

## CME Group Exchange Volume Comparison Report - Monthly

|                              | Open<br>Outcry<br>MAY 2018 | Open<br>Outcry<br>MAY 2017 | % CHG    | ELEC<br>MAY 2018 | ELEC<br>MAY 2017 | % CHG     | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG    | ELEC<br>Y.T.D 2018 | ELEC<br>Y.T.D<br>2017 | %<br>CHG |
|------------------------------|----------------------------|----------------------------|----------|------------------|------------------|-----------|------------------------------|------------------------------|----------|--------------------|-----------------------|----------|
| <b>Interest Rate Futures</b> |                            |                            |          |                  |                  |           |                              |                              |          |                    |                       |          |
| 10-YR NOTE                   | 178,946                    | 142,679                    | 25.4%    | 51,679,216       | 38,646,380       | 33.72%    | 667,706                      | 706,103                      | -5.4%    | 192,264,966        | 157,428,275           | 22.1%    |
| 10-YR SWAP RATE              | 0                          | 0                          | 0.0%     | 22,333           | 34,042           | -34.40%   | 0                            | 0                            | 0.0%     | 210,850            | 208,832               | 1.0%     |
| 1-MONTH EURODOLLAR           | 0                          | 0                          | 0.0%     | 8,024            | 10,247           | -21.69%   | 0                            | 0                            | 0.0%     | 22,135             | 23,640                | -6.4%    |
| 2-YR NOTE                    | 3,999                      | 858                        | 366.1%   | 16,977,290       | 11,162,825       | 52.09%    | 15,407                       | 7,253                        | 112.4%   | 58,184,258         | 36,781,430            | 58.2%    |
| 2-YR SWAP RATE               | -                          | 0                          | 0.0%     | -                | 0                | 0.00%     | -                            | 0                            | 0.0%     | -                  | 0                     | 0.0%     |
| 30-YR BOND                   | 19,932                     | 18,710                     | 6.5%     | 9,811,391        | 7,523,064        | 30.42%    | 99,619                       | 101,391                      | -1.7%    | 38,333,989         | 29,849,248            | 28.4%    |
| 30-YR SWAP RATE              | 0                          | 0                          | 0.0%     | 28               | 592              | -95.27%   | 0                            | 0                            | 0.0%     | 929                | 6,556                 | -85.8%   |
| 5-YR NOTE                    | 34,733                     | 21,128                     | 64.4%    | 35,194,892       | 25,474,675       | 38.16%    | 157,158                      | 133,187                      | 18.0%    | 121,037,789        | 95,151,672            | 27.2%    |
| 5-YR SWAP RATE               | 0                          | 0                          | 0.0%     | 9,979            | 29,790           | -66.50%   | 0                            | 0                            | 0.0%     | 124,146            | 241,779               | -48.7%   |
| 7-YR SWAP                    | -                          | 0                          | 0.0%     | -                | 0                | 0.00%     | -                            | 0                            | 0.0%     | -                  | 0                     | 0.0%     |
| EURODOLLARS                  | 801,762                    | 653,791                    | 22.6%    | 66,839,368       | 51,750,830       | 29.16%    | 4,767,702                    | 3,480,381                    | 37.0%    | 359,158,152        | 289,807,720           | 23.9%    |
| FED FUND                     | 0                          | 0                          | 0.0%     | 7,278,569        | 5,348,340        | 36.09%    | 0                            | 0                            | 0.0%     | 28,959,274         | 24,567,824            | 17.9%    |
| SOFR                         | 0                          | -                          | -        | 33,631           | -                | -         | 0                            | -                            | -        | 33,631             | -                     | -        |
| Ultra 10-Year Note           | 0                          | 0                          | 0.0%     | 5,513,741        | 2,664,358        | 106.94%   | 0                            | 8                            | -100.0%  | 19,929,428         | 10,225,658            | 94.9%    |
| ULTRA T-BOND                 | 0                          | 0                          | 0.0%     | 5,569,539        | 3,740,453        | 48.90%    | 230                          | 0                            | 0.0%     | 18,559,183         | 12,772,234            | 45.3%    |
| <b>Interest Rate Options</b> |                            |                            |          |                  |                  |           |                              |                              |          |                    |                       |          |
| 10-YR NOTE                   | 2,550,475                  | 2,071,438                  | 23.1%    | 12,455,992       | 7,702,941        | 61.70%    | 11,287,277                   | 11,598,832                   | -2.7%    | 55,659,373         | 40,133,018            | 38.7%    |
| 2-YR NOTE                    | 112,953                    | 17,714                     | 537.6%   | 616,808          | 66,010           | 834.42%   | 699,944                      | 134,208                      | 421.5%   | 1,913,812          | 321,197               | 495.8%   |
| 30-YR BOND                   | 295,534                    | 168,850                    | 75.0%    | 2,474,970        | 1,946,639        | 27.14%    | 1,581,048                    | 1,157,601                    | 36.6%    | 12,246,309         | 8,761,943             | 39.8%    |
| 5-YR NOTE                    | 948,875                    | 644,732                    | 47.2%    | 2,762,977        | 1,837,974        | 50.33%    | 3,539,539                    | 3,214,517                    | 10.1%    | 13,868,673         | 10,409,205            | 33.2%    |
| EURODOLLARS                  | 7,623,074                  | 8,769,008                  | -13.1%   | 3,483,783        | 5,215,888        | -33.21%   | 52,577,304                   | 50,243,957                   | 4.6%     | 24,952,350         | 22,164,906            | 12.6%    |
| EURO MIDCURVE                | 9,056,383                  | 7,869,882                  | 15.1%    | 4,955,918        | 4,951,936        | 0.08%     | 52,930,113                   | 49,921,437                   | 6.0%     | 30,137,033         | 25,742,825            | 17.1%    |
| FED FUND                     | 0                          | 600                        | -100.0%  | 7,300            | 301              | 2,325.25% | 1,750                        | 7,998                        | -78.1%   | 15,267             | 1,407                 | 985.1%   |
| Ultra 10-Year Note           | 0                          | 0                          | 0.0%     | 0                | 0                | 0.00%     | 0                            | 952                          | -100.0%  | 28                 | 6,499                 | -99.6%   |
| ULTRA T-BOND                 | 9,817                      | 139                        | 6,962.6% | 4,645            | 766              | 506.40%   | 25,138                       | 1,142                        | 2,101.2% | 13,762             | 8,735                 | 57.6%    |

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|                             | Open<br>Outcry<br>MAY 2018 | Open<br>Outcry<br>MAY 2017 | % CHG  | ELEC<br>MAY 2018 | ELEC<br>MAY 2017 | % CHG     | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG  | ELEC<br>Y.T.D 2018 | ELEC<br>Y.T.D<br>2017 | %<br>CHG  |
|-----------------------------|----------------------------|----------------------------|--------|------------------|------------------|-----------|------------------------------|------------------------------|--------|--------------------|-----------------------|-----------|
| <b>Equity Index Futures</b> |                            |                            |        |                  |                  |           |                              |                              |        |                    |                       |           |
| BITCOIN FUTURES             | 0                          | -                          | -      | 86,414           | -                |           | 0                            | -                            | -      | 278,021            | -                     | -         |
| DJ US REAL ESTATE           | 0                          | 0                          | 0.0%   | 18,731           | 13,387           | 39.92%    | 0                            | 0                            | 0.0%   | 101,783            | 68,400                | 48.8%     |
| E-mini (\$5) Dow            | 0                          | 0                          | 0.0%   | 4,401,501        | 2,550,442        | 72.58%    | 0                            | 0                            | 0.0%   | 26,965,289         | 13,988,533            | 92.8%     |
| E-mini FTSE 100 (USD)       | 0                          | 0                          | 0.0%   | 1,399            | 0                | 0.00%     | 0                            | 0                            | 0.0%   | 8,985              | 34                    | 26,326.5% |
| E-mini FTSE China 50        | 0                          | 0                          | 0.0%   | 945              | 1,362            | -30.62%   | 0                            | 0                            | 0.0%   | 6,603              | 6,549                 | 0.8%      |
| E-MINI MIDCAP               | 0                          | 0                          | 0.0%   | 287,999          | 303,940          | -5.24%    | 0                            | 0                            | 0.0%   | 1,876,508          | 1,790,956             | 4.8%      |
| E-MINI NASDAQ 100           | 0                          | 0                          | 0.0%   | 7,654,322        | 5,075,595        | 50.81%    | 0                            | 0                            | 0.0%   | 46,736,199         | 22,067,658            | 111.8%    |
| E-MINI RUSSELL 1000         | 0                          | 0                          | 0.0%   | 5,630            | 999              | 463.56%   | 0                            | 0                            | 0.0%   | 42,044             | 5,236                 | 703.0%    |
| E-MINI RUSSELL 1000 GROWT   | 0                          | 0                          | 0.0%   | 5,782            | 930              | 521.72%   | 0                            | 0                            | 0.0%   | 38,162             | 3,646                 | 946.7%    |
| E-MINI RUSSELL 1000 VALUE   | 0                          | 0                          | 0.0%   | 6,718            | 1,780            | 277.42%   | 0                            | 0                            | 0.0%   | 40,358             | 9,153                 | 340.9%    |
| E-MINI RUSSELL 2000         | 0                          | -                          | -      | 2,184,882        | -                |           | 0                            | -                            | -      | 13,237,862         | -                     | -         |
| E-MINI S&P500               | 0                          | 0                          | 0.0%   | 28,689,892       | 28,033,904       | 2.34%     | 0                            | 0                            | 0.0%   | 182,211,183        | 153,766,816           | 18.5%     |
| E-MINI S&P REAL ESTATE SEL  | 0                          | 0                          | 0.0%   | 1,835            | 1,456            | 26.03%    | 0                            | 0                            | 0.0%   | 17,070             | 10,407                | 64.0%     |
| FT-SE 100                   | 0                          | 0                          | 0.0%   | 845              | 333              | 153.75%   | 0                            | 0                            | 0.0%   | 7,191              | 1,327                 | 441.9%    |
| FTSE Emerging               | 0                          | 0                          | 0.0%   | 110              | 10               | 1,000.00% | 0                            | 0                            | 0.0%   | 622                | 82                    | 658.5%    |
| IBOVESPA INDEX              | 0                          | 0                          | 0.0%   | 524              | 665              | -21.20%   | 0                            | 0                            | 0.0%   | 5,493              | 3,487                 | 57.5%     |
| NASDAQ BIOTECH              | 0                          | 0                          | 0.0%   | 0                | 0                | 0.00%     | 0                            | 0                            | 0.0%   | 0                  | 0                     | 0.0%      |
| NIFTY 50                    | 0                          | 0                          | 0.0%   | 0                | 15,535           | -100.00%  | 0                            | 0                            | 0.0%   | 54,444             | 43,646                | 24.7%     |
| NIKKEI 225 (\$) STOCK       | 0                          | 0                          | 0.0%   | 203,372          | 225,304          | -9.73%    | 0                            | 0                            | 0.0%   | 1,864,596          | 1,368,567             | 36.2%     |
| NIKKEI 225 (YEN) STOCK      | 0                          | 0                          | 0.0%   | 701,637          | 859,605          | -18.38%   | 0                            | 0                            | 0.0%   | 4,937,537          | 4,647,578             | 6.2%      |
| S&P 500                     | 23,388                     | 28,289                     | -17.3% | 5,573            | 4,046            | 37.74%    | 196,622                      | 329,197                      | -40.3% | 31,750             | 24,410                | 30.1%     |
| S&P 500/GI                  | 0                          | 0                          | 0.0%   | 0                | 4                | -100.00%  | 0                            | 0                            | 0.0%   | 26                 | 59                    | -55.9%    |
| S&P 500/VALUE               | 0                          | 0                          | 0.0%   | 6,557            | 8,057            | -18.62%   | 0                            | 0                            | 0.0%   | 21,098             | 28,698                | -26.5%    |
| S&P CONSUMER DSCRTNRY S     | 0                          | 0                          | 0.0%   | 10,125           | 3,602            | 181.09%   | 0                            | 0                            | 0.0%   | 67,582             | 21,847                | 209.3%    |
| S&P CONSUMER STAPLES SE     | 0                          | 0                          | 0.0%   | 4,617            | 2,484            | 85.87%    | 0                            | 0                            | 0.0%   | 54,637             | 31,465                | 73.6%     |
| S&P ENERGY SECTOR           | 0                          | 0                          | 0.0%   | 19,281           | 7,583            | 154.27%   | 0                            | 0                            | 0.0%   | 89,263             | 52,720                | 69.3%     |
| S&P FINANCIAL SECTOR        | 0                          | 0                          | 0.0%   | 16,496           | 11,800           | 39.80%    | 0                            | 0                            | 0.0%   | 128,125            | 65,380                | 96.0%     |
| S&P HEALTH CARE SECTOR      | 0                          | 0                          | 0.0%   | 9,348            | 4,074            | 129.46%   | 0                            | 0                            | 0.0%   | 58,778             | 42,900                | 37.0%     |
| S&P INDUSTRIAL SECTOR       | 0                          | 0                          | 0.0%   | 9,169            | 2,660            | 244.70%   | 0                            | 0                            | 0.0%   | 56,228             | 17,532                | 220.7%    |
| S&P MATERIALS SECTOR        | 0                          | 0                          | 0.0%   | 2,552            | 4,636            | -44.95%   | 0                            | 0                            | 0.0%   | 32,921             | 25,303                | 30.1%     |
| S&P TECHNOLOGY SECTOR       | 0                          | 0                          | 0.0%   | 16,570           | 3,521            | 370.60%   | 0                            | 0                            | 0.0%   | 89,555             | 23,104                | 287.6%    |
| S&P UTILITIES SECTOR        | 0                          | 0                          | 0.0%   | 13,553           | 5,299            | 155.77%   | 0                            | 0                            | 0.0%   | 95,277             | 60,717                | 56.9%     |
| YEN DENOMINATED TOPIX       | 0                          | -                          | -      | 374              | -                |           | 0                            | -                            | -      | 1,431              | -                     | -         |

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|-----------------------------|----------------------------|----------------------------|---------|------------------|------------------|---------|------------------------------|------------------------------|--------|--------------------|-----------------------|----------|
| <b>Equity Index Options</b> |                            |                            |         |                  |                  |         |                              |                              |        |                    |                       |          |
| E-mini (\$5) Dow            | 0                          | 0                          | 0.0%    | 8,921            | 3,565            | 150.24% | 0                            | 0                            | 0.0%   | 56,878             | 24,940                | 128.1%   |
| E-MINI MIDCAP               | -                          | 0                          | 0.0%    | -                | 0                | 0.00%   | -                            | 0                            | 0.0%   | -                  | 0                     | 0.0%     |
| E-MINI NASDAQ 100           | 0                          | 0                          | 0.0%    | 174,092          | 208,528          | -16.51% | 0                            | 0                            | 0.0%   | 1,300,135          | 884,205               | 47.0%    |
| E-MINI RUSSELL 2000         | 0                          | -                          | -       | 11,153           | -                | -       | 0                            | -                            | -      | 74,996             | -                     | -        |
| E-MINI S&P500               | 0                          | 1,935                      | -100.0% | 5,149,820        | 4,595,594        | 12.06%  | 4,955                        | 1,935                        | 156.1% | 32,698,057         | 20,444,091            | 59.9%    |
| EOM E-MINI RUSSELL 2000 EN  | 0                          | -                          | -       | 3,712            | -                | -       | 0                            | -                            | -      | 32,042             | -                     | -        |
| EOM EMINI S&P               | 0                          | 0                          | 0.0%    | 1,558,179        | 1,629,279        | -4.36%  | 0                            | 0                            | 0.0%   | 13,989,710         | 10,030,089            | 39.5%    |
| EOM S&P 500                 | 74,730                     | 111,153                    | -32.8%  | 0                | 0                | 0.00%   | 1,070,459                    | 849,489                      | 26.0%  | 0                  | 0                     | 0.0%     |
| EOW1 E-MINI RUSSELL 2000 W  | 0                          | -                          | -       | 1,594            | -                | -       | 0                            | -                            | -      | 12,557             | -                     | -        |
| EOW1 E-MINI RUSSELL 2000 W  | 0                          | -                          | -       | 3,823            | -                | -       | 0                            | -                            | -      | 17,969             | -                     | -        |
| EOW1 EMINI S&P 500          | 0                          | 0                          | 0.0%    | 1,087,829        | 1,112,547        | -2.22%  | 0                            | 0                            | 0.0%   | 6,049,230          | 5,917,086             | 2.2%     |
| EOW1 S&P 500                | 93,341                     | 91,992                     | 1.5%    | 0                | 0                | 0.00%   | 369,178                      | 399,162                      | -7.5%  | 0                  | 0                     | 0.0%     |
| EOW2 E-MINI RUSSELL 2000 W  | 0                          | -                          | -       | 6,280            | -                | -       | 0                            | -                            | -      | 29,509             | -                     | -        |
| EOW2 EMINI S&P 500          | 0                          | 0                          | 0.0%    | 995,742          | 1,146,388        | -13.14% | 0                            | 0                            | 0.0%   | 7,546,250          | 5,730,398             | 31.7%    |
| EOW2 S&P 500                | 119,958                    | 170,810                    | -29.8%  | 0                | 0                | 0.00%   | 763,105                      | 782,634                      | -2.5%  | 0                  | 0                     | 0.0%     |
| EOW3 E-MINI RUSSELL 2000 W  | 0                          | -                          | -       | 16,304           | -                | -       | 0                            | -                            | -      | 127,195            | -                     | -        |
| EOW3 EMINI S&P 500          | 0                          | 0                          | 0.0%    | 2,220,806        | 3,248,834        | -31.64% | 0                            | 0                            | 0.0%   | 21,281,497         | 18,915,679            | 12.5%    |
| EOW3 S&P 500                | 197,273                    | 282,669                    | -30.2%  | 0                | 0                | 0.00%   | 1,905,737                    | 1,794,063                    | 6.2%   | 0                  | 0                     | 0.0%     |
| EOW4 E-MINI RUSSELL 2000 W  | 0                          | -                          | -       | 3,417            | -                | -       | 0                            | -                            | -      | 36,599             | -                     | -        |
| EOW4 EMINI S&P 500          | 0                          | 0                          | 0.0%    | 789,320          | 1,094,760        | -27.90% | 0                            | 0                            | 0.0%   | 6,676,361          | 4,609,553             | 44.8%    |
| S&P 500                     | 230,608                    | 362,717                    | -36.4%  | 0                | 0                | 0.00%   | 1,619,733                    | 1,515,159                    | 6.9%   | 0                  | 0                     | 0.0%     |

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|----------------------------|----------------------------|----------------------------|-------|------------------|------------------|-----------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| <b>Metals Futures</b>      |                            |                            |       |                  |                  |           |                              |                              |       |                    |                       |          |
| ALUMINUM                   | 0                          | 0                          | 0.0%  | 804              | 439              | 83.14%    | 0                            | 0                            | 0.0%  | 4,038              | 4,864                 | -17.0%   |
| COMEX COPPER               | 0                          | 0                          | 0.0%  | 2,535,731        | 1,853,135        | 36.83%    | 0                            | 0                            | 0.0%  | 13,786,712         | 9,861,305             | 39.8%    |
| COMEX E-Mini GOLD          | 0                          | 0                          | 0.0%  | 6,960            | 7,638            | -8.88%    | 0                            | 0                            | 0.0%  | 35,505             | 46,015                | -22.8%   |
| COMEX E-Mini SILVER        | 0                          | 0                          | 0.0%  | 898              | 1,092            | -17.77%   | 0                            | 0                            | 0.0%  | 5,857              | 4,498                 | 30.2%    |
| COMEX GOLD                 | 0                          | 0                          | 0.0%  | 8,367,130        | 6,124,763        | 36.61%    | 0                            | 0                            | 0.0%  | 37,232,947         | 26,508,675            | 40.5%    |
| COMEX MINY COPPER          | 0                          | 0                          | 0.0%  | 363              | 499              | -27.25%   | 0                            | 0                            | 0.0%  | 2,762              | 4,113                 | -32.8%   |
| COMEX SILVER               | 0                          | 0                          | 0.0%  | 1,658,041        | 1,854,612        | -10.60%   | 0                            | 0                            | 0.0%  | 10,210,927         | 8,526,442             | 19.8%    |
| COPPER                     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| E-MICRO GOLD               | 0                          | 0                          | 0.0%  | 148,719          | 92,165           | 61.36%    | 0                            | 0                            | 0.0%  | 667,871            | 437,386               | 52.7%    |
| FERROUS PRODUCTS           | 0                          | 0                          | 0.0%  | 21               | 0                | 0.00%     | 0                            | 0                            | 0.0%  | 67                 | 35                    | 91.4%    |
| GOLD                       | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| Gold Kilo                  | 0                          | 0                          | 0.0%  | 0                | 290              | -100.00%  | 0                            | 0                            | 0.0%  | 136                | 1,921                 | -92.9%   |
| IRON ORE 62 CHINA PLATTS F | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| IRON ORE 62 CHINA TSI FUTU | 0                          | 0                          | 0.0%  | 33               | 186              | -82.26%   | 0                            | 0                            | 0.0%  | 59                 | 1,715                 | -96.6%   |
| LNDN ZINC                  | 0                          | 0                          | 0.0%  | 137              | 15               | 813.33%   | 0                            | 0                            | 0.0%  | 177                | 50                    | 254.0%   |
| METALS                     | -                          | 0                          | 0.0%  | -                | 0                | 0.00%     | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| NYMEX HOT ROLLED STEEL     | 0                          | 0                          | 0.0%  | 3,628            | 198              | 1,732.32% | 0                            | 0                            | 0.0%  | 15,653             | 926                   | 1,590.4% |
| NYMEX PLATINUM             | 0                          | 0                          | 0.0%  | 378,641          | 339,987          | 11.37%    | 0                            | 0                            | 0.0%  | 2,112,649          | 1,726,742             | 22.3%    |
| PALLADIUM                  | 0                          | 0                          | 0.0%  | 123,276          | 181,870          | -32.22%   | 0                            | 0                            | 0.0%  | 610,676            | 609,204               | 0.2%     |
| SILVER                     | 0                          | 0                          | 0.0%  | 5,546            | 5,780            | -4.05%    | 0                            | 0                            | 0.0%  | 34,814             | 25,470                | 36.7%    |
| URANIUM                    | 0                          | 0                          | 0.0%  | 0                | 15               | -100.00%  | 0                            | 0                            | 0.0%  | 79                 | 427                   | -81.5%   |

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## CME Group Exchange Volume Comparison Report - Monthly

|                             | Open<br>Outcry<br>MAY 2018 | Open<br>Outcry<br>MAY 2017 | % CHG | ELEC<br>MAY 2018 | ELEC<br>MAY 2017 | % CHG    | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG | ELEC<br>Y.T.D 2018 | ELEC<br>Y.T.D<br>2017 | %<br>CHG |
|-----------------------------|----------------------------|----------------------------|-------|------------------|------------------|----------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| <b>Metals Options</b>       |                            |                            |       |                  |                  |          |                              |                              |       |                    |                       |          |
| COMEX COPPER                | 0                          | 0                          | 0.0%  | 12,674           | 4,340            | 192.03%  | 0                            | 0                            | 0.0%  | 71,797             | 17,593                | 308.1%   |
| COMEX GOLD                  | 0                          | 0                          | 0.0%  | 788,716          | 592,385          | 33.14%   | 0                            | 0                            | 0.0%  | 3,831,784          | 3,042,568             | 25.9%    |
| COMEX SILVER                | 0                          | 0                          | 0.0%  | 121,941          | 134,750          | -9.51%   | 0                            | 0                            | 0.0%  | 634,586            | 502,534               | 26.3%    |
| COPPER                      | 0                          | -                          | -     | 11               | -                |          | 0                            | -                            | -     | 11                 | -                     | -        |
| GOLD                        | 0                          | 0                          | 0.0%  | 37,558           | 14,760           | 154.46%  | 0                            | 0                            | 0.0%  | 169,802            | 53,019                | 220.3%   |
| HOT ROLLED COIL STEEL CAL   | 0                          | -                          | -     | 0                | -                |          | 0                            | -                            | -     | 0                  | -                     | -        |
| IRON ORE 62 CHINA TSI CALL  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| IRON ORE 62 CHINA TSI PUT O | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NYMEX PLATINUM              | 0                          | 0                          | 0.0%  | 1,307            | 1,480            | -11.69%  | 0                            | 0                            | 0.0%  | 7,105              | 3,994                 | 77.9%    |
| PALLADIUM                   | 0                          | 0                          | 0.0%  | 1,337            | 1,281            | 4.37%    | 0                            | 0                            | 0.0%  | 8,967              | 4,699                 | 90.8%    |
| SILVER                      | 0                          | 0                          | 0.0%  | 752              | 674              | 11.57%   | 0                            | 0                            | 0.0%  | 2,979              | 1,260                 | 136.4%   |
| <b>Energy Futures</b>       |                            |                            |       |                  |                  |          |                              |                              |       |                    |                       |          |
| 3.5% FUEL OIL CID MED SWA   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| 3.5% FUEL OIL CIF BALMO S   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| AEP-DAYTON HUB DAILY        | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| AEP-DAYTON HUB MTHLY        | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| AEP-DAYTON HUB OFF-PEAK     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ALGON CITY GATES NAT GAS    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ALGONQUIN CITYGATES BASI    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ANR LOUISIANA BASIS SWAP    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ANR OKLAHOMA                | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| APPALACHIAN COAL (PHY)      | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| ARGUS LLS VS. WTI (ARG) T   | 0                          | 0                          | 0.0%  | 0                | 60               | -100.00% | 0                            | 0                            | 0.0%  | 30                 | 60                    | -50.0%   |
| ARGUS PROPAN FAR EST IND    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ARGUS PROPAN(SAUDI ARAM     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| AUSTRIALIAN COKE COAL       | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| BRENT BALMO SWAP            | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| BRENT CALENDAR SWAP         | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| BRENT CFD SWAP              | 0                          | -                          | -     | 0                | -                |          | 0                            | -                            | -     | 0                  | -                     | -        |
| BRENT FINANCIAL FUTURES     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                            | Open<br>Outcry<br>MAY 2018 | Open<br>Outcry<br>MAY 2017 | % CHG | ELEC<br>MAY 2018 | ELEC<br>MAY 2017 | % CHG    | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG | ELEC<br>Y.T.D 2018 | ELEC<br>Y.T.D<br>2017 | %<br>CHG |
|----------------------------|----------------------------|----------------------------|-------|------------------|------------------|----------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| <b>Energy Futures</b>      |                            |                            |       |                  |                  |          |                              |                              |       |                    |                       |          |
| BRENT OIL LAST DAY         | 0                          | 0                          | 0.0%  | 2,120,216        | 2,364,058        | -10.31%  | 0                            | 0                            | 0.0%  | 8,810,058          | 10,067,943            | -12.5%   |
| CAISO SP15 EZGNHUB5 MW P   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CAISO SP15 EZGNHUB5 PEAK   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CANADIAN LIGHT SWEET OIL   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CENTERPOINT BASIS SWAP     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CENTERPOINT EAST INDEX     | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| CEU ENERGY                 | 0                          | -                          | -     | 11,041           | -                |          | 0                            | -                            | -     | 31,457             | -                     | -        |
| CHICAGO ETHANOL SWAP       | 0                          | 0                          | 0.0%  | 585              | 165              | 254.55%  | 0                            | 0                            | 0.0%  | 1,591              | 1,247                 | 27.6%    |
| CHICAGO ULSD (PLATTS) SWA  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CHICAGO ULSD PL VS HO SPR  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CHICAGO UNL GAS PL VS RBO  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CIG BASIS                  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CIG ROCKIES NG INDEX SWA   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CINERGY HUB OFF-PEAK MON   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CINERGY HUB PEAK MONTH     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CIN HUB 5MW D AH O PK      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CIN HUB 5MW D AH PK        | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CIN HUB 5MW REAL TIME O P  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CIN HUB 5MW REAL TIME PK   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| COAL SWAP                  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| COLUMB GULF MAINLINE NG B  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| COLUMBIA GULF MAIN NAT G   | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| COLUMBIA GULF ONSHORE      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CONWAY NATURAL GASOLINE    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CONWAY NORMAL BUTANE (O    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CONWAY PROPANE 5 DECIMA    | 0                          | 0                          | 0.0%  | 6                | 20               | -70.00%  | 0                            | 0                            | 0.0%  | 12                 | 39                    | -69.2%   |
| CRUDE OIL                  | 0                          | 0                          | 0.0%  | 0                | 4                | -100.00% | 0                            | 0                            | 0.0%  | 89                 | 204                   | -56.4%   |
| CRUDE OIL OUTRIGHTS        | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CRUDE OIL PHY              | 0                          | 0                          | 0.0%  | 30,494,584       | 26,861,596       | 13.52%   | 0                            | 0                            | 0.0%  | 136,821,126        | 115,265,999           | 18.7%    |
| CRUDE OIL SPRDS            | 0                          | 0                          | 0.0%  | 0                | 50               | -100.00% | 0                            | 0                            | 0.0%  | 0                  | 50                    | -100.0%  |
| CRUDE OIL TRADE AT MARKE   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| DAILY PJM                  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| DATED BRENT (PLATTS) DAILY | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| DATED TO FRONTLINE BRENT   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>MAY 2018 | Open<br>Outcry<br>MAY 2017 | % CHG | ELEC<br>MAY 2018 | ELEC<br>MAY 2017 | % CHG   | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG | ELEC<br>Y.T.D 2018 | ELEC<br>Y.T.D<br>2017 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|-------|------------------|------------------|---------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| <b>Energy Futures</b>     |                            |                            |       |                  |                  |         |                              |                              |       |                    |                       |          |
| DEMARC INDEX FUTURE       | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| DEMARC SWING SWAP         | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| DIESEL 10P BRG FOB RDM VS | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| DIESEL 10PPM BARGES FOB B | 0                          | -                          | -     | 0                | -                |         | 0                            | -                            | -     | 0                  | -                     | -        |
| DLY GAS EURO-BOB OXY      | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| DOMINION TRAN INC - APP I | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| DOMINION TRANSMISSION INC | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| DUBAI CRUDE OIL BALMO     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| DUBAI CRUDE OIL CALENDAR  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| DY EURO 3.5% FUEL OI RDA  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| EASTERN RAIL DELIVERY CSX | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| EAST/WEST FUEL OIL SPREAD | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| EIA FLAT TAX ONHWAY DIESE | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ELEC ERCOT DLY OFF PK     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ELEC ERCOT DLY PEAK       | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ELEC ERCOT OFF PEAK       | 0                          | -                          | -     | 0                | -                |         | 0                            | -                            | -     | 0                  | -                     | -        |
| ELEC FINSETTLED           | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ELEC MISO PEAK            | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ELEC NYISO OFF-PEAK       | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ELECTRICITY ERCOT PEAK    | 0                          | -                          | -     | 0                | -                |         | 0                            | -                            | -     | 0                  | -                     | -        |
| ELECTRICITY OFF PEAK      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ELEC WEST POWER OFF-PEA   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ELEC WEST POWER PEAK      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| EL PASO PERMIAN INDEX SWA | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| ERCOT DAILY 5MW PEAK      | 0                          | -                          | -     | 0                | -                |         | 0                            | -                            | -     | 0                  | -                     | -        |
| ERCOT HOUSTON Z MCPE 5M   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ERCOT NORTH ZMCPE 5MW O   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ERCOT NORTH ZMCPE 5MW O   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ERCOT NORTH ZMCPE 5MW P   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ETHANOL                   | 0                          | 0                          | 0.0%  | 9,476            | 17,824           | -46.84% | 0                            | 0                            | 0.0%  | 47,112             | 86,742                | -45.7%   |
| ETHANOL FWD               | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| ETHANOL SWAP              | 0                          | -                          | -     | 0                | -                |         | 0                            | -                            | -     | 0                  | -                     | -        |
| ETHANOL T2 FOB ROTT INCL  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| EURO 1% FUEL OIL NEW BALM | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>MAY 2018 | Open<br>Outcry<br>MAY 2017 | % CHG | ELEC<br>MAY 2018 | ELEC<br>MAY 2017 | % CHG   | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG | ELEC<br>Y.T.D 2018 | ELEC<br>Y.T.D<br>2017 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|-------|------------------|------------------|---------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| <b>Energy Futures</b>     |                            |                            |       |                  |                  |         |                              |                              |       |                    |                       |          |
| EURO 3.5% FUEL OIL RDAM B | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| EURO 3.5% FUEL OIL SPREAD | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| EURO-DENOMINATED PETRO    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| EURO GASOIL 10 CAL SWAP   | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| EURO GASOIL 10PPM VS ICE  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| EUROPE 1% FUEL OIL NWE CA | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| EUROPE 1% FUEL OIL RDAM C | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| EUROPE 3.5% FUEL OIL MED  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| EUROPE 3.5% FUEL OIL RDAM | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| EUROPEAN GASOIL (ICE)     | 0                          | 0                          | 0.0%  | 786              | 4,195            | -81.26% | 0                            | 0                            | 0.0%  | 2,448              | 15,294                | -84.0%   |
| EUROPEAN NAPHTHA BALMO    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| EUROPEAN NAPHTHA CRACK S  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| EUROPE DATED BRENT SWAP   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| EUROPE JET KERO NWE CALS  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| EUROPE NAPHTHA CALSWAP    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| EURO PROPANE CIF ARA SW   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| FL GAS ZONE 3 NAT GAS IND | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| FLORIDA GAS ZONE3 BASIS S | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| FREIGHT MARKETS           | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| FUEL OIL CRACK VS ICE     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| FUEL OIL NWE CRACK VS ICE | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| FUEL OIL (PLATS) CAR CM   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| FUEL OIL (PLATS) CAR CN   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| FUELOIL SWAP:CARGOES VS.  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GAS EURO-BOB OXY NWE BA   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GAS EURO-BOB OXY NWE BA   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GASOIL 0.1 BRGS FOB VS IC | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| GASOIL 0.1 CIF MED SWAP   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GASOIL 0.1CIF MED VS ICE  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GASOIL 0.1 CIF NWE VS ISE | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GASOIL 0.1 CIF VS ICE GAS | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GASOIL 0.1 CRG CIF NW VS  | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| GASOIL 0.1 RDAM BRGS VS I | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GASOIL 0.1 ROTTERDAM BAR  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>MAY 2018 | Open<br>Outcry<br>MAY 2017 | % CHG | ELEC<br>MAY 2018 | ELEC<br>MAY 2017 | % CHG    | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG | ELEC<br>Y.T.D 2018 | ELEC<br>Y.T.D<br>2017 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|-------|------------------|------------------|----------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| <b>Energy Futures</b>     |                            |                            |       |                  |                  |          |                              |                              |       |                    |                       |          |
| GASOIL 10P CRG CIF NW VS  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GASOIL 10PPM CARGOES CIF  | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| GASOIL 10PPM VS ICE SWAP  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GASOIL BULLET SWAP        | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GASOIL CALENDAR SWAP      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GASOIL CRACK SPREAD CALE  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GASOIL MINI CALENDAR SWA  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GASOLINE UP-DOWN BALMO S  | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| GROUP THREE ULSD (PLATTS) | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GROUP THREE UNLEAD GAS (  | 0                          | -                          | -     | 0                | -                |          | 0                            | -                            | -     | 0                  | -                     | -        |
| GRP THREE ULSD(PLT)VS HEA | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GRP THREE UNL GS (PLT) VS | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GULF COAST 3% FUEL OIL BA | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GULF COAST GASOLINE CLND  | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| GULF COAST JET FUEL CLNDR | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GULF COAST JET VS NYM 2 H | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GULF COAST NO.6 FUEL OIL  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GULF COAST ULSD CALEND    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GULF COAST ULSD CRACK SP  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| HEATING OIL BALMO CLNDR S | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| HEATING OIL CRCK SPRD BAL | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| HEATING OIL PHY           | 0                          | 0                          | 0.0%  | 4,134,987        | 3,604,751        | 14.71%   | 0                            | 0                            | 0.0%  | 19,482,053         | 15,849,131            | 22.9%    |
| HENRY HUB BASIS SWAP      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 2,996                 | -100.0%  |
| HENRY HUB FINANCIAL LAST  | 0                          | -                          | -     | 4,446            | -                |          | 0                            | -                            | -     | 10,357             | -                     | -        |
| HENRY HUB INDEX SWAP FUT  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 2,996                 | -100.0%  |
| HENRY HUB SWAP            | 0                          | 0                          | 0.0%  | 26,596           | 8,473            | 213.89%  | 0                            | 0                            | 0.0%  | 40,510             | 52,677                | -23.1%   |
| HENRY HUB SWING FUTURE    | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| HOUSTON SHIP CHANNEL BAS  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| HOUSTON SHIP CHANNEL IND  | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| HTG OIL                   | 0                          | 0                          | 0.0%  | 0                | 36               | -100.00% | 0                            | 0                            | 0.0%  | 0                  | 36                    | -100.0%  |
| HUSTN SHIP CHNL PIPE SWP  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ICE BRENT DUBAI SWAP      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ICE GASOIL BALMO SWAP     | 0                          | -                          | -     | 0                | -                |          | 0                            | -                            | -     | 0                  | -                     | -        |
| IN DELIVERY MONTH EUA     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                              | Open<br>Outcry<br>MAY 2018 | Open<br>Outcry<br>MAY 2017 | % CHG | ELEC<br>MAY 2018 | ELEC<br>MAY 2017 | % CHG    | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG | ELEC<br>Y.T.D 2018 | ELEC<br>Y.T.D<br>2017 | %<br>CHG |
|------------------------------|----------------------------|----------------------------|-------|------------------|------------------|----------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| <b>Energy Futures</b>        |                            |                            |       |                  |                  |          |                              |                              |       |                    |                       |          |
| INDIANA MISO                 | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| INDONESIAN COAL              | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| INDONESIAN COAL ICI4         | 0                          | -                          | -     | 0                | -                |          | 0                            | -                            | -     | 0                  | -                     | -        |
| ISO NEW ENGLAND OFF-PEAK     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ISO NEW ENGLAND PK LMP       | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| JAPAN C&F NAPHTHA CRACK      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| JAPAN C&F NAPHTHA SWAP       | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| JAPAN NAPHTHA BALMO SWA      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| JET AV FUEL (P) CAR FM ICE G | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| JET BARGES VS ICE GASOIL     | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| JET CIF NWE VS ICE           | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| JET FUEL BRG FOB RDM VS I    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| JET FUEL CRG CIF NEW VS I    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| JET FUEL UP-DOWN BALMO C     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| LA CARB DIESEL (OPIS)        | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| LA CARB DIESEL (OPIS) SWA    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| LA CARBOB GASOLINE(OPIS)S    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| LA JET FUEL VS NYM NO 2 H    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| LA JET (OPIS) SWAP           | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| LLS (ARGUS) VS WTI SWAP      | 0                          | 0                          | 0.0%  | 0                | 15               | -100.00% | 0                            | 0                            | 0.0%  | 0                  | 15                    | -100.0%  |
| LTD NAT GAS                  | 0                          | 0                          | 0.0%  | 205,950          | 125,949          | 63.52%   | 0                            | 0                            | 0.0%  | 1,138,219          | 542,469               | 109.8%   |
| MARS (ARGUS) VS WTI SWAP     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MARS (ARGUS) VS WTI TRD M    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MARS BLEND CRUDE OIL         | 0                          | 0                          | 0.0%  | 0                | 200              | -100.00% | 0                            | 0                            | 0.0%  | 0                  | 200                   | -100.0%  |
| MCCLOSKEY ARA ARGS COAL      | 0                          | 0                          | 0.0%  | 45               | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 414                | 0                     | 0.0%     |
| MCCLOSKEY RCH BAY COAL       | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MGF FUT                      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MGN1 SWAP FUT                | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MICHCON NG INDEX SWAP        | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| MICHIGAN BASIS               | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MICHIGAN MISO                | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MINI GAS EUROBOB OXY NWE     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MINI RBOB V. EBOBARG NWE     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MINI RBOB V. EBOB(ARGUS) N   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>MAY 2018 | Open<br>Outcry<br>MAY 2017 | % CHG | ELEC<br>MAY 2018 | ELEC<br>MAY 2017 | % CHG   | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG | ELEC<br>Y.T.D 2018 | ELEC<br>Y.T.D<br>2017 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|-------|------------------|------------------|---------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| <b>Energy Futures</b>     |                            |                            |       |                  |                  |         |                              |                              |       |                    |                       |          |
| MINY HTG OIL              | 0                          | 0                          | 0.0%  | 2                | 2                | 0.00%   | 0                            | 0                            | 0.0%  | 15                 | 13                    | 15.4%    |
| MINY NATURAL GAS          | 0                          | 0                          | 0.0%  | 15,948           | 22,023           | -27.58% | 0                            | 0                            | 0.0%  | 148,902            | 147,261               | 1.1%     |
| MINY RBOB GAS             | 0                          | 0                          | 0.0%  | 3                | 4                | -25.00% | 0                            | 0                            | 0.0%  | 15                 | 24                    | -37.5%   |
| MINY WTI CRUDE OIL        | 0                          | 0                          | 0.0%  | 408,772          | 337,645          | 21.07%  | 0                            | 0                            | 0.0%  | 1,596,027          | 1,252,992             | 27.4%    |
| MJC FUT                   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MNC FUT                   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MONT BELVIEU ETHANE 5 DEC | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MONT BELVIEU ETHANE OPIS  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MONT BELVIEU LDH PROPANE  | 0                          | 0                          | 0.0%  | 27               | 30               | -10.00% | 0                            | 0                            | 0.0%  | 57                 | 130                   | -56.2%   |
| MONT BELVIEU LDH PROPANE  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MONT BELVIEU NATURAL GAS  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MONT BELVIEU NATURAL GAS  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MONT BELVIEU NORMAL BUTA  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MONT BELVIEU NORMAL BUTA  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NAT GAS BASIS SWAP        | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NATURAL GAS               | 0                          | 0                          | 0.0%  | 28,106           | 52,920           | -46.89% | 0                            | 0                            | 0.0%  | 294,808            | 169,330               | 74.1%    |
| NATURAL GAS FIXED PRICE S | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NATURAL GAS INDEX         | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NATURAL GAS PEN SWP       | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 51                    | -100.0%  |
| NATURAL GAS PHY           | 0                          | 0                          | 0.0%  | 8,026,786        | 9,064,621        | -11.45% | 0                            | 0                            | 0.0%  | 45,096,194         | 42,380,286            | 6.4%     |
| NEPOOL CNCTCT 5MW D AH O  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NEPOOL CONECTIC 5MW D AH  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NEPOOL INTR HUB 5MW D AH  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NEPOOL NE MASS 5MW D AH   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NEPOOL NE MASS 5MW D AH   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NEPOOL NEW HAMP 5MW D A   | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| NEPOOL RHD ISLD 5MW D AH  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NEPOOL RHODE IL 5MW D AH  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NEPOOL SE MASS 5MW D AH   | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| NEPOOL SE MASS 5MW D AH   | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| NEPOOL W CNT MASS 5MW D   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NEPOOL W CNTR M 5MW D AH  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NEW ENGLAND HUB PEAK DAI  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NEW YORK ETHANOL SWAP     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>MAY 2018 | Open<br>Outcry<br>MAY 2017 | % CHG | ELEC<br>MAY 2018 | ELEC<br>MAY 2017 | % CHG | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG | ELEC<br>Y.T.D 2018 | ELEC<br>Y.T.D 2017 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|-------|------------------|------------------|-------|------------------------------|------------------------------|-------|--------------------|--------------------|----------|
| <b>Energy Futures</b>     |                            |                            |       |                  |                  |       |                              |                              |       |                    |                    |          |
| NEW YORK HUB ZONE G PEAK  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NEW YORK HUB ZONE J PEAK  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NGPL MID-CONTINENT        | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NGPL MIDCONTINENT INDEX   | -                          | 0                          | 0.0%  | -                | 0                | 0.00% | -                            | 0                            | 0.0%  | -                  | 0                  | 0.0%     |
| NGPL MIDCONTINENT SWING   | -                          | 0                          | 0.0%  | -                | 0                | 0.00% | -                            | 0                            | 0.0%  | -                  | 0                  | 0.0%     |
| NGPL TEX/OK               | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NGPL TEXOK INDEX          | -                          | 0                          | 0.0%  | -                | 0                | 0.00% | -                            | 0                            | 0.0%  | -                  | 0                  | 0.0%     |
| N ILLINOIS HUB DAILY      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| N ILLINOIS HUB MTHLY      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NO 2 UP-DOWN SPREAD CALE  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NORTHEN NATURAL GAS DEM   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NORTHEN NATURAL GAS VEN   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NORTHERN ILLINOIS OFF-PEA | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NORTHWEST ROCKIES BASIS   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| N ROCKIES PIPE SWAP       | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NY1% VS GC SPREAD SWAP    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NY 2.2% FUEL OIL (PLATTS  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NY 3.0% FUEL OIL (PLATTS  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NY HARBOR 1% FUEL OIL BAL | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NY HARBOR HEAT OIL SWP    | 0                          | 0                          | 0.0%  | 6                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 46                 | 3                  | 1,433.3% |
| NY HARBOR LOW SULPUR GA   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NY HARBOR RESIDUAL FUEL 1 | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NYH NO 2 CRACK SPREAD CA  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NY H OIL PLATTS VS NYMEX  | -                          | 0                          | 0.0%  | -                | 0                | 0.00% | -                            | 0                            | 0.0%  | -                  | 0                  | 0.0%     |
| NYISO A                   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NYISO A OFF-PEAK          | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NYISO CAPACITY            | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NYISO G                   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NYISO G OFF-PEAK          | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NYISO J                   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NYISO J OFF-PEAK          | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NYISO ZONE A 5MW D AH O P | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NYISO ZONE A 5MW D AH PK  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NYISO ZONE C 5MW D AH O P | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

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

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>MAY 2018 | Open<br>Outcry<br>MAY 2017 | % CHG | ELEC<br>MAY 2018 | ELEC<br>MAY 2017 | % CHG    | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG | ELEC<br>Y.T.D 2018 | ELEC<br>Y.T.D<br>2017 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|-------|------------------|------------------|----------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| <b>Energy Futures</b>     |                            |                            |       |                  |                  |          |                              |                              |       |                    |                       |          |
| PJM DAYTON DA OFF-PEAK    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM DAYTON DA PEAK        | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM JCPL DA OFF-PEAK      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM JCPL DA PEAK          | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM MONTHLY               | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM NI HUB 5MW REAL TIME  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM NILL DA OFF-PEAK      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM NILL DA PEAK          | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM OFF-PEAK LMP SWAP FU  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM PECO ZONE5MW PEAK C   | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| PJM PPL DA OFF-PEAK       | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM PPL DA PEAK           | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM PSEG DA OFF-PEAK      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM PSEG DA PEAK          | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM WES HUB PEAK LMP 50 M | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| PJM WESTH DA OFF-PEAK     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM WESTHDA PEAK          | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM WESTH RT OFF-PEAK     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM WESTH RT PEAK         | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PLASTICS                  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PREMIUM UNLD 10P FOB MED  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PREMIUM UNLEAD 10PPM FOB  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PREM UNL GAS 10PPM RDAM   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PREM UNL GAS 10PPM RDAM   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PROPANE NON-LDH MB (OPIS) | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PROPANE NON-LDH MT. BEL ( | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| RBOB CALENDAR SWAP        | 0                          | 0                          | 0.0%  | 0                | 5                | -100.00% | 0                            | 0                            | 0.0%  | 0                  | 5                     | -100.0%  |
| RBOB CRACK SPREAD         | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| RBOB CRACK SPREAD BALMO   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| RBOB GAS                  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| RBOB GASOLINE BALMO CLNC  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| RBOB PHY                  | 0                          | 0                          | 0.0%  | 4,316,306        | 4,029,069        | 7.13%    | 0                            | 0                            | 0.0%  | 19,591,160         | 19,178,385            | 2.2%     |
| RBOB (PLATTS) CAL SWAP    | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| RBOB SPREAD (PLATTS) SWA  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>MAY 2018 | Open<br>Outcry<br>MAY 2017 | % CHG | ELEC<br>MAY 2018 | ELEC<br>MAY 2017 | % CHG   | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG | ELEC<br>Y.T.D 2018 | ELEC<br>Y.T.D 2017 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|-------|------------------|------------------|---------|------------------------------|------------------------------|-------|--------------------|--------------------|----------|
| <b>Energy Futures</b>     |                            |                            |       |                  |                  |         |                              |                              |       |                    |                    |          |
| RBOB UP-DOWN CALENDAR S   | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                  | 0.0%     |
| RBOB VS HEATING OIL SWAP  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| ROCKIES KERN OPAL - NW IN | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                  | 0.0%     |
| SAN JUAN BASIS SWAP       | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| SAN JUAN PIPE SWAP        | 0                          | -                          | -     | 0                | -                |         | 0                            | -                            | -     | 0                  | -                  | -        |
| SINGAPORE 180CST BALMO    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| SINGAPORE 380CST BALMO    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| SINGAPORE 380CST FUEL OIL | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| SINGAPORE FUEL 180CST CAL | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| SINGAPORE FUEL OIL SPREA  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| SINGAPORE GASOIL          | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| SINGAPORE GASOIL CALENDAR | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| SINGAPORE GASOIL SWAP     | 0                          | 0                          | 0.0%  | 1                | 17               | -94.12% | 0                            | 0                            | 0.0%  | 2                  | 30                 | -93.3%   |
| SINGAPORE GASOIL VS ICE   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| SINGAPORE JET KERO BALMO  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| SINGAPORE JET KERO GASOI  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| SINGAPORE JET KEROSENE S  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| SINGAPORE JET KERO VS. GA | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| SINGAPORE MOGAS 92 UNLEA  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| SINGAPORE MOGAS 92 UNLEA  | 0                          | 0                          | 0.0%  | 1                | 4                | -75.00% | 0                            | 0                            | 0.0%  | 2                  | 5                  | -60.0%   |
| SINGAPORE NAPHTHA BALMO   | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                  | 0.0%     |
| SINGAPORE NAPHTHA SWAP    | 0                          | -                          | -     | 0                | -                |         | 0                            | -                            | -     | 0                  | -                  | -        |
| SING FUEL                 | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| SOCAL PIPE SWAP           | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| SONAT BASIS SWAP FUTURE   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| SOUTHERN NAT LA NAT GAS   | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                  | 0.0%     |
| SOUTH STAR TEX OKLHM KNS  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| Sumas Basis Swap          | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| SUMAS NAT GAS PLATTS FIXE | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| TC2 ROTTERDAM TO USAC 37  | 0                          | -                          | -     | 0                | -                |         | 0                            | -                            | -     | 0                  | -                  | -        |
| TC5 RAS TANURA TO YOKOHA  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| TCO BASIS SWAP            | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| TCO NG INDEX SWAP         | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| TD3 MEG TO JAPAN 250K MT  | 0                          | -                          | -     | 0                | -                |         | 0                            | -                            | -     | 0                  | -                  | -        |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>MAY 2018 | Open<br>Outcry<br>MAY 2017 | % CHG | ELEC<br>MAY 2018 | ELEC<br>MAY 2017 | % CHG | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG | ELEC<br>Y.T.D 2018 | ELEC<br>Y.T.D<br>2017 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|-------|------------------|------------------|-------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| <b>Energy Futures</b>     |                            |                            |       |                  |                  |       |                              |                              |       |                    |                       |          |
| TENN 800 LEG NAT GAS INDE | -                          | 0                          | 0.0%  | -                | 0                | 0.00% | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| TENNESSEE 500 LEG BASIS S | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| TENNESSEE 800 LEG NG BASI | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| TENNESSEE ZONE 0 BASIS S  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| TETCO M-3 INDEX           | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| Tetco STX Basis           | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| TEXAS EASTERN ZONE M-3 BA | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| TEXAS GAS ZONE1 NG BASIS  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| Transco Zone 3 Basis      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| TRANSCO ZONE 3 NG INDEX S | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| TRANSCO ZONE4 BASIS SWAP  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| TRANSCO ZONE 4 NAT GAS IN | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| TRANSCO ZONE 6 BASIS SWA  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| TRANSCO ZONE 6 INDEX      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| UCM FUT                   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ULSD 10PPM CIF MED BALMO  | -                          | 0                          | 0.0%  | -                | 0                | 0.00% | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| ULSD 10PPM CIF MED SWAP   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ULSD 10PPM CIF MED VS ICE | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ULSD 10PPM CIF NW BALMO S | 0                          | -                          | -     | 0                | -                |       | 0                            | -                            | -     | 0                  | -                     | -        |
| ULSD 10PPM CIF VS ICE GAS | -                          | 0                          | 0.0%  | -                | 0                | 0.00% | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| ULSD UP-DOWN BALMO SWP    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| UP DOWN GC ULSD VS NMX H  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| USGC UNL 87 CRACK SPREAD  | -                          | 0                          | 0.0%  | -                | 0                | 0.00% | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| WAHA BASIS                | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| WAHA INDEX SWAP FUTURE    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| WESTERN RAIL DELIVERY PR  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| WTI-BRENT BULLET SWAP     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| WTI-BRENT CALENDAR SWAP   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 120                   | -100.0%  |
| WTI CALENDAR              | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| WTS (ARGUS) VS WTI SWAP   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| WTS (ARGUS) VS WTI TRD MT | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>MAY 2018 | Open<br>Outcry<br>MAY 2017 | % CHG | ELEC<br>MAY 2018 | ELEC<br>MAY 2017 | % CHG   | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG | ELEC<br>Y.T.D 2018 | ELEC<br>Y.T.D<br>2017 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|-------|------------------|------------------|---------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| <b>Energy Options</b>     |                            |                            |       |                  |                  |         |                              |                              |       |                    |                       |          |
| 12 MO GASOIL CAL SWAP SPR | 0                          | -                          | -     | 0                | -                |         | 0                            | -                            | -     | 0                  | -                     | -        |
| 1 MO GASOIL CAL SWAP SPR  | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| BRENT 1 MONTH CAL         | 0                          | -                          | -     | 0                | -                |         | 0                            | -                            | -     | 0                  | -                     | -        |
| BRENT CALENDAR SWAP       | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| BRENT CRUDE OIL 12 M CSO  | 0                          | -                          | -     | 0                | -                |         | 0                            | -                            | -     | 0                  | -                     | -        |
| BRENT CRUDE OIL 1 M CSO   | 0                          | -                          | -     | 500              | -                |         | 0                            | -                            | -     | 2,300              | -                     | -        |
| BRENT CRUDE OIL 6 M CSO   | 0                          | -                          | -     | 0                | -                |         | 0                            | -                            | -     | 0                  | -                     | -        |
| BRENT OIL LAST DAY        | 0                          | 0                          | 0.0%  | 49,587           | 7,538            | 557.83% | 0                            | 0                            | 0.0%  | 206,535            | 22,591                | 814.2%   |
| COAL API2 INDEX           | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| COAL API4 INDEX           | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| COAL SWAP                 | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CRUDE OIL 1MO             | 0                          | 0                          | 0.0%  | 10,500           | 3,905            | 168.89% | 0                            | 0                            | 0.0%  | 81,110             | 85,958                | -5.6%    |
| CRUDE OIL APO             | 0                          | 0                          | 0.0%  | 135              | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 301                | 40                    | 652.5%   |
| CRUDE OIL CALNDR STRIP    | 0                          | -                          | -     | 0                | -                |         | 0                            | -                            | -     | 0                  | -                     | -        |
| CRUDE OIL OUTRIGHTS       | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| CRUDE OIL PHY             | 0                          | 0                          | 0.0%  | 3,293,675        | 4,116,677        | -19.99% | 0                            | 0                            | 0.0%  | 15,730,194         | 16,192,570            | -2.9%    |
| ELEC FINSETTLED           | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| ELEC MISO PEAK            | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ETHANOL                   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ETHANOL SWAP              | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| EURO-DENOMINATED PETRO    | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| EUROPEAN JET KEROSENE N   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| GASOLINE                  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| HEATING OIL CRACK OPTIONS | 0                          | -                          | -     | 0                | -                |         | 0                            | -                            | -     | 0                  | -                     | -        |
| HEATING OIL CRK SPD AVG P | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| HEATING OIL PHY           | 0                          | 0                          | 0.0%  | 4,712            | 6,057            | -22.21% | 0                            | 0                            | 0.0%  | 32,185             | 24,448                | 31.6%    |
| HENRY HUB FINANCIAL LAST  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 5                  | 0                     | 0.0%     |
| HO 1 MONTH CLNDR OPTIONS  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| HUSTN SHIP CHNL PIPE SWP  | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| LLS CRUDE OIL             | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MCCLOSKEY ARA ARGS COAL   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MCCLOSKEY RCH BAY COAL    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NATURAL GAS               | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NATURAL GAS 1 M CSO FIN   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 1                  | 0                     | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>MAY 2018 | Open<br>Outcry<br>MAY 2017 | % CHG | ELEC<br>MAY 2018 | ELEC<br>MAY 2017 | % CHG    | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG | ELEC<br>Y.T.D 2018 | ELEC<br>Y.T.D<br>2017 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|-------|------------------|------------------|----------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| <b>Energy Options</b>     |                            |                            |       |                  |                  |          |                              |                              |       |                    |                       |          |
| NATURAL GAS 2 M CSO FIN   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NATURAL GAS 3 M CSO FIN   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 1                  | 0                     | 0.0%     |
| NATURAL GAS 5 M CSO FIN   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NATURAL GAS 6 M CSO FIN   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NATURAL GAS OPTION ON CA  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NATURAL GAS PHY           | 0                          | 0                          | 0.0%  | 1,031,485        | 1,371,466        | -24.79%  | 0                            | 0                            | 0.0%  | 6,756,362          | 5,527,633             | 22.2%    |
| NG HH 3 MONTH CAL         | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| N ROCKIES PIPE SWAP       | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NY HARBOR HEAT OIL SWP    | 0                          | 0                          | 0.0%  | 104              | 104              | 0.00%    | 0                            | 0                            | 0.0%  | 261                | 319                   | -18.2%   |
| NYISO ZONE G 5MW PEAK OP  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NYMEX EUROPEAN GASOIL A   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NYMEX EUROPEAN GASOIL O   | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| PANHANDLE PIPE SWAP       | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PETROCHEMICALS            | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 5                  | 0                     | 0.0%     |
| PETRO OUTRIGHT EURO       | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PETRO OUTRIGHT NA         | 0                          | -                          | -     | 0                | -                |          | 0                            | -                            | -     | 0                  | -                     | -        |
| PJM MONTHLY               | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| PJM WES HUB PEAK CAL MTH  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM WES HUB PEAK LMP 50M  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| RBOB 1MO CAL SPD OPTIONS  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| RBOB CALENDAR SWAP        | 0                          | 0                          | 0.0%  | 0                | 10               | -100.00% | 0                            | 0                            | 0.0%  | 0                  | 10                    | -100.0%  |
| RBOB PHY                  | 0                          | 0                          | 0.0%  | 3,900            | 8,618            | -54.75%  | 0                            | 0                            | 0.0%  | 23,229             | 29,865                | -22.2%   |
| ROTTERDAM 3.5%FUEL OIL CL | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SAN JUAN PIPE SWAP        | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SHORT TERM                | 0                          | 0                          | 0.0%  | 168              | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 468                | 0                     | 0.0%     |
| SHORT TERM NATURAL GAS    | 0                          | 0                          | 0.0%  | 72               | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 426                | 0                     | 0.0%     |
| SINGAPORE GASOIL CALEND A | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SINGAPORE JET FUEL CALEN  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SOCAL PIPE SWAP           | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| WTI-BRENT BULLET SWAP     | 0                          | 0                          | 0.0%  | 3,990            | 880              | 353.41%  | 0                            | 0                            | 0.0%  | 132,811            | 4,720                 | 2,713.8% |
| WTI CRUDE OIL 1 M CSO FI  | 0                          | 0                          | 0.0%  | 2,200            | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 13,150             | 0                     | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                        | Open<br>Outcry<br>MAY 2018 | Open<br>Outcry<br>MAY 2017 | % CHG   | ELEC<br>MAY 2018 | ELEC<br>MAY 2017 | % CHG      | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG   | ELEC<br>Y.T.D 2018 | ELEC<br>Y.T.D<br>2017 | %<br>CHG |
|------------------------|----------------------------|----------------------------|---------|------------------|------------------|------------|------------------------------|------------------------------|---------|--------------------|-----------------------|----------|
| <b>FX Futures</b>      |                            |                            |         |                  |                  |            |                              |                              |         |                    |                       |          |
| AD/CD CROSS RATES      | 0                          | 0                          | 0.0%    | 13               | 2                | 550.00%    | 0                            | 0                            | 0.0%    | 35                 | 23                    | 52.2%    |
| AD/JY CROSS RATES      | 0                          | 0                          | 0.0%    | 2,852            | 1,472            | 93.75%     | 0                            | 0                            | 0.0%    | 18,578             | 9,169                 | 102.6%   |
| AD/NE CROSS RATES      | 0                          | 0                          | 0.0%    | 51               | 259              | -80.31%    | 0                            | 0                            | 0.0%    | 386                | 369                   | 4.6%     |
| AUSTRALIAN DOLLAR      | 0                          | 220                        | -100.0% | 2,559,168        | 1,981,138        | 29.18%     | 0                            | 967                          | -100.0% | 12,105,034         | 9,115,201             | 32.8%    |
| BDI                    | 0                          | 0                          | 0.0%    | 0                | 549              | -100.00%   | 0                            | 0                            | 0.0%    | 0                  | 5,952                 | -100.0%  |
| BP/JY CROSS RATES      | 0                          | 0                          | 0.0%    | 2,326            | 2,374            | -2.02%     | 0                            | 0                            | 0.0%    | 16,847             | 11,377                | 48.1%    |
| BP/SF CROSS RATES      | 0                          | 0                          | 0.0%    | 523              | 164              | 218.90%    | 0                            | 0                            | 0.0%    | 1,690              | 472                   | 258.1%   |
| BRAZIL REAL            | 0                          | 0                          | 0.0%    | 98,580           | 75,189           | 31.11%     | 0                            | 0                            | 0.0%    | 459,938            | 249,021               | 84.7%    |
| BRITISH POUND          | 0                          | 0                          | 0.0%    | 2,824,770        | 2,297,599        | 22.94%     | 7                            | 248                          | -97.2%  | 13,731,573         | 11,847,307            | 15.9%    |
| CANADIAN DOLLAR        | 0                          | 1,268                      | -100.0% | 1,960,099        | 1,545,905        | 26.79%     | 33                           | 2,034                        | -98.4%  | 8,895,056          | 7,019,878             | 26.7%    |
| CD/JY CROSS RATES      | 0                          | 0                          | 0.0%    | 204              | 2                | 10,100.00% | 0                            | 0                            | 0.0%    | 524                | 434                   | 20.7%    |
| CHINESE RENMINBI (CNH) | 0                          | 0                          | 0.0%    | 2,345            | 1,888            | 24.21%     | 0                            | 0                            | 0.0%    | 11,850             | 7,691                 | 54.1%    |
| EC/AD CROSS RATES      | 0                          | 0                          | 0.0%    | 742              | 1,489            | -50.17%    | 0                            | 0                            | 0.0%    | 6,295              | 10,994                | -42.7%   |
| EC/CD CROSS RATES      | 0                          | 0                          | 0.0%    | 2,051            | 2,991            | -31.43%    | 0                            | 0                            | 0.0%    | 16,968             | 14,863                | 14.2%    |
| EC/NOK CROSS RATES     | 0                          | 0                          | 0.0%    | 310              | 80               | 287.50%    | 0                            | 0                            | 0.0%    | 1,537              | 206                   | 646.1%   |
| EC/SEK CROSS RATES     | 0                          | 0                          | 0.0%    | 182              | 43               | 323.26%    | 0                            | 0                            | 0.0%    | 3,230              | 647                   | 399.2%   |
| EFX/BP CROSS RATES     | 0                          | 0                          | 0.0%    | 54,488           | 49,058           | 11.07%     | 0                            | 0                            | 0.0%    | 359,632            | 268,366               | 34.0%    |
| EFX/JY CROSS RATES     | 0                          | 0                          | 0.0%    | 98,905           | 51,678           | 91.39%     | 0                            | 0                            | 0.0%    | 399,545            | 242,668               | 64.6%    |
| EFX/SF CROSS RATES     | 0                          | 0                          | 0.0%    | 34,366           | 27,012           | 27.22%     | 0                            | 0                            | 0.0%    | 138,309            | 137,365               | 0.7%     |
| E-MICRO AUD/USD        | 0                          | 0                          | 0.0%    | 107,774          | 71,670           | 50.38%     | 0                            | 0                            | 0.0%    | 507,275            | 393,622               | 28.9%    |
| E-MICRO CAD/USD        | 0                          | 0                          | 0.0%    | 15,697           | 18,572           | -15.48%    | 0                            | 0                            | 0.0%    | 90,802             | 78,939                | 15.0%    |
| E-MICRO CHF/USD        | 0                          | 0                          | 0.0%    | 1,438            | 1,176            | 22.28%     | 0                            | 0                            | 0.0%    | 6,616              | 4,769                 | 38.7%    |
| E-MICRO EUR/USD        | 0                          | 0                          | 0.0%    | 479,033          | 264,980          | 80.78%     | 0                            | 0                            | 0.0%    | 2,044,247          | 1,329,520             | 53.8%    |
| E-MICRO GBP/USD        | 0                          | 0                          | 0.0%    | 35,874           | 59,474           | -39.68%    | 0                            | 0                            | 0.0%    | 270,095            | 314,092               | -14.0%   |
| E-MICRO INR/USD        | 0                          | 0                          | 0.0%    | 5,706            | 3,135            | 82.01%     | 0                            | 0                            | 0.0%    | 18,673             | 12,572                | 48.5%    |
| E-MICRO JPY/USD        | 0                          | 0                          | 0.0%    | 31,063           | 35,703           | -13.00%    | 0                            | 0                            | 0.0%    | 170,835            | 239,185               | -28.6%   |
| E-MICRO USD/CAD        | -                          | 0                          | 0.0%    | -                | 0                | 0.00%      | -                            | 0                            | 0.0%    | -                  | 0                     | 0.0%     |
| E-MICRO USD/CHF        | -                          | 0                          | 0.0%    | -                | 0                | 0.00%      | -                            | 0                            | 0.0%    | -                  | 0                     | 0.0%     |
| E-MICRO USD/CNH        | -                          | 0                          | 0.0%    | -                | 0                | 0.00%      | -                            | 0                            | 0.0%    | -                  | 0                     | 0.0%     |
| E-MICRO USD/JPY        | -                          | 0                          | 0.0%    | -                | 0                | 0.00%      | -                            | 0                            | 0.0%    | -                  | 0                     | 0.0%     |
| E-MINI EURO FX         | 0                          | 0                          | 0.0%    | 122,279          | 90,684           | 34.84%     | 0                            | 0                            | 0.0%    | 518,133            | 423,932               | 22.2%    |
| E-MINI JAPANESE YEN    | 0                          | 0                          | 0.0%    | 11,648           | 44,708           | -73.95%    | 0                            | 0                            | 0.0%    | 62,843             | 168,810               | -62.8%   |
| EURO FX                | 9                          | 123                        | -92.7%  | 7,278,309        | 4,114,166        | 76.91%     | 446                          | 1,731                        | -74.2%  | 28,969,625         | 21,141,682            | 37.0%    |
| HUNGARIAN FORINT (EC)  | 0                          | -                          | -       | 0                | -                |            | 0                            | -                            | -       | 0                  | -                     | -        |

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## CME Group Exchange Volume Comparison Report - Monthly

|                     | Open<br>Outcry<br>MAY 2018 | Open<br>Outcry<br>MAY 2017 | % CHG | ELEC<br>MAY 2018 | ELEC<br>MAY 2017 | % CHG   | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG   | ELEC<br>Y.T.D 2018 | ELEC<br>Y.T.D<br>2017 | %<br>CHG |
|---------------------|----------------------------|----------------------------|-------|------------------|------------------|---------|------------------------------|------------------------------|---------|--------------------|-----------------------|----------|
| <b>FX Futures</b>   |                            |                            |       |                  |                  |         |                              |                              |         |                    |                       |          |
| INDIAN RUPEE        | 0                          | 0                          | 0.0%  | 104,437          | 45,789           | 128.08% | 0                            | 0                            | 0.0%    | 454,751            | 156,646               | 190.3%   |
| JAPANESE YEN        | 0                          | 0                          | 0.0%  | 3,233,433        | 3,347,622        | -3.41%  | 17                           | 7,362                        | -99.8%  | 16,222,369         | 16,895,587            | -4.0%    |
| KOREAN WON          | 0                          | 0                          | 0.0%  | 114              | 12               | 850.00% | 0                            | 0                            | 0.0%    | 1,301              | 67                    | 1,841.8% |
| MEXICAN PESO        | 0                          | 0                          | 0.0%  | 1,598,324        | 1,042,936        | 53.25%  | 0                            | 5                            | -100.0% | 6,796,343          | 4,934,006             | 37.7%    |
| NEW ZEALND DOLLAR   | 0                          | 0                          | 0.0%  | 781,323          | 468,858          | 66.64%  | 0                            | 0                            | 0.0%    | 3,402,696          | 2,348,030             | 44.9%    |
| NKR/USD CROSS RATE  | 0                          | 0                          | 0.0%  | 4,519            | 1,193            | 278.79% | 0                            | 0                            | 0.0%    | 18,177             | 8,227                 | 120.9%   |
| POLISH ZLOTY (EC)   | 0                          | 0                          | 0.0%  | 16               | 130              | -87.69% | 0                            | 0                            | 0.0%    | 64                 | 265                   | -75.8%   |
| POLISH ZLOTY (US)   | 0                          | 0                          | 0.0%  | 81               | 61               | 32.79%  | 0                            | 0                            | 0.0%    | 519                | 569                   | -8.8%    |
| RMB USD             | 0                          | 0                          | 0.0%  | 1                | 21               | -95.24% | 0                            | 0                            | 0.0%    | 16                 | 142                   | -88.7%   |
| RUSSIAN RUBLE       | 0                          | 0                          | 0.0%  | 45,013           | 42,069           | 7.00%   | 0                            | 0                            | 0.0%    | 285,859            | 167,422               | 70.7%    |
| S.AFRICAN RAND      | 0                          | 0                          | 0.0%  | 50,585           | 27,599           | 83.29%  | 0                            | 0                            | 0.0%    | 210,930            | 194,064               | 8.7%     |
| SF/JY CROSS RATES   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| SHEKEL              | 0                          | -                          | -     | 0                | -                |         | 0                            | -                            | -       | 0                  | -                     | -        |
| SKR/USD CROSS RATES | 0                          | 0                          | 0.0%  | 3,957            | 2,121            | 86.56%  | 0                            | 0                            | 0.0%    | 16,274             | 9,431                 | 72.6%    |
| SWISS FRANC         | 0                          | 0                          | 0.0%  | 597,559          | 641,523          | -6.85%  | 0                            | 0                            | 0.0%    | 2,929,979          | 2,468,438             | 18.7%    |
| TURKISH LIRA        | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%    | 0                  | 12                    | -100.0%  |
| USDZAR              | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%    | 5                  | 0                     | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                      | Open<br>Outcry<br>MAY 2018 | Open<br>Outcry<br>MAY 2017 | % CHG   | ELEC<br>MAY 2018 | ELEC<br>MAY 2017 | % CHG    | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG   | ELEC<br>Y.T.D 2018 | ELEC<br>Y.T.D<br>2017 | %<br>CHG |
|----------------------|----------------------------|----------------------------|---------|------------------|------------------|----------|------------------------------|------------------------------|---------|--------------------|-----------------------|----------|
| <b>FX Options</b>    |                            |                            |         |                  |                  |          |                              |                              |         |                    |                       |          |
| AUD/USD PQO 2pm Fix  | 0                          | 600                        | -100.0% | 120,350          | 84,185           | 42.96%   | 0                            | 1,975                        | -100.0% | 635,074            | 358,823               | 77.0%    |
| AUSTRALIAN DLR (EU)  | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 0                  | 2                     | -100.0%  |
| AUSTRALIAN DOLLAR    | 0                          | 251                        | -100.0% | 0                | 43,725           | -100.00% | 0                            | 2,674                        | -100.0% | 0                  | 188,781               | -100.0%  |
| BRITISH POUND        | 0                          | 40                         | -100.0% | 0                | 99,618           | -100.00% | 0                            | 691                          | -100.0% | 0                  | 371,255               | -100.0%  |
| BRITISH POUND (EU)   | 0                          | 0                          | 0.0%    | 111              | 127              | -12.60%  | 0                            | 0                            | 0.0%    | 228                | 948                   | -75.9%   |
| CAD/USD PQO 2pm Fix  | 10                         | 367                        | -97.3%  | 176,920          | 101,021          | 75.13%   | 1,619                        | 2,132                        | -24.1%  | 851,702            | 392,651               | 116.9%   |
| CANADIAN DOLLAR      | 0                          | 2,910                      | -100.0% | 0                | 44,116           | -100.00% | 0                            | 4,592                        | -100.0% | 0                  | 172,213               | -100.0%  |
| CANADIAN DOLLAR (EU) | 0                          | 0                          | 0.0%    | 0                | 32               | -100.00% | 0                            | 0                            | 0.0%    | 63                 | 78                    | -19.2%   |
| CHF/USD PQO 2pm Fix  | 0                          | 0                          | 0.0%    | 4,847            | 2,503            | 93.65%   | 0                            | 0                            | 0.0%    | 13,252             | 10,537                | 25.8%    |
| EFX/JY CROSS RATES   | 0                          | -                          | -       | 0                | -                | -        | 0                            | -                            | -       | 0                  | -                     | -        |
| EURO FX              | 0                          | 630                        | -100.0% | 0                | 328,083          | -100.00% | 0                            | 8,387                        | -100.0% | 0                  | 1,219,914             | -100.0%  |
| EURO FX (EU)         | 0                          | 0                          | 0.0%    | 7                | 61               | -88.52%  | 0                            | 0                            | 0.0%    | 28                 | 290                   | -90.3%   |
| EUR/USD PQO 2pm Fix  | 3,306                      | 1,710                      | 93.3%   | 998,307          | 470,549          | 112.16%  | 7,555                        | 12,725                       | -40.6%  | 4,214,741          | 2,000,179             | 110.7%   |
| GBP/USD PQO 2pm Fix  | 25                         | 16                         | 56.3%   | 229,666          | 136,906          | 67.75%   | 480                          | 525                          | -8.6%   | 1,222,450          | 637,693               | 91.7%    |
| JAPANESE YEN         | 0                          | 816                        | -100.0% | 0                | 83,733           | -100.00% | 0                            | 8,318                        | -100.0% | 0                  | 498,882               | -100.0%  |
| JAPANESE YEN (EU)    | 0                          | 0                          | 0.0%    | 0                | 4                | -100.00% | 0                            | 0                            | 0.0%    | 0                  | 137                   | -100.0%  |
| JPY/USD PQO 2pm Fix  | 280                        | 40                         | 600.0%  | 253,418          | 186,926          | 35.57%   | 3,433                        | 24,850                       | -86.2%  | 1,361,036          | 1,003,548             | 35.6%    |
| MEXICAN PESO         | 1,215                      | 500                        | 143.0%  | 866              | 557              | 55.48%   | 2,695                        | 749                          | 259.8%  | 7,892              | 18,063                | -56.3%   |
| RUSSIAN RUBLE        | -                          | 0                          | 0.0%    | -                | 0                | 0.00%    | -                            | 0                            | 0.0%    | -                  | 0                     | 0.0%     |
| SWISS FRANC          | 0                          | 0                          | 0.0%    | 0                | 1,182            | -100.00% | 0                            | 0                            | 0.0%    | 0                  | 5,327                 | -100.0%  |
| SWISS FRANC (EU)     | 0                          | 0                          | 0.0%    | 0                | 6                | -100.00% | 0                            | 0                            | 0.0%    | 0                  | 11                    | -100.0%  |

### Ags Futures

|                     |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| FERTILIZER PRODUCTS | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|

### Foreign Exchange Futures

|              |   |   |      |     |     |         |   |   |      |       |       |        |
|--------------|---|---|------|-----|-----|---------|---|---|------|-------|-------|--------|
| CHILEAN PESO | 0 | 0 | 0.0% | 829 | 199 | 316.58% | 0 | 0 | 0.0% | 8,488 | 1,108 | 666.1% |
|--------------|---|---|------|-----|-----|---------|---|---|------|-------|-------|--------|

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## CME Group Exchange Volume Comparison Report - Monthly

|                                 | Open<br>Outcry<br>MAY 2018 | Open<br>Outcry<br>MAY 2017 | % CHG   | ELEC<br>MAY 2018 | ELEC<br>MAY 2017 | % CHG    | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG   | ELEC<br>Y.T.D 2018 | ELEC<br>Y.T.D<br>2017 | %<br>CHG |
|---------------------------------|----------------------------|----------------------------|---------|------------------|------------------|----------|------------------------------|------------------------------|---------|--------------------|-----------------------|----------|
| <b>Foreign Exchange Options</b> |                            |                            |         |                  |                  |          |                              |                              |         |                    |                       |          |
| AUD/USD PQO 2pm Fix             | 0                          | -                          | -       | 1,548            | -                |          | 0                            | -                            | -       | 3,614              | -                     | -        |
| <b>Ag Products Futures</b>      |                            |                            |         |                  |                  |          |                              |                              |         |                    |                       |          |
| BUTTER CS                       | 0                          | 0                          | 0.0%    | 3,801            | 3,282            | 15.81%   | 0                            | 0                            | 0.0%    | 22,364             | 15,155                | 47.6%    |
| CASH-SETTLED CHEESE             | 0                          | 0                          | 0.0%    | 8,732            | 7,429            | 17.54%   | 0                            | 0                            | 0.0%    | 45,486             | 52,428                | -13.2%   |
| CAT EURO SEASONAL STRIP         | -                          | 0                          | 0.0%    | -                | 0                | 0.00%    | -                            | 0                            | 0.0%    | -                  | 0                     | 0.0%     |
| CATTLE                          | 817                        | 10,328                     | -92.1%  | 1,678,279        | 2,147,698        | -21.86%  | 6,636                        | 23,470                       | -71.7%  | 7,155,387          | 7,194,858             | -0.5%    |
| CDD SEASONAL STRIP              | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| CDD WEATHER                     | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| CHI WHEAT                       | 15,010                     | 12,487                     | 20.2%   | 3,380,741        | 2,490,989        | 35.72%   | 68,866                       | 89,093                       | -22.7%  | 16,169,816         | 13,507,287            | 19.7%    |
| CLASS IV MILK                   | 0                          | 0                          | 0.0%    | 453              | 898              | -49.55%  | 0                            | 60                           | -100.0% | 2,893              | 6,229                 | -53.6%   |
| COCOA TAS                       | 0                          | 0                          | 0.0%    | 0                | 21               | -100.00% | 0                            | 0                            | 0.0%    | 5                  | 74                    | -93.2%   |
| COFFEE                          | 0                          | 0                          | 0.0%    | 0                | 20               | -100.00% | 0                            | 0                            | 0.0%    | 0                  | 40                    | -100.0%  |
| CORN                            | 44,500                     | 28,230                     | 57.6%   | 7,892,350        | 5,997,991        | 31.58%   | 149,245                      | 155,177                      | -3.8%   | 42,858,264         | 33,863,762            | 26.6%    |
| COTTON                          | 0                          | 0                          | 0.0%    | 0                | 10               | -100.00% | 0                            | 0                            | 0.0%    | 2                  | 14                    | -85.7%   |
| DJ_UBS ROLL SELECT INDEX        | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| DOW-UBS COMMOD INDEX            | 0                          | 0                          | 0.0%    | 51,467           | 118,508          | -56.57%  | 0                            | 0                            | 0.0%    | 351,053            | 332,027               | 5.7%     |
| DRY WHEY                        | 0                          | 0                          | 0.0%    | 1,311            | 1,404            | -6.62%   | 0                            | 0                            | 0.0%    | 6,061              | 11,553                | -47.5%   |
| FEEDER CATTLE                   | 0                          | 106                        | -100.0% | 269,161          | 337,245          | -20.19%  | 12                           | 403                          | -97.0%  | 1,491,300          | 1,428,080             | 4.4%     |
| FERTILIZER PRODUCTS             | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| GOLDMAN SACHS                   | 0                          | 0                          | 0.0%    | 33,673           | 33,896           | -0.66%   | 0                            | 0                            | 0.0%    | 158,403            | 172,016               | -7.9%    |
| GSCI EXCESS RETURN FUT          | 0                          | 0                          | 0.0%    | 0                | 29               | -100.00% | 0                            | 0                            | 0.0%    | 296                | 356                   | -16.9%   |
| HDD EURO SEASONAL STRIP         | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| HDD SEASONAL STRIP              | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| HDD WEATHER                     | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 55                 | 50                    | 10.0%    |
| HDD WEATHER EUROPEAN            | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 0                  | 50                    | -100.0%  |
| HOGS                            | 726                        | 1,864                      | -61.1%  | 1,235,332        | 1,008,152        | 22.53%   | 7,125                        | 11,480                       | -37.9%  | 5,264,173          | 4,229,232             | 24.5%    |
| HOUSING INDEX                   | 0                          | 0                          | 0.0%    | 7                | 12               | -41.67%  | 0                            | 0                            | 0.0%    | 37                 | 63                    | -41.3%   |
| Intercommodity Spread           | -                          | 0                          | 0.0%    | -                | 0                | 0.00%    | -                            | 0                            | 0.0%    | -                  | 0                     | 0.0%     |
| KC WHEAT                        | 990                        | 1,565                      | -36.7%  | 1,172,730        | 967,854          | 21.17%   | 6,565                        | 5,733                        | 14.5%   | 7,028,668          | 4,736,880             | 48.4%    |
| LUMBER                          | 0                          | 0                          | 0.0%    | 21,911           | 16,614           | 31.88%   | 0                            | 0                            | 0.0%    | 95,725             | 84,376                | 13.5%    |

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## CME Group Exchange Volume Comparison Report - Monthly

|                            | Open<br>Outcry<br>MAY 2018 | Open<br>Outcry<br>MAY 2017 | % CHG    | ELEC<br>MAY 2018 | ELEC<br>MAY 2017 | % CHG     | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG   | ELEC<br>Y.T.D 2018 | ELEC<br>Y.T.D<br>2017 | %<br>CHG |
|----------------------------|----------------------------|----------------------------|----------|------------------|------------------|-----------|------------------------------|------------------------------|---------|--------------------|-----------------------|----------|
| <b>Ag Products Futures</b> |                            |                            |          |                  |                  |           |                              |                              |         |                    |                       |          |
| MALAYSIAN PALM SWAP        | 0                          | 0                          | 0.0%     | 0                | 0                | 0.00%     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| MILK                       | 480                        | 21                         | 2,185.7% | 20,571           | 30,332           | -32.18%   | 692                          | 605                          | 14.4%   | 99,017             | 139,052               | -28.8%   |
| MINI CORN                  | 0                          | 0                          | 0.0%     | 11,378           | 8,693            | 30.89%    | 0                            | 0                            | 0.0%    | 53,291             | 44,218                | 20.5%    |
| MINI SOYBEAN               | 0                          | 0                          | 0.0%     | 14,227           | 11,214           | 26.87%    | 0                            | 0                            | 0.0%    | 135,968            | 79,711                | 70.6%    |
| MINI WHEAT                 | 0                          | 0                          | 0.0%     | 7,308            | 5,747            | 27.16%    | 0                            | 0                            | 0.0%    | 30,924             | 27,464                | 12.6%    |
| MLK MID OPTIONS            | 0                          | 0                          | 0.0%     | 0                | 0                | 0.00%     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| NFD MILK                   | 0                          | 0                          | 0.0%     | 4,199            | 3,977            | 5.58%     | 43                           | 0                            | 0.0%    | 26,862             | 25,455                | 5.5%     |
| OATS                       | 0                          | 3                          | -100.0%  | 10,715           | 10,342           | 3.61%     | 0                            | 80                           | -100.0% | 74,835             | 65,883                | 13.6%    |
| PALM OIL                   | -                          | 0                          | 0.0%     | -                | 0                | 0.00%     | -                            | 0                            | 0.0%    | -                  | 0                     | 0.0%     |
| ROUGH RICE                 | 0                          | 0                          | 0.0%     | 15,003           | 18,447           | -18.67%   | 0                            | 0                            | 0.0%    | 83,652             | 110,698               | -24.4%   |
| SOYBEAN                    | 12,172                     | 12,852                     | -5.3%    | 4,336,090        | 3,614,401        | 19.97%    | 78,633                       | 69,998                       | 12.3%   | 26,089,852         | 20,155,153            | 29.4%    |
| SOYBEAN MEAL               | 5,182                      | 1,142                      | 353.8%   | 2,195,190        | 1,745,891        | 25.73%    | 24,381                       | 10,695                       | 128.0%  | 13,447,573         | 9,692,604             | 38.7%    |
| SOYBEAN OIL                | 1,473                      | 4,104                      | -64.1%   | 2,042,820        | 1,828,235        | 11.74%    | 7,985                        | 20,247                       | -60.6%  | 12,832,761         | 11,377,870            | 12.8%    |
| S&P GSCI ENHANCED ER SWA   | 0                          | 0                          | 0.0%     | 0                | 0                | 0.00%     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| SUGAR 11                   | 0                          | 0                          | 0.0%     | 0                | 7                | -100.00%  | 0                            | 0                            | 0.0%    | 58                 | 25                    | 132.0%   |
| USD CRUDE PALM OIL         | 0                          | 0                          | 0.0%     | 0                | 0                | 0.00%     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| WHEAT                      | 0                          | 0                          | 0.0%     | 0                | 22,132           | -100.00%  | 0                            | 0                            | 0.0%    | 22                 | 64,680                | -100.0%  |
| <b>Ag Products Options</b> |                            |                            |          |                  |                  |           |                              |                              |         |                    |                       |          |
| AUG-DEC SOYBEAN MEAL CS    | -                          | 0                          | 0.0%     | -                | 0                | 0.00%     | -                            | 0                            | 0.0%    | -                  | 0                     | 0.0%     |
| AUG-NOV SOYBEAN CAL SPR    | 0                          | 50                         | -100.0%  | 0                | 0                | 0.00%     | 0                            | 50                           | -100.0% | 0                  | 0                     | 0.0%     |
| BUTTER CS                  | 623                        | 1,024                      | -39.2%   | 4,529            | 356              | 1,172.19% | 5,537                        | 4,785                        | 15.7%   | 12,920             | 1,345                 | 860.6%   |
| CASH-SETTLED CHEESE        | 1,836                      | 5,796                      | -68.3%   | 6,032            | 3,785            | 59.37%    | 12,576                       | 22,075                       | -43.0%  | 32,923             | 17,786                | 85.1%    |
| CATTLE                     | 29,352                     | 74,453                     | -60.6%   | 277,066          | 228,020          | 21.51%    | 148,702                      | 305,604                      | -51.3%  | 1,272,724          | 1,054,275             | 20.7%    |
| CDD SEASONAL STRIP         | 0                          | 0                          | 0.0%     | 0                | 0                | 0.00%     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| CDD WEATHER                | 0                          | 0                          | 0.0%     | 0                | 0                | 0.00%     | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| CHI WHEAT                  | 206,260                    | 152,267                    | 35.5%    | 725,811          | 588,138          | 23.41%    | 912,992                      | 782,876                      | 16.6%   | 3,197,375          | 2,399,670             | 33.2%    |
| CLASS IV MILK              | 115                        | 110                        | 4.5%     | 815              | 2,403            | -66.08%   | 455                          | 1,860                        | -75.5%  | 4,229              | 6,817                 | -38.0%   |
| CORN                       | 679,914                    | 563,130                    | 20.7%    | 1,940,719        | 1,392,842        | 39.34%    | 2,772,355                    | 2,661,421                    | 4.2%    | 7,669,116          | 6,397,753             | 19.9%    |
| CORN NEARBY+2 CAL SPRD     | 220                        | 597                        | -63.1%   | 0                | 21               | -100.00%  | 6,928                        | 3,122                        | 121.9%  | 0                  | 32                    | -100.0%  |
| DEC-DEC CORN CAL SPRD      | 2,822                      | 2,473                      | 14.1%    | 0                | 0                | 0.00%     | 4,250                        | 3,920                        | 8.4%    | 0                  | 0                     | 0.0%     |
| DEC-JULY CORN CAL SPRD     | 1,500                      | 2,300                      | -34.8%   | 0                | 0                | 0.00%     | 1,500                        | 6,200                        | -75.8%  | 0                  | 0                     | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                            | Open<br>Outcry<br>MAY 2018 | Open<br>Outcry<br>MAY 2017 | % CHG   | ELEC<br>MAY 2018 | ELEC<br>MAY 2017 | % CHG   | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG    | ELEC<br>Y.T.D 2018 | ELEC<br>Y.T.D 2017 | %<br>CHG |
|----------------------------|----------------------------|----------------------------|---------|------------------|------------------|---------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| <b>Ag Products Options</b> |                            |                            |         |                  |                  |         |                              |                              |          |                    |                    |          |
| DEC-JULY WHEAT CAL SPRD    | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| DRY WHEY                   | 84                         | 266                        | -68.4%  | 591              | 130              | 354.62% | 823                          | 1,650                        | -50.1%   | 1,570              | 637                | 146.5%   |
| FEEDER CATTLE              | 2,079                      | 3,555                      | -41.5%  | 24,811           | 36,930           | -32.82% | 12,153                       | 16,891                       | -28.1%   | 158,061            | 165,792            | -4.7%    |
| HDD EURO SEASONAL STRIP    | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| HDD SEASONAL STRIP         | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| HDD WEATHER                | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| HDD WEATHER EUROPEAN       | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| HOGS                       | 11,966                     | 26,493                     | -54.8%  | 146,481          | 182,757          | -19.85% | 121,228                      | 120,051                      | 1.0%     | 802,036            | 792,751            | 1.2%     |
| HOUSING INDEX              | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%     | 0                  | 24                 | -100.0%  |
| Intercommodity Spread      | 639                        | 300                        | 113.0%  | 0                | 0                | 0.00%   | 7,269                        | 501                          | 1,350.9% | 0                  | 0                  | 0.0%     |
| JAN-MAY SOYBEAN CAL SPRD   | 0                          | -                          | -       | 0                | -                | -       | 0                            | -                            | -        | 0                  | -                  | -        |
| JULY-DEC CORN CAL SPRD     | 200                        | 7,820                      | -97.4%  | 0                | 0                | 0.00%   | 8,919                        | 15,332                       | -41.8%   | 100                | 0                  | 0.0%     |
| JULY-DEC SOY OIL CAL SPRD  | 0                          | 210                        | -100.0% | 0                | 0                | 0.00%   | 0                            | 630                          | -100.0%  | 0                  | 10                 | -100.0%  |
| JULY-DEC WHEAT CAL SPRD    | 650                        | 100                        | 550.0%  | 0                | 0                | 0.00%   | 1,315                        | 1,250                        | 5.2%     | 55                 | 0                  | 0.0%     |
| JULY-JULY WHEAT CAL SPRD   | -                          | 0                          | 0.0%    | -                | 0                | 0.00%   | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| JULY-NOV SOYBEAN CAL SPR   | 3,444                      | 13,604                     | -74.7%  | 355              | 133              | 166.92% | 47,563                       | 64,617                       | -26.4%   | 2,333              | 1,317              | 77.1%    |
| KC WHEAT                   | 20,829                     | 23,176                     | -10.1%  | 66,706           | 60,185           | 10.83%  | 172,550                      | 73,518                       | 134.7%   | 309,674            | 150,971            | 105.1%   |
| LUMBER                     | 21                         | 0                          | 0.0%    | 2,508            | 1,175            | 113.45% | 157                          | 30                           | 423.3%   | 9,904              | 6,199              | 59.8%    |
| LV CATL CSO                | 83                         | 102                        | -18.6%  | 0                | 0                | 0.00%   | 103                          | 1,157                        | -91.1%   | 0                  | 0                  | 0.0%     |
| MAR-JULY CORN CAL SPRD     | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| MAR-JULY WHEAT CAL SPRD    | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%   | 200                          | 1,293                        | -84.5%   | 0                  | 76                 | -100.0%  |
| MILK                       | 12,697                     | 12,907                     | -1.6%   | 23,833           | 27,920           | -14.64% | 35,959                       | 63,809                       | -43.6%   | 105,809            | 123,291            | -14.2%   |
| MLK MID OPTIONS            | 68                         | 126                        | -46.0%  | 0                | 0                | 0.00%   | 278                          | 455                          | -38.9%   | 0                  | 0                  | 0.0%     |
| NFD MILK                   | 831                        | 1,465                      | -43.3%  | 2,803            | 2,450            | 14.41%  | 6,745                        | 9,242                        | -27.0%   | 20,627             | 13,807             | 49.4%    |
| NOV-JULY SOYBEAN CAL SPR   | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%   | 1                            | 25                           | -96.0%   | 0                  | 0                  | 0.0%     |
| NOV-MAR SOYBEAN CSO        | 0                          | -                          | -       | 0                | -                | -       | 70                           | -                            | -        | 0                  | -                  | -        |
| NOV-NOV SOYBEAN CAL SPR    | 5                          | 0                          | 0.0%    | 0                | 0                | 0.00%   | 18                           | 76                           | -76.3%   | 0                  | 0                  | 0.0%     |
| OATS                       | 100                        | 144                        | -30.6%  | 208              | 864              | -75.93% | 572                          | 2,766                        | -79.3%   | 1,631              | 2,979              | -45.3%   |
| ROUGH RICE                 | 1,065                      | 2,968                      | -64.1%  | 819              | 1,904            | -56.99% | 2,513                        | 5,358                        | -53.1%   | 4,171              | 5,157              | -19.1%   |
| SEP-DEC SOYBEAN MEAL CSC   | 800                        | -                          | -       | 0                | -                | -       | 800                          | -                            | -        | 0                  | -                  | -        |
| SOYBEAN                    | 408,480                    | 234,839                    | 73.9%   | 1,545,651        | 1,138,358        | 35.78%  | 1,648,317                    | 1,529,308                    | 7.8%     | 7,172,030          | 4,842,910          | 48.1%    |
| SOYBEAN CRUSH              | 39                         | 130                        | -70.0%  | 0                | 0                | 0.00%   | 121                          | 425                          | -71.5%   | 0                  | 0                  | 0.0%     |
| SOYBEAN MEAL               | 151,266                    | 55,885                     | 170.7%  | 194,817          | 136,544          | 42.68%  | 650,170                      | 282,798                      | 129.9%   | 1,050,643          | 610,437            | 72.1%    |
| SOYBEAN OIL                | 30,899                     | 131,016                    | -76.4%  | 72,914           | 121,216          | -39.85% | 191,778                      | 471,286                      | -59.3%   | 413,686            | 480,669            | -13.9%   |

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## CME Group Exchange Volume Comparison Report - Monthly

|                            | Open<br>Outcry<br>MAY 2018 | Open<br>Outcry<br>MAY 2017 | % CHG        | ELEC<br>MAY 2018   | ELEC<br>MAY 2017   | % CHG        | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG        | ELEC<br>Y.T.D 2018   | ELEC<br>Y.T.D<br>2017 | %<br>CHG     |
|----------------------------|----------------------------|----------------------------|--------------|--------------------|--------------------|--------------|------------------------------|------------------------------|--------------|----------------------|-----------------------|--------------|
| <b>Ag Products Options</b> |                            |                            |              |                    |                    |              |                              |                              |              |                      |                       |              |
| SOYBN NEARBY+2 CAL SPRD    | 0                          | 100                        | -100.0%      | 0                  | 0                  | 0.00%        | 0                            | 460                          | -100.0%      | 0                    | 600                   | -100.0%      |
| SOYMEAL NEARBY+2 CAL SPR   | 0                          | 0                          | 0.0%         | 0                  | 0                  | 0.00%        | 400                          | 0                            | 0.0%         | 0                    | 0                     | 0.0%         |
| WHEAT                      | 200                        | 236                        | -15.3%       | 0                  | 270                | -100.00%     | 610                          | 783                          | -22.1%       | 154                  | 407                   | -62.2%       |
| WHEAT-CORN ICSD            | 600                        | 0                          | 0.0%         | 0                  | 0                  | 0.00%        | 2,945                        | 3,205                        | -8.1%        | 0                    | 6                     | -100.0%      |
| WHEAT NEARBY+2 CAL SPRD    | 400                        | 160                        | 150.0%       | 5                  | 331                | -98.49%      | 5,050                        | 3,380                        | 49.4%        | 2,251                | 2,261                 | -0.4%        |
| <b>TOTAL FUTURES GROUP</b> |                            |                            |              |                    |                    |              |                              |                              |              |                      |                       |              |
| Interest Rate Futures      | 1,039,372                  | 837,166                    | 24.2%        | 198,938,001        | 146,385,596        | 35.9%        | 5,707,822                    | 4,428,323                    | 28.9%        | 836,818,730          | 657,064,868           | 27.4%        |
| Equity Index Futures       | 23,388                     | 28,289                     | -17.3%       | 44,366,753         | 37,143,013         | 19.4%        | 196,622                      | 329,197                      | -40.3%       | 279,156,621          | 198,176,210           | 40.9%        |
| Metals Futures             | 0                          | 0                          | 0.0%         | 13,229,928         | 10,462,684         | 26.4%        | 0                            | 0                            | 0.0%         | 64,720,929           | 47,759,788            | 35.5%        |
| Energy Futures             | 0                          | 0                          | 0.0%         | 49,804,676         | 46,493,736         | 7.1%         | 0                            | 0                            | 0.0%         | 233,112,704          | 205,016,733           | 13.7%        |
| FX Futures                 | 9                          | 1,611                      | -99.4%       | 22,150,158         | 16,363,094         | 35.4%        | 503                          | 12,347                       | -95.9%       | 99,165,454           | 80,232,032            | 23.6%        |
| Ags Futures                | 0                          | -                          | -            | 0                  | -                  | -            | 0                            | -                            | -            | 0                    | -                     | -            |
| Foreign Exchange Futures   | 0                          | 0                          | 0.0%         | 829                | 199                | 316.6%       | 0                            | 0                            | 0.0%         | 8,488                | 1,108                 | 666.1%       |
| Ag Products Futures        | 81,350                     | 72,702                     | 11.9%        | 24,407,449         | 20,431,470         | 19.5%        | 350,183                      | 387,041                      | -9.5%        | 133,524,803          | 107,417,343           | 24.3%        |
| <b>TOTAL FUTURES</b>       | <b>1,144,119</b>           | <b>939,768</b>             | <b>21.7%</b> | <b>352,897,794</b> | <b>277,279,792</b> | <b>27.3%</b> | <b>6,255,130</b>             | <b>5,156,908</b>             | <b>21.3%</b> | <b>1,646,507,729</b> | <b>1,295,668,082</b>  | <b>27.1%</b> |
| <b>TOTAL OPTIONS GROUP</b> |                            |                            |              |                    |                    |              |                              |                              |              |                      |                       |              |
| Equity Index Options       | 715,910                    | 1,021,276                  | -29.9%       | 12,030,992         | 13,039,495         | -7.7%        | 5,733,167                    | 5,342,442                    | 7.3%         | 89,928,985           | 66,556,041            | 35.1%        |
| Interest Rate Options      | 20,597,111                 | 19,542,363                 | 5.4%         | 26,762,393         | 21,722,455         | 23.2%        | 122,642,113                  | 116,280,644                  | 5.5%         | 138,806,607          | 107,549,735           | 29.1%        |
| Metals Options             | 0                          | 0                          | 0.0%         | 964,296            | 749,670            | 28.6%        | 0                            | 0                            | 0.0%         | 4,727,031            | 3,625,667             | 30.4%        |
| Energy Options             | 0                          | 0                          | 0.0%         | 4,401,028          | 5,515,255          | -20.2%       | 0                            | 0                            | 0.0%         | 22,979,344           | 21,888,154            | 5.0%         |
| FX Options                 | 4,836                      | 7,880                      | -38.6%       | 1,784,492          | 1,583,334          | 12.7%        | 15,782                       | 67,618                       | -76.7%       | 8,306,466            | 6,879,332             | 20.7%        |
| Ag Products Options        | 1,570,087                  | 1,317,802                  | 19.1%        | 5,037,474          | 3,926,732          | 28.3%        | 6,783,922                    | 6,462,209                    | 5.0%         | 22,244,022           | 17,077,979            | 30.2%        |
| Foreign Exchange Options   | 0                          | -                          | -            | 1,548              | -                  | -            | 0                            | -                            | -            | 3,614                | -                     | -            |
| <b>TOTAL OPTIONS</b>       | <b>22,887,944</b>          | <b>21,889,321</b>          | <b>4.6%</b>  | <b>50,982,223</b>  | <b>46,536,941</b>  | <b>9.6%</b>  | <b>135,174,984</b>           | <b>128,152,913</b>           | <b>5.5%</b>  | <b>286,996,069</b>   | <b>223,576,908</b>    | <b>28.4%</b> |

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## CME Group Exchange Volume Comparison Report - Monthly

|                       | Open<br>Outcry<br>MAY 2018 | Open<br>Outcry<br>MAY 2017 | % CHG       | ELEC<br>MAY 2018   | ELEC<br>MAY 2017   | % CHG        | Open<br>Outcry<br>Y.T.D 2018 | Open<br>Outcry<br>Y.T.D 2017 | % CHG       | ELEC<br>Y.T.D 2018   | ELEC<br>Y.T.D<br>2017 | %<br>CHG     |
|-----------------------|----------------------------|----------------------------|-------------|--------------------|--------------------|--------------|------------------------------|------------------------------|-------------|----------------------|-----------------------|--------------|
| <b>TOTAL COMBINED</b> |                            |                            |             |                    |                    |              |                              |                              |             |                      |                       |              |
| Interest Rate         | 21,636,483                 | 20,379,529                 | 6.2%        | 225,700,394        | 168,108,051        | 34.3%        | 128,349,935                  | 120,708,967                  | 6.3%        | 975,625,337          | 764,614,603           | 27.6%        |
| Equity Index          | 739,298                    | 1,049,565                  | -29.6%      | 56,397,745         | 50,182,508         | 12.4%        | 5,929,789                    | 5,671,639                    | 4.6%        | 369,085,606          | 264,732,251           | 39.4%        |
| Metals                | 0                          | 0                          | 0.0%        | 14,194,224         | 11,212,354         | 26.6%        | 0                            | 0                            | 0.0%        | 69,447,960           | 51,385,455            | 35.2%        |
| Energy                | 0                          | 0                          | 0.0%        | 54,205,704         | 52,008,991         | 4.2%         | 0                            | 0                            | 0.0%        | 256,092,048          | 226,904,887           | 12.9%        |
| FX                    | 4,845                      | 9,491                      | -49.0%      | 23,934,650         | 17,946,428         | 33.4%        | 16,285                       | 79,965                       | -79.6%      | 107,471,920          | 87,111,364            | 23.4%        |
| Ags                   | 0                          | -                          | -           | 0                  | -                  |              | 0                            |                              | -           | 0                    | -                     | -            |
| Foreign Exchange      | 0                          | 0                          | 0.0%        | 2,377              | 199                | 1,094.5%     | 0                            | 0                            | 0.0%        | 12,102               | 1,108                 | 992.2%       |
| Ag Products           | 1,651,437                  | 1,390,504                  | 18.8%       | 29,444,923         | 24,358,202         | 20.9%        | 7,134,105                    | 6,849,250                    | 4.2%        | 155,768,825          | 124,495,322           | 25.1%        |
| <b>GRAND TOTAL</b>    | <b>24,032,063</b>          | <b>22,829,089</b>          | <b>5.3%</b> | <b>403,880,017</b> | <b>323,816,733</b> | <b>24.7%</b> | <b>141,430,114</b>           | <b>133,309,821</b>           | <b>6.1%</b> | <b>1,933,503,798</b> | <b>1,519,244,990</b>  | <b>27.3%</b> |

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