>OCT 2016 | % CHG | Open<br>Outcry<br>Y.T.D 2017 | Open<br>Outcry<br>Y.T.D 2016 | % CHG   | ELEC<br>Y.T.D 2017 | ELEC<br>Y.T.D<br>2016 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|---------|------------------|------------------|-------|------------------------------|------------------------------|---------|--------------------|-----------------------|----------|
| <b>Energy Futures</b>     |                            |                            |         |                  |                  |       |                              |                              |         |                    |                       |          |
| PJM AD HUB 5MW REAL TIME  | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| CIN HUB 5MW D AH O PK     | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| CIN HUB 5MW REAL TIME O P | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| RBOB PHY                  | 0                          | 64                         | -100.0% | 3,488,294        | 3,162,693        | 0.1   | 0                            | 573                          | -100.0% | 39,831,425         | 35,580,563            | 11.9%    |
| SING FUEL                 | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| LLS (ARGUS) CALENDAR SWA  | -                          | 0                          | 0.0%    | -                | 0                | 0     | -                            | 0                            | 0.0%    | -                  | 0                     | 0.0%     |
| RBOB VS HEATING OIL SWAP  | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| NORTHEN NATURAL GAS DEM   | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| HOUSTON SHIP CHANNEL IND  | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| EUROPE JET KERO NWE CALS  | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| MINY WTI CRUDE OIL        | 0                          | 0                          | 0.0%    | 233,943          | 227,921          | 0.03  | 0                            | 0                            | 0.0%    | 2,599,082          | 2,848,927             | -8.8%    |
| NEW ENGLAND HUB PEAK DAI  | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| ROCKIES KERN OPAL - NW IN | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| NATURAL GAS PHY           | 0                          | 52                         | -100.0% | 10,293,023       | 9,905,953        | 0.04  | 0                            | 1,590                        | -100.0% | 84,984,614         | 76,374,450            | 11.3%    |
| APPALACHIAN COAL (PHY)    | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| WTI CALENDAR              | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 1,069                        | -100.0% | 0                  | 0                     | 0.0%     |
| HENRY HUB BASIS SWAP      | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 2,996              | 31                    | 9,564.5% |
| DEMARC INDEX FUTURE       | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| WTS (ARGUS) VS WTI SWAP   | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| PREMIUM UNLEAD 10PPM FOB  | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| CHICAGO UNL GAS PL VS RBO | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| CRUDE OIL PHY             | 0                          | 462                        | -100.0% | 24,481,485       | 22,383,452       | 0.09  | 0                            | 20,093                       | -100.0% | 256,634,849        | 219,008,768           | 17.2%    |
| RBOB CALENDAR SWAP        | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 5                  | 0                     | 0.0%     |
| ISO NEW ENGLAND PK LMP    | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| LA CARB DIESEL (OPIS)     | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| CHICAGO ETHANOL SWAP      | 0                          | 0                          | 0.0%    | 1,347            | 329              | 3.09  | 0                            | 0                            | 0.0%    | 3,583              | 10,811                | -66.9%   |
| NEW YORK ETHANOL SWAP     | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| GASOIL BULLET SWAP        | 0                          | -                          | -       | 0                | -                | -     | 0                            | -                            | -       | 0                  | -                     | -        |
| EURO PROPANE CIF ARA SW   | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| JAPAN C&F NAPHTHA SWAP    | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| NYMEX ULSD VS NYMEX HO    | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| LA CARBOB GASOLINE(OPIS)S | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| LA CARB DIESEL (OPIS) SWA | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| JAPAN C&F NAPHTHA CRACK   | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>OCT 2017 | Open<br>Outcry<br>OCT 2016 | % CHG | ELEC<br>OCT 2017 | ELEC<br>OCT 2016 | % CHG | Open<br>Outcry<br>Y.T.D 2017 | Open<br>Outcry<br>Y.T.D 2016 | % CHG   | ELEC<br>Y.T.D 2017 | ELEC<br>Y.T.D<br>2016 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|-------|------------------|------------------|-------|------------------------------|------------------------------|---------|--------------------|-----------------------|----------|
| <b>Energy Futures</b>     |                            |                            |       |                  |                  |       |                              |                              |         |                    |                       |          |
| LLS (ARGUS) VS WTI SWAP   | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 15                 | 0                     | 0.0%     |
| MINY RBOB GAS             | 0                          | 0                          | 0.0%  | 4                | 3                | 0.33  | 0                            | 0                            | 0.0%    | 43                 | 45                    | -4.4%    |
| RBOB GAS                  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| RBOB CRACK SPREAD         | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| RBOB UP-DOWN CALENDAR S   | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| NY HARBOR RESIDUAL FUEL 1 | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| NY HARBOR HEAT OIL SWP    | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 39                           | -100.0% | 3                  | 12                    | -75.0%   |
| LA JET FUEL VS NYM NO 2 H | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| ANR OKLAHOMA              | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| MICHIGAN BASIS            | 0                          | 0                          | 0.0%  | 0                | 31               | -1    | 0                            | 0                            | 0.0%    | 0                  | 766                   | -100.0%  |
| Sumas Basis Swap          | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| NGPL MID-CONTINENT        | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| TEXAS EASTERN ZONE M-3 BA | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 31                    | -100.0%  |
| PJM MONTHLY               | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| NORTHERN NATURAL GAS VEN  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| DOMINION TRANSMISSION INC | 0                          | 0                          | 0.0%  | 0                | 30               | -1    | 0                            | 0                            | 0.0%    | 0                  | 366                   | -100.0%  |
| TCO BASIS SWAP            | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| CIG BASIS                 | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| PJM DAILY                 | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| COLUMBIA GULF ONSHORE     | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| Tetco STX Basis           | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| Transco Zone 3 Basis      | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| HENRY HUB SWING FUTURE    | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| EL PASO PERMIAN INDEX SWA | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| HENRY HUB INDEX SWAP FUT  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 2,996              | 0                     | 0.0%     |
| WAHA INDEX SWAP FUTURE    | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| GULF COAST GASOLINE CLND  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| EUROPE NAPHTHA CALSWAP    | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| EUROPE 1% FUEL OIL RDAM C | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| EUROPE 3.5% FUEL OIL RDAM | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| EUROPE 3.5% FUEL OIL MED  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| PANHANDLE BASIS SWAP FUT  | 0                          | 0                          | 0.0%  | 0                | 214              | -1    | 0                            | 0                            | 0.0%    | 0                  | 946                   | -100.0%  |
| SAN JUAN BASIS SWAP       | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| SOCAL BASIS SWAP          | -                          | 0                          | 0.0%  | -                | 0                | 0     | -                            | 0                            | 0.0%    | -                  | 0                     | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>OCT 2017 | Open<br>Outcry<br>OCT 2016 | % CHG | ELEC<br>OCT 2017 | ELEC<br>OCT 2016 | % CHG | Open<br>Outcry<br>Y.T.D 2017 | Open<br>Outcry<br>Y.T.D 2016 | % CHG   | ELEC<br>Y.T.D 2017 | ELEC<br>Y.T.D<br>2016 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|-------|------------------|------------------|-------|------------------------------|------------------------------|---------|--------------------|-----------------------|----------|
| <b>Energy Futures</b>     |                            |                            |       |                  |                  |       |                              |                              |         |                    |                       |          |
| TRANSCO ZONE 6 BASIS SWA  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| NYISO A                   | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| NYISO J                   | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| GULF COAST JET VS NYM 2 H | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| NY HARBOR RESIDUAL FUEL   | -                          | 0                          | 0.0%  | -                | 0                | 0     | -                            | 0                            | 0.0%    | -                  | 0                     | 0.0%     |
| EURO 3.5% FUEL OIL SPREAD | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| GASOIL CALENDAR SWAP      | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| EURO GASOIL 10 CAL SWAP   | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| NGPL MIDCONTINENT SWING   | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| DEMARC SWING SWAP         | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| CENTERPOINT EAST INDEX    | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| CRUDE OIL                 | 0                          | 0                          | 0.0%  | 100              | 0                | 0     | 0                            | 0                            | 0.0%    | 507                | 0                     | 0.0%     |
| BRENT FINANCIAL FUTURES   | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| WTI-BRENT BULLET SWAP     | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| WTI-BRENT CALENDAR SWAP   | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 120                | 0                     | 0.0%     |
| DATED TO FRONTLINE BRENT  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| ICE BRENT DUBAI SWAP      | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| GASOIL CRACK SPREAD CALE  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| EUROPEAN NAPHTHA CRACK S  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| EURO GASOIL 10PPM VS ICE  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| JET CIF NWE VS ICE        | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| JET BARGES VS ICE GASOIL  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| SINGAPORE GASOIL VS ICE   | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| NATURAL GAS PEN SWP       | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 92                           | -100.0% | 62                 | 0                     | 0.0%     |
| WESTERN RAIL DELIVERY PR  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| EASTERN RAIL DELIVERY CSX | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| EUROPE DATED BRENT SWAP   | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| TC5 RAS TANURA TO YOKOHA  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| TD3 MEG TO JAPAN 250K MT  | 0                          | -                          | -     | 0                | -                | -     | 0                            | -                            | -       | 0                  | -                     | -        |
| TC2 ROTTERDAM TO USAC 37  | -                          | 0                          | 0.0%  | -                | 0                | 0     | -                            | 0                            | 0.0%    | -                  | 0                     | 0.0%     |
| PJM OFF-PEAK LMP SWAP FU  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| NYISO A OFF-PEAK          | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| NYISO G OFF-PEAK          | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| NYISO J OFF-PEAK          | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                              | Open<br>Outcry<br>OCT 2017 | Open<br>Outcry<br>OCT 2016 | % CHG | ELEC<br>OCT 2017 | ELEC<br>OCT 2016 | % CHG | Open<br>Outcry<br>Y.T.D 2017 | Open<br>Outcry<br>Y.T.D 2016 | % CHG   | ELEC<br>Y.T.D 2017 | ELEC<br>Y.T.D<br>2016 | %<br>CHG |
|------------------------------|----------------------------|----------------------------|-------|------------------|------------------|-------|------------------------------|------------------------------|---------|--------------------|-----------------------|----------|
| <b>Energy Futures</b>        |                            |                            |       |                  |                  |       |                              |                              |         |                    |                       |          |
| ISO NEW ENGLAND OFF-PEAK     | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| AEP-DAYTON HUB OFF-PEAK      | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| N ILLINOIS HUB DAILY         | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| AEP-DAYTON HUB MTHLY         | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| FUELOIL SWAP:CARGOES VS.     | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| EAST/WEST FUEL OIL SPREAD    | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| SINGAPORE 380CST FUEL OIL    | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| SINGAPORE JET KEROSENE S     | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| SINGAPORE NAPHTHA SWAP       | -                          | 0                          | 0.0%  | -                | 0                | 0     | -                            | 0                            | 0.0%    | -                  | 0                     | 0.0%     |
| SONAT BASIS SWAP FUTURE      | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| FLORIDA GAS ZONE3 BASIS S    | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| TRANSCO ZONE4 BASIS SWAP     | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 646                   | -100.0%  |
| ANR LOUISIANA BASIS SWAP     | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| TENNESSEE 500 LEG BASIS S    | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| TENNESSEE ZONE 0 BASIS S     | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| TRANSCO ZONE 6 INDEX         | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| CINERGY HUB OFF-PEAK MON     | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| GULF COAST ULSD CALEND       | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 3                     | -100.0%  |
| GULF COAST ULSD CRACK SP     | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| HENRY HUB SWAP               | 0                          | 0                          | 0.0%  | 916              | 194,391          | -1    | 0                            | 1,472                        | -100.0% | 61,980             | 1,950,435             | -96.8%   |
| DUBAI CRUDE OIL CALENDAR     | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| USGC UNL 87 CRACK SPREAD     | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| NYH NO 2 CRACK SPREAD CA     | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| NO 2 UP-DOWN SPREAD CALE     | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| SINGAPORE MOGAS 92 UNLEA     | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| ETHANOL T2 FOB ROTT INCL     | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| SINGAPORE MOGAS 92 UNLEA     | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 5                  | 0                     | 0.0%     |
| PROPANE NON-LDH MT. BEL (    | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| PROPANE NON-LDH MB (OPIS)    | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| NY JET FUEL (PLATTS) HEAT C  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| JET AV FUEL (P) CAR FM ICE G | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| FUEL OIL (PLATS) CAR CM      | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| FUEL OIL (PLATS) CAR CN      | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| NY ULSD (ARGUS) VS HEATIN    | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                            | Open<br>Outcry<br>OCT 2017 | Open<br>Outcry<br>OCT 2016 | % CHG | ELEC<br>OCT 2017 | ELEC<br>OCT 2016 | % CHG | Open<br>Outcry<br>Y.T.D 2017 | Open<br>Outcry<br>Y.T.D 2016 | % CHG | ELEC<br>Y.T.D 2017 | ELEC<br>Y.T.D<br>2016 | %<br>CHG |
|----------------------------|----------------------------|----------------------------|-------|------------------|------------------|-------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| <b>Energy Futures</b>      |                            |                            |       |                  |                  |       |                              |                              |       |                    |                       |          |
| PJM PECO ZONE5MW PEAK C    | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| IN DELIVERY MONTH EUA      | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 225                   | -100.0%  |
| DATED BRENT (PLATTS) DAILY | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PETRO OUTRIGHT EURO        | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GAS EURO-BOB OXY NWE BA    | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GAS EURO-BOB OXY NWE BA    | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PREM UNL GAS 10PPM RDAM    | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PREM UNL GAS 10PPM RDAM    | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MONT BELVIEU NORMAL BUTA   | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MONT BELVIEU ETHANE 5 DEC  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MONT BELVIEU LDH PROPANE   | 0                          | 0                          | 0.0%  | 45               | 0                | 0     | 0                            | 0                            | 0.0%  | 327                | 158                   | 107.0%   |
| EUROPEAN GASOIL (ICE)      | 0                          | 0                          | 0.0%  | 863              | 6,938            | -0.88 | 0                            | 0                            | 0.0%  | 29,272             | 1,474,467             | -98.0%   |
| ERCOT NORTH ZMCPE 5MW O    | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ERCOT NORTH ZMCPE 5MW O    | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ERCOT NORTH ZMCPE 5MW P    | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ERCOT HOUSTON Z MCPE 5M    | 0                          | -                          | -     | 0                | -                |       | 0                            | -                            | -     | 0                  | -                     | -        |
| SINGAPORE JET KERO VS. GA  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MONT BELVIEU NORMAL BUTA   | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MONT BELVIEU ETHANE OPIS   | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MONT BELVIEU NATURAL GAS   | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MONT BELVIEU LDH PROPANE   | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CONWAY NORMAL BUTANE (O    | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CONWAY NATURAL GASOLINE    | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CONWAY PROPANE 5 DECIMA    | 0                          | 0                          | 0.0%  | 3                | 0                | 0     | 0                            | 0                            | 0.0%  | 54                 | 0                     | 0.0%     |
| PETROCHEMICALS             | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MONT BELVIEU NATURAL GAS   | 0                          | 0                          | 0.0%  | 20               | 0                | 0     | 0                            | 0                            | 0.0%  | 20                 | 0                     | 0.0%     |
| ELEC NYISO OFF-PEAK        | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ELEC MISO PEAK             | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MARS BLEND CRUDE OIL       | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 200                | 0                     | 0.0%     |
| NYMEX ALUMINUM FUTURES     | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GASOIL 0.1 CIF MED BALMO   | -                          | 0                          | 0.0%  | -                | 0                | 0     | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| RBOB CRACK SPREAD BALMO    | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| DIESEL 10PPM BARGES FOB B  | 0                          | -                          | -     | 0                | -                |       | 0                            | -                            | -     | 0                  | -                     | -        |
| RBOB (PLATTS) CAL SWAP     | 0                          | -                          | -     | 0                | -                |       | 0                            | -                            | -     | 0                  | -                     | -        |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>OCT 2017 | Open<br>Outcry<br>OCT 2016 | % CHG | ELEC<br>OCT 2017 | ELEC<br>OCT 2016 | % CHG | Open<br>Outcry<br>Y.T.D 2017 | Open<br>Outcry<br>Y.T.D 2016 | % CHG | ELEC<br>Y.T.D 2017 | ELEC<br>Y.T.D<br>2016 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|-------|------------------|------------------|-------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| <b>Energy Futures</b>     |                            |                            |       |                  |                  |       |                              |                              |       |                    |                       |          |
| PJM DUQUESNE 5MW D AH PK  | -                          | 0                          | 0.0%  | -                | 0                | 0     | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| PJM DUQUS 5MW D AH O PK   | -                          | 0                          | 0.0%  | -                | 0                | 0     | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| PETRO CRK&SPRD EURO       | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GRP THREE ULSD(PLT)VS HEA | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| HEATING OIL CRCK SPRD BAL | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CHICAGO ULSD PL VS HO SPR | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GRP THREE UNL GS (PLT) VS | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CRUDE OIL OUTRIGHTS       | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM WES HUB PEAK LMP 50 M | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| FREIGHT MARKETS           | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NEPOOL NEW HAMP 5MW D A   | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ELEC ERCOT OFF PEAK       | -                          | 0                          | 0.0%  | -                | 0                | 0     | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| ELECTRICITY OFF PEAK      | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| HEATING OIL BALMO CLNDR S | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CRUDE OIL SPRDS           | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 50                 | 0                     | 0.0%     |
| PJM APS ZONE DA PEAK      | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ELEC FINSETTLED           | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM APS ZONE DA OFF-PEAK  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NAT GAS BASIS SWAP        | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PLASTICS                  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PETRO OUTRIGHT NA         | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MNC FUT                   | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MCCLOSKEY ARA ARGS COAL   | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MCCLOSKEY RCH BAY COAL    | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| TRANSCO ZONE 6 PIPE SWAP  | -                          | 0                          | 0.0%  | -                | 0                | 0     | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| ELEC ERCOT DLY PEAK       | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GC ULSD VS GC JET SPREAD  | -                          | 0                          | 0.0%  | -                | 0                | 0     | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| PETRO CRCKS & SPRDS NA    | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ALGON CITY GATES NAT GAS  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SINGAPORE GASOIL CALEND A | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MJC FUT                   | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NGPL TEX/OK               | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| RBOB SPREAD (PLATTS) SWA  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NEPOOL RHD ISLD 5MW D AH  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                            | Open<br>Outcry<br>OCT 2017 | Open<br>Outcry<br>OCT 2016 | % CHG | ELEC<br>OCT 2017 | ELEC<br>OCT 2016 | % CHG | Open<br>Outcry<br>Y.T.D 2017 | Open<br>Outcry<br>Y.T.D 2016 | % CHG | ELEC<br>Y.T.D 2017 | ELEC<br>Y.T.D 2016 | %<br>CHG |
|----------------------------|----------------------------|----------------------------|-------|------------------|------------------|-------|------------------------------|------------------------------|-------|--------------------|--------------------|----------|
| <b>Energy Futures</b>      |                            |                            |       |                  |                  |       |                              |                              |       |                    |                    |          |
| SINGAPORE GASOIL           | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NEPOOL RHODE IL 5MW D AH   | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| TENN 800 LEG NAT GAS INDE  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| ONTARIO POWER SWAPS        | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PETROLEUM PRODUCTS ASIA    | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| INDONESIAN COAL            | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| DAILY PJM                  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| INDIANA MISO               | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PETRO CRCKS & SPRDS ASIA   | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| AUSTRIALIAN COKE COAL      | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| COAL SWAP                  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NYISO CAPACITY             | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| VENTURA NAT GAS PLATTS FI  | -                          | 0                          | 0.0%  | -                | 0                | 0     | -                            | 0                            | 0.0%  | -                  | 0                  | 0.0%     |
| EMMISSIONS                 | -                          | 0                          | 0.0%  | -                | 0                | 0     | -                            | 0                            | 0.0%  | -                  | 0                  | 0.0%     |
| DIESEL10PPM BARG VS ICE LS | -                          | 0                          | 0.0%  | -                | 0                | 0     | -                            | 0                            | 0.0%  | -                  | 0                  | 0.0%     |
| NATURAL GAS FIXED PRICE S  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| SUMAS NAT GAS PLATTS FIXE  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| EURO-DENOMINATED PETRO     | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PETROLEUM PRODUCTS         | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| 3.5% FUEL OIL CIF BALMO S  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| CANADIAN LIGHT SWEET OIL   | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| MICHIGAN MISO              | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| DLY GAS EURO-BOB OXY       | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| MINI RBOB V. EBOBARG NWE   | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| MINI RBOB V. EBOB(ARGUS) N | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| CRUDE OIL TRADE AT MARKE   | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| MGF FUT                    | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NATURAL GAS INDEX          | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| MJB FUT                    | -                          | 0                          | 0.0%  | -                | 0                | 0     | -                            | 0                            | 0.0%  | -                  | 0                  | 0.0%     |
| NEW YORK HUB ZONE J PEAK   | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PJM ATSI ELEC              | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| EU LOW SULPHUR GASOIL CR   | -                          | 0                          | 0.0%  | -                | 0                | 0     | -                            | 0                            | 0.0%  | -                  | 0                  | 0.0%     |
| CENTER POINT NAT GAS FIXE  | -                          | 0                          | 0.0%  | -                | 0                | 0     | -                            | 0                            | 0.0%  | -                  | 0                  | 0.0%     |
| ELEC ERCOT DLY OFF PK      | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>OCT 2017 | Open<br>Outcry<br>OCT 2016 | % CHG   | ELEC<br>OCT 2017 | ELEC<br>OCT 2016 | % CHG | Open<br>Outcry<br>Y.T.D 2017 | Open<br>Outcry<br>Y.T.D 2016 | % CHG   | ELEC<br>Y.T.D 2017 | ELEC<br>Y.T.D<br>2016 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|---------|------------------|------------------|-------|------------------------------|------------------------------|---------|--------------------|-----------------------|----------|
| <b>Energy Futures</b>     |                            |                            |         |                  |                  |       |                              |                              |         |                    |                       |          |
| CHICAGO ULSD (PLATTS) SWA | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| NY HARBOR LOW SULPUR GA   | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| MINI GAS EUROBOB OXY NWE  | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| COLUMBIA GULF NAT GAS FIX | -                          | 0                          | 0.0%    | -                | 0                | 0     | -                            | 0                            | 0.0%    | -                  | 0                     | 0.0%     |
| MGN1 SWAP FUT             | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| GROUP THREE ULSD (PLATTS) | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| UCM FUT                   | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| DY EURO 3.5% FUEL OI RDA  | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| ELECTRICITY ERCOT PEAK    | 0                          | -                          | -       | 0                | -                |       | 0                            | -                            | -       | 0                  | -                     | -        |
| ELEC WEST POWER OFF-PEA   | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| ELEC WEST POWER PEAK      | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| CAISO SP15 EZGNHUB5 PEAK  | 0                          | -                          | -       | 0                | -                |       | 0                            | -                            | -       | 0                  | -                     | -        |
| ERCOT DAILY 5MW PEAK      | 0                          | -                          | -       | 0                | -                |       | 0                            | -                            | -       | 0                  | -                     | -        |
| <b>Energy Options</b>     |                            |                            |         |                  |                  |       |                              |                              |         |                    |                       |          |
| ETHANOL                   | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| NATURAL GAS               | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| PGE CITYGATE PIPE SWAP    | -                          | 0                          | 0.0%    | -                | 0                | 0     | -                            | 0                            | 0.0%    | -                  | 0                     | 0.0%     |
| N ROCKIES PIPE SWAP       | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| HUSTN SHIP CHNL PIPE SWP  | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| SAN JUAN PIPE SWAP        | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| SOCAL PIPE SWAP           | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| PANHANDLE PIPE SWAP       | 0                          | -                          | -       | 0                | -                |       | 0                            | -                            | -       | 0                  | -                     | -        |
| BRENT OIL LAST DAY        | 0                          | 4                          | -100.0% | 17,873           | 8,493            | 1.1   | 0                            | 9,909                        | -100.0% | 103,330            | 25,308                | 308.3%   |
| BRENT CALENDAR SWAP       | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| SINGAPORE JET FUEL CALEN  | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| ROTTERDAM 3.5%FUEL OIL CL | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| SINGAPORE FUEL OIL 180 CS | -                          | 0                          | 0.0%    | -                | 0                | 0     | -                            | 0                            | 0.0%    | -                  | 0                     | 0.0%     |
| HEATING OIL PHY           | 0                          | 396                        | -100.0% | 6,416            | 4,646            | 0.38  | 0                            | 7,014                        | -100.0% | 49,667             | 65,162                | -23.8%   |
| HENRY HUB FINANCIAL LAST  | 0                          | 42                         | -100.0% | 0                | 0                | 0     | 0                            | 68                           | -100.0% | 0                  | 0                     | 0.0%     |
| RBOB PHY                  | 0                          | 267                        | -100.0% | 6,922            | 4,323            | 0.6   | 0                            | 8,506                        | -100.0% | 69,256             | 75,745                | -8.6%    |
| NATURAL GAS PHY           | 0                          | 1,560                      | -100.0% | 1,666,876        | 917,024          | 0.82  | 0                            | 21,738                       | -100.0% | 12,260,278         | 7,029,765             | 74.4%    |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>OCT 2017 | Open<br>Outcry<br>OCT 2016 | % CHG   | ELEC<br>OCT 2017 | ELEC<br>OCT 2016 | % CHG | Open<br>Outcry<br>Y.T.D 2017 | Open<br>Outcry<br>Y.T.D 2016 | % CHG   | ELEC<br>Y.T.D 2017 | ELEC<br>Y.T.D<br>2016 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|---------|------------------|------------------|-------|------------------------------|------------------------------|---------|--------------------|-----------------------|----------|
| <b>Energy Options</b>     |                            |                            |         |                  |                  |       |                              |                              |         |                    |                       |          |
| CRUDE OIL APO             | 0                          | 74                         | -100.0% | 10               | 0                | 0     | 0                            | 7,251                        | -100.0% | 70                 | 0                     | 0.0%     |
| NATURAL GAS 3 M CSO FIN   | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 250                          | -100.0% | 0                  | 0                     | 0.0%     |
| NATURAL GAS 1 M CSO FIN   | 0                          | 0                          | 0.0%    | 500              | 0                | 0     | 0                            | 200                          | -100.0% | 3,920              | 0                     | 0.0%     |
| WTI CRUDE OIL 1 M CSO FI  | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 4,000              | 26,126                | -84.7%   |
| CRUDE OIL PHY             | 0                          | 4,922                      | -100.0% | 2,392,596        | 2,437,668        | -0.02 | 0                            | 220,408                      | -100.0% | 29,640,686         | 27,920,424            | 6.2%     |
| RBOB CALENDAR SWAP        | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 50                           | -100.0% | 10                 | 0                     | 0.0%     |
| RBOB 1MO CAL SPD OPTIONS  | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| NY HARBOR HEAT OIL SWP    | 0                          | 55                         | -100.0% | 15               | 0                | 0     | 0                            | 1,572                        | -100.0% | 483                | 6                     | 7,950.0% |
| PJM MONTHLY               | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| WTI-BRENT BULLET SWAP     | 0                          | 0                          | 0.0%    | 26,444           | 0                | 0     | 0                            | 0                            | 0.0%    | 41,604             | 0                     | 0.0%     |
| HEATING OIL CRACK OPTIONS | 0                          | -                          | -       | 0                | -                |       | 0                            | -                            | -       | 0                  | -                     | -        |
| HO 1 MONTH CLNDR OPTIONS  | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| NG HH 3 MONTH CAL         | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 500                          | -100.0% | 0                  | 0                     | 0.0%     |
| CRUDE OIL 1MO             | 0                          | 0                          | 0.0%    | 56,107           | 56,764           | -0.01 | 0                            | 100                          | -100.0% | 322,700            | 590,909               | -45.4%   |
| WTI 12 MONTH CALENDAR OP  | -                          | 0                          | 0.0%    | -                | 0                | 0     | -                            | 0                            | 0.0%    | -                  | 0                     | 0.0%     |
| NYMEX EUROPEAN GASOIL A   | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| NYMEX EUROPEAN GASOIL O   | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| PETRO OUTRIGHT EURO       | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| NYISO ZONE G 5MW PEAK OP  | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| PETROCHEMICALS            | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 8                  | 10                    | -20.0%   |
| NATURAL GAS OPTION ON CA  | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| ELEC MISO PEAK            | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| EUROPEAN JET KEROSENE N   | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| PJM CALENDAR STRIP        | -                          | 0                          | 0.0%    | -                | 0                | 0     | -                            | 0                            | 0.0%    | -                  | 0                     | 0.0%     |
| CRUDE OIL OUTRIGHTS       | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| APPALACHIAN COAL          | -                          | 0                          | 0.0%    | -                | 0                | 0     | -                            | 0                            | 0.0%    | -                  | 0                     | 0.0%     |
| HEATING OIL CRK SPD AVG P | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| ELECTRICITY OFF PEAK      | -                          | 0                          | 0.0%    | -                | 0                | 0     | -                            | 0                            | 0.0%    | -                  | 0                     | 0.0%     |
| ELEC FINSETTLED           | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| CRUDE OIL CALNDR STRIP    | -                          | 0                          | 0.0%    | -                | 0                | 0     | -                            | 0                            | 0.0%    | -                  | 0                     | 0.0%     |
| NATURAL GAS 5 M CSO FIN   | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| MCCLOSKEY ARA ARGS COAL   | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| MCCLOSKEY RCH BAY COAL    | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| NATURAL GAS 2 M CSO FIN   | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>OCT 2017 | Open<br>Outcry<br>OCT 2016 | % CHG | ELEC<br>OCT 2017 | ELEC<br>OCT 2016 | % CHG | Open<br>Outcry<br>Y.T.D 2017 | Open<br>Outcry<br>Y.T.D 2016 | % CHG | ELEC<br>Y.T.D 2017 | ELEC<br>Y.T.D<br>2016 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|-------|------------------|------------------|-------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| <b>Energy Options</b>     |                            |                            |       |                  |                  |       |                              |                              |       |                    |                       |          |
| NATURAL GAS 6 M CSO FIN   | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GASOIL CRACK SPREAD AVG   | -                          | 0                          | 0.0%  | -                | 0                | 0     | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| SINGAPORE GASOIL CALEDA   | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ETHANOL SWAP              | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SHORT TERM NATURAL GAS    | 0                          | 0                          | 0.0%  | 924              | 0                | 0     | 0                            | 0                            | 0.0%  | 1,102              | 0                     | 0.0%     |
| SHORT TERM                | 0                          | 0                          | 0.0%  | 192              | 0                | 0     | 0                            | 0                            | 0.0%  | 252                | 0                     | 0.0%     |
| NATURAL GAS 12 M CSO FIN  | -                          | 0                          | 0.0%  | -                | 0                | 0     | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| SHORT TERM CRUDE OIL      | -                          | 0                          | 0.0%  | -                | 0                | 0     | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| COAL SWAP                 | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| DAILY CRUDE OIL           | -                          | 0                          | 0.0%  | -                | 0                | 0     | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| PJM ELECTRIC              | -                          | 0                          | 0.0%  | -                | 0                | 0     | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| PJM WES HUB PEAK CAL MTH  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM WES HUB PEAK LMP 50M  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| LLS CRUDE OIL             | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| EURO-DENOMINATED PETRO    | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| COAL API2 INDEX           | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GASOLINE                  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| COAL API4 INDEX           | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| 1 MO GASOIL CAL SWAP SPR  | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| 12 MO GASOIL CAL SWAP SPR | 0                          | -                          | -     | 0                | -                |       | 0                            | -                            | -     | 0                  | -                     | -        |
| BRENT CRUDE OIL 12 M CSO  | 0                          | -                          | -     | 0                | -                |       | 0                            | -                            | -     | 0                  | -                     | -        |

### FX Futures

|                     |     |     |         |           |           |       |       |       |        |            |            |       |
|---------------------|-----|-----|---------|-----------|-----------|-------|-------|-------|--------|------------|------------|-------|
| AUSTRALIAN DOLLAR   | 0   | 281 | -100.0% | 2,238,610 | 1,857,451 | 0.21  | 1,537 | 1,733 | -11.3% | 19,984,558 | 21,186,252 | -5.7% |
| BRITISH POUND       | 1   | 553 | -99.8%  | 2,566,333 | 2,709,798 | -0.05 | 249   | 1,413 | -82.4% | 25,042,717 | 23,792,144 | 5.3%  |
| BRAZIL REAL         | 0   | 0   | 0.0%    | 107,412   | 43,631    | 1.46  | 0     | 0     | 0.0%   | 563,043    | 475,900    | 18.3% |
| CANADIAN DOLLAR     | 152 | 230 | -33.9%  | 1,552,269 | 1,503,266 | 0.03  | 2,684 | 977   | 174.7% | 15,931,465 | 15,633,308 | 1.9%  |
| E-MINI EURO FX      | 0   | 0   | 0.0%    | 80,520    | 55,493    | 0.45  | 0     | 0     | 0.0%   | 944,186    | 749,420    | 26.0% |
| EURO FX             | 72  | 394 | -81.7%  | 4,692,140 | 3,340,405 | 0.4   | 2,673 | 7,802 | -65.7% | 46,036,150 | 39,537,916 | 16.4% |
| E-MINI JAPANESE YEN | 0   | 0   | 0.0%    | 10,340    | 18,458    | -0.44 | 0     | 0     | 0.0%   | 297,511    | 326,031    | -8.7% |
| JAPANESE YEN        | 28  | 357 | -92.2%  | 3,415,336 | 2,332,374 | 0.46  | 8,935 | 3,956 | 125.9% | 34,833,682 | 29,442,091 | 18.3% |

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|                       | Open<br>Outcry<br>OCT 2017 | Open<br>Outcry<br>OCT 2016 | % CHG | ELEC<br>OCT 2017 | ELEC<br>OCT 2016 | % CHG | Open<br>Outcry<br>Y.T.D 2017 | Open<br>Outcry<br>Y.T.D 2016 | % CHG   | ELEC<br>Y.T.D 2017 | ELEC<br>Y.T.D<br>2016 | %<br>CHG  |
|-----------------------|----------------------------|----------------------------|-------|------------------|------------------|-------|------------------------------|------------------------------|---------|--------------------|-----------------------|-----------|
| <b>FX Futures</b>     |                            |                            |       |                  |                  |       |                              |                              |         |                    |                       |           |
| MEXICAN PESO          | 0                          | 0                          | 0.0%  | 1,165,634        | 1,086,633        | 0.07  | 5                            | 0                            | 0.0%    | 10,480,867         | 11,495,167            | -8.8%     |
| NEW ZEALND DOLLAR     | 0                          | 0                          | 0.0%  | 572,309          | 470,683          | 0.22  | 0                            | 0                            | 0.0%    | 5,172,000          | 4,750,044             | 8.9%      |
| NKR/USD CROSS RATE    | 0                          | 0                          | 0.0%  | 1,254            | 807              | 0.55  | 0                            | 0                            | 0.0%    | 17,996             | 16,397                | 9.8%      |
| RUSSIAN RUBLE         | 0                          | 0                          | 0.0%  | 23,489           | 12,807           | 0.83  | 0                            | 0                            | 0.0%    | 343,768            | 260,519               | 32.0%     |
| S.AFRICAN RAND        | 0                          | 0                          | 0.0%  | 41,968           | 21,359           | 0.96  | 0                            | 0                            | 0.0%    | 455,322            | 175,510               | 159.4%    |
| SWISS FRANC           | 0                          | 0                          | 0.0%  | 532,180          | 447,319          | 0.19  | 0                            | 0                            | 0.0%    | 5,690,482          | 4,697,868             | 21.1%     |
| AD/CD CROSS RATES     | 0                          | 0                          | 0.0%  | 1                | 4                | -0.75 | 0                            | 0                            | 0.0%    | 38                 | 54                    | -29.6%    |
| AD/JY CROSS RATES     | 0                          | 0                          | 0.0%  | 2,596            | 1,966            | 0.32  | 0                            | 0                            | 0.0%    | 24,542             | 37,453                | -34.5%    |
| AD/NE CROSS RATES     | 0                          | 0                          | 0.0%  | 130              | 9                | 13.44 | 0                            | 0                            | 0.0%    | 889                | 679                   | 30.9%     |
| BP/JY CROSS RATES     | 0                          | 0                          | 0.0%  | 3,250            | 1,147            | 1.83  | 0                            | 0                            | 0.0%    | 28,494             | 18,451                | 54.4%     |
| BP/SF CROSS RATES     | 0                          | 0                          | 0.0%  | 40               | 65               | -0.38 | 0                            | 0                            | 0.0%    | 737                | 431                   | 71.0%     |
| CD/JY CROSS RATES     | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 554                | 11                    | 4,936.4%  |
| EC/AD CROSS RATES     | 0                          | 0                          | 0.0%  | 1,973            | 613              | 2.22  | 0                            | 0                            | 0.0%    | 23,514             | 16,835                | 39.7%     |
| EC/CD CROSS RATES     | 0                          | 0                          | 0.0%  | 4,030            | 1,727            | 1.33  | 0                            | 0                            | 0.0%    | 43,432             | 24,774                | 75.3%     |
| EC/NOK CROSS RATES    | 0                          | 0                          | 0.0%  | 724              | 0                | 0     | 0                            | 0                            | 0.0%    | 2,010              | 9                     | 22,233.3% |
| EC/SEK CROSS RATES    | 0                          | 0                          | 0.0%  | 888              | 108              | 7.22  | 0                            | 0                            | 0.0%    | 6,277              | 708                   | 786.6%    |
| EFX/BP CROSS RATES    | 0                          | 0                          | 0.0%  | 57,364           | 67,431           | -0.15 | 0                            | 0                            | 0.0%    | 704,954            | 708,677               | -0.5%     |
| EFX/JY CROSS RATES    | 0                          | 0                          | 0.0%  | 53,580           | 24,328           | 1.2   | 0                            | 0                            | 0.0%    | 643,755            | 386,334               | 66.6%     |
| EFX/SF CROSS RATES    | 0                          | 0                          | 0.0%  | 23,151           | 24,758           | -0.06 | 0                            | 0                            | 0.0%    | 333,337            | 303,848               | 9.7%      |
| SF/JY CROSS RATES     | 0                          | -                          | -     | 0                | -                |       | 0                            | -                            | -       | 0                  | -                     | -         |
| SKR/USD CROSS RATES   | 0                          | 0                          | 0.0%  | 1,430            | 1,059            | 0.35  | 0                            | 0                            | 0.0%    | 20,328             | 14,975                | 35.7%     |
| HUNGARIAN FORINT (US) | -                          | 0                          | 0.0%  | -                | 0                | 0     | -                            | 0                            | 0.0%    | -                  | 0                     | 0.0%      |
| POLISH ZLOTY (US)     | 0                          | 0                          | 0.0%  | 38               | 1,059            | -0.96 | 0                            | 0                            | 0.0%    | 980                | 5,379                 | -81.8%    |
| POLISH ZLOTY (EC)     | 0                          | 0                          | 0.0%  | 7                | 32               | -0.78 | 0                            | 0                            | 0.0%    | 388                | 4,636                 | -91.6%    |
| SHEKEL                | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%      |
| RMB USD               | 0                          | 0                          | 0.0%  | 4                | 49               | -0.92 | 0                            | 6                            | -100.0% | 280                | 1,782                 | -84.3%    |
| KOREAN WON            | 0                          | 0                          | 0.0%  | 25               | 0                | 0     | 0                            | 0                            | 0.0%    | 200                | 167                   | 19.8%     |
| TURKISH LIRA          | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 12                 | 0                     | 0.0%      |
| TURKISH LIRA (EU)     | -                          | 0                          | 0.0%  | -                | 0                | 0     | -                            | 0                            | 0.0%    | -                  | 0                     | 0.0%      |
| E-MICRO EUR/USD       | 0                          | 0                          | 0.0%  | 230,858          | 210,672          | 0.1   | 0                            | 0                            | 0.0%    | 2,542,085          | 2,744,721             | -7.4%     |
| E-MICRO GBP/USD       | 0                          | 0                          | 0.0%  | 55,130           | 138,409          | -0.6  | 0                            | 0                            | 0.0%    | 576,608            | 841,050               | -31.4%    |
| E-MICRO USD/CAD       | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 22                    | -100.0%   |
| E-MICRO USD/CHF       | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 1                     | -100.0%   |
| E-MICRO USD/JPY       | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 4                     | -100.0%   |

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## CME Group Exchange Volume Comparison Report - Monthly

|                        | Open<br>Outcry<br>OCT 2017 | Open<br>Outcry<br>OCT 2016 | % CHG | ELEC<br>OCT 2017 | ELEC<br>OCT 2016 | % CHG | Open<br>Outcry<br>Y.T.D 2017 | Open<br>Outcry<br>Y.T.D 2016 | % CHG | ELEC<br>Y.T.D 2017 | ELEC<br>Y.T.D 2016 | %<br>CHG |
|------------------------|----------------------------|----------------------------|-------|------------------|------------------|-------|------------------------------|------------------------------|-------|--------------------|--------------------|----------|
| <b>FX Futures</b>      |                            |                            |       |                  |                  |       |                              |                              |       |                    |                    |          |
| E-MICRO AUD/USD        | 0                          | 0                          | 0.0%  | 81,737           | 100,626          | -0.19 | 0                            | 0                            | 0.0%  | 862,879            | 1,022,659          | -15.6%   |
| MICRO CHF/USD          | 0                          | 0                          | 0.0%  | 1,096            | 1,626            | -0.33 | 0                            | 0                            | 0.0%  | 9,670              | 18,793             | -48.5%   |
| E-MICRO JPY/USD        | 0                          | 0                          | 0.0%  | 30,264           | 20,655           | 0.47  | 0                            | 0                            | 0.0%  | 389,702            | 287,372            | 35.6%    |
| E-MICRO INR/USD        | 0                          | 0                          | 0.0%  | 2,412            | 1,921            | 0.26  | 0                            | 0                            | 0.0%  | 25,681             | 20,903             | 22.9%    |
| FCXRX                  | 0                          | 0                          | 0.0%  | 0                | 3,018            | -1    | 0                            | 0                            | 0.0%  | 6,243              | 4,313              | 44.7%    |
| E-MICRO USD/CNH        | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 61                 | -100.0%  |
| CHINESE RENMINBI (CNH) | 0                          | 0                          | 0.0%  | 1,656            | 1,480            | 0.12  | 0                            | 0                            | 0.0%  | 15,424             | 13,455             | 14.6%    |
| E-MICRO CAD/USD        | 0                          | 0                          | 0.0%  | 19,073           | 22,946           | -0.17 | 0                            | 0                            | 0.0%  | 205,166            | 211,628            | -3.1%    |
| INDIAN RUPEE           | 0                          | 0                          | 0.0%  | 53,432           | 10,602           | 4.04  | 0                            | 0                            | 0.0%  | 357,921            | 120,440            | 197.2%   |
| USDZAR                 | 0                          | 0                          | 0.0%  | 0                | 0                | 0     | 0                            | 0                            | 0.0%  | 0                  | 6                  | -100.0%  |

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## CME Group Exchange Volume Comparison Report - Monthly

|                      | Open<br>Outcry<br>OCT 2017 | Open<br>Outcry<br>OCT 2016 | % CHG   | ELEC<br>OCT 2017 | ELEC<br>OCT 2016 | % CHG | Open<br>Outcry<br>Y.T.D 2017 | Open<br>Outcry<br>Y.T.D 2016 | % CHG      | ELEC<br>Y.T.D 2017 | ELEC<br>Y.T.D<br>2016 | %<br>CHG |
|----------------------|----------------------------|----------------------------|---------|------------------|------------------|-------|------------------------------|------------------------------|------------|--------------------|-----------------------|----------|
| <b>FX Options</b>    |                            |                            |         |                  |                  |       |                              |                              |            |                    |                       |          |
| AUSTRALIAN DOLLAR    | 0                          | 280                        | -100.0% | 0                | 83,441           | -1    | 2,674                        | 12,786                       | -79.1%     | 200,250            | 1,303,449             | -84.6%   |
| BRITISH POUND        | 0                          | 2,147                      | -100.0% | 0                | 238,245          | -1    | 693                          | 34,110                       | -98.0%     | 462,114            | 1,994,472             | -76.8%   |
| CANADIAN DOLLAR      | 0                          | 1,357                      | -100.0% | 0                | 76,321           | -1    | 4,597                        | 24,810                       | -81.5%     | 183,080            | 1,322,155             | -86.2%   |
| EURO FX              | 0                          | 5,290                      | -100.0% | 0                | 428,776          | -1    | 8,535                        | 102,424                      | -91.7%     | 1,287,538          | 6,452,556             | -80.0%   |
| JAPANESE YEN         | 0                          | 2,757                      | -100.0% | 0                | 206,021          | -1    | 8,468                        | 62,668                       | -86.5%     | 544,469            | 2,856,815             | -80.9%   |
| MEXICAN PESO         | 820                        | 2,410                      | -66.0%  | 2,970            | 5,984            | -0.5  | 1,590                        | 4,733                        | -66.4%     | 23,440             | 33,102                | -29.2%   |
| NEW ZEALND DOLLAR    | -                          | 0                          | 0.0%    | -                | 0                | 0     | -                            | 0                            | 0.0%       | -                  | 0                     | 0.0%     |
| RUSSIAN RUBLE        | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%       | 0                  | 0                     | 0.0%     |
| SWISS FRANC          | 0                          | 0                          | 0.0%    | 0                | 4,110            | -1    | 0                            | 272                          | -100.0%    | 5,710              | 61,773                | -90.8%   |
| JAPANESE YEN (EU)    | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%       | 180                | 5,899                 | -96.9%   |
| EURO FX (EU)         | 0                          | 5                          | -100.0% | 46               | 79               | -0.42 | 0                            | 5                            | -100.0%    | 489                | 28,458                | -98.3%   |
| SWISS FRANC (EU)     | 0                          | -                          | -       | 0                | -                | -     | 0                            | -                            | -          | 15                 | -                     | -        |
| CANADIAN DOLLAR (EU) | 0                          | 0                          | 0.0%    | 0                | 15               | -1    | 0                            | 0                            | 0.0%       | 111                | 1,804                 | -93.8%   |
| BRITISH POUND (EU)   | 0                          | 0                          | 0.0%    | 1,605            | 69               | 22.26 | 0                            | 0                            | 0.0%       | 4,251              | 9,151                 | -53.5%   |
| AUSTRALIAN DLR (EU)  | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%       | 2                  | 1,146                 | -99.8%   |
| EUR/USD PQO 2pm Fix  | 3,623                      | 1,190                      | 204.5%  | 843,048          | 100,906          | 7.35  | 28,128                       | 1,702                        | 1,552.6%   | 6,269,549          | 149,951               | 4,081.1% |
| CAD/USD PQO 2pm Fix  | 1,079                      | 510                        | 111.6%  | 179,759          | 31,074           | 4.78  | 5,200                        | 510                          | 919.6%     | 1,385,654          | 51,989                | 2,565.3% |
| JPY/USD PQO 2pm Fix  | 705                        | 0                          | 0.0%    | 254,193          | 36,611           | 5.94  | 33,878                       | 19                           | 178,205.3% | 2,546,558          | 67,077                | 3,696.5% |
| AUD/USD PQO 2pm Fix  | 0                          | 1,680                      | -100.0% | 122,246          | 22,261           | 4.49  | 5,746                        | 1,980                        | 190.2%     | 1,084,976          | 36,437                | 2,877.7% |
| GBP/USD PQO 2pm Fix  | 57                         | 1,283                      | -95.6%  | 320,768          | 51,605           | 5.22  | 4,745                        | 1,323                        | 258.7%     | 2,041,627          | 75,876                | 2,590.7% |
| CHF/USD PQO 2pm Fix  | 0                          | 0                          | 0.0%    | 12,157           | 1,418            | 7.57  | 0                            | 0                            | 0.0%       | 34,471             | 2,457                 | 1,303.0% |
| OTC AUDUSD SUB       | 0                          | -                          | -       | 137              | -                | -     | 0                            | -                            | -          | 137                | -                     | -        |
| OTC GBPUSD SUB       | 0                          | -                          | -       | 230              | -                | -     | 0                            | -                            | -          | 230                | -                     | -        |
| CANADIAN DOLLAR VOL  | 0                          | -                          | -       | 299              | -                | -     | 0                            | -                            | -          | 299                | -                     | -        |
| EURO FX VOL          | 0                          | -                          | -       | 886              | -                | -     | 0                            | -                            | -          | 886                | -                     | -        |
| JAPANESE YEN VOL     | 0                          | -                          | -       | 170              | -                | -     | 0                            | -                            | -          | 170                | -                     | -        |
| OTC CADUSD SUB       | 0                          | -                          | -       | 50               | -                | -     | 0                            | -                            | -          | 50                 | -                     | -        |

### Commodities and Alternative Investments

#### Futures

|         |        |        |        |           |           |      |         |         |        |            |            |        |
|---------|--------|--------|--------|-----------|-----------|------|---------|---------|--------|------------|------------|--------|
| CORN    | 35,654 | 37,541 | -5.0%  | 5,649,487 | 5,091,869 | 0.11 | 342,673 | 424,338 | -19.2% | 72,625,059 | 70,536,120 | 3.0%   |
| SOYBEAN | 11,139 | 29,898 | -62.7% | 5,663,871 | 5,483,896 | 0.03 | 147,044 | 306,857 | -52.1% | 43,280,799 | 50,324,457 | -14.0% |

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## CME Group Exchange Volume Comparison Report - Monthly

|  | Open<br>Outcry<br>OCT 2017 | Open<br>Outcry<br>OCT 2016 | % CHG   | ELEC<br>OCT 2017 | ELEC<br>OCT 2016 | % CHG | Open<br>Outcry<br>Y.T.D 2017 | Open<br>Outcry<br>Y.T.D 2016 | % CHG  | ELEC<br>Y.T.D 2017 | ELEC<br>Y.T.D<br>2016 | %<br>CHG |
|--|----------------------------|----------------------------|---------|------------------|------------------|-------|------------------------------|------------------------------|--------|--------------------|-----------------------|----------|
| <b>Commodities and Alternative Investments</b> |                            |                            |         |                  |                  |       |                              |                              |        |                    |                       |          |
| <b>Futures</b>                                 |                            |                            |         |                  |                  |       |                              |                              |        |                    |                       |          |
| SOYBEAN MEAL                                   | 1,751                      | 3,017                      | -42.0%  | 1,715,538        | 1,902,971        | -0.1  | 22,128                       | 47,133                       | -53.1% | 20,125,099         | 20,905,901            | -3.7%    |
| SOYBEAN OIL                                    | 5,078                      | 5,832                      | -12.9%  | 2,074,531        | 2,340,348        | -0.11 | 38,882                       | 45,757                       | -15.0% | 23,791,677         | 23,062,748            | 3.2%     |
| OATS   | 0                          | 0                          | 0.0%    | 10,906           | 20,616           | -0.47 | 80                           | 60                           | 33.3%  | 126,888            | 181,082               | -29.9%   |
| ROUGH RICE                                     | 0                          | 0                          | 0.0%    | 27,925           | 35,213           | -0.21 | 0                            | 0                            | 0.0%   | 219,084            | 248,712               | -11.9%   |
| WHEAT  | 0                          | 0                          | 0.0%    | 224              | 44,388           | -0.99 | 0                            | 0                            | 0.0%   | 119,104            | 65,098                | 83.0%    |
| MINI CORN                                      | 0                          | 0                          | 0.0%    | 6,448            | 11,682           | -0.45 | 0                            | 0                            | 0.0%   | 95,326             | 119,363               | -20.1%   |
| MINI SOYBEAN                                   | 0                          | 0                          | 0.0%    | 27,257           | 35,485           | -0.23 | 0                            | 0                            | 0.0%   | 170,899            | 243,748               | -29.9%   |
| MINI WHEAT                                     | 0                          | 0                          | 0.0%    | 3,634            | 5,393            | -0.33 | 0                            | 0                            | 0.0%   | 59,900             | 64,190                | -6.7%    |
| LIVE CATTLE                                    | 4,394                      | 2,022                      | 117.3%  | 1,219,436        | 1,025,850        | 0.19  | 36,535                       | 34,211                       | 6.8%   | 13,599,001         | 10,751,895            | 26.5%    |
| FEEDER CATTLE                                  | 70                         | 0                          | 0.0%    | 328,772          | 251,269          | 0.31  | 525                          | 280                          | 87.5%  | 3,016,383          | 2,145,270             | 40.6%    |
| LEAN HOGS                                      | 5,698                      | 3,518                      | 62.0%   | 941,656          | 758,013          | 0.24  | 30,739                       | 22,926                       | 34.1%  | 9,335,576          | 7,405,411             | 26.1%    |
| LUMBER   | 0                          | 0                          | 0.0%    | 21,462           | 16,400           | 0.31  | 0                            | 0                            | 0.0%   | 166,661            | 147,382               | 13.1%    |
| MILK   | 125                        | 284                        | -56.0%  | 22,058           | 23,847           | -0.08 | 1,085                        | 1,157                        | -6.2%  | 265,235            | 253,888               | 4.5%     |
| MLK MID  | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%   | 0                  | 0                     | 0.0%     |
| NFD MILK                                       | 0                          | 13                         | -100.0% | 6,943            | 5,419            | 0.28  | 14                           | 13                           | 7.7%   | 51,043             | 47,356                | 7.8%     |
| BUTTER CS                                      | 0                          | 0                          | 0.0%    | 3,576            | 4,744            | -0.25 | 0                            | 0                            | 0.0%   | 31,821             | 32,646                | -2.5%    |
| CLASS IV MILK                                  | 12                         | 70                         | -82.9%  | 497              | 1,828            | -0.73 | 79                           | 70                           | 12.9%  | 9,596              | 11,234                | -14.6%   |
| DRY WHEY                                       | 0                          | 0                          | 0.0%    | 1,066            | 1,820            | -0.41 | 0                            | 0                            | 0.0%   | 17,235             | 12,366                | 39.4%    |
| GSCI EXCESS RETURN FUT                         | 0                          | 0                          | 0.0%    | 17               | 0                | 0     | 0                            | 0                            | 0.0%   | 1,065              | 1,119                 | -4.8%    |
| GOLDMAN SACHS                                  | 0                          | 0                          | 0.0%    | 34,500           | 33,492           | 0.03  | 0                            | 0                            | 0.0%   | 340,394            | 285,358               | 19.3%    |
| HDD WEATHER                                    | 0                          | 0                          | 0.0%    | 0                | 50               | -1    | 0                            | 0                            | 0.0%   | 50                 | 328                   | -84.8%   |
| CDD WEATHER                                    | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%   | 25                 | 400                   | -93.8%   |
| HDD SEASONAL STRIP                             | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%   | 0                  | 0                     | 0.0%     |
| CDD SEASONAL STRIP                             | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%   | 0                  | 0                     | 0.0%     |
| HDD WEATHER EUROPEAN                           | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%   | 50                 | 100                   | -50.0%   |
| CAT WEATHER EUROPEAN                           | -                          | 0                          | 0.0%    | -                | 0                | 0     | -                            | 0                            | 0.0%   | -                  | 0                     | 0.0%     |
| HDD EURO SEASONAL STRIP                        | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%   | 0                  | 50                    | -100.0%  |
| CAT EURO SEASONAL STRIP                        | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%   | 0                  | 0                     | 0.0%     |
| HOUSING INDEX                                  | 0                          | 0                          | 0.0%    | 9                | 14               | -0.36 | 0                            | 0                            | 0.0%   | 131                | 93                    | 40.9%    |
| DOW-UBS COMMOD INDEX                           | 0                          | 0                          | 0.0%    | 76,737           | 16,596           | 3.62  | 0                            | 0                            | 0.0%   | 811,578            | 322,280               | 151.8%   |
| COTTON   | 0                          | 0                          | 0.0%    | 0                | 9                | -1    | 0                            | 0                            | 0.0%   | 16                 | 575                   | -97.2%   |
| COCOA TAS                                      | 0                          | 0                          | 0.0%    | 3                | 30               | -0.9  | 0                            | 0                            | 0.0%   | 86                 | 2,580                 | -96.7%   |
| COFFEE   | 0                          | 0                          | 0.0%    | 0                | 3                | -1    | 0                            | 0                            | 0.0%   | 40                 | 168                   | -76.2%   |
| SUGAR 11                                       | 0                          | 0                          | 0.0%    | 0                | 2                | -1    | 0                            | 0                            | 0.0%   | 42                 | 415                   | -89.9%   |

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## CME Group Exchange Volume Comparison Report - Monthly

|  | Open<br>Outcry<br>OCT 2017 | Open<br>Outcry<br>OCT 2016 | % CHG  | ELEC<br>OCT 2017 | ELEC<br>OCT 2016 | % CHG | Open<br>Outcry<br>Y.T.D 2017 | Open<br>Outcry<br>Y.T.D 2016 | % CHG   | ELEC<br>Y.T.D 2017 | ELEC<br>Y.T.D<br>2016 | %<br>CHG |
|--|----------------------------|----------------------------|--------|------------------|------------------|-------|------------------------------|------------------------------|---------|--------------------|-----------------------|----------|
| <b>Commodities and<br/>Alternative Investments</b> |                            |                            |        |                  |                  |       |                              |                              |         |                    |                       |          |
| <b>Futures</b>                                     |                            |                            |        |                  |                  |       |                              |                              |         |                    |                       |          |
| USD CRUDE PALM OIL                                 | 0                          | 0                          | 0.0%   | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| CASH-SETTLED CHEESE                                | 0                          | 0                          | 0.0%   | 10,723           | 8,042            | 0.33  | 0                            | 6                            | -100.0% | 98,178             | 101,081               | -2.9%    |
| FERTILIZER PRODUCS                                 | 0                          | 0                          | 0.0%   | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| CHI WHEAT  | 5,665                      | 16,109                     | -64.8% | 2,186,867        | 2,174,818        | 0.01  | 149,441                      | 169,127                      | -11.6%  | 28,073,995         | 25,858,460            | 8.6%     |
| DJ_UBS ROLL SELECT INDEX                           | 0                          | 0                          | 0.0%   | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| KC WHEAT   | 66                         | 240                        | -72.5% | 698,200          | 687,329          | 0.02  | 9,688                        | 12,325                       | -21.4%  | 10,080,132         | 7,635,142             | 32.0%    |
| Intercommodity Spread                              | 0                          | 0                          | 0.0%   | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| PALM OIL   | 0                          | 0                          | 0.0%   | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| MALAYSIAN PALM SWAP                                | 0                          | 0                          | 0.0%   | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| S&P GSCI ENHANCED ER SWA                           | 0                          | 0                          | 0.0%   | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| <b>Commodities and<br/>Alternative Investments</b> |                            |                            |        |                  |                  |       |                              |                              |         |                    |                       |          |
| <b>Options</b>                                     |                            |                            |        |                  |                  |       |                              |                              |         |                    |                       |          |
| CORN   | 461,338                    | 501,161                    | -7.9%  | 1,230,062        | 1,077,572        | 0.14  | 6,046,449                    | 7,131,029                    | -15.2%  | 15,332,602         | 13,255,551            | 15.7%    |
| SOYBEAN  | 232,172                    | 319,498                    | -27.3% | 1,050,410        | 906,630          | 0.16  | 3,008,597                    | 4,448,105                    | -32.4%  | 11,635,232         | 13,330,746            | -12.7%   |
| SOYBEAN MEAL                                       | 40,644                     | 50,480                     | -19.5% | 90,704           | 98,924           | -0.08 | 538,585                      | 636,465                      | -15.4%  | 1,196,542          | 1,345,295             | -11.1%   |
| SOYBEAN OIL  | 54,062                     | 82,700                     | -34.6% | 104,670          | 77,821           | 0.35  | 792,088                      | 945,404                      | -16.2%  | 946,299            | 987,363               | -4.2%    |
| SOYBEAN CRUSH                                      | 20                         | 89                         | -77.5% | 0                | 0                | 0     | 640                          | 4,773                        | -86.6%  | 0                  | 0                     | 0.0%     |
| OATS   | 300                        | 1,382                      | -78.3% | 777              | 1,850            | -0.58 | 5,501                        | 6,066                        | -9.3%   | 6,947              | 8,126                 | -14.5%   |
| ROUGH RICE   | 608                        | 199                        | 205.5% | 1,244            | 1,046            | 0.19  | 10,535                       | 2,413                        | 336.6%  | 10,642             | 15,256                | -30.2%   |
| WHEAT  | 0                          | 0                          | 0.0%   | 26               | 105              | -0.75 | 997                          | 0                            | 0.0%    | 453                | 357                   | 26.9%    |
| LIVE CATTLE  | 48,761                     | 62,054                     | -21.4% | 226,637          | 227,193          | 0     | 507,861                      | 1,143,681                    | -55.6%  | 1,956,317          | 2,387,344             | -18.1%   |
| FEEDER CATTLE                                      | 5,692                      | 5,402                      | 5.4%   | 32,579           | 32,554           | 0     | 45,322                       | 45,857                       | -1.2%   | 304,461            | 305,978               | -0.5%    |
| LEAN HOGS  | 36,795                     | 33,690                     | 9.2%   | 218,900          | 189,256          | 0.16  | 306,630                      | 377,051                      | -18.7%  | 1,868,349          | 1,478,599             | 26.4%    |
| LUMBER   | 1                          | 5                          | -80.0% | 1,765            | 1,675            | 0.05  | 43                           | 110                          | -60.9%  | 11,852             | 10,268                | 15.4%    |
| MILK   | 10,493                     | 10,694                     | -1.9%  | 23,270           | 23,224           | 0     | 116,829                      | 125,744                      | -7.1%   | 233,961            | 171,641               | 36.3%    |
| MLK MID  | 88                         | 43                         | 104.7% | 0                | 0                | 0     | 614                          | 582                          | 5.5%    | 0                  | 0                     | 0.0%     |
| NFD MILK   | 1,603                      | 1,462                      | 9.6%   | 5,444            | 1,941            | 1.8   | 14,299                       | 19,979                       | -28.4%  | 29,021             | 12,267                | 136.6%   |
| BUTTER CS  | 849                        | 615                        | 38.0%  | 1,944            | 680              | 1.86  | 10,640                       | 9,552                        | 11.4%   | 7,020              | 2,553                 | 175.0%   |
| CLASS IV MILK                                      | 467                        | 409                        | 14.2%  | 1,393            | 682              | 1.04  | 2,955                        | 2,838                        | 4.1%    | 14,485             | 8,084                 | 79.2%    |
| DRY WHEY   | 532                        | 121                        | 339.7% | 927              | 0                | 0     | 3,124                        | 902                          | 246.3%  | 2,154              | 55                    | 3,816.4% |
| HDD WEATHER  | 0                          | 0                          | 0.0%   | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| CDD WEATHER  | 0                          | 0                          | 0.0%   | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|  | Open<br>Outcry<br>OCT 2017 | Open<br>Outcry<br>OCT 2016 | % CHG   | ELEC<br>OCT 2017 | ELEC<br>OCT 2016 | % CHG | Open<br>Outcry<br>Y.T.D 2017 | Open<br>Outcry<br>Y.T.D 2016 | % CHG   | ELEC<br>Y.T.D 2017 | ELEC<br>Y.T.D 2016 | %<br>CHG |
|--|----------------------------|----------------------------|---------|------------------|------------------|-------|------------------------------|------------------------------|---------|--------------------|--------------------|----------|
| <b>Commodities and Alternative Investments</b> |                            |                            |         |                  |                  |       |                              |                              |         |                    |                    |          |
| <b>Options</b>                                 |                            |                            |         |                  |                  |       |                              |                              |         |                    |                    |          |
| HDD SEASONAL STRIP                             | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                  | 0.0%     |
| CDD SEASONAL STRIP                             | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                  | 0.0%     |
| HDD WEATHER EUROPEAN                           | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                  | 0.0%     |
| CAT WEATHER EUROPEAN                           | -                          | 0                          | 0.0%    | -                | 0                | 0     | -                            | 0                            | 0.0%    | -                  | 0                  | 0.0%     |
| HDD EURO SEASONAL STRIP                        | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 0                  | 0                  | 0.0%     |
| HOUSING INDEX                                  | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 0                            | 0.0%    | 42                 | 18                 | 133.3%   |
| CORN NEARBY+2 CAL SPRD                         | 0                          | 2,158                      | -100.0% | 0                | 0                | 0     | 13,758                       | 32,733                       | -58.0%  | 77                 | 82                 | -6.1%    |
| SOYBN NEARBY+2 CAL SPRD                        | 0                          | 1,000                      | -100.0% | 0                | 0                | 0     | 460                          | 1,401                        | -67.2%  | 600                | 0                  | 0.0%     |
| WHEAT NEARBY+2 CAL SPRD                        | 1,965                      | 2,508                      | -21.7%  | 585              | 454              | 0.29  | 11,791                       | 44,486                       | -73.5%  | 4,107              | 1,791              | 129.3%   |
| JULY-DEC CORN CAL SPRD                         | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 17,402                       | 36,609                       | -52.5%  | 0                  | 175                | -100.0%  |
| DEC-JULY WHEAT CAL SPRD                        | 600                        | 415                        | 44.6%   | 200              | 0                | 0     | 1,524                        | 515                          | 195.9%  | 200                | 0                  | 0.0%     |
| JULY-NOV SOYBEAN CAL SPR                       | 0                          | 1,557                      | -100.0% | 0                | 0                | 0     | 69,340                       | 62,026                       | 11.8%   | 1,317              | 263                | 400.8%   |
| JULY-DEC WHEAT CAL SPRD                        | 0                          | 200                        | -100.0% | 0                | 0                | 0     | 1,414                        | 33,374                       | -95.8%  | 200                | 145                | 37.9%    |
| JULY-JULY WHEAT CAL SPRD                       | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 480                          | -100.0% | 0                  | 13                 | -100.0%  |
| NOV-NOV SOYBEAN CAL SPR                        | 43                         | 11                         | 290.9%  | 0                | 0                | 0     | 164                          | 2,982                        | -94.5%  | 0                  | 0                  | 0.0%     |
| SOYMEAL NEARBY+2 CAL SPR                       | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 3,785                        | -100.0% | 0                  | 0                  | 0.0%     |
| LV CATL CSO                                    | 53                         | 5                          | 960.0%  | 0                | 0                | 0     | 1,972                        | 265                          | 644.2%  | 0                  | 0                  | 0.0%     |
| JULY-DEC SOY OIL CAL SPRD                      | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 630                          | 0                            | 0.0%    | 10                 | 0                  | 0.0%     |
| NOV-JULY SOYBEAN CAL SPR                       | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 1,696                        | 0                            | 0.0%    | 0                  | 0                  | 0.0%     |
| SOY OIL NEARBY+2 CAL SPRD                      | -                          | 0                          | 0.0%    | -                | 0                | 0     | -                            | 0                            | 0.0%    | -                  | 0                  | 0.0%     |
| CASH-SETTLED CHEESE                            | 6,658                      | 8,081                      | -17.6%  | 11,191           | 2,367            | 3.73  | 46,534                       | 52,552                       | -11.5%  | 43,255             | 23,117             | 87.1%    |
| DEC-JULY CORN CAL SPRD                         | 6,850                      | 3,915                      | 75.0%   | 0                | 10               | -1    | 39,598                       | 20,203                       | 96.0%   | 0                  | 10                 | -100.0%  |
| WHEAT-CORN ICSCO                               | 200                        | 3,210                      | -93.8%  | 0                | 0                | 0     | 5,535                        | 15,652                       | -64.6%  | 6                  | 0                  | 0.0%     |
| DEC-DEC CORN CAL SPRD                          | 0                          | 34                         | -100.0% | 0                | 0                | 0     | 11,786                       | 17,851                       | -34.0%  | 274                | 15                 | 1,726.7% |
| AUG-NOV SOYBEAN CAL SPR                        | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 103                          | 20                           | 415.0%  | 0                  | 0                  | 0.0%     |
| JAN-MAY SOYBEAN CAL SPRD                       | 0                          | -                          | -       | 0                | -                | -     | 36                           | -                            | -       | 0                  | -                  | -        |
| MAR-DEC CORN CAL SPRD                          | -                          | 0                          | 0.0%    | -                | 0                | 0     | -                            | 0                            | 0.0%    | -                  | 0                  | 0.0%     |
| CHI WHEAT                                      | 96,517                     | 114,576                    | -15.8%  | 381,451          | 347,067          | 0.1   | 1,510,726                    | 1,717,953                    | -12.1%  | 5,090,856          | 4,247,002          | 19.9%    |
| MAR-JULY CORN CAL SPRD                         | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 70                           | 2,416                        | -97.1%  | 0                  | 4                  | -100.0%  |
| KC WHEAT                                       | 7,281                      | 3,220                      | 126.1%  | 20,191           | 7,930            | 1.55  | 147,261                      | 149,642                      | -1.6%   | 321,411            | 156,725            | 105.1%   |
| MAR-JULY WHEAT CAL SPRD                        | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 1,293                        | 1,650                        | -21.6%  | 76                 | 0                  | 0.0%     |
| AUG-DEC SOYBEAN MEAL CS                        | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 0                            | 5                            | -100.0% | 0                  | 0                  | 0.0%     |
| Intercommodity Spread                          | 0                          | 0                          | 0.0%    | 0                | 0                | 0     | 701                          | 3,395                        | -79.4%  | 0                  | 0                  | 0.0%     |
| SEP-DEC SOYBEAN MEAL CSC                       | -                          | 0                          | 0.0%    | -                | 0                | 0     | -                            | 0                            | 0.0%    | -                  | 0                  | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                                  | Open<br>Outcry<br>OCT 2017 | Open<br>Outcry<br>OCT 2016 | % CHG        | ELEC<br>OCT 2017   | ELEC<br>OCT 2016   | % CHG        | Open<br>Outcry<br>Y.T.D 2017 | Open<br>Outcry<br>Y.T.D 2016 | % CHG        | ELEC<br>Y.T.D 2017   | ELEC<br>Y.T.D<br>2016 | %<br>CHG     |
|----------------------------------|----------------------------|----------------------------|--------------|--------------------|--------------------|--------------|------------------------------|------------------------------|--------------|----------------------|-----------------------|--------------|
| <b>Ags Futures</b>               |                            |                            |              |                    |                    |              |                              |                              |              |                      |                       |              |
| FERTILIZER PRODUCTS              | 0                          | -                          | -            | 0                  | -                  |              | 0                            | -                            | -            | 0                    | -                     | -            |
| <b>Foreign Exchange Futures</b>  |                            |                            |              |                    |                    |              |                              |                              |              |                      |                       |              |
| CHILEAN PESO                     | 0                          | 0                          | 0.0%         | 2,697              | 0                  | 0            | 0                            | 6                            | -100.0%      | 17,077               | 4                     | 426,825.0%   |
| <b>TOTAL FUTURES GROUP</b>       |                            |                            |              |                    |                    |              |                              |                              |              |                      |                       |              |
| Interest Rate Futures            | 966,221                    | 555,959                    | 73.8%        | 111,864,621        | 89,802,506         | 24.6%        | 8,023,121                    | 7,195,328                    | 11.5%        | 1,223,251,338        | 1,098,905,527         | 11.3%        |
| Equity Index Futures             | 11,070                     | 35,316                     | -68.7%       | 34,972,484         | 41,851,654         | -16.4%       | 676,179                      | 1,113,843                    | -39.3%       | 410,800,415          | 509,585,183           | -19.4%       |
| Metals Futures                   | 0                          | 3,038                      | -100.0%      | 11,241,222         | 6,830,483          | 64.6%        | 0                            | 101,475                      | -100.0%      | 103,176,197          | 80,492,075            | 28.2%        |
| Energy Futures                   | 0                          | 760                        | -100.0%      | 43,740,125         | 40,518,420         | 8.0%         | 0                            | 27,076                       | -100.0%      | 439,046,833          | 387,387,029           | 13.3%        |
| FX Futures                       | 253                        | 1,815                      | -86.1%       | 17,624,683         | 14,536,794         | 21.2%        | 16,083                       | 15,887                       | 1.2%         | 172,619,847          | 159,349,198           | 8.3%         |
| Commodities and Alternative Inve | 69,652                     | 98,544                     | -29.3%       | 20,732,343         | 19,981,436         | 3.8%         | 778,913                      | 1,064,260                    | -26.8%       | 226,512,168          | 220,767,016           | 2.6%         |
| Ags Futures                      | 0                          | -                          | -            | 0                  | -                  |              | 0                            | -                            | -            | 0                    | -                     | -            |
| Foreign Exchange Futures         | 0                          | 0                          | 0.0%         | 2,697              | 0                  | 0.0%         | 0                            | 6                            | -100.0%      | 17,077               | 4                     | 426,825.0%   |
| <b>TOTAL FUTURES</b>             | <b>1,047,196</b>           | <b>695,432</b>             | <b>50.6%</b> | <b>240,178,175</b> | <b>213,521,293</b> | <b>12.5%</b> | <b>9,494,296</b>             | <b>9,517,875</b>             | <b>-0.2%</b> | <b>2,575,423,875</b> | <b>2,456,486,032</b>  | <b>4.8%</b>  |
| <b>TOTAL OPTIONS GROUP</b>       |                            |                            |              |                    |                    |              |                              |                              |              |                      |                       |              |
| Equity Index Options             | 1,274,766                  | 914,119                    | 39.5%        | 12,542,173         | 11,532,779         | 8.8%         | 11,162,183                   | 11,290,853                   | -1.1%        | 128,569,456          | 118,670,211           | 8.3%         |
| Interest Rate Options            | 22,160,374                 | 14,043,439                 | 57.8%        | 27,032,427         | 11,566,673         | 133.7%       | 202,096,569                  | 196,286,716                  | 3.0%         | 224,219,098          | 137,522,726           | 63.0%        |
| Metals Options                   | 0                          | 25,479                     | -100.0%      | 741,676            | 707,940            | 4.8%         | 0                            | 677,084                      | -100.0%      | 7,811,693            | 6,799,307             | 14.9%        |
| Energy Options                   | 0                          | 7,320                      | -100.0%      | 4,174,875          | 3,428,918          | 21.8%        | 0                            | 277,566                      | -100.0%      | 42,497,366           | 35,733,455            | 18.9%        |
| FX Options                       | 6,284                      | 18,909                     | -66.8%       | 1,738,564          | 1,286,936          | 35.1%        | 104,254                      | 247,342                      | -57.9%       | 16,076,256           | 14,454,567            | 11.2%        |
| Commodities and Alternative Inve | 1,014,592                  | 1,210,894                  | -16.2%       | 3,404,370          | 2,998,981          | 13.5%        | 13,295,503                   | 17,100,546                   | -22.3%       | 39,018,768           | 37,748,843            | 3.4%         |
| <b>TOTAL OPTIONS</b>             | <b>24,456,016</b>          | <b>16,220,160</b>          | <b>50.8%</b> | <b>49,634,085</b>  | <b>31,522,227</b>  | <b>57.5%</b> | <b>226,658,509</b>           | <b>225,880,107</b>           | <b>0.3%</b>  | <b>458,192,637</b>   | <b>350,929,109</b>    | <b>30.6%</b> |

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## CME Group Exchange Volume Comparison Report - Monthly

|                                  | Open<br>Outcry<br>OCT 2017 | Open<br>Outcry<br>OCT 2016 | % CHG        | ELEC<br>OCT 2017   | ELEC<br>OCT 2016   | % CHG        | Open<br>Outcry<br>Y.T.D 2017 | Open<br>Outcry<br>Y.T.D 2016 | % CHG       | ELEC<br>Y.T.D 2017   | ELEC<br>Y.T.D<br>2016 | %<br>CHG    |
|----------------------------------|----------------------------|----------------------------|--------------|--------------------|--------------------|--------------|------------------------------|------------------------------|-------------|----------------------|-----------------------|-------------|
| <b>TOTAL COMBINED</b>            |                            |                            |              |                    |                    |              |                              |                              |             |                      |                       |             |
| Interest Rate                    | 23,126,595                 | 14,599,398                 | 58.4%        | 138,897,048        | 101,369,179        | 37.0%        | 210,119,690                  | 203,482,044                  | 3.3%        | 1,447,470,436        | 1,236,428,253         | 17.1%       |
| Equity Index                     | 1,285,836                  | 949,435                    | 35.4%        | 47,514,657         | 53,384,433         | -11.0%       | 11,838,362                   | 12,404,696                   | -4.6%       | 539,369,871          | 628,255,394           | -14.1%      |
| Metals                           | 0                          | 28,517                     | -100.0%      | 11,982,898         | 7,538,423          | 59.0%        | 0                            | 778,559                      | -100.0%     | 110,987,890          | 87,291,382            | 27.1%       |
| Energy                           | 0                          | 8,080                      | -100.0%      | 47,915,000         | 43,947,338         | 9.0%         | 0                            | 304,642                      | -100.0%     | 481,544,199          | 423,120,484           | 13.8%       |
| FX                               | 6,537                      | 20,724                     | -68.5%       | 19,363,247         | 15,823,730         | 22.4%        | 120,337                      | 263,229                      | -54.3%      | 188,696,103          | 173,803,765           | 8.6%        |
| Commodities and Alternative Inve | 1,084,244                  | 1,309,438                  | -17.2%       | 24,136,713         | 22,980,417         | 5.0%         | 14,074,416                   | 18,164,806                   | -22.5%      | 265,530,936          | 258,515,859           | 2.7%        |
| Ags                              | 0                          | -                          | -            | 0                  | -                  |              | 0                            |                              | -           | 0                    | -                     | -           |
| Foreign Exchange                 | 0                          | 0                          | 0.0%         | 2,697              | 0                  | 0.0%         | 0                            | 6                            | -100.0%     | 17,077               | 4                     | 426,825.0%  |
| <b>GRAND TOTAL</b>               | <b>25,503,212</b>          | <b>16,915,592</b>          | <b>50.8%</b> | <b>289,812,260</b> | <b>245,043,520</b> | <b>18.3%</b> | <b>236,152,805</b>           | <b>235,397,982</b>           | <b>0.3%</b> | <b>3,033,616,512</b> | <b>2,807,415,141</b>  | <b>8.1%</b> |

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