

2018 DAILY INFORMATION BULLETIN - <http://www.cmegroup.com/dailybulletin>  
CME Group, Inc.  
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## FINAL

PG02C BULLETIN #198@

EXCHANGE SUMMARY VOLUME AND OPEN INTEREST ENERGY FUTURES

Fri, Oct 12, 2018 PG02C

## EXCHANGE OVERALL VOLUME AND OPEN INTEREST TOTALS

|                     | LOBEX®<br>VOLUME | OPEN OUTCRY<br>VOLUME | PNT<br>VOLUME | -----<br>VOLUME | OVERALL<br>VOLUME | COMBINED<br>OPEN INTEREST | TOTAL<br>& CHGE | -----<br>VOLUME | -52 WEEKS (364 DAYS)<br>OVERALL COMBINED TOTAL<br>VOLUME | AGO-<br>COMBINED TOTAL<br>OPEN INTEREST |
|---------------------|------------------|-----------------------|---------------|-----------------|-------------------|---------------------------|-----------------|-----------------|----------------------------------------------------------|-----------------------------------------|
| * CME GROUP TOTALS- |                  |                       |               |                 |                   |                           |                 |                 |                                                          |                                         |
| EXCHANGE            | 18737625         | 926947                | 499728        | 20164300        | 125113682         | -                         | 2751548         | 17094243        | 118993958                                                |                                         |
| EXCHANGE FUTURES    | 15491554         | 57399                 | 329545        | 15878498        | 55300278          | -                         | 133582          | 12737325        | 53955024                                                 |                                         |
| EXCHANGE OPTIONS    | 3246071          | 869548                | 170183        | 4285802         | 69784023          | -                         | 2617966         | 4356663         | 64995325                                                 |                                         |
| OTC TOTALS-         |                  |                       |               |                 |                   |                           |                 |                 |                                                          |                                         |
| OTC CLEARED ONLY    |                  |                       |               |                 | 29381             |                           | UNCH            | 255             | 43609                                                    |                                         |
| FUTURES & OPTIONS - |                  |                       |               |                 |                   |                           |                 |                 |                                                          |                                         |
| ENERGY              | 2392187          |                       | 211370        | 2603557         | 20432915          | +                         | 7550            | 2335810         | 22318537                                                 |                                         |
| FUTURES ONLY -      |                  |                       |               |                 |                   |                           |                 |                 |                                                          |                                         |
| ENERGY              | 2177321          |                       | 127867        | 2305188         | 12871523          | -                         | 47516           | 2091757         | 15887626                                                 |                                         |
| OPTIONS ONLY -      |                  |                       |               |                 |                   |                           |                 |                 |                                                          |                                         |
| ENERGY              | 214866           |                       | 83503         | 298369          | 7561392           | +                         | 55066           | 244053          | 6430911                                                  |                                         |

## CORE ENERGY FUTURES

|                                     |         |  |       |         |         |   |       |         |         |
|-------------------------------------|---------|--|-------|---------|---------|---|-------|---------|---------|
| CL NYMEX CRUDE OIL (PHYSICAL)       | 1107079 |  | 14249 | 1121328 | 2223244 | - | 9053  | 1206713 | 2479895 |
| HO NYMEX HEATING OIL (PHYSICAL)     | 183214  |  | 9426  | 192640  | 423203  | + | 1511  | 180768  | 451061  |
| RB NYMEX NY HARBOR GAS (RBOB) (PHY) | 210176  |  | 9510  | 219686  | 406326  | - | 13245 | 139607  | 405727  |
| NG NATURAL GAS HENRY HUB (PHYSICAL) | 542395  |  | 18320 | 560715  | 1626588 | - | 27865 | 446074  | 1371608 |
| BZ NYMEX BRENT OIL LAST DAY FUTURES | 102190  |  | 1167  | 103357  | 201933  | - | 1578  | 53574   | 138341  |
| 7F EUROPEAN GASOIL ICE FUTURE       | 20      |  |       | 20      | 116     | - | 64    | 100     | 956     |
| QM E-MINI CRUDE OIL FUTURES         | 20403   |  |       | 20403   | 3796    | - | 130   | 12241   | 4501    |
| QH E-MINI HEATING OIL FUTURES       |         |  |       |         | 2       |   |       |         | 2       |
| QU E-MINI GASOLINE FUTURES          |         |  |       |         | 1       |   |       |         | 1       |
| QG E-MINI NATURAL GAS               | 2001    |  |       | 2001    | 2185    | + | 209   | 1030    | 1893    |

## CRUDE OIL ENERGY FUTURES

|                                         |  |  |      |      |        |   |      |      |        |
|-----------------------------------------|--|--|------|------|--------|---|------|------|--------|
| E5 ARGUS LLS VS. WTI (ARG) TRD M        |  |  | 210  | 210  | 41972  | + | 150  | 465  | 28635  |
| 38 ARGUS SOUR CRUDE NDX VS WTI DIF CAL  |  |  |      |      | 615    |   |      |      |        |
| CY BRENT CALENDAR                       |  |  | 216  | 216  | 17596  | + | 216  |      | 16954  |
| CC5 CANADIAN C5+ CONDENSATE INDEX FUT   |  |  |      |      | 180    |   |      |      | 120    |
| WCC CANADIAN HEAVY CRUDE(NET ENRGY) FUT |  |  |      |      | 320    |   |      |      | 3490   |
| CIL CANADIAN LIGHT SWEET OIL            |  |  |      |      | 14     |   |      |      | 1314   |
| CSW CLEARBROOK BAKKEN CRUDE OIL INDEX   |  |  |      |      | 2280   |   |      |      | 875    |
| FY DATED TO FRONTLINE BRENT CLNDR       |  |  |      |      | 3715   |   |      |      | 11755  |
| DC DUBAI CRUDE OIL CALENDAR             |  |  | 8915 | 8915 | 31915  | - | 3385 |      | 6270   |
| UB EUROPE DATED BRENT                   |  |  | 210  | 210  | 1950   | + | 210  |      | 1337   |
| GSW GUERNSEY LIGHT SWEET CRUDE OIL FUT  |  |  |      |      |        |   |      |      | 45     |
| MB GULF COAST SOUR CRUDE OIL FUTURES    |  |  |      |      |        |   |      |      | 2220   |
| DB ICE BRENT DUBAI                      |  |  | 300  | 300  | 41592  | + | 300  |      | 43716  |
| LSW LIGHT SWEET OIL NET ENERGY MONTHLY  |  |  |      |      | 350    |   |      |      | 1875   |
| XA LLS (ARGUS) CALENDAR                 |  |  |      |      | 563    |   |      |      |        |
| WJ LLS (ARGUS) VS WTI                   |  |  | 285  | 285  | 32520  | - | 12   |      | 15647  |
| LPS LOOP CRUDE OIL STORAGE FUTURES      |  |  |      |      | 26830  |   |      |      | 20940  |
| YX MARS (ARGUS) VS WTI                  |  |  |      |      | 5120   |   |      |      | 8749   |
| YV MARS (ARGUS) VS WTI TRD MTH          |  |  | 450  | 450  | 16155  | + | 275  | 420  | 25305  |
| MDB MINI DATED BRENT (PLATTS) FINANCIAL |  |  |      |      |        |   |      |      | 39     |
| BB NYMEX BRENT FINANCIAL FUTURES        |  |  |      |      | 3292   |   |      |      | 6327   |
| SSW SYNTHETIC SWEET OIL MONTHLY FUT     |  |  |      |      |        |   |      |      | 75     |
| CS WEST TEXAS INTER CRUDE OIL CAL       |  |  | 5904 | 5904 | 169960 | + | 4764 | 1596 | 137730 |
| WCW WESTERN CANADIAN SELECT OIL MONTHLY |  |  | 100  | 100  | 12666  | + | 45   | 180  | 17916  |
| 42 WTI BALMO                            |  |  | 58   | 58   | 214    | + | 58   |      |        |
| WS WTI FINANCIAL FUTURES                |  |  |      |      | 572    |   |      |      | 3826   |
| HTT WTI HOUSTON ARGUS V.WTI TRADE MONTH |  |  | 1425 | 1425 | 139797 | - | 5    | 1260 | 46702  |
| WTT WTI MIDLAND (ARG) VS. WTI TRADE MTH |  |  | 480  | 480  | 161836 | + | 60   | 2040 | 40013  |
| FF WTI MIDLAND(ARGUS) VS WTI FINCL FUT  |  |  | 960  | 960  | 58530  | + | 720  | 735  | 45059  |
| BY WTI-BRENT BULLET                     |  |  |      |      | 6704   |   |      |      | 1404   |
| BK WTI-BRENT CALENDAR                   |  |  | 930  | 930  | 129872 | - | 567  | 400  | 53952  |
| FH WTS (ARGUS) VS WTI TRD MTH           |  |  |      |      | 5258   |   |      |      | 5218   |

## NATURAL GAS ENERGY FUTURES

|                                         |      |  |      |       |         |   |      |      |         |
|-----------------------------------------|------|--|------|-------|---------|---|------|------|---------|
| N7 ALGON CITY GATES NAT GAS INDEX       |      |  |      |       |         |   |      |      | 248     |
| B4 ALGONQUIN CITYGATES BASIS            |      |  |      |       |         |   |      |      | 516     |
| NE ANR OKLAHOMA                         |      |  |      |       | 363     |   |      |      | 1764    |
| PW CENTERPOINT BASIS                    |      |  |      |       | 3303    |   |      |      | 11017   |
| CI CIG BASIS                            |      |  | 25   | 25    | 9163    | + | 25   |      | 26739   |
| XIC CIG ROCKIES NAT GAS (PLATTS) FUT    |      |  |      |       | 670     |   |      |      | 20      |
| 5Z COLUMB GULF MAINLINE NG BASIS        |      |  |      |       |         |   |      |      | 6813    |
| GL COLUMBIA GULF ONSHORE BASIS          |      |  |      |       |         |   |      |      | 2867    |
| IH DOMINION TRAN INC - APP INDEX        |      |  |      |       | 736     |   |      |      | 2920    |
| PG DOMINION TRANSMISSION INC -APPALAC   |      |  |      |       | 14609   |   |      |      | 36182   |
| TTF DUTCH TTF NATURAL GAS CAL MONTH FUT |      |  |      |       | 148     |   |      |      |         |
| TTE DUTCH TTF NATURAL GAS FRONT MTH FUT |      |  |      |       | 6       |   |      | 5    | 47      |
| NN HENRY HUB                            |      |  | 8213 | 8213  | 1078982 | - | 66   | 7857 | 1224935 |
| HB HENRY HUB BASIS                      |      |  |      |       | 306     |   |      |      | 7869    |
| IN HENRY HUB INDEX FUTURE               |      |  |      |       | 8246    |   |      |      | 4030    |
| HH HENRY HUB NG LAST DAY FINANCIAL      | 9395 |  | 7000 | 16395 | 480049  | - | 1778 | 5829 | 402750  |
| NPG HENRY HUB PENULTIMATE FUT           |      |  | 258  | 258   | 157028  | + | 60   | 6697 | 209456  |
| NHN HOUSTON SHIP CHANNEL BASIS          |      |  |      |       | 12239   |   |      |      | 20145   |
| JKM LNG JAPAN KOREA MARKER PLATTS       |      |  | 60   | 60    | 3685    | + | 30   |      | 540     |
| NF MICHIGAN BASIS                       |      |  |      |       | 2693    |   |      |      | 6211    |
| NL NGPL MID-CONTINENT                   |      |  |      |       | 15189   |   |      | 30   | 25592   |
| PD NGPL TEX /OK                         |      |  |      |       | 29860   |   |      |      | 24420   |
| PE NORTHERN NATURAL GAS DEMARCATION     |      |  |      |       | 444     |   |      |      | 2262    |
| PF NORTHERN NATURAL GAS VENTURA IOWA    |      |  |      |       | 1384    |   |      |      | 1824    |
| XR NORTHERN ROCKIES PIPE                |      |  |      |       | 59      |   |      |      | 242     |
| NR NORTHWEST ROCKIES BASIS FUTURE       |      |  |      |       | 20056   |   |      |      | 44307   |
| HP NYMEX NATURAL GAS FUTURES            | 448  |  | 2241 | 2689  | 88587   | + | 1080 | 4194 | 119057  |
| 8X ONEOK OKLAHOMA NG BASIS              |      |  |      |       | 122     |   |      |      | 791     |
| PH PANHANDLE BASIS FUTURE               |      |  |      |       | 6182    |   |      |      | 18625   |
| XH PANHANDLE PIPE                       |      |  |      |       | 394     |   |      | 2364 | 2940    |
| PM PERMIAN BASIS                        |      |  |      |       | 5300    |   |      |      | 10526   |
| NJ SAN JUAN BASIS                       |      |  |      |       | 9542    |   |      |      | 21864   |

VOLUME AND OPEN INTEREST "RECORDS" SHOWN FOR CBOT PRODUCTS, ARE COMPRISED OF VOLUME AND OPEN INTEREST DATA AFTER THE CBOT/CME MERGER ON JULY 13, 2007. VOLUME AND OPEN INTEREST "RECORDS" SHOWN FOR NYMEX AND COMEX PRODUCTS, ARE COMPRISED OF VOLUME AND OPEN INTEREST DATA AFTER JUNE 1, 2008. VOLUME OR OPEN INTEREST (BOTH BEFORE AND AFTER THE LAST DAY OF TRADING) MAY BE AFFECTED BY: CASH FOR FUTURES, SPREADS, PRIOR DAYS' CLEARED TRADES (OUT-TRADES), POSITION ADJUSTMENTS, OPTIONS EXERCISES, POSITIONS IN DELIVERY, OR POSITIONS IN A CASH SETT CYCLE; GLOBEX VOLUME INCLUDES SIDE-BY-SIDE ACTIVITY. R=RECORD VOLUME OR OPEN INTEREST. THE INFORMATION CONTAINED IN THE REPORT IS COMPILED FOR THE CONVENIENCE OF THE USER AND IS FURNISHED WITHOUT RESPONSIBILITY FOR ACCURACY OR CONTENT. IT IS ACCEPTED BY THE USER ON THE CONDITION THAT ERRORS OR OMISSIONS SHALL NOT BE MADE THE BASIS FOR ANY CLAIM, DEMAND, OR CAUSE FOR ACTION.



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|                                      | -----<br>GLOBEX®<br>VOLUME | OPEN OUTCRY<br>VOLUME | PNT<br>VOLUME | -----<br>VOLUME | OVERALL<br>VOLUME | COMBINED<br>OPEN | TOTAL<br>INTEREST & CHGE | ----- | -52 WEEKS (364 DAYS) AGO-<br>OVERALL COMBINED TOTAL<br>VOLUME | OPEN INTEREST |
|--------------------------------------|----------------------------|-----------------------|---------------|-----------------|-------------------|------------------|--------------------------|-------|---------------------------------------------------------------|---------------|
| XX SAN JUAN PIPE                     |                            |                       |               |                 |                   |                  | 360                      |       |                                                               |               |
| SZ SONAT BASIS FUTURE                |                            |                       |               |                 |                   |                  |                          |       |                                                               | 122           |
| 8Z SOUTH STAR TEX OKLHM KNS NG B     |                            |                       |               |                 |                   |                  | 20                       |       |                                                               | 152           |
| NK SUMAS BASIS                       |                            |                       |               |                 |                   |                  | 3187                     |       |                                                               | 6973          |
| DVS SUMAS NAT GAS PLATTS FIXED PRICE |                            |                       |               |                 |                   |                  |                          |       |                                                               | 122           |
| TC TCO BASIS                         |                            |                       |               |                 |                   |                  | 4869                     |       |                                                               | 15455         |
| NQ TENNESSEE ZONE 0 BASIS            |                            |                       |               |                 |                   |                  |                          |       |                                                               | 604           |
| IX TETCO M-3 INDEX                   |                            |                       |               |                 |                   |                  |                          |       |                                                               | 868           |
| TX TETCO STX BASIS                   |                            |                       |               |                 |                   |                  | 122                      |       |                                                               | 913           |
| NX TEXAS EASTERN ZONE M-3 BASIS      |                            |                       |               |                 |                   |                  | 2913                     |       |                                                               | 7683          |
| 9F TEXAS GAS ZONE1 NG BASIS          |                            |                       |               |                 |                   |                  | 960                      |       |                                                               | 7124          |
| CZ TRANSCO ZONE 3 BASIS              |                            |                       |               |                 |                   |                  | 549                      |       |                                                               | 4258          |
| Y6 TRANSCO ZONE 3 NG INDEX           |                            |                       |               |                 |                   |                  |                          |       |                                                               | 1054          |
| NZ TRANSCO ZONE 6 BASIS              |                            |                       |               |                 |                   |                  | 302                      |       |                                                               | 2681          |
| TZI TRANSCO ZONE 6 GAS INDEX         |                            |                       |               |                 |                   |                  |                          |       |                                                               | 124           |
| IT TRANSCO ZONE 6 INDEX              |                            |                       |               |                 |                   |                  |                          |       |                                                               | 248           |
| TZ6 TRANSCO ZONE 6 NON NY BASIS      |                            |                       |               |                 |                   |                  | 3043                     |       |                                                               | 6413          |
| TR TRANSCO ZONE4 BASIS               |                            |                       |               |                 |                   |                  | 3843                     |       |                                                               | 11119         |
| UKG UK NBP NAT GAS CAL MTH FUT       |                            |                       |               |                 |                   |                  | 158                      |       |                                                               |               |
| NBP UK NBP NATURAL GAS FRONT MTH FUT |                            |                       |               |                 |                   |                  |                          |       | 70                                                            | 9             |
| NW WAHA BASIS                        |                            |                       |               |                 |                   |                  | 3095                     |       |                                                               | 7957          |

PETROLEUM ENERGY FUTURES

|                                         |  |  |      |      |  |  |       |   |     |       |
|-----------------------------------------|--|--|------|------|--|--|-------|---|-----|-------|
| 1W 1% FUEL OIL (PLT) CARG CIF MED       |  |  |      |      |  |  | 42    |   |     | 9     |
| 1X 1% FUEL OIL (PLT) CARG CIF NWE       |  |  |      |      |  |  | 75    |   |     |       |
| 33 1% FUEL OIL RDM VS 1% OIL NWE PLTS   |  |  |      |      |  |  |       |   |     | 36    |
| FVB 1.0% FUEL OIL (PLATTS) FOB NWE      |  |  |      |      |  |  | 30    |   |     |       |
| BOB 3.5% FUEL OIL (PLATTS) FOB RDA      |  |  | 20   | 20   |  |  | 3877  | - | 12  | 98    |
| 7D 3.5% FUEL OIL CID MED                |  |  |      |      |  |  | 108   |   |     | 258   |
| 63 3.5% FUEL OIL RDAM VS FOB MED BALM   |  |  |      |      |  |  | 5     |   |     |       |
| FCB 3.5% FUELOIL FOB RDAM CRK SPD BALMO |  |  |      |      |  |  | 64    |   |     | 223   |
| EOB ARGUS GASOLINE NWE CRACK SPR        |  |  |      |      |  |  | 61    |   |     | 24    |
| 5C CHICAGO ULSD PL VS HO SPR            |  |  |      |      |  |  | 1290  |   |     | 846   |
| 3C CHICAGO UNL GAS PL VS RBOB SPR       |  |  |      |      |  |  | 100   |   |     | 9     |
| NCP DALY EUROP NAPHTHA PLTS CIF NWE FUT |  |  |      |      |  |  |       |   |     | 45    |
| EWN E/W NAPHTHA JAPAN CF-CARGOS CIF NWE |  |  | 46   | 46   |  |  | 1195  | - | 31  | 20    |
| EW EAST/WEST FUEL OIL SPREAD            |  |  |      |      |  |  | 42    |   |     | 165   |
| EWG EAST-WST GASOLINE SPREAD PLATTS/ARG |  |  | 300  | 300  |  |  | 8118  |   |     | 3155  |
| A5 EIA FLAT TAX ONHWAY DIESEL           |  |  |      |      |  |  | 1829  |   |     | 3275  |
| JE EIA FLAT TAX US RETAIL GASOLINE      |  |  |      |      |  |  | 99    |   |     | 390   |
| EFM EUR 1%FUEL OIL CARGO FOB MED PLATTS |  |  |      |      |  |  |       |   |     | 30    |
| ENS EUR1%FUEL OIL FOB MED-EUR1% FOB NWE |  |  |      |      |  |  | 90    |   |     | 60    |
| KR EURO 3.5% FUEL OIL RDAM BALMO        |  |  |      |      |  |  | 82    |   | 35  | 242   |
| FK EURO 3.5% FUEL OIL SPREAD            |  |  |      |      |  |  | 86    |   |     | 562   |
| ET EURO DIESEL 10PPM VS ICE             |  |  |      |      |  |  | 126   |   |     | 342   |
| EPN EURO PPNE CIFARG VS NAPHTHA NWE SW  |  |  | 106  | 106  |  |  | 1679  | + | 32  | 18    |
| 43 EUROP NAPHTHA PLATTS CRCK SPR BALMO  |  |  |      |      |  |  | 45    |   |     | 936   |
| UF EUROPE 1% FUEL OIL NWE CAL           |  |  |      |      |  |  | 117   |   |     | 401   |
| UH EUROPE 1% FUEL OIL RDAM CAL          |  |  |      |      |  |  | 3     |   |     | 22    |
| UI EUROPE 3.5% FUEL OIL MED CAL         |  |  |      |      |  |  | 120   |   |     | 288   |
| UV EUROPE 3.5% FUEL OIL RDAM CAL        |  |  | 31   | 31   |  |  | 9743  | + | 11  | 196   |
| UJ EUROPE JET KERO NWE CAL              |  |  |      |      |  |  | 33    |   |     | 54    |
| UN EUROPE NAPHTHA CAL                   |  |  | 260  | 260  |  |  | 2989  | + | 83  | 5     |
| KZ EUROPEAN NAPHTHA BALMO               |  |  | 45   | 45   |  |  | 390   | + | 45  | 142   |
| EN EUROPEAN NAPHTHA CRACK SPREAD        |  |  | 304  | 304  |  |  | 15683 | + | 183 | 65    |
| FS FUEL OIL CARGOES VS.BARGES           |  |  |      |      |  |  | 718   |   |     | 912   |
| FO FUEL OIL CRACK VS ICE                |  |  |      |      |  |  | 10478 |   |     | 62    |
| FI FUEL OIL NWE CRACK VS ICE            |  |  |      |      |  |  | 171   |   |     | 15031 |
| GCI G. COAST #6 FUEL OIL 3.0% VS BRENT  |  |  | 130  | 130  |  |  | 2300  | + | 93  |       |
| 7R GAS EUROBOB (ARGUS) BALMO            |  |  |      |      |  |  | 87    |   |     | 3079  |
| 7I GAS EUROBOB (ARGUS) CRK BALMO        |  |  |      |      |  |  | 239   |   |     | 116   |
| GES GAS EUROBOB NON-OXY VS OXY NWE FUT  |  |  |      |      |  |  | 5     |   |     | 92    |
| 7K GAS EURO-BOB OXY (ARG) CRACK         |  |  | 928  | 928  |  |  | 30637 | - | 165 | 1053  |
| 7H GAS EURO-BOB OXY (ARG) NEW BRG       |  |  | 184  | 184  |  |  | 5940  | - | 26  | 189   |
| GOC GASOIL (ICE) CRACK SPREAD           |  |  |      |      |  |  | 24    |   |     | 54    |
| WQ GASOIL 0.1 RDAM BRGS VS ICE          |  |  |      |      |  |  | 39    |   |     | 144   |
| VL GASOIL 0.1 ROTTERDAM BARGES SW       |  |  | 5    | 5    |  |  | 95    | + | 5   | 20    |
| Z5 GASOIL 0.1CIF MED VS ICE GAS         |  |  |      |      |  |  |       |   |     | 15    |
| TP GASOIL 10PPM VS ICE                  |  |  |      |      |  |  | 144   |   |     | 747   |
| BG GASOIL BULLET                        |  |  |      |      |  |  |       |   |     | 130   |
| GX GASOIL CALENDAR                      |  |  |      |      |  |  | 12    |   |     | 25    |
| GZ GASOIL CRACK SPREAD CALENDAR         |  |  |      |      |  |  | 18257 |   |     | 20895 |
| QA GASOIL MINI CALENDAR                 |  |  |      |      |  |  | 746   |   |     | 433   |
| A7 GROUP THREE ULSD (PLATTS)            |  |  |      |      |  |  | 58    |   |     | 75    |
| A9 GROUP THREE UNLEAD GAS (PLTS)        |  |  |      |      |  |  | 225   |   |     |       |
| A6 GRP THREE ULSD(PLT)VS HEAT OIL       |  |  |      |      |  |  | 6531  |   |     | 13048 |
| A8 GRP THREE UNL GS (PLT) VS RBOB       |  |  |      |      |  |  | 4453  |   |     | 3615  |
| CRB GULF CBOB A2 PL VS RBOB SPR F       |  |  |      |      |  |  | 6320  |   | 60  | 859   |
| GCU GULF CO NO6 FUELOIL 3% V. EURO 3.5% |  |  |      |      |  |  | 21300 |   |     | 14681 |
| VZ GULF COAST 3% FUEL OIL BALMO         |  |  |      |      |  |  | 1062  |   |     | 519   |
| MF GULF COAST HSFO (PLATTS) FUTURES     |  |  | 7674 | 7674 |  |  | 35978 | + | 261 | 756   |
| GE GULF COAST JET FUEL CLNDR            |  |  |      |      |  |  | 819   |   |     | 804   |
| ME GULF COAST JET VS NYM 2 HO SPRD      |  |  | 2538 | 2538 |  |  | 33058 | + | 533 | 450   |
| MG GULF COAST NO.6 FUEL OIL CRACK       |  |  |      |      |  |  | 4883  |   |     | 75    |
| LY GULF COAST ULSD CALENDAR             |  |  |      |      |  |  | 1781  |   |     | 2359  |
| GY GULF COAST ULSD CRACK SPREAD         |  |  |      |      |  |  | 495   |   |     | 1080  |
| GBB GULF CST UNL 87 GAS M2 V. RBOB BLMO |  |  |      |      |  |  | 825   |   |     | 2505  |
| GCM GULF UNL87 GAS M2 PLATTS F          |  |  |      |      |  |  | 21    |   |     | 17    |
| GCC GULF UNL87 M2 PL CRACK SPRD F       |  |  |      |      |  |  | 315   |   |     | 275   |
| RVG GULF UNL87 M2 PL VS RBOB SPR F      |  |  | 675  | 675  |  |  | 15638 | + | 250 | 12978 |
| HOB HEATING OIL VS. BRENT CRACK SPREAD  |  |  |      |      |  |  | 4901  |   |     | 14940 |
| JA JAPAN C&F NAPHTHA                    |  |  | 167  | 167  |  |  | 2590  | + | 55  | 48    |
| JB JAPAN C&F NAPHTHA CRACK SPREAD       |  |  | 40   | 40   |  |  | 195   | + | 20  | 1414  |
| JNC JAPAN C&F NAPHTHA DUBAI (PLATTS) CR |  |  |      |      |  |  |       |   |     | 1233  |
| E6 JAPAN NAPHTHA BALMO                  |  |  | 5    | 5    |  |  | 82    | + | 5   | 150   |

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FINAL

PG02C BULLETIN #198@

EXCHANGE SUMMARY VOLUME AND OPEN INTEREST ENERGY FUTURES

Fri, Oct 12, 2018 PG02C

|                                          | -----               | -----       | -----  | -----  | -----   | -----    | -----           | -----  | -----                     |
|------------------------------------------|---------------------|-------------|--------|--------|---------|----------|-----------------|--------|---------------------------|
|                                          | GLOBAL <sup>®</sup> | OPEN OUTCRY | PNT    |        | OVERALL | COMBINED | TOTAL           |        | -52 WEEKS (364 DAYS) AGO- |
|                                          | VOLUME              | VOLUME      | VOLUME | VOLUME | VOLUME  | OPEN     | INTEREST & CHGE | VOLUME | OVERALL COMBINED TOTAL    |
|                                          |                     |             |        |        |         |          |                 |        | OPEN INTEREST             |
| 1T JET AVIA FUEL(PLTT) CRGS FOB M        |                     |             |        |        |         |          | 33              |        | 54                        |
| 1V JET AVIA FUEL(PLTT) FOB V. ICE        |                     |             |        |        |         |          | 6               |        | 39                        |
| JC JET CIF NWE VS ICE                    |                     |             |        |        |         |          | 378             |        | 476                       |
| 1M JET FUEL UP-DOWN BALMO CLNDR S        |                     |             | 500    | 500    |         | 4685     | +               | 500    | 6340                      |
| KL LA CARB DIESEL (OPIS)                 |                     |             |        |        |         | 335      |                 |        | 350                       |
| JL LA CARBOB GASOLINE(OPIS)              |                     |             |        |        |         | 250      |                 |        | 450                       |
| JS LA JET (OPIS)                         |                     |             |        |        |         | 1198     |                 |        | 2020                      |
| MEF MICRO EUROPEAN 3.5% FUEL OIL BARGES  |                     |             |        |        |         | 576      |                 |        |                           |
| MAF MICRO SINGAPORE FUEL OIL 380CST (PL  |                     |             | 39     | 39     |         | 571      | +               | 39     |                           |
| MAS MIN ARGUS PROPANE SAUDI ARAMCO       |                     |             | 10     | 10     |         | 339      |                 |        | 50                        |
| MNC MIN EURO NPHTHA CIF NWE              |                     |             | 213    | 213    |         | 4546     | +               | 76     | 3309                      |
| MGF MIN GSL .1 PLTS CRGS CIFNWE VS GSL   |                     |             |        |        |         |          |                 | 75     | 40                        |
| MJN MIN JAPAN C&F NAPHTHA PLATTS         |                     |             | 83     | 83     |         | 1674     | +               | 64     | 1376                      |
| MJC MIN JETKERO CRGOS CIF NWE VS GASOIL  |                     |             |        |        |         | 320      |                 | 10     | 660                       |
| MTB MIN SPORE FUELOIL380CST(PLTS) BALMO  |                     |             | 5      | 5      |         | 5        | +               | 5      | 112                       |
| UCM MIN ULSD 10PPM CRGOS CIF MED VS GSL  |                     |             |        |        |         |          |                 |        | 69                        |
| MGN MIN ULSD 10PPM CRGS CIF NWE VS GSL   |                     |             |        |        |         | 296      |                 |        | 289                       |
| MMF MINI 3.5% FUEL OIL CAR MED           |                     |             | 10     | 10     |         | 105      |                 |        | 113                       |
| MAE MINI ARGUS PROPANE FAR EAST IDX      |                     |             | 20     | 20     |         | 368      | +               | 20     | 160                       |
| T0 MINI EU 1%FO BARGE FOB RDAM FUT       |                     |             |        |        |         | 63       |                 | 10     | 303                       |
| 0C MINI EU 1%FO CARGO FOB NWE BALMO F    |                     |             |        |        |         |          |                 |        | 20                        |
| 0B MINI EU 1%FO CARGO FOB NWE FUT        |                     |             |        |        |         |          |                 |        | 10                        |
| 0E MINI EU 3.5%FO BARGE FOB RDAM BALMO   |                     |             |        |        |         |          |                 | 30     | 50                        |
| 0D MINI EU 3.5%FO BARGE FOB RDAM FUT     |                     |             | 28     | 28     |         | 3744     | +               | 8      | 4837                      |
| MUD MINI EUR DIESEL10PPM VS ICE GS       |                     |             |        |        |         | 89       | -               | 20     | 290                       |
| MEN MINI EURO NAPHTHA BALMO              |                     |             | 10     | 10     |         | 242      | +               | 10     | 217                       |
| MEO MINI GAS EUROBOB OXY BARGES          |                     |             | 75     | 75     |         | 2831     | -               | 5      | 5384                      |
| MEB MINI GAS EUROBOB OXY NWE ARGS BALMO  |                     |             | 9      | 9      |         | 190      | +               | 9      | 170                       |
| MGB MINI GSOIL .1 PLTTS VS ICE GSOIL SW  |                     |             |        |        |         | 30       |                 |        |                           |
| E6M MINI JAPAN NAPHTHA BALMO FUT         |                     |             |        |        |         | 50       |                 |        |                           |
| MXB MINI RBOB V. EBOB(ARGUS) NWE BRGS    |                     |             | 50     | 50     |         | 2272     | +               | 21     | 1184                      |
| MXR MINI RBOB V. EBOBARG NWE BRGS BALMO  |                     |             |        |        |         |          |                 |        | 425                       |
| MTS MINI SINGAPORE 380CST FUEL OIL       |                     |             | 252    | 252    |         | 6155     | +               | 146    | 7507                      |
| 5L MINI SINGAPORE FO 180 CST BALMO FUT   |                     |             |        |        |         |          |                 | 81     | 120                       |
| 0F MINI SINGAPORE FO 180 CST FUT         |                     |             |        |        |         | 536      |                 | 30     | 770                       |
| MSG MINI SINGAPORE GASOIL PLATS FUT      |                     |             | 50     | 50     |         | 343      | -               | 50     | 271                       |
| 1N MOGAS92 UNLEADED (PLATTS)             |                     |             | 385    | 385    |         | 13767    | -               | 285    | 9341                      |
| 1P MOGAS92 UNLEADED (PLTS) BLM SW        |                     |             |        |        |         | 375      |                 | 350    | 266                       |
| 51 MT BELV LDH PROPN VS EUR CIF ARA SW   |                     |             |        |        |         | 3        |                 |        |                           |
| MBL MT BELVIEU LDH ISO-BUTANE(OPIS)      |                     |             |        |        |         | 30       |                 |        | 130                       |
| NOB NAPHTHA (PLATTS) NWE CRACK           |                     |             | 92     | 92     |         | 2256     | -               | 9      | 1963                      |
| NBB NAPHTHA (PLATTS) NWE CRACK BALMO SW  |                     |             |        |        |         | 20       |                 | 10     |                           |
| NYF NEW YORK FUEL OIL 1% V. EURO 1% FO   |                     |             |        |        |         |          |                 |        | 375                       |
| UT NO 2 UP-DOWN SPREAD CALENDAR          |                     |             |        |        |         | 350      |                 |        | 26                        |
| 88 NWE EUR FUEL OIL HGHLOW SULF BALMO    |                     |             |        |        |         |          |                 |        | 25                        |
| FOC NY 3% FUEL OIL V GULF COAST NO6 3%   |                     |             |        |        |         | 1200     |                 |        | 1130                      |
| H1 NY 3.0% FUEL OIL (PLATTS)             |                     |             |        |        |         | 295      |                 |        | 75                        |
| JTB NY BUCKEYE JET FUEL V. NY HR BALMO   |                     |             |        |        |         | 1790     |                 |        | 1153                      |
| JET NY BUCKEYE JET FUEL VS NY HARB ULSD  |                     |             | 50     | 50     |         | 4275     | +               | 50     | 2078                      |
| NLS NY HARBOR LOW SULPUR GAS 1000MBBL    |                     |             |        |        |         | 330      |                 | 100    | 810                       |
| MM NY HARBOR RESIDUAL FUEL 1.0% S        |                     |             |        |        |         | 1513     |                 | 25     | 3229                      |
| 7Y NY ULSD(ARGUS) VS HO SPREAD           |                     |             |        |        |         | 178      |                 |        | 759                       |
| VR NY1% VS GC SPREAD                     |                     |             |        |        |         | 1990     |                 | 100    | 3417                      |
| HK NYH NO 2 CRACK SPREAD CAL             |                     |             |        |        |         | 3672     |                 |        | 7375                      |
| BH NYMEX HEATING OIL FUTURES             |                     |             |        |        |         | 194      |                 |        | 426                       |
| MP NYMEX NY HARBOR HEAT OIL CLNDR        |                     |             | 9      | 9      |         | 5965     |                 |        | 8111                      |
| RT NYMEX RBOB GASOLINE FUTURES           |                     |             |        |        |         | 110      |                 | 600    | 2728                      |
| SF3 NYM-SINGAPORE FUEL OIL 380CST CRK S  |                     |             |        |        |         | 45       |                 |        | 9                         |
| 7L PREM UNL GAS 10 PPM (PLTS) RDM        |                     |             |        |        |         | 201      |                 |        |                           |
| 3G PREMIUM UNLD 10P FOB MED              |                     |             |        |        |         | 397      |                 |        | 63                        |
| RL RBOB CALENDAR FUTURE                  |                     |             | 573    | 573    |         | 15626    | +               | 573    | 12959                     |
| RM RBOB CRACK SPREAD                     |                     |             |        |        |         | 4895     |                 | 169    | 5022                      |
| EXR RBOB GAS VS EUROBOB(ARGUS) NWE BRGS  |                     |             | 184    | 184    |         | 3592     | +               | 11     | 2151                      |
| RBB RBOB GAS VS. BRENT CRCK SPRD         |                     |             | 60     | 60     |         | 12736    | -               | 60     | 12368                     |
| 1D RBOB GASOLINE BALMO CLNDR             |                     |             |        |        |         | 481      |                 | 550    | 307                       |
| RI RBOB SPREAD (PLATTS)                  |                     |             |        |        |         |          |                 |        | 7                         |
| RH RBOB VS HEATING OIL                   |                     |             |        |        |         | 165      |                 |        | 2527                      |
| MSD SG VISCOSITY SPREAD BALMO            |                     |             |        |        |         | 5        |                 |        |                           |
| EVC SING 380 FUEL OIL VS FUEL OIL ROTDM  |                     |             | 10     | 10     |         | 4530     | +               | 8      | 5538                      |
| BS SINGAPORE 180CST BALMO                |                     |             |        |        |         | 20       |                 | 13     | 38                        |
| BT SINGAPORE 380CST BALMO                |                     |             | 11     | 11     |         | 246      | +               | 11     | 107                       |
| SE SINGAPORE 380CST FUEL OIL             |                     |             | 137    | 137    |         | 9399     | +               | 82     | 10127                     |
| UA SINGAPORE FUEL 180CST CAL             |                     |             | 30     | 30     |         | 537      | +               | 5      | 1183                      |
| SD SINGAPORE FUEL OIL SPREAD             |                     |             | 5      | 5      |         | 739      | +               | 5      | 1262                      |
| SG SINGAPORE GASOIL                      |                     |             |        |        |         | 7075     |                 |        | 12694                     |
| VU SINGAPORE GASOIL BALMO                |                     |             |        |        |         |          |                 |        | 150                       |
| GA SINGAPORE GASOIL VS ICE               |                     |             |        |        |         | 37946    |                 |        | 6815                      |
| RK SINGAPORE JET KERO GASOIL             |                     |             |        |        |         | 9685     |                 | 50     | 2615                      |
| KS SINGAPORE JET KEROSENE                |                     |             |        |        |         | 4025     |                 |        | 2621                      |
| V0 SINGAPORE MOGAS 95                    |                     |             |        |        |         | 240      |                 |        | 75                        |
| X0 SINGAPORE MOGAS 97                    |                     |             |        |        |         | 116      |                 |        |                           |
| SMU SINGAPORE MOGAS95-SINGAPORE MOGAS92  |                     |             |        |        |         | 264      |                 |        |                           |
| STZ SINGAPORE GASOIL 10PPM V GSOLSPD FUT |                     |             |        |        |         | 450      |                 |        | 150                       |
| STS SPORE FUEL OIL 180CST 6.35 DUBAI CK  |                     |             |        |        |         | 501      |                 |        | 435                       |
| STI SPORE FUEL OIL 380CST 6.35 DUBAI CK  |                     |             |        |        |         |          |                 |        | 20                        |
| 1NB SPORE MOGAS92 UNLD BRENT SPRD        |                     |             |        |        |         | 2374     |                 | 300    | 2313                      |
| 1ND SPORE MOGAS92 UNLD DUBAI SPRD        |                     |             |        |        |         |          |                 |        | 225                       |
| Z7 ULSD 10PPM CIF MED VS ICE GAS         |                     |             |        |        |         |          |                 |        | 51                        |
| 1L ULSD UP-DOWN BALMO                    |                     |             | 100    | 100    |         | 3950     | +               | 100    | 6825                      |
| LT UP DOWN GC ULSD VS NMX HO SPRD        |                     |             | 1850   | 1850   |         | 41169    | +               | 918    | 48877                     |

NGL PETROCHEM ENERGY FUTURES

|                                   |  |  |     |     |  |      |   |    |    |      |
|-----------------------------------|--|--|-----|-----|--|------|---|----|----|------|
| 91 ARGUS FAR E NDX VS EUR CIF ARA |  |  | 35  | 35  |  | 967  | + | 9  | 14 | 444  |
| 7E ARGUS PROPAN FAR EST INDEX     |  |  | 282 | 282 |  | 4892 | + | 4  | 29 | 2625 |
| 9N ARGUS PROPAN(SAUDI ARAMCO)     |  |  | 105 | 105 |  | 2107 | - | 13 | 10 | 779  |

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PG02C BULLETIN #198@

EXCHANGE SUMMARY VOLUME AND OPEN INTEREST ENERGY FUTURES

Fri, Oct 12, 2018 PG02C

|                                         | LOBEX®<br>VOLUME | OPEN OUTCRY<br>VOLUME | PNT<br>VOLUME | -----<br>VOLUME | OVERALL<br>COMBINED TOTAL<br>OPEN INTEREST & CHGE | -----<br>VOLUME | -52 WEEKS (364 DAYS) AGO-<br>OVERALL COMBINED TOTAL<br>VOLUME | OPEN INTEREST |
|-----------------------------------------|------------------|-----------------------|---------------|-----------------|---------------------------------------------------|-----------------|---------------------------------------------------------------|---------------|
| 22 ARGUS PROPANE FAR E INDX BALMO       |                  |                       | 35            | 35              | 240 + 35                                          |                 | 2                                                             | 36            |
| 8L CONWAY NAT GASOLINE                  |                  |                       |               |                 | 649                                               |                 |                                                               | 1289          |
| 8M CONWAY NORMAL BUTANE                 |                  |                       |               |                 | 1479                                              |                 |                                                               | 3238          |
| CPB CONWAY PROPANE (OPIS) BALMO         |                  |                       | 15            | 15              | 175 + 15                                          |                 |                                                               | 197           |
| 8K CONWAY PROPANE 5 DEC.                |                  |                       | 1640          | 1640            | 23362 + 252                                       |                 | 160                                                           | 16891         |
| 32 EUR PROPANE CIF ARA ARGUS BALMO      |                  |                       | 7             | 7               | 86 + 7                                            |                 | 6                                                             | 92            |
| PS EURO PROPANE CIF ARA                 |                  |                       | 148           | 148             | 1726 + 73                                         |                 | 86                                                            | 1203          |
| MPS MINI EURO PROPANE CIF ARA ARGUS FUT |                  |                       |               |                 | 290                                               |                 |                                                               | 20            |
| 8C MT BELVIEU ETHANE BALMO              |                  |                       |               |                 | 100                                               |                 |                                                               | 93            |
| 80 MT BELVIEU LDH PROPANE BALMO         |                  |                       | 100           | 100             | 817 + 100                                         |                 |                                                               | 826           |
| R0 MT BELVIEU NAT GASOLINE BALMO        |                  |                       |               |                 | 175                                               |                 |                                                               | 330           |
| 8J MT BELVIEU NORMAL BUTANE BALM        |                  |                       | 125           | 125             | 1432 + 125                                        |                 |                                                               | 684           |
| C0 MT BELVIEU ETHANE 5-DCML (OPIS)      |                  |                       | 721           | 721             | 41530 + 15                                        |                 | 300                                                           | 70227         |
| MBB MT BELVIEU ETHYLENE (PCW) BALMO     |                  |                       |               |                 | 2865                                              |                 |                                                               | 50            |
| MBN MT BELVIEU ETHYLENE (PCW) FINCL     |                  |                       |               |                 | 1175 + 30                                         |                 |                                                               | 2499          |
| MBE MT BELVIEU ETHYLENE IN-WELL (PCW)   |                  |                       | 310           | 310             | 5345                                              |                 | 72                                                            | 950           |
| 8I MT BELVIEU ISO BUTANE 5 DEC. S       |                  |                       |               |                 | 18626 + 34                                        |                 | 295                                                           | 3865          |
| 7Q MT BELVIEU NAT GAS 5-DCML (OPIS)     |                  |                       | 109           | 109             | 3756 + 23                                         |                 |                                                               | 10221         |
| MNB MT BELVIEU NORMAL BUTANE LDH(OPIS)  |                  |                       | 30            | 30              | 50307 + 382                                       |                 | 1503                                                          | 3147          |
| D0 MT BELVIEU NRM BUTANE 5-DCML (OPIS)  |                  |                       | 4386          | 4386            | 118309 + 1703                                     |                 | 2936                                                          | 40957         |
| B0 MT BELVIEU PROPANE 5-DCML (OPIS)     |                  |                       | 5254          | 5254            | 55017 + 88                                        |                 | 180                                                           | 106644        |
| 1R PROPANE NON LDH MT BELVIEU           |                  |                       | 126           | 126             | 170                                               |                 |                                                               | 20027         |
| 1S PROPANE NON LDH MT BLV BALMO         |                  |                       |               |                 |                                                   |                 |                                                               | 63            |

ETHANOL ENERGY FUTURES

|                                         |     |  |      |      |             |  |      |       |
|-----------------------------------------|-----|--|------|------|-------------|--|------|-------|
| CU CHICAGO ETHANOL                      |     |  | 3938 | 3938 | 43947 + 156 |  | 3828 | 42037 |
| ACF ETHANOL FUTURES                     | 264 |  |      | 264  | 2219 - 23   |  | 285  | 1683  |
| Z1 ETHANOL(PL) T2 FOB RTRDM INCL        |     |  |      |      | 4341        |  | 90   | 5648  |
| MT2 METHANOL T2 FOB RDAM (ICIS) FUTURES |     |  |      |      | 120         |  |      |       |
| EZ NEW YORK ETHANOL                     |     |  |      |      | 1070        |  | 25   | 1100  |

ELECTRICITY ENERGY FUTURES

|                                         |  |  |     |     |             |  |     |        |
|-----------------------------------------|--|--|-----|-----|-------------|--|-----|--------|
| VD AEP-DAYTON HUB DAILY                 |  |  |     |     | 510 - 34    |  |     | 1148   |
| VP AEP-DAYTON HUB OFF-PEAK MONTHLY      |  |  |     |     |             |  |     | 200    |
| VM AER-DAYTON HUB MTHLY                 |  |  |     |     |             |  |     | 210    |
| K2 CIN HUB 5MW D AH O PK                |  |  |     |     | 28280       |  |     | 230056 |
| H5 CIN HUB 5MW D AH PK                  |  |  |     |     | 4348        |  |     | 11121  |
| H4 CIN HUB 5MW REAL TIME O PK           |  |  |     |     | 206264      |  |     | 522936 |
| H3 CIN HUB 5MW REAL TIME PK             |  |  |     |     | 21777       |  |     | 41211  |
| EJ CINERGY HUB OFF-PEAK MONTH           |  |  |     |     | 40          |  |     | 120    |
| EM CINERGY HUB PEAK MONTH               |  |  |     |     | 96          |  |     | 288    |
| I1 ERCOT HSTN Z MCPE 5 MW PEAK SW       |  |  |     |     |             |  |     | 3880   |
| I6 ERCOT NRTH Z MCPE 5 MW OFFPK S       |  |  |     |     |             |  |     | 61200  |
| I5 ERCOT NRTH Z MCPE 5 MW PEAK SW       |  |  |     |     |             |  |     | 3880   |
| DEB GERMAN POWER BASELOAD CAL MONTH FUT |  |  |     |     | 51          |  |     |        |
| IDO ISO NEW ENG MASS HUB DA OP DAILY    |  |  |     |     | 10752 - 256 |  |     | 11808  |
| KI ISO NEW ENGLAND OFF-PEAK LMP         |  |  |     |     |             |  |     | 56     |
| NI ISO NEW ENGLAND PEAK LMP             |  |  |     |     |             |  |     | 68     |
| HMW MIDWEST ISO MICHIGAN HUB 5MW PEAK C |  |  |     |     | 448         |  |     | 5250   |
| FAD MISO INDIANA HUB 5MW OFPK CALDAY DA |  |  |     |     | 12040 - 280 |  |     | 27552  |
| FTD MISO INDIANA HUB 5MW OFPK CALDAY RT |  |  |     |     | 24080 - 560 |  |     | 20832  |
| PDD MISO INDIANA HUB 5MW PK CAL DAYHD   |  |  |     |     | 1539 - 81   |  |     | 1440   |
| PTD MISO INDIANA HUB 5MW PK CAL-DAY RT  |  |  |     |     | 1660 - 83   |  |     | 988    |
| HMO MISO MICHIGAN HUB OF-PK DA MONTHLY  |  |  |     |     | 8288        |  |     | 86760  |
| UD N ILLINOIS HUB DAILY                 |  |  |     |     | 1335 - 89   |  |     | 1540   |
| UM N ILLINOIS HUB MTHLY                 |  |  |     |     |             |  |     | 60     |
| P3 NEPOOL CNCTCT 5MW D AH O PK          |  |  |     |     |             |  |     | 1201   |
| P2 NEPOOL CONECTIC 5MW D AH PK          |  |  |     |     |             |  |     | 63     |
| H2 NEPOOL INTR HUB 5MW D AH O PK        |  |  |     |     | 450880      |  |     | 545425 |
| U6 NEPOOL INTR HUB 5MW D AH PK          |  |  |     |     | 29481       |  |     | 38362  |
| P8 NEPOOL NE MASS 5MW D AH O PK         |  |  |     |     | 14040       |  |     | 14040  |
| P7 NEPOOL NE MASS 5MW D AH PK           |  |  |     |     | 765         |  |     | 765    |
| U4 NEPOOL RHD ISLD 5MW D AH PK          |  |  |     |     |             |  |     | 315    |
| U5 NEPOOL RHODE IL 5MW D AH O PK        |  |  |     |     |             |  |     | 6005   |
| L9 NEPOOL W CNT MASS 5MW D AH O PK      |  |  |     |     |             |  |     | 2402   |
| R6 NEPOOL W CNTR M 5MW D AH PK          |  |  |     |     |             |  |     | 126    |
| CE NEW ENGLAND HUB PEAK DAILY           |  |  |     |     | 1416 - 59   |  |     | 888    |
| GN NEW YORK HUB ZONE G PEAK DAILY       |  |  |     |     | 1728 - 72   |  |     | 746    |
| JN NEW YORK HUB ZONE J PEAK DAILY       |  |  |     |     | 490 - 30    |  |     | 503    |
| KJ NYISO J                              |  |  |     |     |             |  |     | 415    |
| KK NYISO J OFF-PEAK                     |  |  |     |     |             |  |     | 120    |
| LHV NYISO LOW HUD VAL CAP FUT           |  |  | 280 | 280 | 652 + 280   |  |     | 366    |
| NNC NYISO NYC IN-CITY CAPACITY CAL MO   |  |  |     |     | 462         |  |     | 976    |
| NRS NYISO REST OF STATE CAPACITY CAL MO |  |  |     |     | 502         |  | 240 | 1980   |
| K4 NYISO ZONE A 5MW D AH O PK           |  |  |     |     | 52568       |  |     | 99150  |
| K3 NYISO ZONE A 5MW D AH PK             |  |  |     |     | 5518        |  |     | 8470   |
| ZAO NYISO ZONE A DA OP DAILY            |  |  |     |     | 4704 - 112  |  |     | 9840   |
| AN NYISO ZONE A LBMP FUTURE             |  |  |     |     | 432 - 18    |  |     | 680    |
| 58 NYISO ZONE E 5MW DAY AHEAD OFF-PEAK  |  |  |     |     |             |  |     | 4804   |
| 55 NYISO ZONE E 5MW DAY AHEAD PEAK      |  |  |     |     |             |  |     | 252    |
| 4M NYISO ZONE F 5MW DAY AHEAD OFF-PEAK  |  |  |     |     | 17775       |  |     | 70200  |
| 4L NYISO ZONE F 5MW DAY AHEAD PEAK      |  |  |     |     | 960         |  |     | 3825   |
| D2 NYISO ZONE G 5MW D AH O PK           |  |  |     |     | 609348      |  |     | 567414 |
| T3 NYISO ZONE G 5MW D AH PK             |  |  |     |     | 24754       |  |     | 24438  |
| ZGO NYISO ZONE G DA OP DAILY            |  |  |     |     | 19152 - 456 |  |     | 6888   |
| D4 NYISO ZONE J 5MW D AH O PK           |  |  |     |     | 174641      |  |     | 275461 |
| D3 NYISO ZONE J 5MW D AH PK             |  |  |     |     | 12871       |  |     | 16652  |
| Z30 NYISO ZONE J DA OP DAILY            |  |  |     |     | 8400 - 200  |  |     | 1640   |
| OFD ONTARIO OFF-PK CALENDAR DAY FUT     |  |  |     |     |             |  |     | 3360   |
| OFM ONTARIO OFF-PK CAL-MO FUT           |  |  |     |     |             |  |     | 8090   |
| OPD ONTARIO PEAK CAL-DAY FUT            |  |  |     |     |             |  |     | 90     |
| OPM ONTARIO PEAK CAL-MONTH FUT          |  |  |     |     |             |  |     | 205    |
| V3 PJM AD HUB 5MW REAL TIME O PK        |  |  |     |     | 227517      |  |     | 408170 |

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EXCHANGE SUMMARY VOLUME AND OPEN INTEREST ENERGY OPTIONS  
ON FUTURES2018 DAILY INFORMATION BULLETIN - <http://www.cmegroup.com/dailybulletin>

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EXCHANGE SUMMARY VOLUME AND OPEN INTEREST ENERGY OPTIONS ON FUTURES

Fri, Oct 12, 2018 PG02C

|                                       | GLOBEX®<br>VOLUME | OPEN OUTCRY<br>VOLUME | PNT<br>VOLUME | -----<br>VOLUME | OVERALL<br>COMBINED TOTAL<br>OPEN INTEREST & CHGE | -----  | -52 WEEKS (364 DAYS) AGO-<br>OVERALL COMBINED TOTAL<br>VOLUME OPEN INTEREST |
|---------------------------------------|-------------------|-----------------------|---------------|-----------------|---------------------------------------------------|--------|-----------------------------------------------------------------------------|
| Z9 PJM AD HUB 5MW REAL TIME PK        |                   |                       |               |                 | 19893                                             |        | 24865                                                                       |
| PEO PJM AEP DAYTON HUB DA OP DAILY    |                   |                       |               |                 | 2688                                              | - 64   | 8200                                                                        |
| PAP PJM AEP DAYTON HUB DA PEAK DAILY  |                   |                       |               |                 | 450                                               | - 25   | 765                                                                         |
| AOR PJM AEP DAYTON HUB RT OP DAILY    |                   |                       |               |                 | 8600                                              | - 200  | 37296                                                                       |
| MOD PJM ASTI ZONE PEAK DA MO          |                   |                       |               |                 |                                                   |        | 43130                                                                       |
| MPD PJM ATSI ZONE MONTHLY DAILY       |                   |                       |               |                 |                                                   |        | 2330                                                                        |
| R3 PJM BGE DA OFF-PEAK                |                   |                       |               |                 | 2370                                              |        | 24920                                                                       |
| E3 PJM BGE DA PEAK                    |                   |                       |               |                 | 128                                               |        | 1360                                                                        |
| D9 PJM COMED 5MW D AH O PK            |                   |                       |               |                 | 5925                                              |        | 29405                                                                       |
| D8 PJM COMED 5MW D AH PK              |                   |                       |               |                 | 320                                               |        | 1590                                                                        |
| JD PJM DAILY                          |                   |                       |               |                 | 6165                                              | - 411  | 5572                                                                        |
| R7 PJM DAYTON DA OFF-PEAK             |                   |                       |               |                 | 76592                                             |        | 152628                                                                      |
| D7 PJM DAYTON DA PEAK                 |                   |                       |               |                 | 6145                                              |        | 11853                                                                       |
| 46 PJM METED ZONE OFFPK CAL LMP       |                   |                       |               |                 | 21074                                             |        | 34069                                                                       |
| 47 PJM METED ZONE PEAK CAL LMP        |                   |                       |               |                 | 1152                                              |        | 1849                                                                        |
| JM PJM MONTHLY                        |                   |                       |               |                 | 690                                               |        | 1940                                                                        |
| B6 PJM NI HUB 5MW REAL TIME O PK      |                   |                       |               |                 | 193281                                            |        | 853398                                                                      |
| B3 PJM NI HUB 5MW REAL TIME PK        |                   |                       |               |                 | 13579                                             |        | 35895                                                                       |
| L3 PJM NILL DA OFF-PEAK               |                   |                       |               |                 | 196334                                            |        | 785941                                                                      |
| N3 PJM NILL DA PEAK                   |                   |                       |               |                 | 12200                                             |        | 38750                                                                       |
| PNO PJM NORTERN ILL HUB DA OP DAILY   |                   |                       |               |                 | 15792                                             | - 376  | 98072                                                                       |
| PNP PJM NORTERN ILL HUB DA PEAK DAILY |                   |                       |               |                 | 990                                               | - 55   | 3757                                                                        |
| NOC PJM NORTERN ILL HUB RT OP DAILY   |                   |                       |               |                 | 44376                                             | - 1032 | 84672                                                                       |
| JP PJM OFF-PEAK LMP FUTURE            |                   |                       |               |                 | 160                                               |        | 664                                                                         |
| W6 PJM PSEG DA OFF-PEAK               |                   |                       |               |                 | 38880                                             |        | 85640                                                                       |
| L6 PJM PSEG DA PEAK                   |                   |                       |               |                 | 1275                                              |        | 3400                                                                        |
| PWO PJM WESTERN HUB DA OP DAILY FUT   |                   |                       |               |                 | 15792                                             | - 376  | 57400                                                                       |
| PWP PJM WESTERN HUB DA PEAK DAILY     |                   |                       |               |                 | 846                                               | - 47   | 3162                                                                        |
| WOR PJM WESTERN HUB RT OP DAILY       |                   |                       |               |                 | 58480                                             | - 1360 | 88704                                                                       |
| E4 PJM WESTH DA OFF-PEAK              |                   |                       |               |                 | 236147                                            |        | 537702                                                                      |
| N9 PJM WESTH RT OFF-PEAK              |                   |                       |               |                 | 1133342                                           |        | 2271054                                                                     |
| L1 PJM WESTH RT PEAK                  |                   |                       |               |                 | 67035                                             |        | 121718                                                                      |
| J4 PJM WESTHDA PEAK                   |                   |                       |               |                 | 12721                                             |        | 29986                                                                       |

## COAL ENERGY FUTURES

|                                         |  |  |     |     |       |       |            |
|-----------------------------------------|--|--|-----|-----|-------|-------|------------|
| ALW AUSTRALIAN COKING (PLATTS) LOW VOL  |  |  |     |     | 120   |       | 468        |
| ICI COAL (ICI4) INDONESIAN COAL INDEX   |  |  | 20  | 20  | 190   | + 15  |            |
| MTF COAL API2 CIF ARA ARG-MCCLOSKEY     |  |  | 921 | 921 | 31177 | - 142 | 1959 53373 |
| MFF COAL API4 RCH BAY ARGS MCCLOSKEY SW |  |  | 60  | 60  | 3916  | + 30  | 110 7320   |
| ACM COAL API5 FOB NEWCASTLE ARG/MC FUT  |  |  |     |     | 30    |       | 245        |
| QX EASTERN RAIL DELIVERY CSX COAL       |  |  |     |     | 60    |       | 365        |
| QP WESTERN RAIL DELIVERY PRB COAL       |  |  |     |     | 240   |       | 450        |

## FREIGHT ENERGY FUTURES

|                                         |  |  |  |  |      |  |     |
|-----------------------------------------|--|--|--|--|------|--|-----|
| FLP FREIGHT ROUTE LIQUID PETROLEUM GAS  |  |  |  |  | 843  |  | 724 |
| FRC FREIGHT ROUTE TC14 (BALTIC) FUTURES |  |  |  |  | 225  |  |     |
| T2D FREIGHT ROUTE TD20 (BALTIC) FUTURES |  |  |  |  | 1535 |  |     |
| TD3 FREIGHT ROUTE TD3C (PLATTS) FUTURES |  |  |  |  | 30   |  |     |
| TM TC2 ROTTERDAM TO USAC 37K MT         |  |  |  |  | 269  |  |     |
| TH TC5 RAS TANURA TO YOKOHAMA 55K MT    |  |  |  |  | 75   |  |     |
| TL TD3 MEG TO JAPAN 250K MT             |  |  |  |  | 5045 |  |     |

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Fri, Oct 12, 2018 PG02C

|                                            | -----               | -----       | -----  | -----  | -----   | -----                | -----  | -----                     | -----                  |
|--------------------------------------------|---------------------|-------------|--------|--------|---------|----------------------|--------|---------------------------|------------------------|
|                                            | GLOBAL <sup>®</sup> | OPEN OUTCRY | PNT    | -----  | OVERALL | COMBINED TOTAL       | -----  | -52 WEEKS (364 DAYS) AGO- | OVERALL COMBINED TOTAL |
|                                            | VOLUME              | VOLUME      | VOLUME | VOLUME | VOLUME  | OPEN INTEREST & CHGE | VOLUME | OVERALL                   | OPEN INTEREST          |
| GXZ 12 MO GASOIL CAL SPREAD OPT            | C                   |             |        |        |         |                      |        |                           | 430                    |
| GXZ 12 MO GASOIL CAL SPREAD OPT            | P                   |             |        |        |         |                      |        |                           | 200                    |
| TOTAL 12 MO GASOIL CAL SPREAD OPT          |                     |             |        |        |         |                      |        |                           | 630                    |
| BA BRENT AVERAGE PRICE OPTION              | C                   |             |        |        |         | 4308                 |        |                           | 5043                   |
| BA BRENT AVERAGE PRICE OPTION              | P                   |             |        |        |         | 4942                 |        |                           | 1275                   |
| TOTAL BRENT AVERAGE PRICE OPTION           |                     |             |        |        |         | 9250                 | +      | 3000                      | 6318                   |
| 9C BRENT CRUDE OIL 1 M CSO FIN             | C                   |             |        | 1500   | 1500    | 50502                | +      | 1500                      |                        |
| 9C BRENT CRUDE OIL 1 M CSO FIN             | P                   |             |        |        |         | 5950                 |        |                           |                        |
| TOTAL BRENT CRUDE OIL 1 M CSO FIN          |                     |             |        | 1500   | 1500    | 56452                | +      | 1500                      |                        |
| 9Y BRENT CRUDE OIL 12 M CSO FIN            | C                   |             |        |        |         |                      |        |                           | 2000                   |
| TOTAL BRENT CRUDE OIL 12 M CSO FIN         |                     |             |        |        |         |                      |        |                           | 2000                   |
| BZO BRENT CRUDE OIL FUT MARGIN OPT         | C                   | 2709        |        | 17700  | 20409   | 173070               | -      | 830                       | 316                    |
| BZO BRENT CRUDE OIL FUT MARGIN OPT         | P                   | 2901        |        | 4700   | 7601    | 130505               | -      | 456                       | 241                    |
| TOTAL BRENT CRUDE OIL FUT MARGIN OPT       |                     | 5610        |        | 22400  | 28010   | 303575               | -      | 1286                      | 557                    |
| OS BRENT CRUDE OIL OPTIONS                 | C                   |             |        |        |         | 174                  |        |                           | 11658                  |
| OS BRENT CRUDE OIL OPTIONS                 | P                   |             |        |        |         | 1048                 |        |                           | 4666                   |
| TOTAL BRENT CRUDE OIL OPTIONS              |                     |             |        |        |         | 1222                 |        |                           | 16324                  |
| BE BRENT EURO STYLE OPTION                 | C                   |             |        |        |         | 57108                |        |                           | 6860                   |
| BE BRENT EURO STYLE OPTION                 | P                   |             |        |        |         | 39316                |        |                           | 7584                   |
| TOTAL BRENT EURO STYLE OPTION              |                     |             |        |        |         | 96424                |        |                           | 14444                  |
| C15 C15 SHORT TERM CRUDE OIL OPTION        | P                   |             |        | 500    | 500     | 500                  | +      | 500                       |                        |
| TOTAL C15 SHORT TERM CRUDE OIL OPTION      |                     |             |        | 500    | 500     | 500                  | +      | 500                       |                        |
| WCI CANADIAN HEAVY CRUDE OIL APO           | C                   |             |        |        |         | 1000                 |        |                           | 3720                   |
| WCI CANADIAN HEAVY CRUDE OIL APO           | P                   |             |        |        |         | 730                  |        |                           | 2140                   |
| TOTAL CANADIAN HEAVY CRUDE OIL APO         |                     |             |        |        |         | 1730                 |        |                           | 5860                   |
| CVR CHICAGO ETHANOL (PLATTS) APO           | C                   |             |        | 175    | 175     | 2880                 | +      | 150                       | 135                    |
| CVR CHICAGO ETHANOL (PLATTS) APO           | P                   |             |        | 250    | 250     | 1934                 | +      | 70                        | 10                     |
| TOTAL CHICAGO ETHANOL (PLATTS) APO         |                     |             |        | 425    | 425     | 4814                 | +      | 220                       | 145                    |
| CQA COAL API2 ARGUS/MCCLCLOS QRTR OPT      | C                   |             |        |        |         | 725                  |        |                           | 25                     |
| CQA COAL API2 ARGUS/MCCLCLOS QRTR OPT      | P                   |             |        | 25     | 25      | 200                  | +      | 25                        | 10                     |
| TOTAL COAL API2 ARGUS/MCCLCLOS QRTR OPT    |                     |             |        | 25     | 25      | 925                  | +      | 25                        | 25                     |
| CLA COAL API2 ARGUS/MCCLCLOS CALNDR OPT    | C                   |             |        |        |         | 2015                 |        |                           | 50                     |
| CLA COAL API2 ARGUS/MCCLCLOS CALNDR OPT    | P                   |             |        |        |         | 1830                 |        |                           | 3092                   |
| TOTAL COAL API2 ARGUS/MCCLCLOS CALNDR OPT  |                     |             |        |        |         | 3845                 |        |                           | 50                     |
| MTO COAL API2 CIF ARA ARGSMCCLCLOSKEY OP   | C                   |             |        |        |         | 75                   |        |                           | 640                    |
| MTO COAL API2 CIF ARA ARGSMCCLCLOSKEY OP   | P                   |             |        |        |         | 95                   |        |                           | 300                    |
| TOTAL COAL API2 CIF ARA ARGSMCCLCLOSKEY OP |                     |             |        |        |         | 170                  |        |                           | 940                    |
| MFO COAL API4 FOB RCHRDS BAY ARGV MCCLC    | C                   |             |        |        |         | 150                  |        |                           | 150                    |
| MFO COAL API4 FOB RCHRDS BAY ARGV MCCLC    | P                   |             |        |        |         | 150                  |        |                           | 300                    |
| TOTAL COAL API4 FOB RCHRDS BAY ARGV MCCLC  |                     |             |        |        |         | 300                  |        |                           |                        |
| RLA COAL API4 R BAY ARGUS/MCK CAL          | P                   |             |        |        |         | 25                   |        |                           | 25                     |
| TOTAL COAL API4 R BAY ARGUS/MCK CAL        |                     |             |        |        |         | 25                   |        |                           |                        |
| CPR CONWAY PROPANE (OPIS) APO              | C                   |             |        |        |         |                      |        |                           | 18                     |
| TOTAL CONWAY PROPANE (OPIS) APO            |                     |             |        |        |         |                      |        |                           | 18                     |
| AO CRUDE OIL APO OPTIONS                   | C                   |             |        |        |         | 187695               |        |                           | 86                     |
| AO CRUDE OIL APO OPTIONS                   | P                   |             |        |        |         | 207614               |        |                           | 386                    |
| TOTAL CRUDE OIL APO OPTIONS                |                     |             |        |        |         | 395309               |        |                           | 472                    |
| 6F CRUDE OIL OPTION ON CALENDAR STRP       | P                   |             |        |        |         | 170                  |        |                           | 170                    |
| TOTAL CRUDE OIL OPTION ON CALENDAR STRP    |                     |             |        |        |         | 170                  |        |                           |                        |
| LO1 CRUDE OIL OPTIONS                      | C                   |             |        |        |         |                      |        |                           | 7                      |
| LO1 CRUDE OIL OPTIONS                      | P                   |             |        |        |         |                      |        |                           | 7                      |
| TOTAL CRUDE OIL OPTIONS                    |                     |             |        |        |         |                      |        |                           | 14                     |
| LO2 CRUDE OIL OPTIONS                      | C                   | 1132        |        |        | 1132    |                      | -      | 5280                      | 1766                   |
| LO2 CRUDE OIL OPTIONS                      | P                   | 1768        |        |        | 1768    |                      | -      | 3351                      | 1562                   |
| TOTAL CRUDE OIL OPTIONS                    |                     | 2900        |        |        | 2900    |                      | -      | 8631                      | 3328                   |
| LO3 CRUDE OIL OPTIONS                      | C                   | 223         |        |        | 223     | 965                  | +      | 144                       | 447                    |
| LO3 CRUDE OIL OPTIONS                      | P                   | 624         |        |        | 624     | 956                  | +      | 590                       | 300                    |
| TOTAL CRUDE OIL OPTIONS                    |                     | 847         |        |        | 847     | 1921                 | +      | 734                       | 747                    |
| LO4 CRUDE OIL OPTIONS                      | C                   | 59          |        |        | 59      | 273                  | +      | 22                        | 144                    |
| LO4 CRUDE OIL OPTIONS                      | P                   | 425         |        |        | 425     | 588                  | +      | 419                       | 125                    |
| TOTAL CRUDE OIL OPTIONS                    |                     | 484         |        |        | 484     | 861                  | +      | 441                       | 269                    |
| CPF CSX COAL OPT ON QTRLY FUT STRP         | C                   |             |        |        |         |                      |        |                           | 40                     |
| TOTAL CSX COAL OPT ON QTRLY FUT STRP       |                     |             |        |        |         |                      |        |                           | 40                     |
| AH DUBAI CRUDE OIL (PLATTS) APO            | C                   |             |        |        |         | 3000                 |        |                           | 75                     |
| AH DUBAI CRUDE OIL (PLATTS) APO            | P                   |             |        |        |         |                      |        |                           | 75                     |
| TOTAL DUBAI CRUDE OIL (PLATTS) APO         |                     |             |        |        |         | 3000                 |        |                           | 150                    |
| DAP EIA FLAT TAX ON-HIGHWAY DIESEL APO     | C                   |             |        |        |         | 210                  |        |                           | 210                    |
| TOTAL EIA FLAT TAX ON-HIGHWAY DIESEL APO   |                     |             |        |        |         | 210                  |        |                           | 210                    |
| LB EURO HEATING OIL                        | C                   |             |        |        |         | 210                  |        |                           | 412                    |
| LB EURO HEATING OIL                        | P                   |             |        |        |         | 40                   |        |                           | 49                     |
| TOTAL EURO HEATING OIL                     |                     |             |        |        |         | 250                  |        |                           | 461                    |
| GVR GULF COAST JET FUEL (PLATTS) APO       | C                   |             |        |        |         | 1938                 |        |                           | 2077                   |
| GVR GULF COAST JET FUEL (PLATTS) APO       | P                   |             |        |        |         | 375                  |        |                           | 100                    |
| TOTAL GULF COAST JET FUEL (PLATTS) APO     |                     |             |        |        |         | 2313                 |        |                           | 2177                   |
| AT HEATING OIL APO (AVG PRICE) OPTIONS     | C                   |             |        |        |         | 12357                |        |                           | 17690                  |
| AT HEATING OIL APO (AVG PRICE) OPTIONS     | P                   |             |        | 75     | 75      | 2903                 | +      | 65                        | 3274                   |
| TOTAL HEATING OIL APO (AVG PRICE) OPTIONS  |                     |             |        | 75     | 75      | 15260                | +      | 65                        | 20964                  |
| E7 HENRY HUB FINANCIAL LAST DAY O          | C                   |             |        |        |         | 3971                 |        |                           | 81                     |
| E7 HENRY HUB FINANCIAL LAST DAY O          | P                   |             |        |        |         | 1466                 |        |                           | 81                     |
| TOTAL HENRY HUB FINANCIAL LAST DAY O       |                     |             |        |        |         | 5437                 |        |                           | 162                    |
| FA HO 1 MONTH CALENDAR OPTIONS             | C                   |             |        |        |         | 100                  |        |                           | 200                    |
| FA HO 1 MONTH CALENDAR OPTIONS             | P                   |             |        |        |         |                      |        |                           | 200                    |
| TOTAL HO 1 MONTH CALENDAR OPTIONS          |                     |             |        |        |         | 100                  |        |                           | 200                    |
| WJO LLS ARGUS V.WTI CRUDE OIL AVG PRICE    | C                   |             |        |        |         | 900                  |        |                           | 3225                   |
| WJO LLS ARGUS V.WTI CRUDE OIL AVG PRICE    | P                   |             |        |        |         |                      |        |                           | 1200                   |
| TOTAL LLS ARGUS V.WTI CRUDE OIL AVG PRICE  |                     |             |        |        |         | 900                  |        |                           | 4425                   |
| YVO MARS-WTI TRADE MONTH APO               | C                   |             |        |        |         |                      |        |                           | 1500                   |
| YVO MARS-WTI TRADE MONTH APO               | P                   |             |        |        |         |                      |        |                           | 2000                   |
| TOTAL MARS-WTI TRADE MONTH APO             |                     |             |        |        |         |                      |        |                           | 3500                   |
| 4J MT BELVIEU ETHANE 5-DCML (OPIS)         | C                   |             |        |        |         | 1155                 |        |                           | 225                    |
| 4J MT BELVIEU ETHANE 5-DCML (OPIS)         | P                   |             |        |        |         |                      |        |                           | 1580                   |
| TOTAL MT BELVIEU ETHANE 5-DCML (OPIS)      |                     |             |        |        |         | 1155                 |        |                           | 1805                   |
| 4K MT BELVIEU NRM BUTANE 5-DCML (OPIS)     | C                   |             |        |        |         | 825                  |        |                           | 400                    |
| 4K MT BELVIEU NRM BUTANE 5-DCML (OPIS)     | P                   |             |        |        |         | 825                  |        |                           | 300                    |
| TOTAL MT BELVIEU NRM BUTANE 5-DCML (OPIS)  |                     |             |        |        |         | 1650                 |        |                           | 700                    |
| 4H MT BELVIEU PROPANE 5-DCML (OPIS)        | C                   |             |        |        |         | 1518                 |        |                           | 3608                   |
| 4H MT BELVIEU PROPANE 5-DCML (OPIS)        | P                   |             |        |        |         | 2527                 |        |                           | 2088                   |
| TOTAL MT BELVIEU PROPANE 5-DCML (OPIS)     |                     |             |        |        |         | 4045                 |        |                           | 5696                   |
| G4 NATURAL GAS 1 M CSO FIN                 | C                   |             |        | 500    | 500     | 38475                | +      | 500                       | 1150                   |
| G4 NATURAL GAS 1 M CSO FIN                 | P                   |             |        |        |         | 40470                |        |                           | 650                    |
| TOTAL NATURAL GAS 1 M CSO FIN              |                     |             |        | 500    | 500     | 78945                | +      | 500                       | 1800                   |
| G2 NATURAL GAS 2 M CSO FIN                 | C                   |             |        |        |         |                      |        |                           | 400                    |
| G2 NATURAL GAS 2 M CSO FIN                 | P                   |             |        |        |         |                      |        |                           | 3150                   |

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FINAL

PG02C BULLETIN #198@

Fri, Oct 12, 2018 PG02C

|       | -----                               | -----       | -----  | -----  | -----   | -----                | -----  | -----                     | -----                  |
|-------|-------------------------------------|-------------|--------|--------|---------|----------------------|--------|---------------------------|------------------------|
|       | GLOBAL <sup>®</sup>                 | OPEN OUTCRY | PNT    | -----  | OVERALL | COMBINED TOTAL       | -----  | -52 WEEKS (364 DAYS) AGO- | OVERALL COMBINED TOTAL |
|       | VOLUME                              | VOLUME      | VOLUME | VOLUME | VOLUME  | OPEN INTEREST & CHGE | VOLUME | OVERALL                   | COMBINED TOTAL         |
|       |                                     |             |        |        |         |                      |        | OPEN INTEREST             |                        |
| TOTAL |                                     |             |        |        |         |                      |        |                           | 3550                   |
| G6    | NATURAL GAS 6 M CSO FIN             | C           |        |        |         | 5250                 |        |                           | 2100                   |
| G6    | NATURAL GAS 6 M CSO FIN             | P           |        |        |         | 6200                 |        |                           | 8600                   |
| TOTAL | NATURAL GAS 6 M CSO FIN             |             | 250    | 250    |         | 11450                |        |                           | 10700                  |
| 6J    | NATURAL GAS OPTION ON CALENDAR STRP | C           |        |        |         | 5322                 |        |                           | 7718                   |
| 6J    | NATURAL GAS OPTION ON CALENDAR STRP | P           |        |        |         | 8800                 |        |                           | 1520                   |
| TOTAL | NATURAL GAS OPTION ON CALENDAR STRP |             |        |        |         | 14122                |        |                           | 9238                   |
| 6I    | NATURAL GAS OPTION ON WINTER STRP   | C           |        |        |         | 1700                 |        |                           | 1700                   |
| TOTAL | NATURAL GAS OPTION ON WINTER STRP   |             |        |        |         |                      |        |                           |                        |
| ZR    | NORTHERN ROCKIES PIPE OPTION        | C           |        |        |         | 2986                 |        |                           | 6754                   |
| TOTAL | NORTHERN ROCKIES PIPE OPTION        |             |        |        |         | 2986                 |        |                           | 6754                   |
| 9U    | NYISO ZONE G OPTION                 | C           |        |        |         |                      |        |                           | 5880                   |
| TOTAL | NYISO ZONE G OPTION                 |             |        |        |         |                      |        |                           | 5880                   |
| LC    | NYMEX CRUDE OIL (EURO) OPTS (PHY)   | C           | 480    | 480    |         | 36244                | +      | 480                       | 44262                  |
| LC    | NYMEX CRUDE OIL (EURO) OPTS (PHY)   | P           | 480    | 480    |         | 12471                | +      | 480                       | 15499                  |
| TOTAL | NYMEX CRUDE OIL (EURO) OPTS (PHY)   |             | 960    | 960    |         | 48715                | +      | 960                       | 59761                  |
| LO    | NYMEX CRUDE OIL OPTIONS (PHY)       | C           | 52266  | 16150  | 68416   | 1779072              | +      | 16894                     | 80314                  |
| LO    | NYMEX CRUDE OIL OPTIONS (PHY)       | P           | 86343  | 6070   | 92413   | 1552682              | +      | 15059                     | 73772                  |
| TOTAL | NYMEX CRUDE OIL OPTIONS (PHY)       |             | 138609 | 22220  | 160829  | 3331754              | +      | 31953                     | 154086                 |
| OH    | NYMEX HEATING OIL (PHY) OPTIONS     | C           | 248    | 615    | 863     | 26659                | +      | 566                       | 1417                   |
| OH    | NYMEX HEATING OIL (PHY) OPTIONS     | P           | 21     | 365    | 386     | 19559                | +      | 222                       | 311                    |
| TOTAL | NYMEX HEATING OIL (PHY) OPTIONS     |             | 269    | 980    | 1249    | 46218                | +      | 788                       | 1728                   |
| CH    | NYMEX HEATING OIL CRACK SPRD OPT    | C           |        |        |         |                      |        |                           | 100                    |
| TOTAL | NYMEX HEATING OIL CRACK SPRD OPT    |             |        |        |         |                      |        |                           | 100                    |
| LN    | NYMEX NATURAL GAS (EURO) OPTS       | C           | 20598  | 9694   | 30292   | 1083614              | +      | 7815                      | 66639                  |
| LN    | NYMEX NATURAL GAS (EURO) OPTS       | P           | 35502  | 16024  | 51526   | 1145118              | +      | 7647                      | 32910                  |
| TOTAL | NYMEX NATURAL GAS (EURO) OPTS       |             | 56100  | 25718  | 81818   | 2228732              | +      | 15462                     | 99549                  |
| ON    | NYMEX NATURAL GAS OPTIONS (PHY)     | C           | 3386   |        | 3386    | 116485               | +      | 1766                      | 3373                   |
| ON    | NYMEX NATURAL GAS OPTIONS (PHY)     | P           | 5650   |        | 5650    | 93707                | +      | 4075                      | 4375                   |
| TOTAL | NYMEX NATURAL GAS OPTIONS (PHY)     |             | 9036   |        | 9036    | 210192               | +      | 5841                      | 7748                   |
| CD    | NYMEX ONE DAY CRUDE OIL OPTIONS     | C           |        | 25     | 25      |                      |        |                           | 250                    |
| TOTAL | NYMEX ONE DAY CRUDE OIL OPTIONS     |             |        | 25     | 25      |                      |        |                           | 250                    |
| KD    | NYMEX ONE DAY NATURAL GAS OPTIONS   | C           | 100    |        | 100     |                      |        |                           | 633                    |
| KD    | NYMEX ONE DAY NATURAL GAS OPTIONS   | P           | 160    |        | 160     |                      |        |                           | 946                    |
| TOTAL | NYMEX ONE DAY NATURAL GAS OPTIONS   |             | 260    |        | 260     |                      |        |                           | 1579                   |
| OB    | NYMEX RBOB (PHY) OPTIONS            | C           | 34     | 1725   | 1759    | 11039                | +      | 1341                      | 124                    |
| OB    | NYMEX RBOB (PHY) OPTIONS            | P           | 7      | 150    | 157     | 4056                 | +      | 153                       | 179                    |
| TOTAL | NYMEX RBOB (PHY) OPTIONS            |             | 41     | 1875   | 1916    | 15095                | +      | 1494                      | 303                    |
| PU    | PANHANDLE PIPE OPTION               | C           |        |        |         | 480                  |        |                           | 2880                   |
| PU    | PANHANDLE PIPE OPTION               | P           |        |        |         | 480                  |        |                           | 2880                   |
| TOTAL | PANHANDLE PIPE OPTION               |             |        |        |         | 960                  |        |                           | 5760                   |
| 60A   | PJM WEST HUB REAL-TIME PK 5 MW OPT  | C           |        |        |         | 855                  |        |                           | 2020                   |
| 60A   | PJM WEST HUB REAL-TIME PK 5 MW OPT  | P           |        |        |         | 1175                 |        |                           | 1380                   |
| TOTAL | PJM WEST HUB REAL-TIME PK 5 MW OPT  |             |        |        |         | 2030                 |        |                           | 3400                   |
| PMA   | PJM WEST HUB REAL-TIME PK CAL 50 MW | C           |        |        |         | 1963                 |        |                           | 4918                   |
| PMA   | PJM WEST HUB REAL-TIME PK CAL 50 MW | P           |        |        |         | 3150                 |        |                           | 10860                  |
| TOTAL | PJM WEST HUB REAL-TIME PK CAL 50 MW |             |        |        |         | 5113                 |        |                           | 15778                  |
| RPF   | POWDR RIVR COAL OPT ON QTY FUT STRP | C           |        |        |         |                      |        |                           | 520                    |
| TOTAL | POWDR RIVR COAL OPT ON QTY FUT STRP |             |        |        |         |                      |        |                           | 520                    |
| ZA    | RBOB 1 MO CAL SPD OPTIONS           | C           |        |        |         |                      |        |                           | 600                    |
| ZA    | RBOB 1 MO CAL SPD OPTIONS           | P           |        |        |         |                      |        |                           | 250                    |
| TOTAL | RBOB 1 MO CAL SPD OPTIONS           |             |        |        |         |                      |        |                           | 600                    |
| RA    | RBOB APO (AVERAGE PRICE) OPTIONS    | C           |        |        |         | 335                  |        |                           | 1102                   |
| RA    | RBOB APO (AVERAGE PRICE) OPTIONS    | P           |        |        |         | 150                  |        |                           | 450                    |
| TOTAL | RBOB APO (AVERAGE PRICE) OPTIONS    |             |        |        |         | 485                  |        |                           | 1552                   |
| RF    | RBOB EURO EXPIRATION OPTION         | C           |        |        |         |                      |        |                           | 75                     |
| RF    | RBOB EURO EXPIRATION OPTION         | P           |        |        |         |                      |        |                           | 250                    |
| TOTAL | RBOB EURO EXPIRATION OPTION         |             |        |        |         |                      |        |                           | 325                    |
| Q6    | ROTTERDAM 3.5%FUEL OIL CLN APO      | C           |        |        |         |                      |        |                           | 105                    |
| Q6    | ROTTERDAM 3.5%FUEL OIL CLN APO      | P           |        |        |         |                      |        |                           | 15                     |
| TOTAL | ROTTERDAM 3.5%FUEL OIL CLN APO      |             |        |        |         |                      |        |                           | 120                    |
| PJ    | SAN JUAN PIPE OPTION                | C           |        |        |         | 2496                 |        |                           | 5068                   |
| PJ    | SAN JUAN PIPE OPTION                | P           |        |        |         |                      |        |                           | 208                    |
| TOTAL | SAN JUAN PIPE OPTION                |             |        |        |         | 2496                 |        |                           | 5276                   |
| 8H    | SINGAPORE FUEL OIL 380 APO          | C           |        |        |         |                      |        |                           | 150                    |
| TOTAL | SINGAPORE FUEL OIL 380 APO          |             |        |        |         |                      |        |                           | 150                    |
| M2    | SINGAPORE GASOIL CALENDAR APO       | C           |        |        |         |                      |        |                           | 75                     |
| TOTAL | SINGAPORE GASOIL CALENDAR APO       |             |        |        |         |                      |        |                           | 75                     |
| N2    | SINGAPORE JET FUEL CALENDAR APO     | C           |        |        |         |                      |        |                           | 120                    |
| TOTAL | SINGAPORE JET FUEL CALENDAR APO     |             |        |        |         |                      |        |                           | 120                    |
| U12   | U12 SHORT TERM NG OPTIONS           | P           |        |        |         |                      |        |                           | 150                    |
| TOTAL | U12 SHORT TERM NG OPTIONS           |             |        |        |         |                      |        |                           | 150                    |
| U16   | U16 SHORT TERM NG OPTIONS           | C           |        |        |         |                      |        |                           | 2110                   |
| U16   | U16 SHORT TERM NG OPTIONS           | P           |        |        |         |                      |        |                           | 605                    |
| TOTAL | U16 SHORT TERM NG OPTIONS           |             |        |        |         |                      |        |                           | 2715                   |
| 7A    | WTI CRUDE OIL 1 M CSO FIN           | C           |        |        |         | 65175                |        |                           | 87325                  |
| 7A    | WTI CRUDE OIL 1 M CSO FIN           | P           |        | 400    | 400     | 66250                | -      | 350                       | 199449                 |
| TOTAL | WTI CRUDE OIL 1 M CSO FIN           |             |        | 400    | 400     | 131425               | -      | 350                       | 286774                 |
| WA    | WTI CRUDE OIL 1MO CAL SPRD OPTIONS  | C           |        |        |         | 110550               |        |                           | 273234                 |
| WA    | WTI CRUDE OIL 1MO CAL SPRD OPTIONS  | P           | 110    | 1000   | 1110    | 197640               | +      | 1100                      | 319056                 |
| TOTAL | WTI CRUDE OIL 1MO CAL SPRD OPTIONS  |             | 110    | 1000   | 1110    | 308190               | +      | 1100                      | 592290                 |
| BV    | WTI-BRENT SPREAD OPTION             | C           | 200    | 1100   | 1300    | 127730               | +      | 150                       | 127498                 |
| BV    | WTI-BRENT SPREAD OPTION             | P           | 400    | 500    | 900     | 81241                | +      | 750                       | 87013                  |
| TOTAL | WTI-BRENT SPREAD OPTION             |             | 600    | 1600   | 2200    | 208971               | +      | 900                       | 214511                 |

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