

**Part 1 - Appendix 3B**  
**Kansas City Power & Light Reports**

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**Missouri 4 CSR 240-22.030 (7)(A)(6) Reporting Requirements**  
**Load Analysis and Forecasting**

(7)(A)(6) For each major class specified pursuant to subsection (2)(A), the utility shall provide plots of class monthly energy and coincident peak demand at the time of summer and winter system peaks. The plots shall cover the historical database period and the forecast period of at least (20) years. The plots of coincident peak demands for the historical period shall include both actual and weather-normalized peak demands at the time of peak of summer and winter system peaks. The plots of coincident peak demand for the forecast period shall show the class coincident demands for the base-case forecast at the time of summer and winter systems peaks.

Compliance: See Plots 3B-1 through 3B-23 for base-case KCP&L forecast reports designed to comply with section (7)(A)(6) reporting requirements.

Linked Files:**Work Files**

WN PeakSumWin.xls

Act PeakSumWin.xls

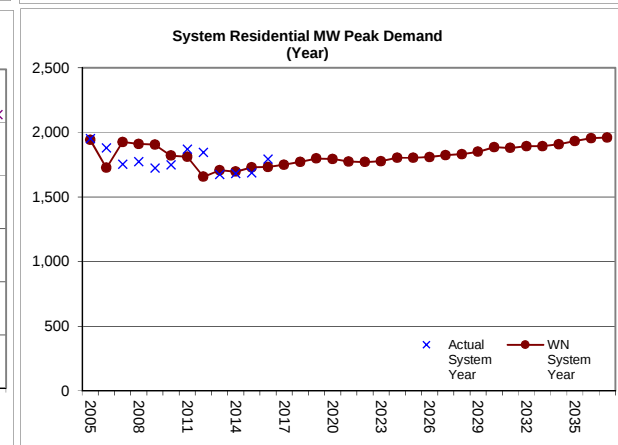
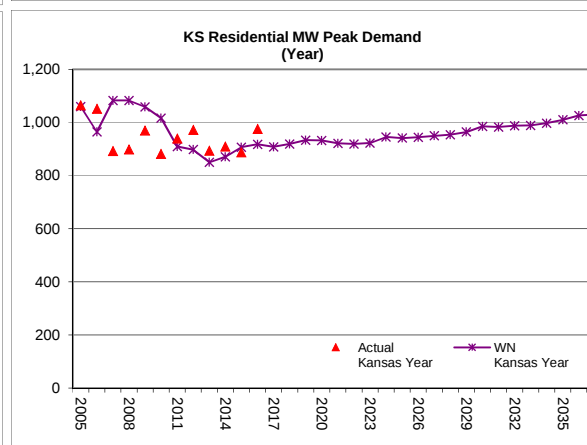
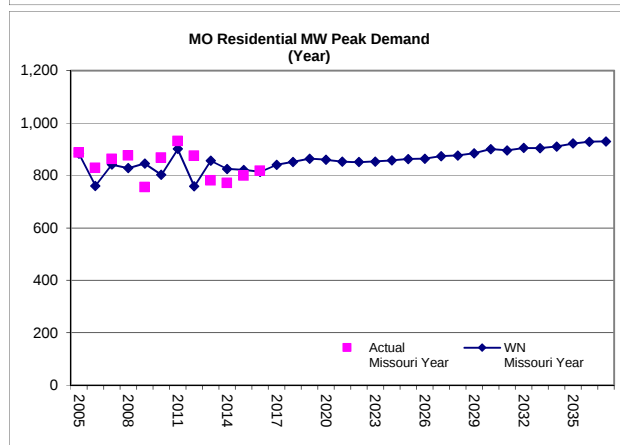
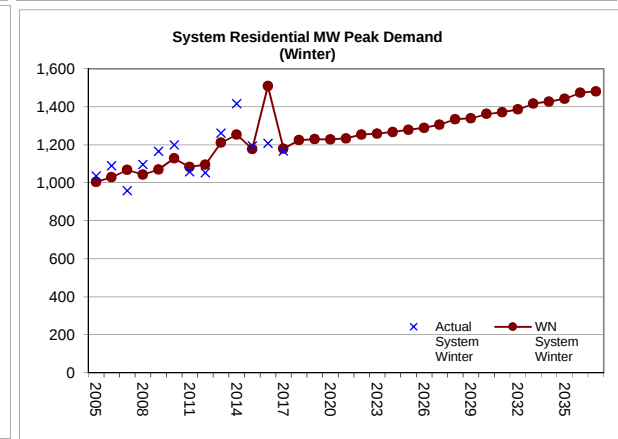
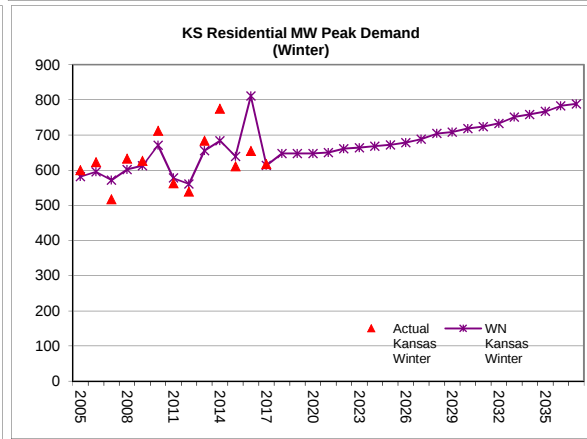
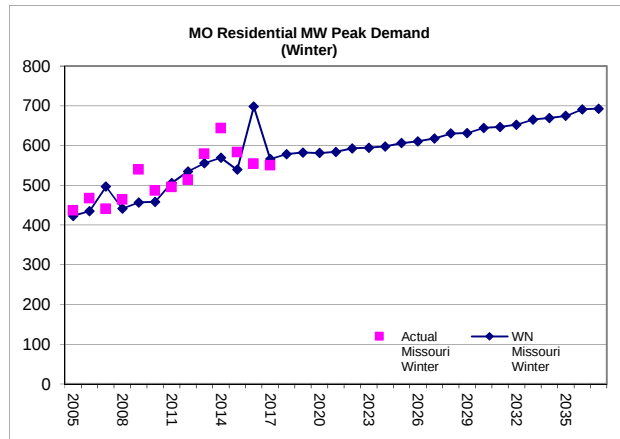
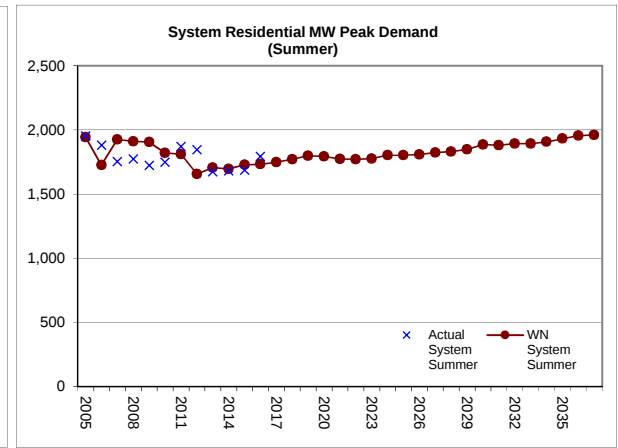
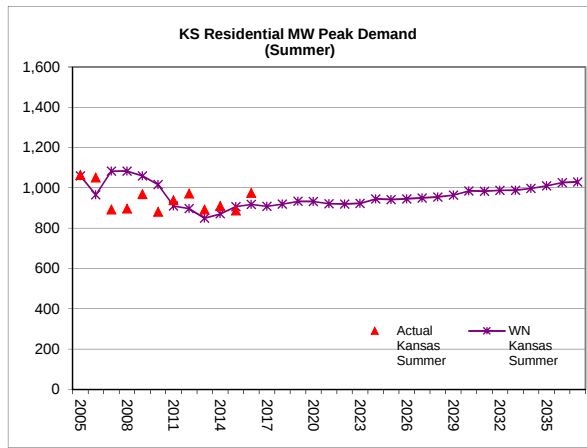
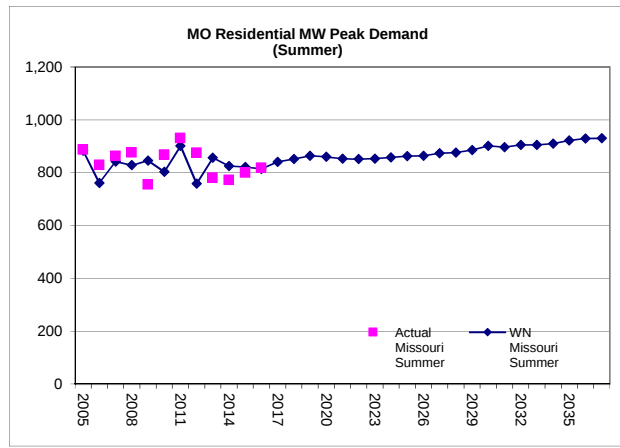
IRP\_7.1.6\_KCPL\_Peaks

IRP\_7.1.6\_KCPL\_MWh

**Plot 3B-1 Missouri & Kansas Residential MW Peak Demand  
(Actual vs. Weather Normalized)**

| Year    | Actual<br>Missouri<br>Summer | WN<br>Missouri<br>Summer | Actual<br>Missouri<br>Winter | WN<br>Missouri<br>Winter | Actual<br>Missouri<br>Year | WN<br>Missouri<br>Year | Actual<br>Kansas<br>Summer | WN<br>Kansas<br>Summer | Actual<br>Kansas<br>Winter | WN<br>Kansas<br>Winter | Actual<br>Kansas<br>Year | WN<br>Kansas<br>Year | Actual<br>System<br>Summer | WN<br>System<br>Summer | Actual<br>System<br>Winter | WN<br>System<br>Winter | Actual<br>System<br>Year | WN<br>System<br>Year |
|---------|------------------------------|--------------------------|------------------------------|--------------------------|----------------------------|------------------------|----------------------------|------------------------|----------------------------|------------------------|--------------------------|----------------------|----------------------------|------------------------|----------------------------|------------------------|--------------------------|----------------------|
| 2005    | 887                          | 883                      | 436                          | 423                      | 887                        | 883                    | 1064                       | 1,060                  | 600                        | 582                    | 1,064                    | 1,060                | 1,952                      | 1,943                  | 1,036                      | 1,005                  | 1,952                    | 1,943                |
| 2006    | 828                          | 761                      | 467                          | 435                      | 828                        | 761                    | 1051                       | 965                    | 622                        | 595                    | 1,051                    | 965                  | 1,880                      | 1,726                  | 1,090                      | 1,030                  | 1,880                    | 1,726                |
| 2007    | 863                          | 842                      | 440                          | 497                      | 863                        | 842                    | 892                        | 1,083                  | 517                        | 572                    | 892                      | 1,083                | 1,755                      | 1,925                  | 958                        | 1,068                  | 1,755                    | 1,925                |
| 2008    | 877                          | 828                      | 464                          | 441                      | 877                        | 828                    | 898                        | 1,083                  | 632                        | 602                    | 898                      | 1,083                | 1,774                      | 1,911                  | 1,096                      | 1,043                  | 1,774                    | 1,911                |
| 2009    | 755                          | 846                      | 539                          | 457                      | 755                        | 846                    | 969                        | 1,059                  | 627                        | 613                    | 969                      | 1,059                | 1,724                      | 1,905                  | 1,166                      | 1,069                  | 1,724                    | 1,905                |
| 2010    | 867                          | 804                      | 486                          | 458                      | 867                        | 804                    | 881                        | 1,017                  | 712                        | 671                    | 881                      | 1,017                | 1,749                      | 1,820                  | 1,198                      | 1,129                  | 1,749                    | 1,820                |
| 2011    | 931                          | 901                      | 495                          | 506                      | 931                        | 901                    | 939                        | 910                    | 562                        | 578                    | 939                      | 910                  | 1,870                      | 1,811                  | 1,057                      | 1,083                  | 1,870                    | 1,811                |
| 2012    | 875                          | 759                      | 514                          | 535                      | 875                        | 759                    | 972                        | 898                    | 539                        | 561                    | 972                      | 898                  | 1,846                      | 1,656                  | 1,052                      | 1,095                  | 1,846                    | 1,656                |
| 2013    | 781                          | 857                      | 579                          | 555                      | 781                        | 857                    | 893                        | 850                    | 683                        | 655                    | 893                      | 850                  | 1,674                      | 1,707                  | 1,262                      | 1,211                  | 1,674                    | 1,707                |
| 2014    | 771                          | 825                      | 643                          | 569                      | 771                        | 825                    | 910                        | 871                    | 774                        | 684                    | 910                      | 871                  | 1,681                      | 1,696                  | 1,417                      | 1,253                  | 1,681                    | 1,696                |
| 2015    | 800                          | 821                      | 583                          | 539                      | 800                        | 821                    | 888                        | 907                    | 611                        | 639                    | 888                      | 907                  | 1,687                      | 1,729                  | 1,194                      | 1,178                  | 1,687                    | 1,729                |
| 2016    | 818                          | 814                      | 554                          | 698                      | 818                        | 814                    | 976                        | 918                    | 655                        | 811                    | 976                      | 918                  | 1,793                      | 1,732                  | 1,208                      | 1,508                  | 1,793                    | 1,732                |
| 2017    |                              | 840                      | 550                          | 566                      |                            | 840                    |                            | 908                    | 618                        | 614                    |                          | 908                  |                            | 1,749                  | 1,167                      | 1,180                  |                          | 1,749                |
| 2018    |                              | 852                      |                              | 578                      |                            | 852                    |                            | 919                    |                            | 647                    |                          | 919                  |                            | 1,771                  |                            | 1,225                  |                          | 1,771                |
| 2019    |                              | 864                      |                              | 582                      |                            | 864                    |                            | 933                    |                            | 647                    |                          | 933                  |                            | 1,797                  |                            | 1,229                  |                          | 1,797                |
| 2020    |                              | 861                      |                              | 581                      |                            | 861                    |                            | 932                    |                            | 647                    |                          | 932                  |                            | 1,793                  |                            | 1,228                  |                          | 1,793                |
| 2021    |                              | 853                      |                              | 584                      |                            | 853                    |                            | 921                    |                            | 650                    |                          | 921                  |                            | 1,774                  |                            | 1,234                  |                          | 1,774                |
| 2022    |                              | 851                      |                              | 593                      |                            | 851                    |                            | 919                    |                            | 661                    |                          | 919                  |                            | 1,771                  |                            | 1,254                  |                          | 1,771                |
| 2023    |                              | 853                      |                              | 594                      |                            | 853                    |                            | 923                    |                            | 663                    |                          | 923                  |                            | 1,776                  |                            | 1,258                  |                          | 1,776                |
| 2024    |                              | 858                      |                              | 598                      |                            | 858                    |                            | 946                    |                            | 668                    |                          | 946                  |                            | 1,804                  |                            | 1,266                  |                          | 1,804                |
| 2025    |                              | 863                      |                              | 606                      |                            | 863                    |                            | 941                    |                            | 672                    |                          | 941                  |                            | 1,804                  |                            | 1,278                  |                          | 1,804                |
| 2026    |                              | 864                      |                              | 610                      |                            | 864                    |                            | 944                    |                            | 678                    |                          | 944                  |                            | 1,809                  |                            | 1,288                  |                          | 1,809                |
| 2027    |                              | 874                      |                              | 618                      |                            | 874                    |                            | 950                    |                            | 688                    |                          | 950                  |                            | 1,824                  |                            | 1,306                  |                          | 1,824                |
| 2028    |                              | 876                      |                              | 630                      |                            | 876                    |                            | 954                    |                            | 704                    |                          | 954                  |                            | 1,830                  |                            | 1,334                  |                          | 1,830                |
| 2029    |                              | 885                      |                              | 632                      |                            | 885                    |                            | 964                    |                            | 708                    |                          | 964                  |                            | 1,849                  |                            | 1,340                  |                          | 1,849                |
| 2030    |                              | 901                      |                              | 644                      |                            | 901                    |                            | 985                    |                            | 718                    |                          | 985                  |                            | 1,886                  |                            | 1,362                  |                          | 1,886                |
| 2031    |                              | 896                      |                              | 647                      |                            | 896                    |                            | 983                    |                            | 724                    |                          | 983                  |                            | 1,879                  |                            | 1,370                  |                          | 1,879                |
| 2032    |                              | 905                      |                              | 652                      |                            | 905                    |                            | 988                    |                            | 733                    |                          | 988                  |                            | 1,893                  |                            | 1,385                  |                          | 1,893                |
| 2033    |                              | 905                      |                              | 665                      |                            | 905                    |                            | 989                    |                            | 751                    |                          | 989                  |                            | 1,893                  |                            | 1,416                  |                          | 1,893                |
| 2034    |                              | 910                      |                              | 669                      |                            | 910                    |                            | 997                    |                            | 758                    |                          | 997                  |                            | 1,907                  |                            | 1,427                  |                          | 1,907                |
| 2035    |                              | 922                      |                              | 674                      |                            | 922                    |                            | 1,010                  |                            | 767                    |                          | 1,010                |                            | 1,932                  |                            | 1,441                  |                          | 1,932                |
| 2036    |                              | 929                      |                              | 691                      |                            | 929                    |                            | 1,026                  |                            | 783                    |                          | 1,026                |                            | 1,955                  |                            | 1,473                  |                          | 1,955                |
| 2037    |                              | 930                      |                              | 692                      |                            | 930                    |                            | 1,030                  |                            | 788                    |                          | 1,030                |                            | 1,960                  |                            | 1,480                  |                          | 1,960                |
| '12-'17 | -100.0%                      | 2.1%                     | 1.4%                         | 1.1%                     | -100.0%                    | 2.1%                   | -100.0%                    | 0.2%                   | 2.8%                       | 1.8%                   | -100.0%                  | 0.2%                 | -100.0%                    | 1.1%                   | 2.1%                       | 1.5%                   | -100.0%                  | 1.1%                 |
| '15-'20 |                              | 0.9%                     |                              | 1.5%                     |                            | 0.9%                   |                            | 0.5%                   |                            | 0.3%                   |                          | 0.5%                 |                            | 0.7%                   |                            | 0.8%                   |                          | 0.7%                 |
| '20-'25 |                              | 0.1%                     |                              | 0.8%                     |                            | 0.1%                   |                            | 0.2%                   |                            | 0.8%                   |                          | 0.2%                 |                            | 0.1%                   |                            | 0.8%                   |                          | 0.1%                 |
| '25-'30 |                              | 0.9%                     |                              | 1.2%                     |                            | 0.9%                   |                            | 0.9%                   |                            | 1.3%                   |                          | 0.9%                 |                            | 0.9%                   |                            | 1.3%                   |                          | 0.9%                 |
| '30-'35 |                              | 0.5%                     |                              | 0.9%                     |                            | 0.5%                   |                            | 0.5%                   |                            | 1.3%                   |                          | 0.5%                 |                            | 0.5%                   |                            | 1.1%                   |                          | 0.5%                 |
| '17-'37 |                              | 0.5%                     |                              | 1.0%                     |                            | 0.5%                   |                            | 0.6%                   |                            | 1.3%                   |                          | 0.6%                 |                            | 0.6%                   |                            | 1.1%                   |                          | 0.6%                 |

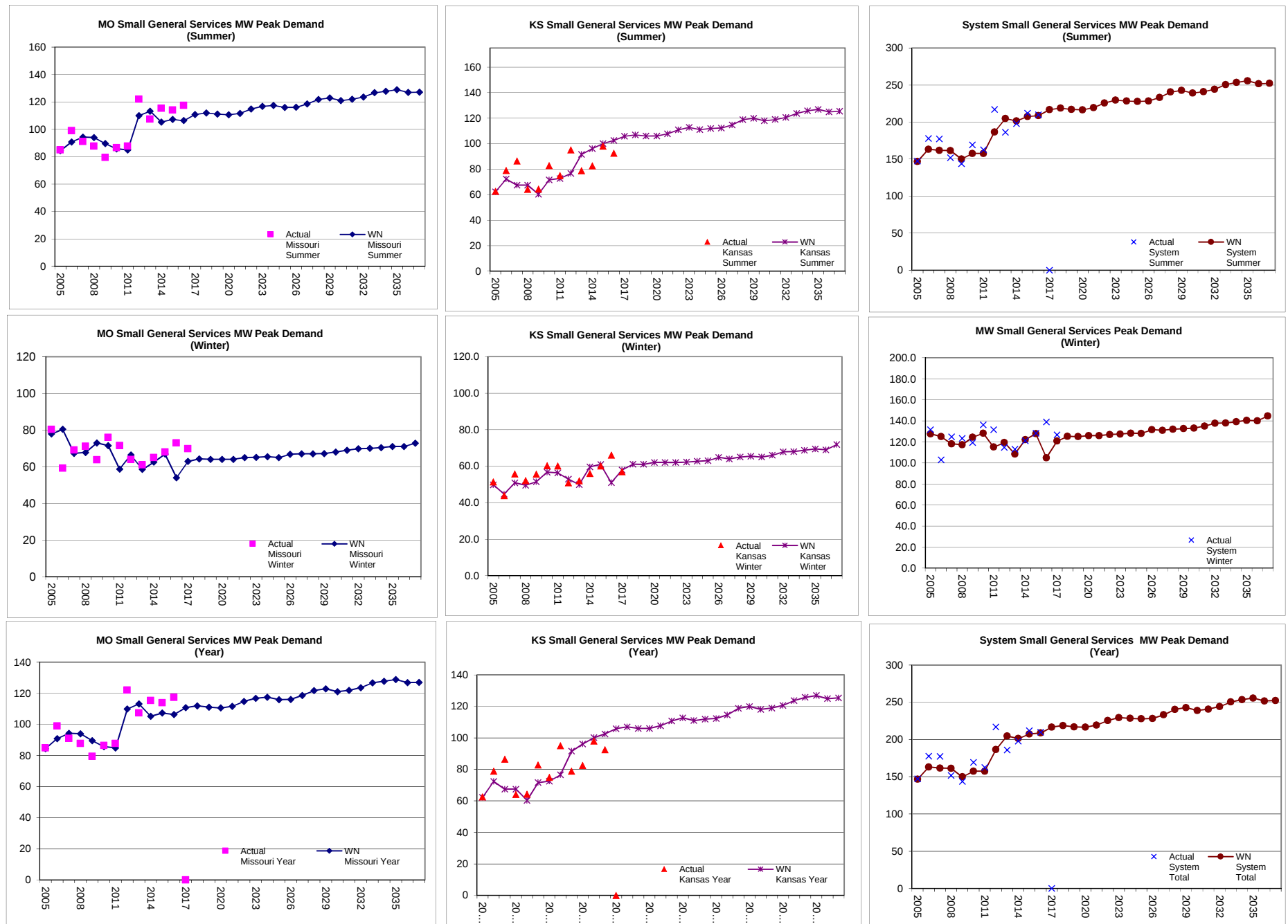
\* 2016 winter peak spike is due to peak occurring on a Sunday with an average dry bulb temp of -1. This was the coldest weekend day temperature since 1996.



MO Winter drop due to the system coincident peak in Dec. and Res class peak is Jan.

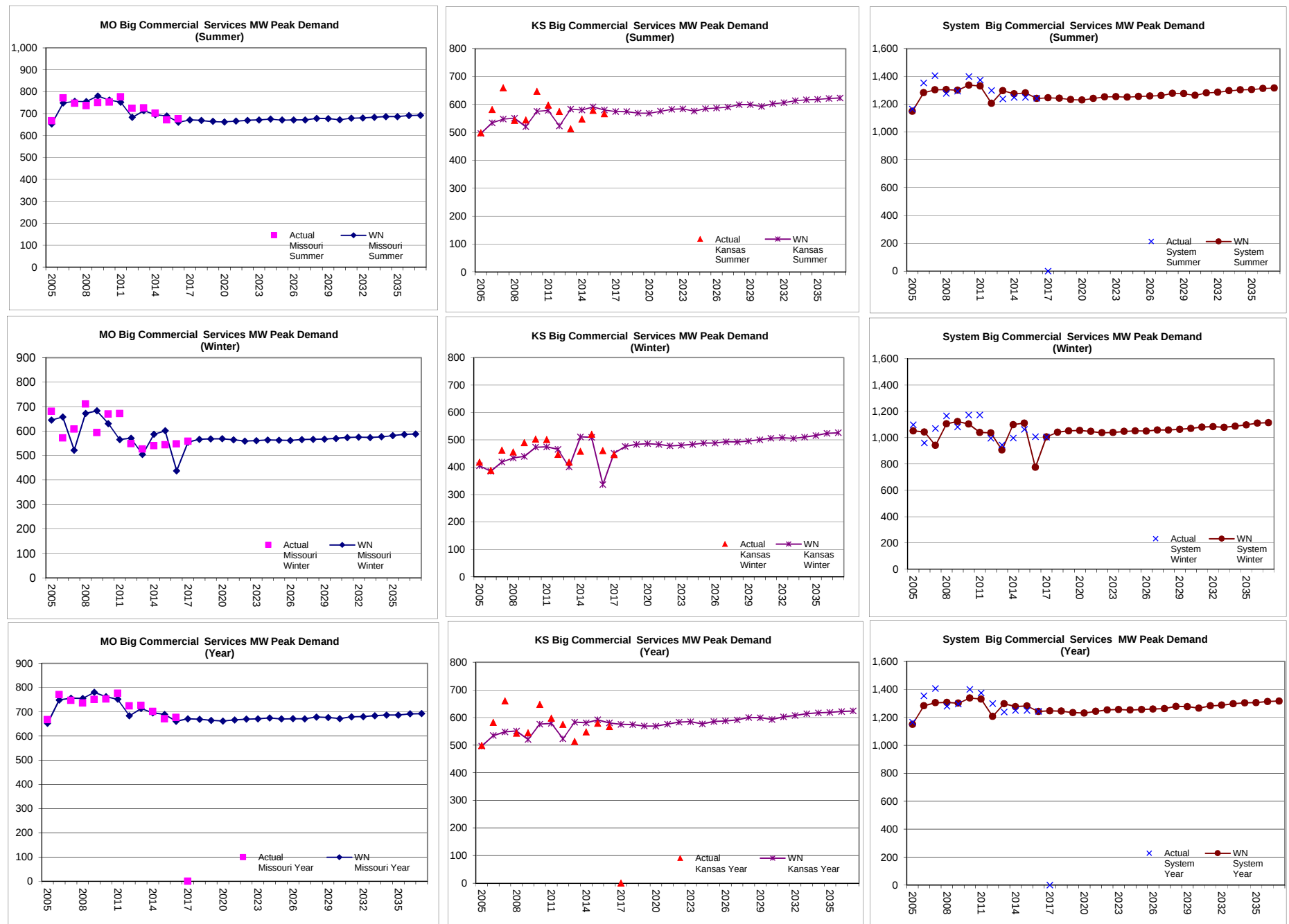
**Plot 3B-2 Missouri & Kansas Small General Service MW Peak Demand  
(Actual vs. Weather Normalized)**

| Year    | Actual<br>Missouri<br>Summer | WN<br>Missouri<br>Summer | Actual<br>Missouri<br>Winter | WN<br>Missouri<br>Winter | Actual<br>Missouri<br>Year | WN<br>Missouri<br>Year | Actual<br>Kansas<br>Summer | WN<br>Kansas<br>Summer | Actual<br>Kansas<br>Winter | WN<br>Kansas<br>Winter | Actual<br>Kansas<br>Year | WN<br>Kansas<br>Year | Actual<br>System<br>Summer | WN<br>System<br>Summer | Actual<br>System<br>Winter | WN<br>System<br>Winter | Actual<br>System<br>Total | WN<br>System<br>Total |
|---------|------------------------------|--------------------------|------------------------------|--------------------------|----------------------------|------------------------|----------------------------|------------------------|----------------------------|------------------------|--------------------------|----------------------|----------------------------|------------------------|----------------------------|------------------------|---------------------------|-----------------------|
| 2005    | 84.8                         | 84                       | 80.3                         | 77.8                     | 84.8                       | 84.5                   | 62.5                       | 62                     | 51.3                       | 49.7                   | 62.5                     | 62.2                 | 147.3                      | 146.6                  | 131.6                      | 127.6                  | 147.3                     | 146.6                 |
| 2006    | 98.9                         | 91                       | 59.1                         | 80.4                     | 98.9                       | 90.8                   | 78.8                       | 72                     | 43.8                       | 44.7                   | 78.8                     | 72.4                 | 177.7                      | 163.1                  | 103.0                      | 125.1                  | 177.7                     | 163.1                 |
| 2007    | 91.0                         | 94                       | 69.1                         | 67.2                     | 91.0                       | 94.2                   | 86.4                       | 67                     | 55.7                       | 50.9                   | 86.4                     | 67.5                 | 177.4                      | 161.7                  | 124.8                      | 118.2                  | 177.4                     | 161.7                 |
| 2008    | 87.7                         | 94                       | 71.2                         | 67.7                     | 87.7                       | 93.9                   | 64.0                       | 67                     | 52.1                       | 49.6                   | 64.0                     | 67.4                 | 151.8                      | 161.4                  | 123.3                      | 117.3                  | 151.8                     | 161.4                 |
| 2009    | 79.5                         | 90                       | 63.8                         | 73.0                     | 79.5                       | 89.5                   | 64.2                       | 60                     | 55.6                       | 51.5                   | 64.2                     | 60.3                 | 143.7                      | 149.9                  | 119.4                      | 124.5                  | 143.7                     | 149.9                 |
| 2010    | 86.5                         | 86                       | 76.0                         | 71.5                     | 86.5                       | 85.8                   | 82.7                       | 72                     | 60.2                       | 56.7                   | 82.7                     | 71.6                 | 169.2                      | 157.4                  | 136.1                      | 128.2                  | 169.2                     | 157.4                 |
| 2011    | 87.6                         | 85                       | 71.5                         | 58.7                     | 87.6                       | 84.9                   | 74.9                       | 73                     | 60.1                       | 56.3                   | 74.9                     | 72.6                 | 162.5                      | 157.4                  | 131.5                      | 115.1                  | 162.5                     | 157.4                 |
| 2012    | 121.9                        | 110                      | 63.8                         | 66.5                     | 121.9                      | 109.9                  | 95.0                       | 77                     | 50.9                       | 53.0                   | 95.0                     | 76.5                 | 216.9                      | 186.4                  | 114.7                      | 119.4                  | 216.9                     | 186.4                 |
| 2013    | 107.3                        | 113                      | 61.0                         | 58.5                     | 107.3                      | 113.2                  | 78.8                       | 92                     | 52.0                       | 49.9                   | 78.8                     | 91.6                 | 186.1                      | 204.7                  | 113.0                      | 108.4                  | 186.1                     | 204.7                 |
| 2014    | 115.3                        | 105                      | 65.0                         | 62.5                     | 115.3                      | 105.2                  | 82.5                       | 96                     | 56.0                       | 59.6                   | 82.5                     | 96.1                 | 197.8                      | 201.3                  | 121.0                      | 122.1                  | 197.8                     | 201.3                 |
| 2015    | 113.9                        | 107                      | 68.0                         | 66.9                     | 113.9                      | 107.3                  | 98.0                       | 100                    | 60.1                       | 60.9                   | 98.0                     | 100.1                | 211.9                      | 207.4                  | 128.1                      | 127.8                  | 211.9                     | 207.4                 |
| 2016    | 117.4                        | 106                      | 73.0                         | 54.0                     | 117.4                      | 106.3                  | 92.5                       | 102                    | 66.0                       | 51.0                   | 92.5                     | 102.4                | 209.9                      | 208.7                  | 138.9                      | 105.0                  | 209.9                     | 208.7                 |
| 2017    |                              | 111                      | 69.8                         | 62.9                     | 0.0                        | 110.8                  |                            | 106                    | 56.9                       | 57.9                   | 0.0                      | 105.8                | 0.0                        | 216.6                  | 126.7                      | 120.8                  | 0.0                       | 216.6                 |
| 2018    |                              | 112                      |                              | 64.2                     |                            | 111.9                  |                            | 107                    |                            | 61.0                   |                          | 106.9                |                            | 218.8                  |                            | 125.2                  |                           | 218.8                 |
| 2019    |                              | 111                      |                              | 64.0                     |                            | 111.0                  |                            | 106                    |                            | 61.0                   |                          | 106.0                |                            | 217.0                  |                            | 125.0                  |                           | 217.0                 |
| 2020    |                              | 111                      |                              | 64.0                     |                            | 110.6                  |                            | 106                    |                            | 62.0                   |                          | 105.9                |                            | 216.5                  |                            | 126.0                  |                           | 216.5                 |
| 2021    |                              | 112                      |                              | 64.0                     |                            | 111.6                  |                            | 108                    |                            | 62.0                   |                          | 107.6                |                            | 219.3                  |                            | 126.0                  |                           | 219.3                 |
| 2022    |                              | 115                      |                              | 65.0                     |                            | 114.8                  |                            | 111                    |                            | 62.0                   |                          | 110.8                |                            | 225.6                  |                            | 127.0                  |                           | 225.6                 |
| 2023    |                              | 117                      |                              | 65.1                     |                            | 116.7                  |                            | 113                    |                            | 62.2                   |                          | 112.7                |                            | 229.5                  |                            | 127.3                  |                           | 229.5                 |
| 2024    |                              | 117                      |                              | 65.5                     |                            | 117.5                  |                            | 111                    |                            | 62.7                   |                          | 111.0                |                            | 228.4                  |                            | 128.2                  |                           | 228.4                 |
| 2025    |                              | 116                      |                              | 65.0                     |                            | 115.9                  |                            | 112                    |                            | 63.0                   |                          | 111.9                |                            | 227.8                  |                            | 128.0                  |                           | 227.8                 |
| 2026    |                              | 116                      |                              | 66.8                     |                            | 116.0                  |                            | 112                    |                            | 64.8                   |                          | 112.3                |                            | 228.3                  |                            | 131.6                  |                           | 228.3                 |
| 2027    |                              | 119                      |                              | 67.0                     |                            | 118.6                  |                            | 115                    |                            | 64.0                   |                          | 114.6                |                            | 233.2                  |                            | 131.0                  |                           | 233.2                 |
| 2028    |                              | 122                      |                              | 67.0                     |                            | 121.7                  |                            | 119                    |                            | 65.0                   |                          | 118.7                |                            | 240.5                  |                            | 132.0                  |                           | 240.5                 |
| 2029    |                              | 123                      |                              | 67.2                     |                            | 122.9                  |                            | 120                    |                            | 65.4                   |                          | 119.9                |                            | 242.8                  |                            | 132.6                  |                           | 242.8                 |
| 2030    |                              | 121                      |                              | 68.0                     |                            | 121.0                  |                            | 118                    |                            | 65.0                   |                          | 118.0                |                            | 239.0                  |                            | 133.0                  |                           | 239.0                 |
| 2031    |                              | 122                      |                              | 69.0                     |                            | 121.9                  |                            | 119                    |                            | 66.0                   |                          | 118.9                |                            | 240.8                  |                            | 134.9                  |                           | 240.8                 |
| 2032    |                              | 124                      |                              | 69.8                     |                            | 123.6                  |                            | 121                    |                            | 67.8                   |                          | 120.6                |                            | 244.2                  |                            | 137.6                  |                           | 244.2                 |
| 2033    |                              | 127                      |                              | 70.0                     |                            | 126.7                  |                            | 124                    |                            | 68.0                   |                          | 123.7                |                            | 250.4                  |                            | 138.0                  |                           | 250.4                 |
| 2034    |                              | 128                      |                              | 70.4                     |                            | 127.7                  |                            | 126                    |                            | 68.7                   |                          | 125.7                |                            | 253.4                  |                            | 139.1                  |                           | 253.4                 |
| 2035    |                              | 129                      |                              | 71.0                     |                            | 128.8                  |                            | 127                    |                            | 69.4                   |                          | 126.8                |                            | 255.7                  |                            | 140.4                  |                           | 255.7                 |
| 2036    |                              | 127                      |                              | 71.0                     |                            | 126.9                  |                            | 125                    |                            | 69.0                   |                          | 124.9                |                            | 251.8                  |                            | 139.9                  |                           | 251.8                 |
| 2037    |                              | 127                      |                              | 72.8                     |                            | 127.0                  |                            | 125                    |                            | 71.8                   |                          | 125.3                |                            | 252.4                  |                            | 144.7                  |                           | 252.4                 |
|         |                              |                          |                              |                          |                            |                        |                            |                        |                            |                        |                          |                      |                            |                        |                            |                        |                           |                       |
| '12-'17 | -100.0%                      | 0.2%                     | 1.8%                         | -1.1%                    | -100.0%                    | 0.2%                   | -100.0%                    | 6.7%                   | 2.3%                       | 1.8%                   | -100.0%                  | 6.7%                 | -100.0%                    | 3.0%                   | 2.0%                       | 0.2%                   | -100.0%                   | 3.0%                  |
| '15-'20 |                              | 0.6%                     |                              | -0.9%                    |                            | 0.6%                   |                            | 1.1%                   |                            | 0.4%                   |                          | 1.1%                 |                            | 0.9%                   |                            | -0.3%                  |                           | 0.9%                  |
| '20-'25 |                              | 0.9%                     |                              | 0.3%                     |                            | 0.9%                   |                            | 1.1%                   |                            | 0.3%                   |                          | 1.1%                 |                            | 1.0%                   |                            | 0.3%                   |                           | 1.0%                  |
| '25-'30 |                              | 0.9%                     |                              | 0.9%                     |                            | 0.9%                   |                            | 1.1%                   |                            | 0.6%                   |                          | 1.1%                 |                            | 1.0%                   |                            | 0.8%                   |                           | 1.0%                  |
| '30-'35 |                              | 1.3%                     |                              | 0.9%                     |                            | 1.3%                   |                            | 1.5%                   |                            | 1.3%                   |                          | 1.5%                 |                            | 1.4%                   |                            | 1.1%                   |                           | 1.4%                  |
| '17-'37 |                              | 0.7%                     |                              | 0.7%                     |                            | 0.7%                   |                            | 0.9%                   |                            | 1.1%                   |                          | 0.9%                 |                            | 0.8%                   |                            | 0.9%                   |                           | 0.8%                  |



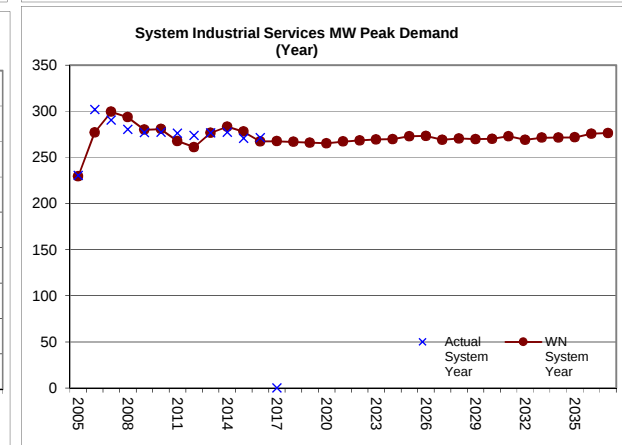
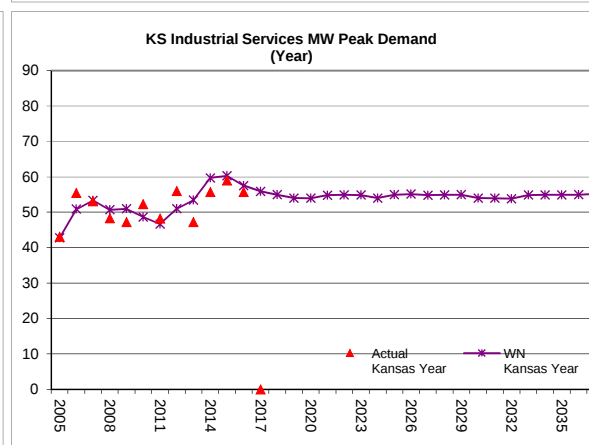
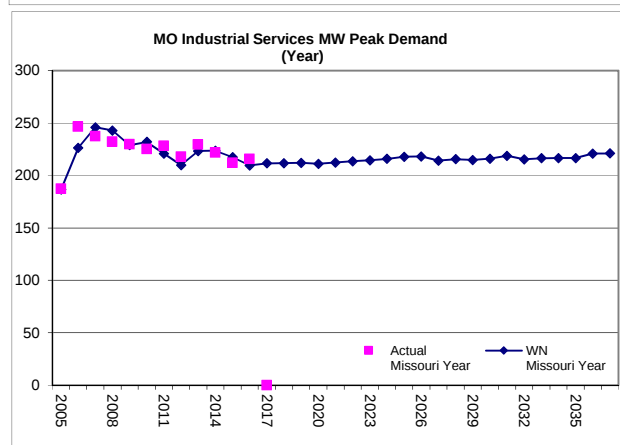
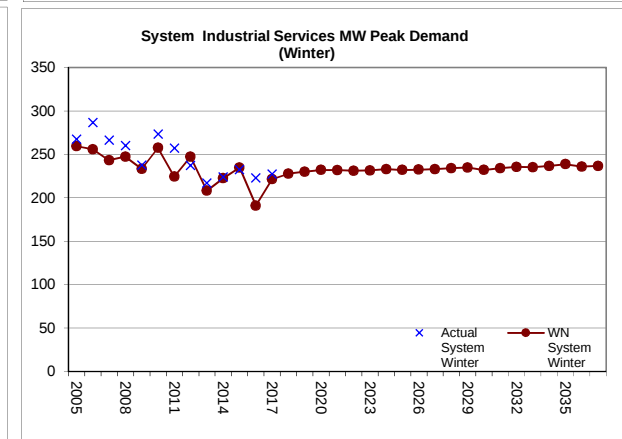
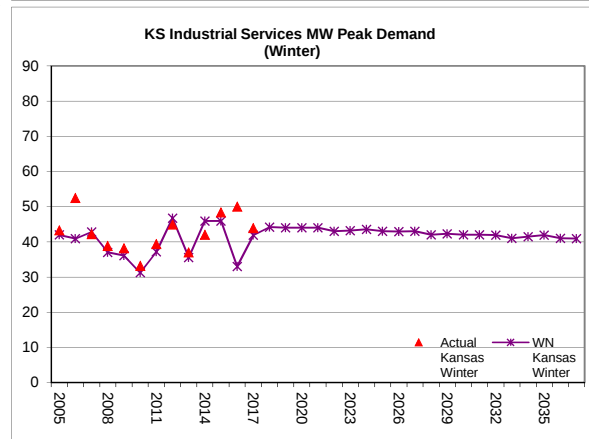
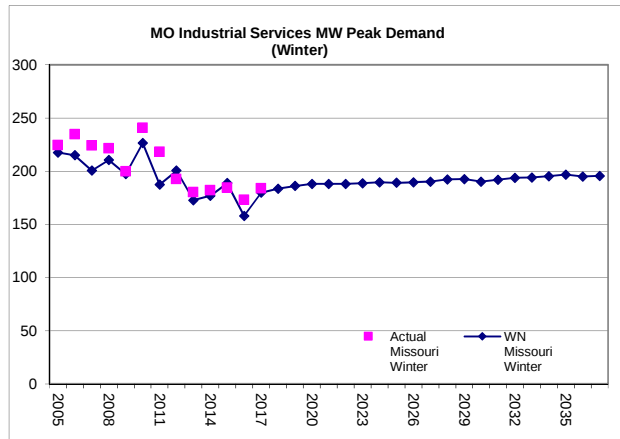
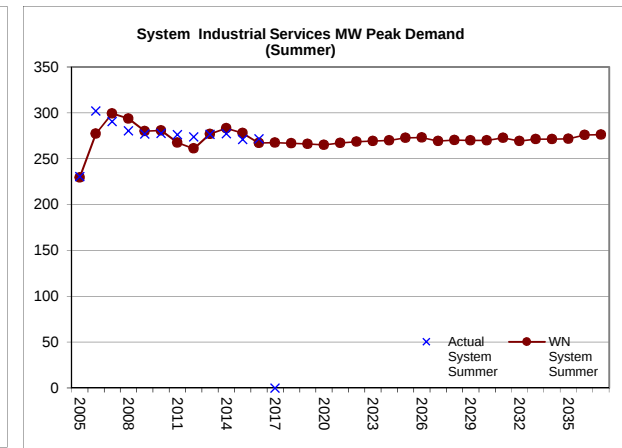
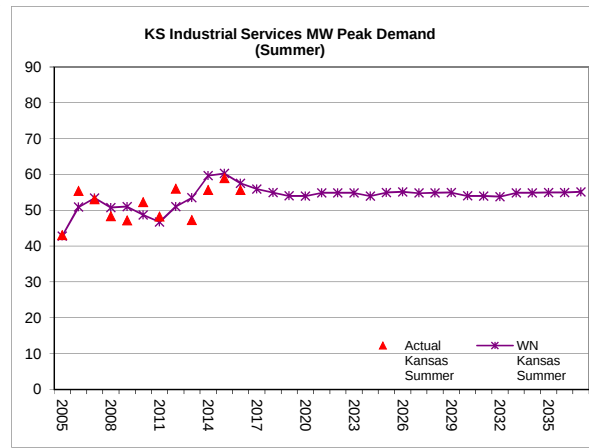
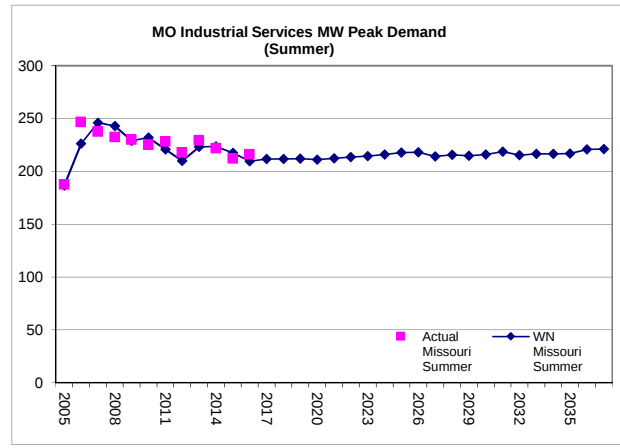
**Plot 3B-3 Missouri & Kansas Medium General Services MW Peak Demand  
(Actual vs. Weather Normalized)**

| Year    | Actual<br>Missouri<br>Summer | WN<br>Missouri<br>Summer | Actual<br>Missouri<br>Winter | WN<br>Missouri<br>Winter | Actual<br>Missouri<br>Year | WN<br>Missouri<br>Year | Actual<br>Kansas<br>Summer | WN<br>Kansas<br>Summer | Actual<br>Kansas<br>Winter | WN<br>Kansas<br>Winter | Actual<br>Kansas<br>Year | WN<br>Kansas<br>Year | Actual<br>System<br>Summer | WN<br>System<br>Summer | Actual<br>System<br>Winter | WN<br>System<br>Winter | Actual<br>System<br>Year | WN<br>System<br>Year |
|---------|------------------------------|--------------------------|------------------------------|--------------------------|----------------------------|------------------------|----------------------------|------------------------|----------------------------|------------------------|--------------------------|----------------------|----------------------------|------------------------|----------------------------|------------------------|--------------------------|----------------------|
| 2005    | 667.2                        | 653                      | 679.9                        | 644.7                    | 667.2                      | 652.5                  | 498.7                      | 496                    | 418.5                      | 405.7                  | 498.7                    | 496.4                | 1,165.9                    | 1,148.9                | 1,098.3                    | 1,050.4                | 1,165.9                  | 1,148.9              |
| 2006    | 770.7                        | 749                      | 571.8                        | 657.9                    | 770.7                      | 748.7                  | 582.4                      | 535                    | 388.8                      | 385.5                  | 582.4                    | 534.7                | 1,353.1                    | 1,283.4                | 960.6                      | 1,043.3                | 1,353.1                  | 1,283.4              |
| 2007    | 746.4                        | 756                      | 607.7                        | 521.5                    | 746.4                      | 756.1                  | 659.8                      | 548                    | 461.9                      | 419.2                  | 659.8                    | 548.1                | 1,406.2                    | 1,304.2                | 1,069.6                    | 940.7                  | 1,406.2                  | 1,304.2              |
| 2008    | 735.8                        | 755                      | 710.3                        | 671.8                    | 735.8                      | 755.2                  | 543.0                      | 551                    | 455.8                      | 433.6                  | 543.0                    | 551.0                | 1,278.8                    | 1,306.1                | 1,166.1                    | 1,105.4                | 1,278.8                  | 1,306.1              |
| 2009    | 750.3                        | 780                      | 592.8                        | 682.7                    | 750.3                      | 780.3                  | 544.7                      | 521                    | 489.3                      | 439.7                  | 544.7                    | 520.7                | 1,295.0                    | 1,301.0                | 1,082.1                    | 1,122.4                | 1,295.0                  | 1,301.0              |
| 2010    | 752.0                        | 762                      | 669.5                        | 630.7                    | 752.0                      | 762.4                  | 647.5                      | 576                    | 502.1                      | 473.0                  | 647.5                    | 575.7                | 1,399.5                    | 1,338.1                | 1,171.6                    | 1,103.6                | 1,399.5                  | 1,338.1              |
| 2011    | 776.4                        | 752                      | 671.2                        | 565.1                    | 776.4                      | 752.0                  | 597.5                      | 579                    | 500.5                      | 474.4                  | 597.5                    | 578.8                | 1,374.0                    | 1,330.8                | 1,171.7                    | 1,039.4                | 1,374.0                  | 1,330.8              |
| 2012    | 723.7                        | 684                      | 548.3                        | 570.8                    | 723.7                      | 683.7                  | 574.7                      | 523                    | 446.9                      | 465.2                  | 574.7                    | 523.0                | 1,298.4                    | 1,206.7                | 995.2                      | 1,036.0                | 1,298.4                  | 1,206.7              |
| 2013    | 725.9                        | 714                      | 526.2                        | 504.8                    | 725.9                      | 713.9                  | 513.0                      | 583                    | 418.1                      | 401.0                  | 513.0                    | 583.3                | 1,238.9                    | 1,297.2                | 944.3                      | 905.8                  | 1,238.9                  | 1,297.2              |
| 2014    | 701.4                        | 695                      | 539.4                        | 587.1                    | 701.4                      | 695.3                  | 547.8                      | 581                    | 458.0                      | 510.8                  | 547.8                    | 580.8                | 1,249.1                    | 1,276.1                | 997.4                      | 1,098.0                | 1,249.1                  | 1,276.1              |
| 2015    | 670.9                        | 690                      | 543.0                        | 601.1                    | 670.9                      | 689.6                  | 578.7                      | 592                    | 520.5                      | 509.1                  | 578.7                    | 591.6                | 1,249.6                    | 1,281.2                | 1,063.4                    | 1,110.2                | 1,249.6                  | 1,281.2              |
| 2016    | 676.0                        | 661                      | 547.2                        | 437.8                    | 676.0                      | 660.9                  | 566.9                      | 580                    | 460.8                      | 336.8                  | 566.9                    | 580.4                | 1,242.9                    | 1,241.3                | 1,008.0                    | 774.6                  | 1,242.9                  | 1,241.3              |
| 2017    |                              | 671                      | 558.4                        | 554.2                    | 0.0                        | 671.2                  |                            | 575                    | 445.9                      | 451.1                  | 0.0                      | 574.9                | 0.0                        | 1,246.1                | 1,004.3                    | 1,005.3                | 0.0                      | 1,246.1              |
| 2018    |                              | 669                      |                              | 566.2                    |                            | 669.4                  |                            | 575                    |                            | 475.5                  |                          | 574.5                |                            | 1,243.9                |                            | 1,041.7                |                          | 1,243.9              |
| 2019    |                              | 665                      |                              | 567.7                    |                            | 664.6                  |                            | 569                    |                            | 482.9                  |                          | 569.1                |                            | 1,233.6                |                            | 1,050.6                |                          | 1,233.6              |
| 2020    |                              | 662                      |                              | 568.5                    |                            | 661.8                  |                            | 569                    |                            | 486.0                  |                          | 568.6                |                            | 1,230.4                |                            | 1,054.4                |                          | 1,230.4              |
| 2021    |                              | 666                      |                              | 564.0                    |                            | 666.4                  |                            | 576                    |                            | 482.8                  |                          | 576.1                |                            | 1,242.5                |                            | 1,046.9                |                          | 1,242.5              |
| 2022    |                              | 669                      |                              | 559.0                    |                            | 669.5                  |                            | 583                    |                            | 477.8                  |                          | 582.9                |                            | 1,252.4                |                            | 1,036.8                |                          | 1,252.4              |
| 2023    |                              | 671                      |                              | 560.3                    |                            | 670.7                  |                            | 585                    |                            | 479.6                  |                          | 584.6                |                            | 1,255.4                |                            | 1,040.0                |                          | 1,255.4              |
| 2024    |                              | 675                      |                              | 563.5                    |                            | 674.9                  |                            | 577                    |                            | 483.4                  |                          | 576.8                |                            | 1,251.7                |                            | 1,046.9                |                          | 1,251.7              |
| 2025    |                              | 671                      |                              | 562.6                    |                            | 670.6                  |                            | 585                    |                            | 487.9                  |                          | 585.5                |                            | 1,256.1                |                            | 1,050.6                |                          | 1,256.1              |
| 2026    |                              | 671                      |                              | 561.4                    |                            | 671.3                  |                            | 588                    |                            | 487.6                  |                          | 587.5                |                            | 1,258.8                |                            | 1,049.0                |                          | 1,258.8              |
| 2027    |                              | 671                      |                              | 565.6                    |                            | 671.3                  |                            | 591                    |                            | 492.9                  |                          | 590.9                |                            | 1,262.2                |                            | 1,058.5                |                          | 1,262.2              |
| 2028    |                              | 678                      |                              | 566.0                    |                            | 678.4                  |                            | 600                    |                            | 492.1                  |                          | 599.7                |                            | 1,278.1                |                            | 1,058.1                |                          | 1,278.1              |
| 2029    |                              | 677                      |                              | 567.3                    |                            | 676.7                  |                            | 599                    |                            | 495.0                  |                          | 599.5                |                            | 1,276.2                |                            | 1,062.2                |                          | 1,276.2              |
| 2030    |                              | 672                      |                              | 569.5                    |                            | 671.7                  |                            | 593                    |                            | 500.0                  |                          | 593.1                |                            | 1,264.7                |                            | 1,069.4                |                          | 1,264.7              |
| 2031    |                              | 679                      |                              | 573.2                    |                            | 679.5                  |                            | 603                    |                            | 505.8                  |                          | 602.5                |                            | 1,282.0                |                            | 1,079.0                |                          | 1,282.0              |
| 2032    |                              | 680                      |                              | 575.2                    |                            | 679.9                  |                            | 607                    |                            | 507.7                  |                          | 607.0                |                            | 1,286.9                |                            | 1,082.8                |                          | 1,286.9              |
| 2033    |                              | 683                      |                              | 573.3                    |                            | 683.4                  |                            | 614                    |                            | 505.0                  |                          | 613.5                |                            | 1,296.9                |                            | 1,078.3                |                          | 1,296.9              |
| 2034    |                              | 687                      |                              | 576.5                    |                            | 686.7                  |                            | 617                    |                            | 510.0                  |                          | 616.6                |                            | 1,303.4                |                            | 1,086.5                |                          | 1,303.4              |
| 2035    |                              | 687                      |                              | 581.3                    |                            | 686.7                  |                            | 618                    |                            | 515.7                  |                          | 618.3                |                            | 1,304.9                |                            | 1,097.0                |                          | 1,304.9              |
| 2036    |                              | 692                      |                              | 586.2                    |                            | 691.6                  |                            | 621                    |                            | 523.8                  |                          | 621.5                |                            | 1,313.1                |                            | 1,110.0                |                          | 1,313.1              |
| 2037    |                              | 692                      |                              | 588.0                    |                            | 692.5                  |                            | 624                    |                            | 525.7                  |                          | 623.7                |                            | 1,316.2                |                            | 1,113.8                |                          | 1,316.2              |
| '12-'17 | -100.0%                      | -0.4%                    | 0.4%                         | -0.6%                    | -100.0%                    | -0.4%                  | -100.0%                    | 1.9%                   | 0.0%                       | -0.6%                  | -100.0%                  | 1.9%                 | -100.0%                    | 0.6%                   | 0.2%                       | -0.6%                  | -100.0%                  | 0.6%                 |
| '15-'20 |                              | -0.8%                    |                              | -1.1%                    |                            | -0.8%                  |                            | -0.8%                  |                            | -0.9%                  |                          | -0.8%                |                            | -0.8%                  |                            | -1.0%                  |                          | -0.8%                |
| '20-'25 |                              | 0.3%                     |                              | -0.2%                    |                            | 0.3%                   |                            | 0.6%                   |                            | 0.1%                   |                          | 0.6%                 |                            | 0.4%                   |                            | -0.1%                  |                          | 0.4%                 |
| '25-'30 |                              | 0.0%                     |                              | 0.2%                     |                            | 0.0%                   |                            | 0.3%                   |                            | 0.5%                   |                          | 0.3%                 |                            | 0.1%                   |                            | 0.4%                   |                          | 0.1%                 |
| '30-'35 |                              | 0.4%                     |                              | 0.4%                     |                            | 0.4%                   |                            | 0.8%                   |                            | 0.6%                   |                          | 0.8%                 |                            | 0.6%                   |                            | 0.5%                   |                          | 0.6%                 |
| '17-'37 |                              | 0.2%                     |                              | 0.3%                     |                            | 0.2%                   |                            | 0.4%                   |                            | 0.8%                   |                          | 0.4%                 |                            | 0.3%                   |                            | 0.5%                   |                          | 0.3%                 |



**Plot 3B-4 Missouri & Kansas Large General Services MW Peak Demand  
(Actual vs. Weather Normalized)**

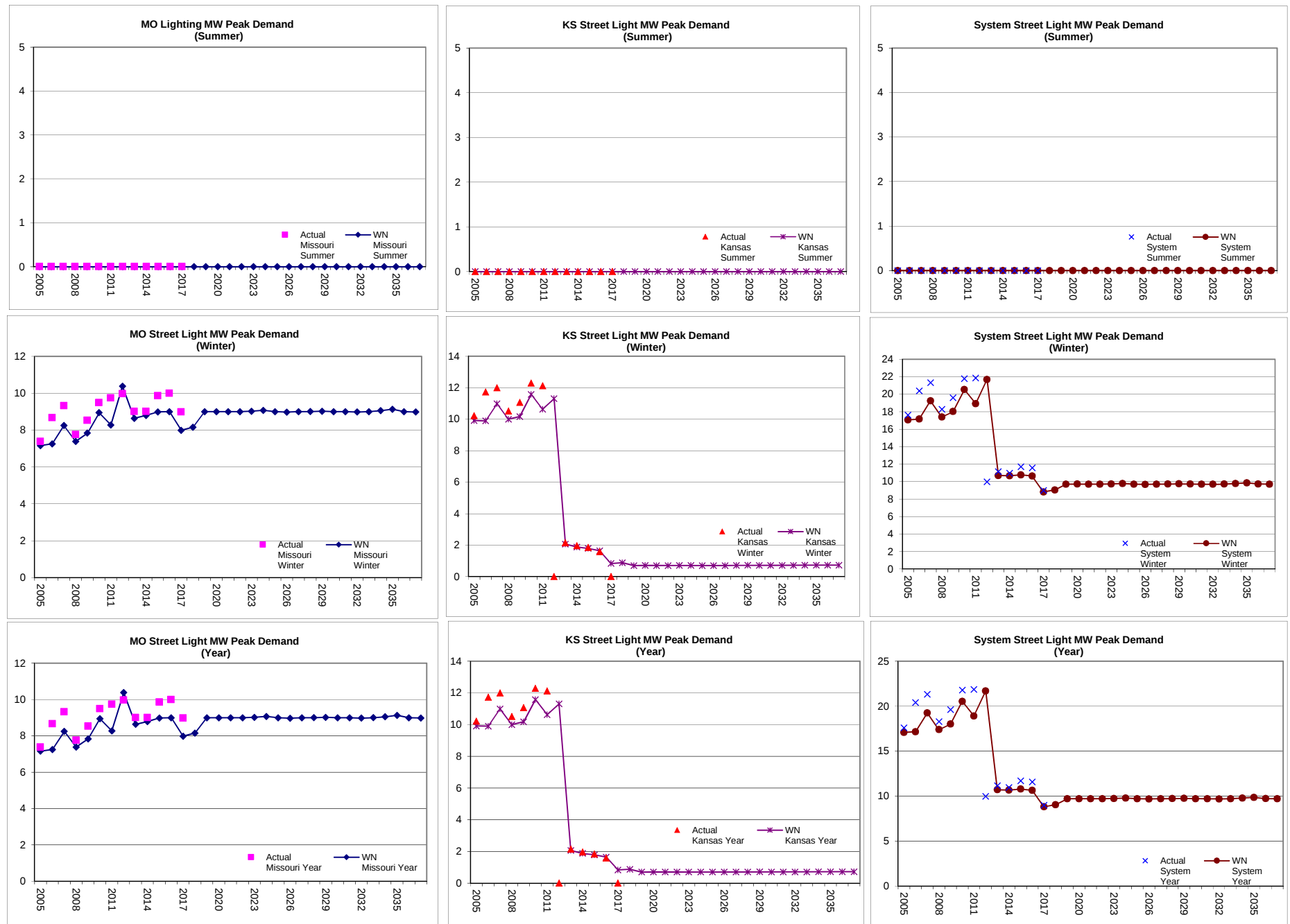
|         | Actual<br>Missouri<br>Summer | WN<br>Missouri<br>Summer | Actual<br>Missouri<br>Winter | WN<br>Missouri<br>Winter | Actual<br>Missouri<br>Year | WN<br>Missouri<br>Year | Actual<br>Kansas<br>Summer | WN<br>Kansas<br>Summer | Actual<br>Kansas<br>Winter | WN<br>Kansas<br>Winter | Actual<br>Kansas<br>Year | WN<br>Kansas<br>Year | Actual<br>System<br>Summer | WN<br>System<br>Summer | Actual<br>System<br>Winter | WN<br>System<br>Winter | Actual<br>System<br>Year | WN<br>System<br>Year |
|---------|------------------------------|--------------------------|------------------------------|--------------------------|----------------------------|------------------------|----------------------------|------------------------|----------------------------|------------------------|--------------------------|----------------------|----------------------------|------------------------|----------------------------|------------------------|--------------------------|----------------------|
| 2005    | 187.4                        | 186.6                    | 224.2                        | 217.4                    | 187.4                      | 186.6                  | 43.0                       | 42.8                   | 43.2                       | 41.9                   | 43.0                     | 42.8                 | 230.5                      | 229.4                  | 267.5                      | 259.3                  | 230.5                    | 229.4                |
| 2006    | 246.5                        | 226.3                    | 234.4                        | 214.8                    | 246.5                      | 226.3                  | 55.4                       | 50.9                   | 52.4                       | 40.9                   | 55.4                     | 50.9                 | 301.9                      | 277.2                  | 286.8                      | 255.7                  | 301.9                    | 277.2                |
| 2007    | 237.3                        | 246.0                    | 224.0                        | 200.5                    | 237.3                      | 246.0                  | 53.1                       | 53.4                   | 42.2                       | 42.8                   | 53.1                     | 53.4                 | 290.4                      | 299.4                  | 266.2                      | 243.3                  | 290.4                    | 299.4                |
| 2008    | 232.2                        | 242.8                    | 221.2                        | 210.4                    | 232.2                      | 242.8                  | 48.3                       | 50.7                   | 38.8                       | 36.9                   | 48.3                     | 50.7                 | 280.5                      | 293.5                  | 260.0                      | 247.3                  | 280.5                    | 293.5                |
| 2009    | 229.8                        | 229.0                    | 199.5                        | 197.2                    | 229.8                      | 229.0                  | 47.2                       | 51.0                   | 38.1                       | 36.1                   | 47.2                     | 51.0                 | 277.0                      | 280.0                  | 237.6                      | 233.3                  | 277.0                    | 280.0                |
| 2010    | 225.2                        | 232.0                    | 240.4                        | 226.5                    | 225.2                      | 232.0                  | 52.2                       | 48.7                   | 33.1                       | 31.2                   | 52.2                     | 48.7                 | 277.4                      | 280.7                  | 273.5                      | 257.7                  | 277.4                    | 280.7                |
| 2011    | 228.1                        | 220.9                    | 218.0                        | 187.3                    | 228.1                      | 220.9                  | 48.2                       | 46.7                   | 39.3                       | 37.2                   | 48.2                     | 46.7                 | 276.3                      | 267.6                  | 257.3                      | 224.4                  | 276.3                    | 267.6                |
| 2012    | 217.9                        | 210.0                    | 192.5                        | 200.4                    | 217.9                      | 210.0                  | 56.0                       | 51.0                   | 44.9                       | 46.7                   | 56.0                     | 51.0                 | 273.9                      | 261.0                  | 237.4                      | 247.1                  | 273.9                    | 261.0                |
| 2013    | 229.4                        | 223.2                    | 180.0                        | 172.7                    | 229.4                      | 223.2                  | 47.3                       | 53.5                   | 37.0                       | 35.5                   | 47.3                     | 53.5                 | 276.7                      | 276.7                  | 217.0                      | 208.2                  | 276.7                    | 276.7                |
| 2014    | 221.7                        | 223.6                    | 182.0                        | 176.8                    | 221.7                      | 223.6                  | 55.7                       | 59.7                   | 42.0                       | 45.9                   | 55.7                     | 59.7                 | 277.4                      | 283.3                  | 224.0                      | 222.7                  | 277.4                    | 283.3                |
| 2015    | 211.9                        | 217.6                    | 184.3                        | 188.7                    | 211.9                      | 217.6                  | 59.0                       | 60.3                   | 48.3                       | 45.9                   | 59.0                     | 60.3                 | 270.9                      | 277.9                  | 232.6                      | 234.6                  | 270.9                    | 277.9                |
| 2016    | 215.8                        | 209.7                    | 172.9                        | 157.9                    | 215.8                      | 209.7                  | 55.7                       | 57.6                   | 50.0                       | 33.0                   | 55.7                     | 57.6                 | 271.5                      | 267.3                  | 222.9                      | 190.9                  | 271.5                    | 267.3                |
| 2017    |                              | 211.6                    | 183.6                        | 179.6                    | 0.0                        | 211.6                  |                            | 55.9                   | 43.9                       | 41.9                   | 0.0                      | 55.9                 | 0.0                        | 267.5                  | 227.5                      | 221.5                  | 0.0                      | 267.5                |
| 2018    |                              | 211.8                    |                              | 183.5                    |                            | 211.8                  |                            | 55.0                   |                            | 44.2                   |                          | 55.0                 |                            | 266.8                  |                            | 227.7                  |                          | 266.8                |
| 2019    |                              | 212.0                    |                              | 186.0                    |                            | 212.0                  |                            | 54.0                   |                            | 44.0                   |                          | 54.0                 |                            | 266.0                  |                            | 230.0                  |                          | 266.0                |
| 2020    |                              | 211.2                    |                              | 188.0                    |                            | 211.2                  |                            | 54.0                   |                            | 44.0                   |                          | 54.0                 |                            | 265.1                  |                            | 232.0                  |                          | 265.1                |
| 2021    |                              | 212.3                    |                              | 187.9                    |                            | 212.3                  |                            | 54.8                   |                            | 44.0                   |                          | 54.8                 |                            | 267.1                  |                            | 231.9                  |                          | 267.1                |
| 2022    |                              | 213.6                    |                              | 187.9                    |                            | 213.6                  |                            | 54.9                   |                            | 43.0                   |                          | 54.9                 |                            | 268.5                  |                            | 230.9                  |                          | 268.5                |
| 2023    |                              | 214.5                    |                              | 188.4                    |                            | 214.5                  |                            | 54.9                   |                            | 43.1                   |                          | 54.9                 |                            | 269.4                  |                            | 231.5                  |                          | 269.4                |
| 2024    |                              | 215.8                    |                              | 189.5                    |                            | 215.8                  |                            | 54.0                   |                            | 43.5                   |                          | 54.0                 |                            | 269.8                  |                            | 232.9                  |                          | 269.8                |
| 2025    |                              | 217.8                    |                              | 189.0                    |                            | 217.8                  |                            | 55.0                   |                            | 43.0                   |                          | 55.0                 |                            | 272.8                  |                            | 232.0                  |                          | 272.8                |
| 2026    |                              | 218.0                    |                              | 189.5                    |                            | 218.0                  |                            | 55.1                   |                            | 42.9                   |                          | 55.1                 |                            | 273.2                  |                            | 232.3                  |                          | 273.2                |
| 2027    |                              | 214.2                    |                              | 190.0                    |                            | 214.2                  |                            | 54.8                   |                            | 43.0                   |                          | 54.8                 |                            | 269.1                  |                            | 233.0                  |                          | 269.1                |
| 2028    |                              | 215.5                    |                              | 192.0                    |                            | 215.5                  |                            | 54.9                   |                            | 42.0                   |                          | 54.9                 |                            | 270.4                  |                            | 234.0                  |                          | 270.4                |
| 2029    |                              | 214.8                    |                              | 192.5                    |                            | 214.8                  |                            | 55.0                   |                            | 42.3                   |                          | 55.0                 |                            | 269.8                  |                            | 234.7                  |                          | 269.8                |
| 2030    |                              | 216.0                    |                              | 190.0                    |                            | 216.0                  |                            | 54.0                   |                            | 42.0                   |                          | 54.0                 |                            | 270.0                  |                            | 232.0                  |                          | 270.0                |
| 2031    |                              | 218.8                    |                              | 191.9                    |                            | 218.8                  |                            | 54.0                   |                            | 42.0                   |                          | 54.0                 |                            | 272.8                  |                            | 233.9                  |                          | 272.8                |
| 2032    |                              | 215.3                    |                              | 193.5                    |                            | 215.3                  |                            | 53.8                   |                            | 41.9                   |                          | 53.8                 |                            | 269.1                  |                            | 235.4                  |                          | 269.1                |
| 2033    |                              | 216.5                    |                              | 194.0                    |                            | 216.5                  |                            | 54.9                   |                            | 41.0                   |                          | 54.9                 |                            | 271.3                  |                            | 235.0                  |                          | 271.3                |
| 2034    |                              | 216.5                    |                              | 195.1                    |                            | 216.5                  |                            | 54.9                   |                            | 41.4                   |                          | 54.9                 |                            | 271.4                  |                            | 236.5                  |                          | 271.4                |
| 2035    |                              | 216.7                    |                              | 196.7                    |                            | 216.7                  |                            | 54.9                   |                            | 41.9                   |                          | 54.9                 |                            | 271.7                  |                            | 238.6                  |                          | 271.7                |
| 2036    |                              | 220.8                    |                              | 194.9                    |                            | 220.8                  |                            | 55.0                   |                            | 41.0                   |                          | 55.0                 |                            | 275.8                  |                            | 235.9                  |                          | 275.8                |
| 2037    |                              | 221.1                    |                              | 195.5                    |                            | 221.1                  |                            | 55.2                   |                            | 40.9                   |                          | 55.2                 |                            | 276.2                  |                            | 236.4                  |                          | 276.2                |
|         |                              |                          |                              |                          |                            |                        |                            |                        |                            |                        |                          |                      |                            |                        |                            |                        |                          |                      |
| '12-'17 | -100.0%                      | 0.2%                     | -0.9%                        | -2.2%                    | -100.0%                    | 0.2%                   | -100.0%                    | 1.8%                   | -0.4%                      | -2.2%                  | -100.0%                  | 1.8%                 | -100.0%                    | 0.5%                   | -0.9%                      | -2.2%                  | -100.0%                  | 0.5%                 |
| '15-'20 |                              | -0.6%                    |                              | -0.1%                    |                            | -0.6%                  |                            | -2.2%                  |                            | -0.9%                  |                          | -2.2%                |                            | -0.9%                  |                            | -0.2%                  |                          | -0.9%                |
| '20-'25 |                              | 0.6%                     |                              | 0.1%                     |                            | 0.6%                   |                            | 0.4%                   |                            | -0.5%                  |                          | 0.4%                 |                            | 0.6%                   |                            | 0.0%                   |                          | 0.6%                 |
| '25-'30 |                              | -0.2%                    |                              | 0.1%                     |                            | -0.2%                  |                            | -0.3%                  |                            | -0.5%                  |                          | -0.3%                |                            | -0.2%                  |                            | 0.0%                   |                          | -0.2%                |
| '30-'35 |                              | 0.1%                     |                              | 0.7%                     |                            | 0.1%                   |                            | 0.3%                   |                            | -0.1%                  |                          | 0.3%                 |                            | 0.1%                   |                            | 0.6%                   |                          | 0.1%                 |
| '17-'37 |                              | 0.2%                     |                              | 0.4%                     |                            | 0.2%                   |                            | -0.1%                  |                            | -0.1%                  |                          | -0.1%                |                            | 0.2%                   |                            | 0.3%                   |                          | 0.2%                 |



**Plot 3B-6 Missouri & Kansas Street Lights and Traffic Signals MW Peak Demand  
(Actual vs. Weather Normalized)**

| Year    | Actual<br>Missouri<br>Summer | WN<br>Missouri<br>Summer | Actual<br>Missouri<br>Winter | WN<br>Missouri<br>Winter | Actual<br>Missouri<br>Year | WN<br>Missouri<br>Year | Actual<br>Kansas<br>Summer | WN<br>Kansas<br>Summer | Actual<br>Kansas<br>Winter | WN<br>Kansas<br>Winter | Actual<br>Kansas<br>Year | WN<br>Kansas<br>Year | Actual<br>System<br>Summer | WN<br>System<br>Summer | Actual<br>System<br>Winter | WN<br>System<br>Winter | Actual<br>System<br>Year | WN<br>System<br>Year |
|---------|------------------------------|--------------------------|------------------------------|--------------------------|----------------------------|------------------------|----------------------------|------------------------|----------------------------|------------------------|--------------------------|----------------------|----------------------------|------------------------|----------------------------|------------------------|--------------------------|----------------------|
| 2005    | 0.0                          | 0.0                      | 7.4                          | 7.2                      | 7.4                        | 7.2                    | 0.0                        | 0.0                    | 10.2                       | 9.9                    | 10.2                     | 9.9                  | 0.0                        | 0.0                    | 17.6                       | 17.1                   | 17.6                     | 17.1                 |
| 2006    | 0.0                          | 0.0                      | 8.7                          | 7.3                      | 8.7                        | 7.3                    | 0.0                        | 0.0                    | 11.7                       | 9.9                    | 11.7                     | 9.9                  | 0.0                        | 0.0                    | 20.4                       | 17.1                   | 20.4                     | 17.1                 |
| 2007    | 0.0                          | 0.0                      | 9.3                          | 8.2                      | 9.3                        | 8.2                    | 0.0                        | 0.0                    | 12.0                       | 11.0                   | 12.0                     | 11.0                 | 0.0                        | 0.0                    | 21.3                       | 19.2                   | 21.3                     | 19.2                 |
| 2008    | 0.0                          | 0.0                      | 7.8                          | 7.4                      | 7.8                        | 7.4                    | 0.0                        | 0.0                    | 10.5                       | 10.0                   | 10.5                     | 10.0                 | 0.0                        | 0.0                    | 18.3                       | 17.4                   | 18.3                     | 17.4                 |
| 2009    | 0.0                          | 0.0                      | 8.5                          | 7.8                      | 8.5                        | 7.8                    | 0.0                        | 0.0                    | 11.1                       | 10.2                   | 11.1                     | 10.2                 | 0.0                        | 0.0                    | 19.6                       | 18.0                   | 19.6                     | 18.0                 |
| 2010    | 0.0                          | 0.0                      | 9.5                          | 8.9                      | 9.5                        | 8.9                    | 0.0                        | 0.0                    | 12.3                       | 11.6                   | 12.3                     | 11.6                 | 0.0                        | 0.0                    | 21.8                       | 20.5                   | 21.8                     | 20.5                 |
| 2011    | 0.0                          | 0.0                      | 9.7                          | 8.3                      | 9.7                        | 8.3                    | 0.0                        | 0.0                    | 12.1                       | 10.6                   | 12.1                     | 10.6                 | 0.0                        | 0.0                    | 21.9                       | 18.9                   | 21.9                     | 18.9                 |
| 2012    | 0.0                          | 0.0                      | 10.0                         | 10.4                     | 10.0                       | 10.4                   | 0.0                        | 0.0                    | 0.0                        | 11.3                   | 0.0                      | 11.3                 | 0.0                        | 0.0                    | 10.0                       | 21.7                   | 10.0                     | 21.7                 |
| 2013    | 0.0                          | 0.0                      | 9.0                          | 8.6                      | 9.0                        | 8.6                    | 0.0                        | 0.0                    | 2.2                        | 2.1                    | 2.2                      | 2.1                  | 0.0                        | 0.0                    | 11.2                       | 10.7                   | 11.2                     | 10.7                 |
| 2014    | 0.0                          | 0.0                      | 9.0                          | 8.8                      | 9.0                        | 8.8                    | 0.0                        | 0.0                    | 2.0                        | 1.9                    | 2.0                      | 1.9                  | 0.0                        | 0.0                    | 11.0                       | 10.7                   | 11.0                     | 10.7                 |
| 2015    | 0.0                          | 0.0                      | 9.9                          | 9.0                      | 9.9                        | 9.0                    | 0.0                        | 0.0                    | 1.8                        | 1.8                    | 1.8                      | 1.8                  | 0.0                        | 0.0                    | 11.7                       | 10.8                   | 11.7                     | 10.8                 |
| 2016    | 0.0                          | 0.0                      | 10.0                         | 9.0                      | 10.0                       | 9.0                    | 0.0                        | 0.0                    | 1.6                        | 1.6                    | 1.6                      | 1.6                  | 0.0                        | 0.0                    | 11.6                       | 10.6                   | 11.6                     | 10.6                 |
| 2017    | 0.0                          | 0.0                      | 9.0                          | 8.0                      | 9.0                        | 8.0                    | 0.0                        | 0.0                    | 0.0                        | 0.8                    | 0.0                      | 0.8                  | 0.0                        | 0.0                    | 9.0                        | 8.8                    | 9.0                      | 8.8                  |
| 2018    |                              | 0.0                      |                              | 8.2                      |                            | 8.2                    |                            | 0.0                    |                            | 0.9                    |                          | 0.9                  |                            | 0.0                    |                            | 9.0                    |                          | 9.0                  |
| 2019    |                              | 0.0                      |                              | 9.0                      |                            | 9.0                    |                            | 0.0                    |                            | 0.7                    |                          | 0.7                  |                            | 0.0                    |                            | 9.7                    |                          | 9.7                  |
| 2020    |                              | 0.0                      |                              | 9.0                      |                            | 9.0                    |                            | 0.0                    |                            | 0.7                    |                          | 0.7                  |                            | 0.0                    |                            | 9.7                    |                          | 9.7                  |
| 2021    |                              | 0.0                      |                              | 9.0                      |                            | 9.0                    |                            | 0.0                    |                            | 0.7                    |                          | 0.7                  |                            | 0.0                    |                            | 9.7                    |                          | 9.7                  |
| 2022    |                              | 0.0                      |                              | 9.0                      |                            | 9.0                    |                            | 0.0                    |                            | 0.7                    |                          | 0.7                  |                            | 0.0                    |                            | 9.7                    |                          | 9.7                  |
| 2023    |                              | 0.0                      |                              | 9.0                      |                            | 9.0                    |                            | 0.0                    |                            | 0.7                    |                          | 0.7                  |                            | 0.0                    |                            | 9.7                    |                          | 9.7                  |
| 2024    |                              | 0.0                      |                              | 9.1                      |                            | 9.1                    |                            | 0.0                    |                            | 0.7                    |                          | 0.7                  |                            | 0.0                    |                            | 9.8                    |                          | 9.8                  |
| 2025    |                              | 0.0                      |                              | 9.0                      |                            | 9.0                    |                            | 0.0                    |                            | 0.7                    |                          | 0.7                  |                            | 0.0                    |                            | 9.7                    |                          | 9.7                  |
| 2026    |                              | 0.0                      |                              | 9.0                      |                            | 9.0                    |                            | 0.0                    |                            | 0.7                    |                          | 0.7                  |                            | 0.0                    |                            | 9.7                    |                          | 9.7                  |
| 2027    |                              | 0.0                      |                              | 9.0                      |                            | 9.0                    |                            | 0.0                    |                            | 0.7                    |                          | 0.7                  |                            | 0.0                    |                            | 9.7                    |                          | 9.7                  |
| 2028    |                              | 0.0                      |                              | 9.0                      |                            | 9.0                    |                            | 0.0                    |                            | 0.7                    |                          | 0.7                  |                            | 0.0                    |                            | 9.7                    |                          | 9.7                  |
| 2029    |                              | 0.0                      |                              | 9.0                      |                            | 9.0                    |                            | 0.0                    |                            | 0.7                    |                          | 0.7                  |                            | 0.0                    |                            | 9.7                    |                          | 9.7                  |
| 2030    |                              | 0.0                      |                              | 9.0                      |                            | 9.0                    |                            | 0.0                    |                            | 0.7                    |                          | 0.7                  |                            | 0.0                    |                            | 9.7                    |                          | 9.7                  |
| 2031    |                              | 0.0                      |                              | 9.0                      |                            | 9.0                    |                            | 0.0                    |                            | 0.7                    |                          | 0.7                  |                            | 0.0                    |                            | 9.7                    |                          | 9.7                  |
| 2032    |                              | 0.0                      |                              | 9.0                      |                            | 9.0                    |                            | 0.0                    |                            | 0.7                    |                          | 0.7                  |                            | 0.0                    |                            | 9.7                    |                          | 9.7                  |
| 2033    |                              | 0.0                      |                              | 9.0                      |                            | 9.0                    |                            | 0.0                    |                            | 0.7                    |                          | 0.7                  |                            | 0.0                    |                            | 9.7                    |                          | 9.7                  |
| 2034    |                              | 0.0                      |                              | 9.0                      |                            | 9.0                    |                            | 0.0                    |                            | 0.7                    |                          | 0.7                  |                            | 0.0                    |                            | 9.8                    |                          | 9.8                  |
| 2035    |                              | 0.0                      |                              | 9.1                      |                            | 9.1                    |                            | 0.0                    |                            | 0.7                    |                          | 0.7                  |                            | 0.0                    |                            | 9.9                    |                          | 9.9                  |
| 2036    |                              | 0.0                      |                              | 9.0                      |                            | 9.0                    |                            | 0.0                    |                            | 0.7                    |                          | 0.7                  |                            | 0.0                    |                            | 9.7                    |                          | 9.7                  |
| 2037    |                              | 0.0                      |                              | 9.0                      |                            | 9.0                    |                            | 0.0                    |                            | 0.7                    |                          | 0.7                  |                            | 0.0                    |                            | 9.7                    |                          | 9.7                  |
|         |                              |                          |                              |                          |                            |                        |                            |                        |                            |                        |                          |                      |                            |                        |                            |                        |                          |                      |
| '12-'17 | 0.0%                         | 0.0%                     | -2.1%                        | -5.1%                    | -2.1%                      | -5.1%                  | 0.0%                       | 0.0%                   | #DIV/0!                    | -40.7%                 | #DIV/0!                  | -40.7%               | 0.0%                       | 0.0%                   | -2.1%                      | -16.5%                 | -2.1%                    | -16.5%               |
| '15-'20 |                              | 0.0%                     |                              | 0.0%                     |                            | 0.0%                   |                            | 0.0%                   |                            | -16.9%                 |                          | -16.9%               |                            | 0.0%                   |                            | -2.1%                  |                          | -2.1%                |
| '20-'25 |                              | 0.0%                     |                              | 0.0%                     |                            | 0.0%                   |                            | 0.0%                   |                            | -0.3%                  |                          | -0.3%                |                            | 0.0%                   |                            | 0.0%                   |                          | 0.0%                 |
| '25-'30 |                              | 0.0%                     |                              | 0.0%                     |                            | 0.0%                   |                            | 0.0%                   |                            | 0.3%                   |                          | 0.3%                 |                            | 0.0%                   |                            | 0.0%                   |                          | 0.0%                 |
| '30-'35 |                              | 0.0%                     |                              | 0.3%                     |                            | 0.3%                   |                            | 0.0%                   |                            | 0.4%                   |                          | 0.4%                 |                            | 0.0%                   |                            | 0.3%                   |                          | 0.3%                 |
| '17-'37 |                              | 0.0%                     |                              | 0.6%                     |                            | 0.6%                   |                            | 0.0%                   |                            | -0.7%                  |                          | -0.7%                |                            | 0.0%                   |                            | 0.5%                   |                          | 0.5%                 |

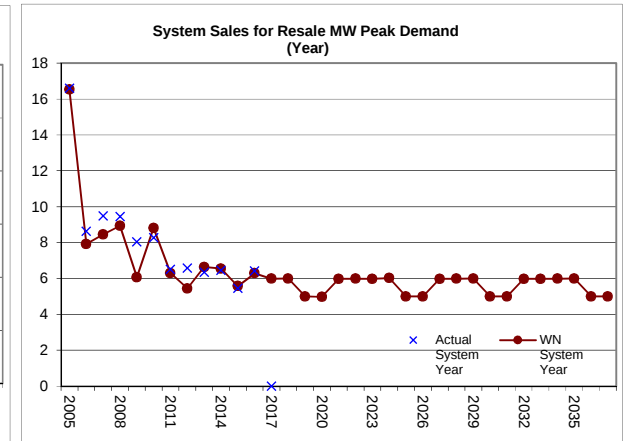
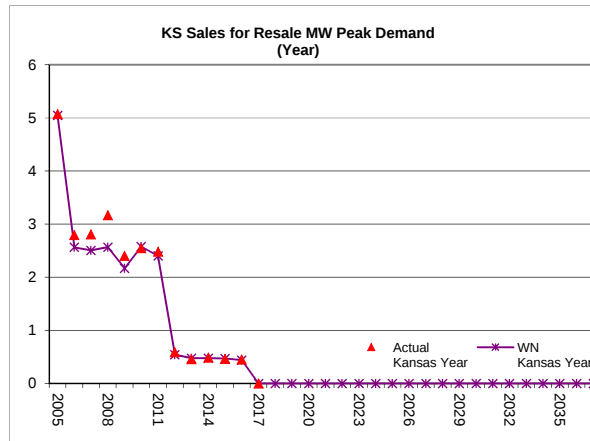
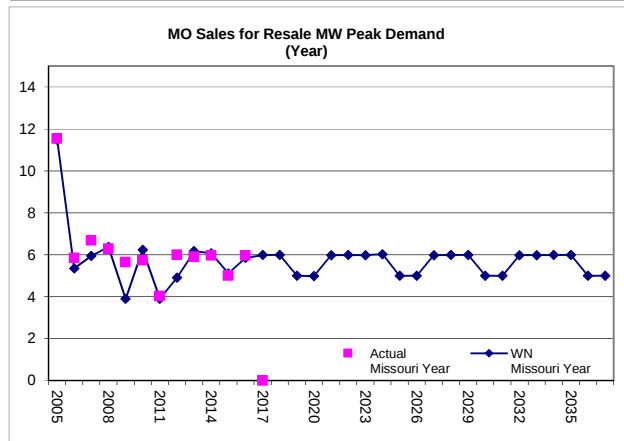
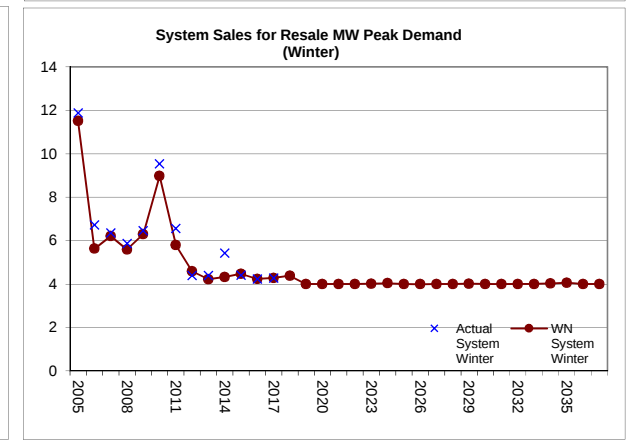
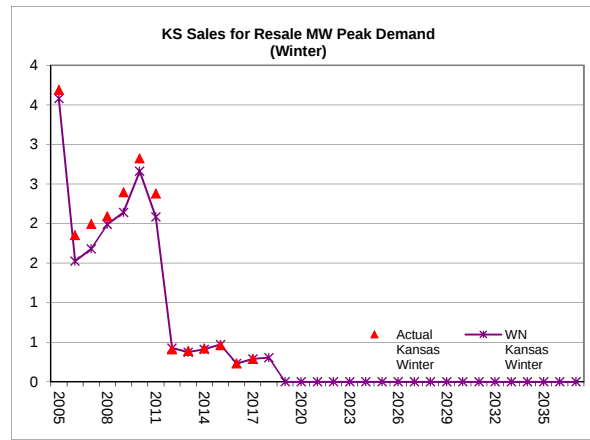
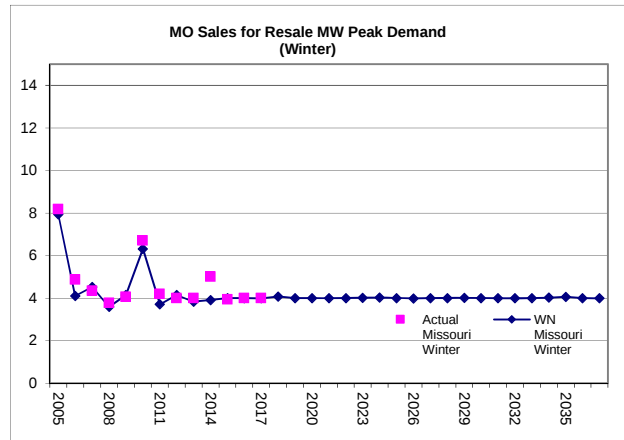
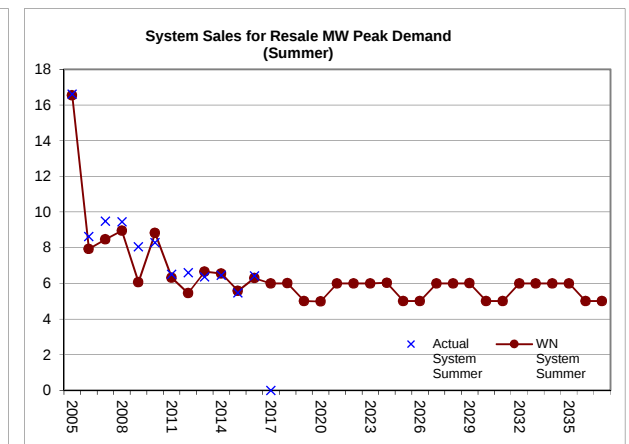
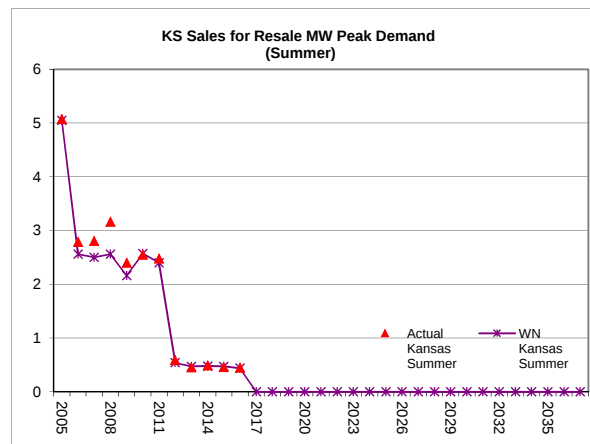
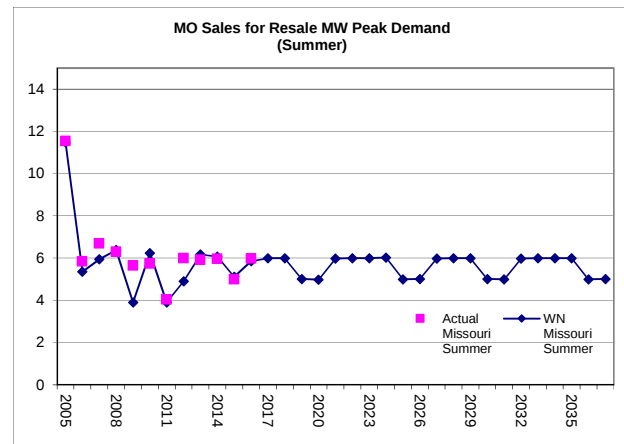
\* Decline is Kansas lighting due to sale of lights to city and LED installation.



**Plot 3B-7 Missouri & Kansas Sales for Resale MW Peak Demand  
(Actual vs. Weather Normalized)**

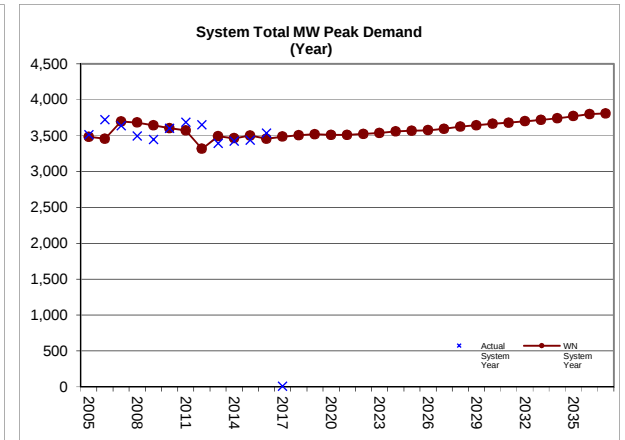
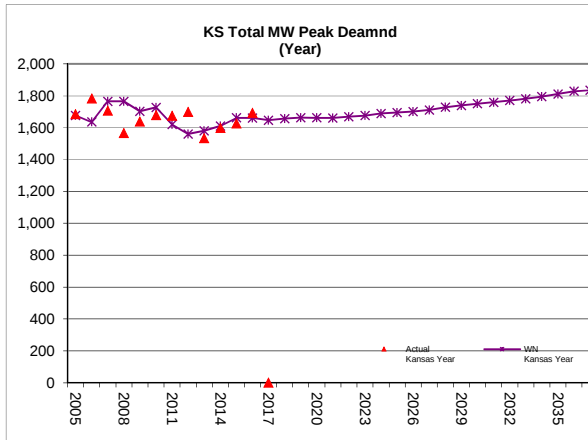
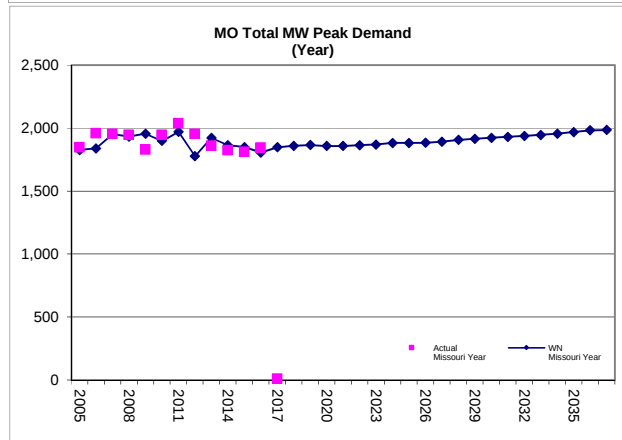
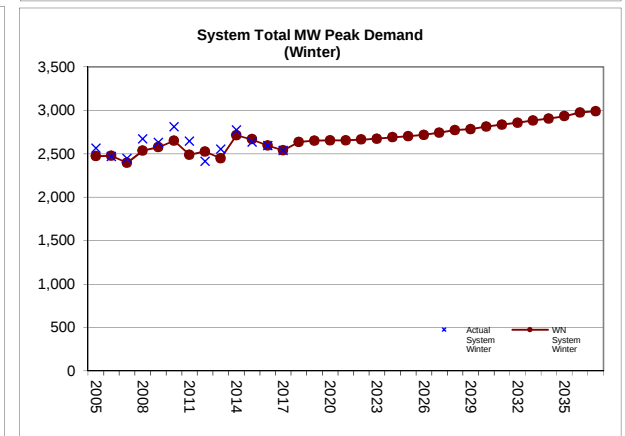
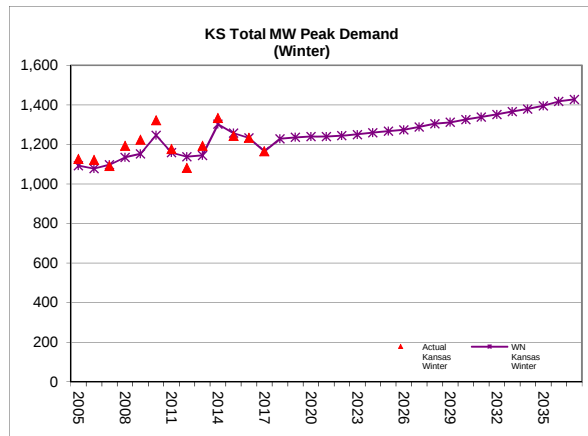
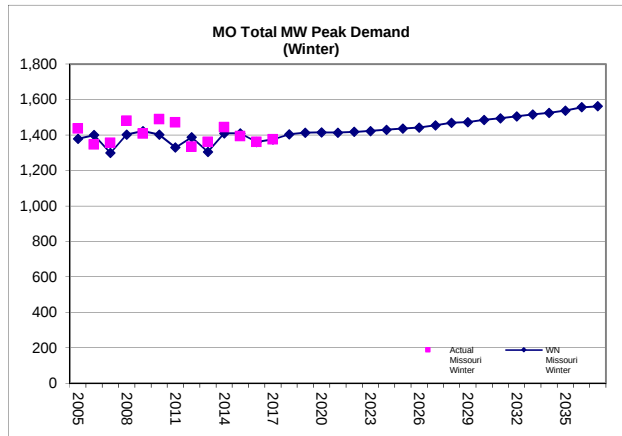
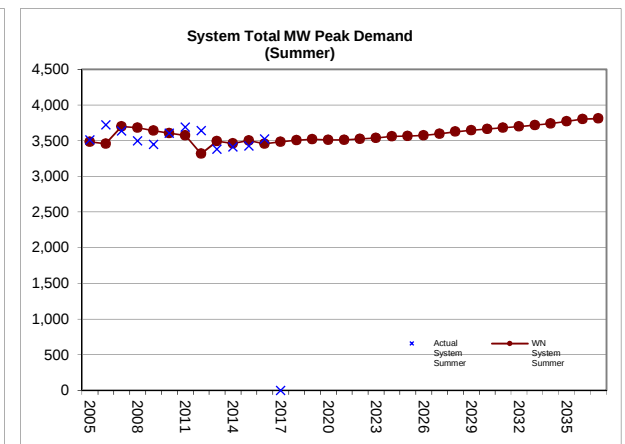
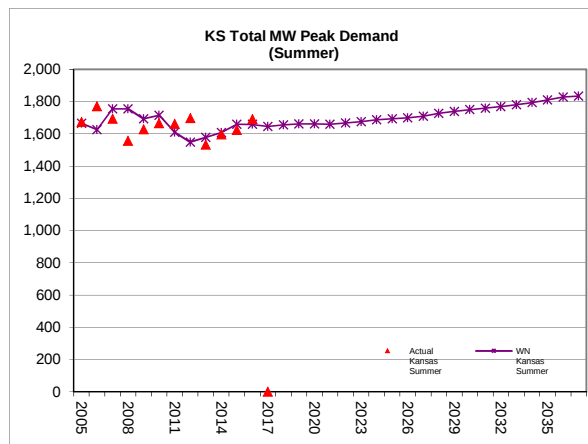
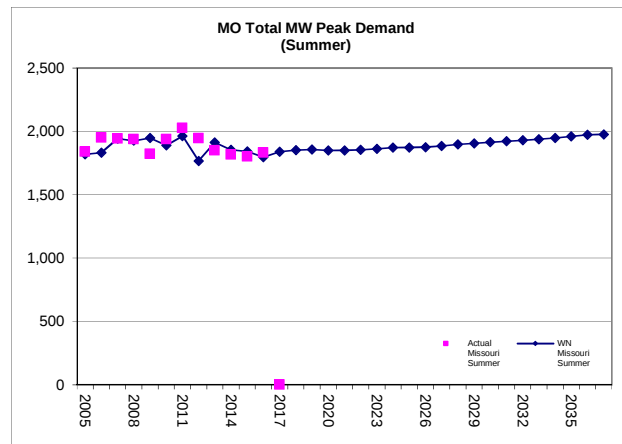
| Year    | Actual<br>Missouri<br>Summer | WN<br>Missouri<br>Summer | Actual<br>Missouri<br>Winter | WN<br>Missouri<br>Winter | Actual<br>Missouri<br>Year | WN<br>Missouri<br>Year | Actual<br>Kansas<br>Summer | WN<br>Kansas<br>Summer | Actual<br>Kansas<br>Winter | WN<br>Kansas<br>Winter | Actual<br>Kansas<br>Year | WN<br>Kansas<br>Year | Actual<br>System<br>Summer | WN<br>System<br>Summer | Actual<br>System<br>Winter | WN<br>System<br>Winter | Actual<br>System<br>Year | WN<br>System<br>Year |
|---------|------------------------------|--------------------------|------------------------------|--------------------------|----------------------------|------------------------|----------------------------|------------------------|----------------------------|------------------------|--------------------------|----------------------|----------------------------|------------------------|----------------------------|------------------------|--------------------------|----------------------|
| 2005    | 11.5                         | 11.5                     | 8.2                          | 7.9                      | 11.5                       | 11.5                   | 5.1                        | 5.0                    | 3.7                        | 3.6                    | 5.1                      | 5.0                  | 16.6                       | 16.5                   | 11.9                       | 11.5                   | 16.6                     | 16.5                 |
| 2006    | 5.8                          | 5.4                      | 4.9                          | 4.1                      | 5.8                        | 5.4                    | 2.8                        | 2.6                    | 1.9                        | 1.5                    | 2.8                      | 2.6                  | 8.6                        | 7.9                    | 6.7                        | 5.6                    | 8.6                      | 7.9                  |
| 2007    | 6.7                          | 6.0                      | 4.3                          | 4.5                      | 6.7                        | 6.0                    | 2.8                        | 2.5                    | 2.0                        | 1.7                    | 2.8                      | 2.5                  | 9.5                        | 8.5                    | 6.3                        | 6.2                    | 9.5                      | 8.5                  |
| 2008    | 6.3                          | 6.4                      | 3.8                          | 3.6                      | 6.3                        | 6.4                    | 3.2                        | 2.6                    | 2.1                        | 2.0                    | 3.2                      | 2.6                  | 9.5                        | 8.9                    | 5.9                        | 5.6                    | 9.5                      | 8.9                  |
| 2009    | 5.6                          | 3.9                      | 4.1                          | 4.1                      | 5.6                        | 3.9                    | 2.4                        | 2.2                    | 2.4                        | 2.1                    | 2.4                      | 2.2                  | 8.0                        | 6.1                    | 6.5                        | 6.3                    | 8.0                      | 6.1                  |
| 2010    | 5.7                          | 6.2                      | 6.7                          | 6.3                      | 5.7                        | 6.2                    | 2.5                        | 2.6                    | 2.8                        | 2.7                    | 2.5                      | 2.6                  | 8.3                        | 8.8                    | 9.5                        | 9.0                    | 8.3                      | 8.8                  |
| 2011    | 4.0                          | 3.9                      | 4.2                          | 3.7                      | 4.0                        | 3.9                    | 2.5                        | 2.4                    | 2.4                        | 2.1                    | 2.5                      | 2.4                  | 6.5                        | 6.3                    | 6.6                        | 5.8                    | 6.5                      | 6.3                  |
| 2012    | 6.0                          | 4.9                      | 4.0                          | 4.2                      | 6.0                        | 4.9                    | 0.6                        | 0.5                    | 0.4                        | 0.4                    | 0.6                      | 0.5                  | 6.6                        | 5.4                    | 4.4                        | 4.6                    | 6.6                      | 5.4                  |
| 2013    | 5.9                          | 6.2                      | 4.0                          | 3.8                      | 5.9                        | 6.2                    | 0.5                        | 0.5                    | 0.4                        | 0.4                    | 0.5                      | 0.5                  | 6.4                        | 6.6                    | 4.4                        | 4.2                    | 6.4                      | 6.6                  |
| 2014    | 6.0                          | 6.1                      | 5.0                          | 3.9                      | 6.0                        | 6.1                    | 0.5                        | 0.5                    | 0.4                        | 0.4                    | 0.5                      | 0.5                  | 6.5                        | 6.5                    | 5.4                        | 4.3                    | 6.5                      | 6.5                  |
| 2015    | 5.0                          | 5.1                      | 3.9                          | 4.0                      | 5.0                        | 5.1                    | 0.5                        | 0.5                    | 0.5                        | 0.5                    | 0.5                      | 0.5                  | 5.5                        | 5.6                    | 4.4                        | 4.5                    | 5.5                      | 5.6                  |
| 2016    | 6.0                          | 5.9                      | 4.0                          | 4.0                      | 6.0                        | 5.9                    | 0.4                        | 0.4                    | 0.2                        | 0.2                    | 0.4                      | 0.4                  | 6.4                        | 6.3                    | 4.2                        | 4.2                    | 6.4                      | 6.3                  |
| 2017    |                              | 6.0                      | 4.0                          | 4.0                      | 0.0                        | 6.0                    |                            | 0.0                    | 0.3                        | 0.3                    | 0.0                      | 0.0                  | 0.0                        | 6.0                    | 4.3                        | 4.3                    | 0.0                      | 6.0                  |
| 2018    |                              | 6.0                      |                              | 4.1                      |                            | 6.0                    |                            | 0.0                    |                            | 0.3                    |                          | 0.0                  |                            | 6.0                    |                            | 4.4                    |                          | 6.0                  |
| 2019    |                              | 5.0                      |                              | 4.0                      |                            | 5.0                    |                            | 0.0                    |                            | 0.0                    |                          | 0.0                  |                            | 5.0                    |                            | 4.0                    |                          | 5.0                  |
| 2020    |                              | 5.0                      |                              | 4.0                      |                            | 5.0                    |                            | 0.0                    |                            | 0.0                    |                          | 0.0                  |                            | 5.0                    |                            | 4.0                    |                          | 5.0                  |
| 2021    |                              | 6.0                      |                              | 4.0                      |                            | 6.0                    |                            | 0.0                    |                            | 0.0                    |                          | 0.0                  |                            | 6.0                    |                            | 4.0                    |                          | 6.0                  |
| 2022    |                              | 6.0                      |                              | 4.0                      |                            | 6.0                    |                            | 0.0                    |                            | 0.0                    |                          | 0.0                  |                            | 6.0                    |                            | 4.0                    |                          | 6.0                  |
| 2023    |                              | 6.0                      |                              | 4.0                      |                            | 6.0                    |                            | 0.0                    |                            | 0.0                    |                          | 0.0                  |                            | 6.0                    |                            | 4.0                    |                          | 6.0                  |
| 2024    |                              | 6.0                      |                              | 4.0                      |                            | 6.0                    |                            | 0.0                    |                            | 0.0                    |                          | 0.0                  |                            | 6.0                    |                            | 4.0                    |                          | 6.0                  |
| 2025    |                              | 5.0                      |                              | 4.0                      |                            | 5.0                    |                            | 0.0                    |                            | 0.0                    |                          | 0.0                  |                            | 5.0                    |                            | 4.0                    |                          | 5.0                  |
| 2026    |                              | 5.0                      |                              | 4.0                      |                            | 5.0                    |                            | 0.0                    |                            | 0.0                    |                          | 0.0                  |                            | 5.0                    |                            | 4.0                    |                          | 5.0                  |
| 2027    |                              | 6.0                      |                              | 4.0                      |                            | 6.0                    |                            | 0.0                    |                            | 0.0                    |                          | 0.0                  |                            | 6.0                    |                            | 4.0                    |                          | 6.0                  |
| 2028    |                              | 6.0                      |                              | 4.0                      |                            | 6.0                    |                            | 0.0                    |                            | 0.0                    |                          | 0.0                  |                            | 6.0                    |                            | 4.0                    |                          | 6.0                  |
| 2029    |                              | 6.0                      |                              | 4.0                      |                            | 6.0                    |                            | 0.0                    |                            | 0.0                    |                          | 0.0                  |                            | 6.0                    |                            | 4.0                    |                          | 6.0                  |
| 2030    |                              | 5.0                      |                              | 4.0                      |                            | 5.0                    |                            | 0.0                    |                            | 0.0                    |                          | 0.0                  |                            | 5.0                    |                            | 4.0                    |                          | 5.0                  |
| 2031    |                              | 5.0                      |                              | 4.0                      |                            | 5.0                    |                            | 0.0                    |                            | 0.0                    |                          | 0.0                  |                            | 5.0                    |                            | 4.0                    |                          | 5.0                  |
| 2032    |                              | 6.0                      |                              | 4.0                      |                            | 6.0                    |                            | 0.0                    |                            | 0.0                    |                          | 0.0                  |                            | 6.0                    |                            | 4.0                    |                          | 6.0                  |
| 2033    |                              | 6.0                      |                              | 4.0                      |                            | 6.0                    |                            | 0.0                    |                            | 0.0                    |                          | 0.0                  |                            | 6.0                    |                            | 4.0                    |                          | 6.0                  |
| 2034    |                              | 6.0                      |                              | 4.0                      |                            | 6.0                    |                            | 0.0                    |                            | 0.0                    |                          | 0.0                  |                            | 6.0                    |                            | 4.0                    |                          | 6.0                  |
| 2035    |                              | 6.0                      |                              | 4.1                      |                            | 6.0                    |                            | 0.0                    |                            | 0.0                    |                          | 0.0                  |                            | 6.0                    |                            | 4.1                    |                          | 6.0                  |
| 2036    |                              | 5.0                      |                              | 4.0                      |                            | 5.0                    |                            | 0.0                    |                            | 0.0                    |                          | 0.0                  |                            | 5.0                    |                            | 4.0                    |                          | 5.0                  |
| 2037    |                              | 5.0                      |                              | 4.0                      |                            | 5.0                    |                            | 0.0                    |                            | 0.0                    |                          | 0.0                  |                            | 5.0                    |                            | 4.0                    |                          | 5.0                  |
|         |                              |                          |                              |                          |                            |                        |                            |                        |                            |                        |                          |                      |                            |                        |                            |                        |                          |                      |
| '12-'17 | -100.0%                      | 4.1%                     | 0.0%                         | -0.8%                    | -100.0%                    | 4.1%                   | -100.0%                    | -100.0%                | -6.7%                      | -7.4%                  | -100.0%                  | -100.0%              | -100.0%                    | 1.9%                   | -0.5%                      | -1.3%                  | -100.0%                  | 1.9%                 |
| '15-'20 |                              | -0.5%                    |                              | 0.0%                     |                            | -0.5%                  |                            | -100.0%                |                            | -100.0%                |                          | -100.0%              |                            | -2.2%                  |                            | -2.2%                  |                          | -2.2%                |
| '20-'25 |                              | 0.1%                     |                              | 0.0%                     |                            | 0.1%                   |                            | #DIV/0!                |                            | #DIV/0!                |                          | #DIV/0!              |                            | 0.1%                   |                            | 0.0%                   |                          | 0.1%                 |
| '25-'30 |                              | 0.0%                     |                              | 0.0%                     |                            | 0.0%                   |                            | #DIV/0!                |                            | #DIV/0!                |                          | #DIV/0!              |                            | 0.0%                   |                            | 0.0%                   |                          | 0.0%                 |
| '30-'35 |                              | 3.7%                     |                              | 0.3%                     |                            | 3.7%                   |                            | #DIV/0!                |                            | #DIV/0!                |                          | #DIV/0!              |                            | 3.7%                   |                            | 0.3%                   |                          | 3.7%                 |
| '17-'37 |                              | -0.9%                    |                              | 0.0%                     |                            | -0.9%                  |                            | #DIV/0!                |                            | -100.0%                |                          | #DIV/0!              |                            | -0.9%                  |                            | -0.4%                  |                          | -0.9%                |

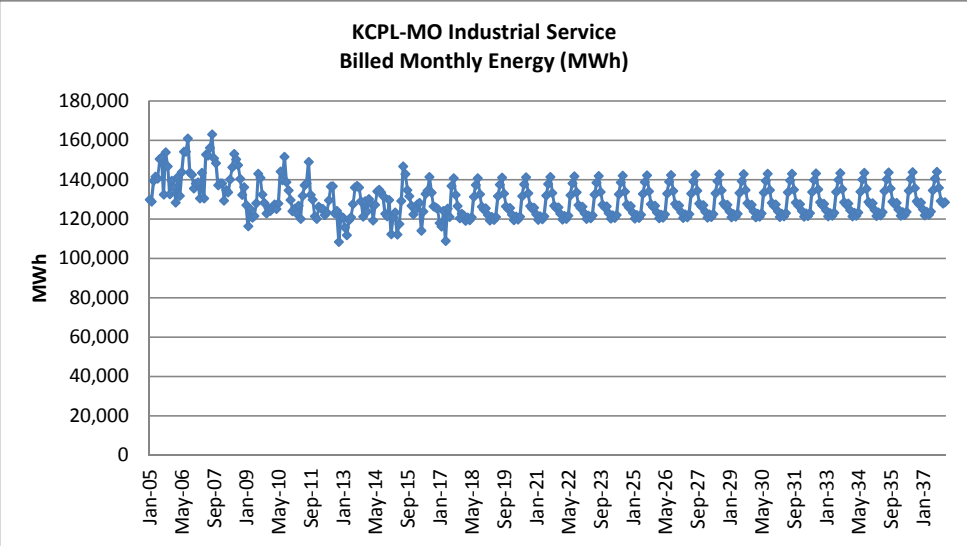
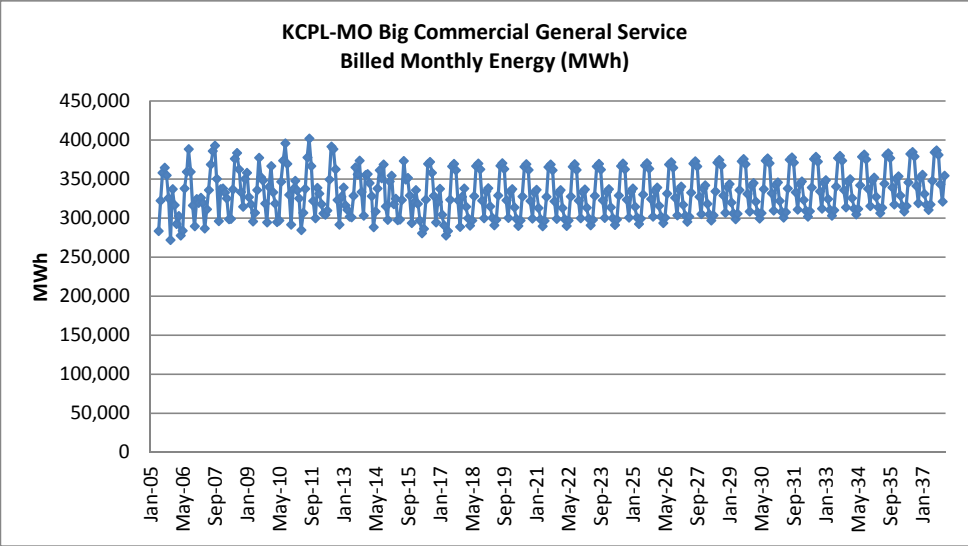
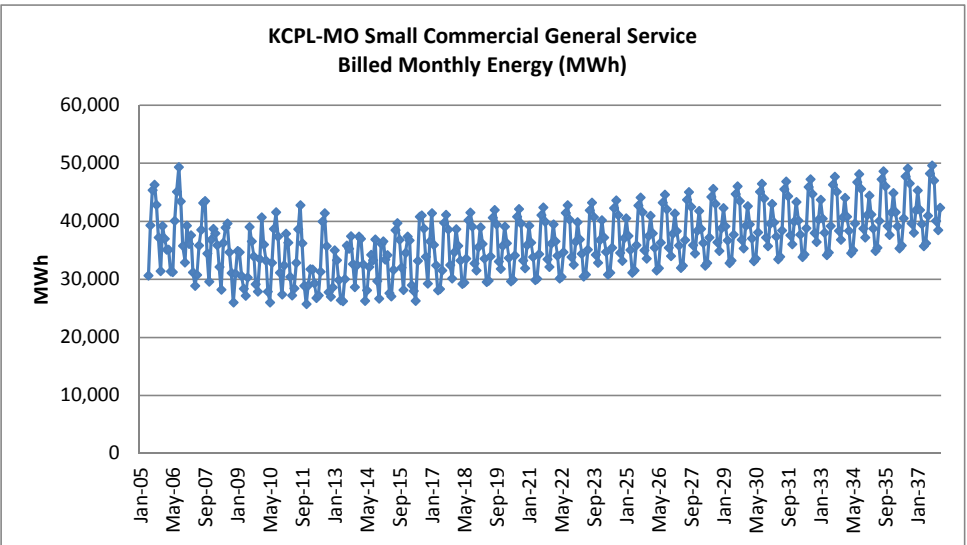
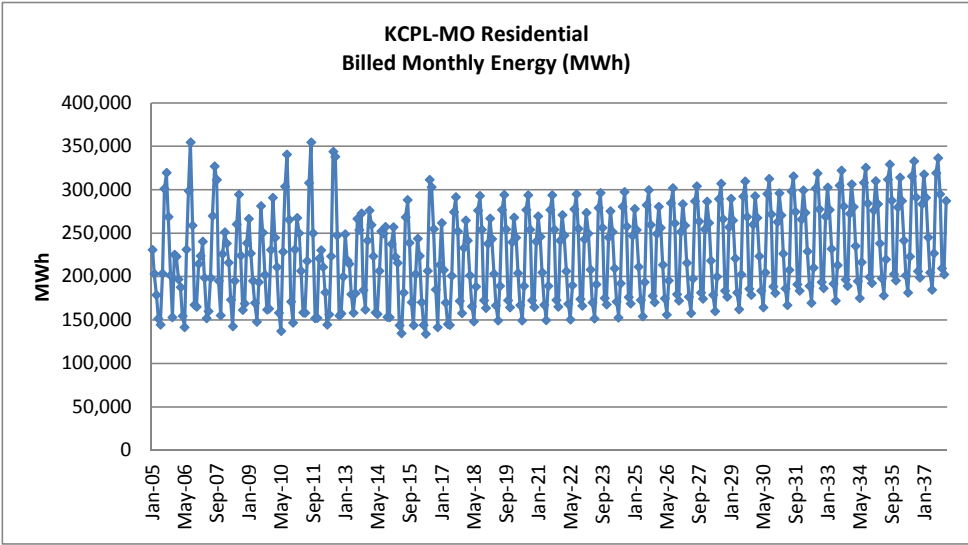
\* Decline in Kansas Sales for Resale due to last two customers leaving (Owatta and Pomona).

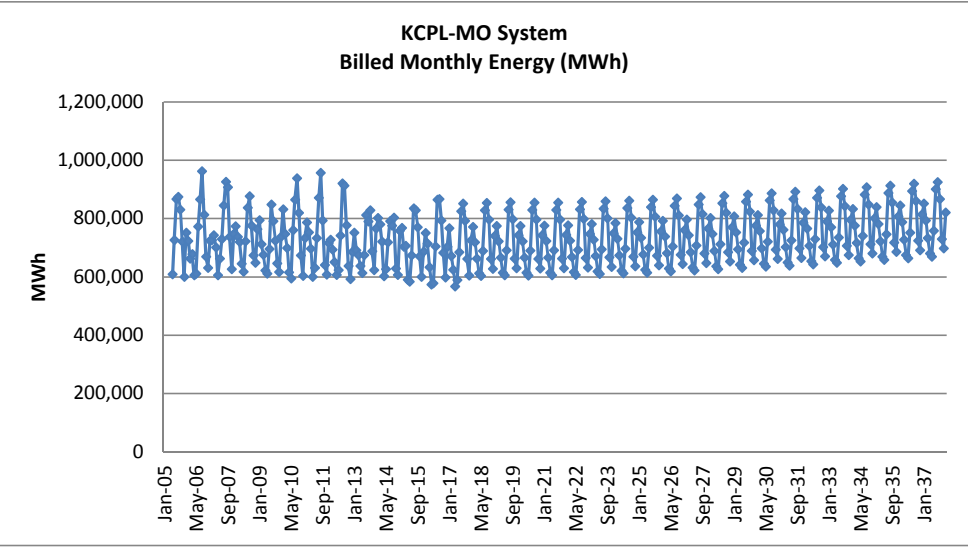
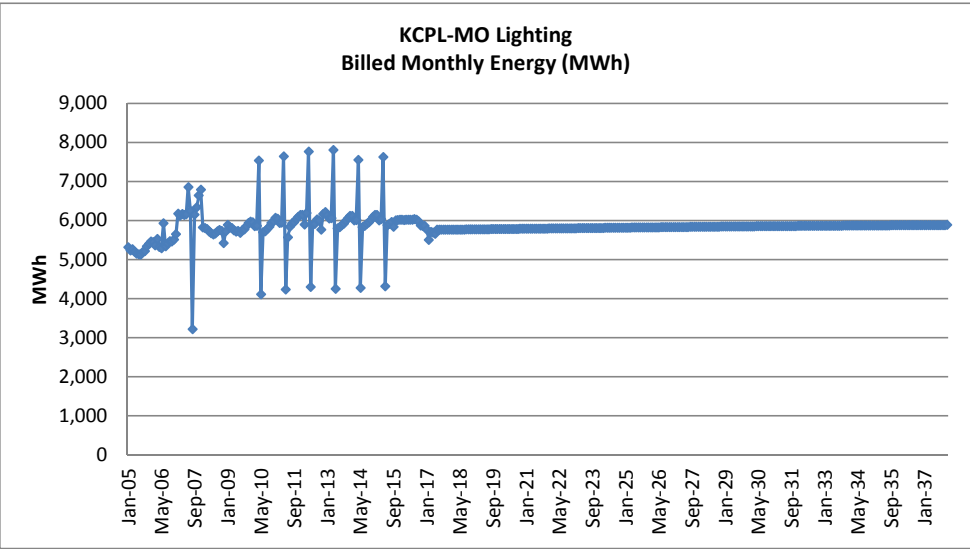
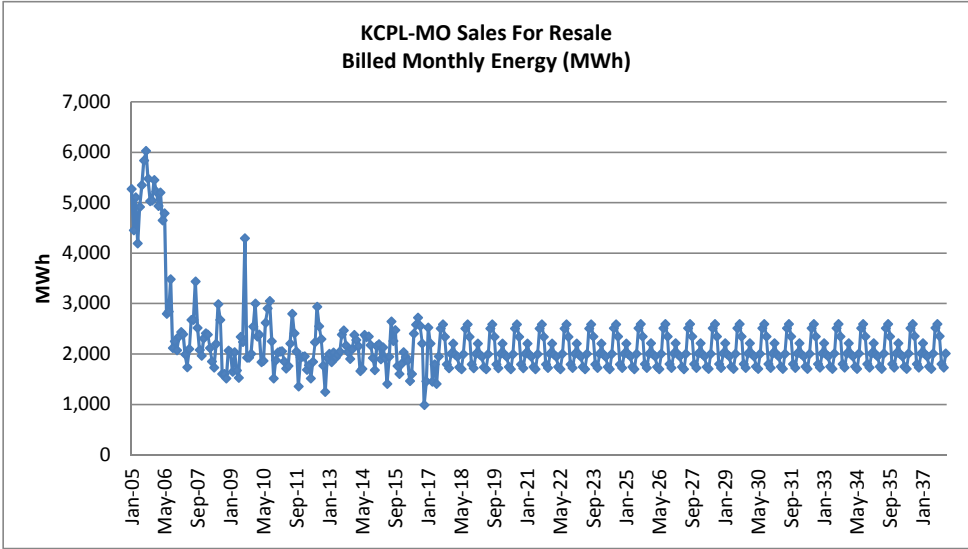


**Plot 3B-8 Missouri & Kansas Total System MW Peak Demand  
(Actual vs. Weather Normalized)**

| Year    | Actual<br>Missouri<br>Summer | WN<br>Missouri<br>Summer | Actual<br>Missouri<br>Winter | WN<br>Missouri<br>Winter | Actual<br>Missouri<br>Year | WN<br>Missouri<br>Year | Actual<br>Kansas<br>Summer | WN<br>Kansas<br>Summer | Actual<br>Kansas<br>Winter | WN<br>Kansas<br>Winter | Actual<br>Kansas<br>Year | WN<br>Kansas<br>Year | Actual<br>System<br>Summer | WN<br>System<br>Summer | Actual<br>System<br>Winter | WN<br>System<br>Winter | Actual<br>System<br>Year | WN<br>System<br>Year |
|---------|------------------------------|--------------------------|------------------------------|--------------------------|----------------------------|------------------------|----------------------------|------------------------|----------------------------|------------------------|--------------------------|----------------------|----------------------------|------------------------|----------------------------|------------------------|--------------------------|----------------------|
| 2005    | 1,838.4                      | 1,818.3                  | 1,436.3                      | 1,378.1                  | 1,845.8                    | 1,825.5                | 1,673.6                    | 1,666.0                | 1,126.7                    | 1,092.4                | 1,683.8                  | 1,675.9              | 3,512.0                    | 3,484.3                | 2,563.0                    | 2,470.5                | 3,512.0                  | 3,484.3              |
| 2006    | 1,950.3                      | 1,831.6                  | 1,346.1                      | 1,399.0                  | 1,959.0                    | 1,838.9                | 1,770.7                    | 1,625.5                | 1,120.9                    | 1,077.5                | 1,782.4                  | 1,635.4              | 3,721.0                    | 3,457.1                | 2,467.0                    | 2,476.5                | 3,721.0                  | 3,457.1              |
| 2007    | 1,944.0                      | 1,943.8                  | 1,354.8                      | 1,298.6                  | 1,953.3                    | 1,952.1                | 1,694.0                    | 1,754.5                | 1,091.2                    | 1,097.2                | 1,706.0                  | 1,765.5              | 3,638.0                    | 3,698.3                | 2,446.0                    | 2,395.8                | 3,638.0                  | 3,698.3              |
| 2008    | 1,938.5                      | 1,926.5                  | 1,478.2                      | 1,402.3                  | 1,946.3                    | 1,933.9                | 1,556.5                    | 1,754.5                | 1,191.8                    | 1,133.8                | 1,567.0                  | 1,764.5              | 3,495.0                    | 3,681.0                | 2,670.0                    | 2,536.1                | 3,495.0                  | 3,681.0              |
| 2009    | 1,820.5                      | 1,948.7                  | 1,407.8                      | 1,421.5                  | 1,829.1                    | 1,956.6                | 1,627.5                    | 1,693.3                | 1,223.2                    | 1,152.5                | 1,638.5                  | 1,703.4              | 3,448.0                    | 3,642.0                | 2,631.0                    | 2,574.0                | 3,448.0                  | 3,642.0              |
| 2010    | 1,936.7                      | 1,889.9                  | 1,488.4                      | 1,402.1                  | 1,946.2                    | 1,898.9                | 1,666.3                    | 1,715.1                | 1,322.6                    | 1,245.9                | 1,678.6                  | 1,726.6              | 3,603.0                    | 3,605.0                | 2,811.0                    | 2,648.0                | 3,603.0                  | 3,605.0              |
| 2011    | 2,026.8                      | 1,963.0                  | 1,469.5                      | 1,328.8                  | 2,036.5                    | 1,971.3                | 1,662.2                    | 1,610.0                | 1,176.5                    | 1,158.2                | 1,674.3                  | 1,620.6              | 3,689.0                    | 3,573.0                | 2,646.0                    | 2,487.0                | 3,689.0                  | 3,573.0              |
| 2012    | 1,944.2                      | 1,767.0                  | 1,332.3                      | 1,387.0                  | 1,954.1                    | 1,777.4                | 1,697.8                    | 1,549.0                | 1,081.7                    | 1,137.3                | 1,697.8                  | 1,560.3              | 3,642.0                    | 3,316.0                | 2,414.0                    | 2,524.3                | 3,652.0                  | 3,316.0              |
| 2013    | 1,849.4                      | 1,913.4                  | 1,359.3                      | 1,303.9                  | 1,858.4                    | 1,922.0                | 1,532.6                    | 1,578.6                | 1,192.7                    | 1,144.1                | 1,534.7                  | 1,580.7              | 3,382.0                    | 3,492.0                | 2,552.0                    | 2,448.0                | 3,393.2                  | 3,492.0              |
| 2014    | 1,815.8                      | 1,854.8                  | 1,443.5                      | 1,408.6                  | 1,824.8                    | 1,863.6                | 1,596.2                    | 1,608.2                | 1,332.5                    | 1,302.3                | 1,598.1                  | 1,610.1              | 3,412.0                    | 3,463.0                | 2,776.0                    | 2,710.9                | 3,423.0                  | 3,463.0              |
| 2015    | 1,801.4                      | 1,841.1                  | 1,391.7                      | 1,408.7                  | 1,811.2                    | 1,850.1                | 1,623.6                    | 1,659.8                | 1,242.3                    | 1,257.1                | 1,625.5                  | 1,661.6              | 3,425.0                    | 3,500.9                | 2,634.0                    | 2,665.8                | 3,436.7                  | 3,500.9              |
| 2016    | 1,832.7                      | 1,797.2                  | 1,360.8                      | 1,360.3                  | 1,842.7                    | 1,806.2                | 1,691.3                    | 1,658.7                | 1,233.2                    | 1,233.3                | 1,692.9                  | 1,660.3              | 3,524.0                    | 3,455.9                | 2,594.0                    | 2,593.6                | 3,535.6                  | 3,455.9              |
| 2017    | 0.0                          | 1,840.0                  | 1,374.5                      | 1,374.5                  | 9.0                        | 1,848.0                | 0.0                        | 1,645.0                | 1,164.5                    | 1,165.7                | 0.0                      | 1,645.8              | 0.0                        | 3,485.0                | 2,539.0                    | 2,540.2                | 9.0                      | 3,485.0              |
| 2018    |                              | 1,851.4                  |                              | 1,404.2                  |                            | 1,859.6                |                            | 1,655.6                |                            | 1,228.8                |                          | 1,656.5              |                            | 3,507.0                |                            | 2,633.0                |                          | 3,507.0              |
| 2019    |                              | 1,856.7                  |                              | 1,412.5                  |                            | 1,865.7                |                            | 1,662.3                |                            | 1,235.5                |                          | 1,663.0              |                            | 3,519.0                |                            | 2,648.0                |                          | 3,519.0              |
| 2020    |                              | 1,849.0                  |                              | 1,414.4                  |                            | 1,858.0                |                            | 1,661.0                |                            | 1,239.6                |                          | 1,661.7              |                            | 3,510.0                |                            | 2,654.0                |                          | 3,510.0              |
| 2021    |                              | 1,849.5                  |                              | 1,412.7                  |                            | 1,858.5                |                            | 1,659.5                |                            | 1,239.3                |                          | 1,660.2              |                            | 3,509.0                |                            | 2,652.0                |                          | 3,509.0              |
| 2022    |                              | 1,855.2                  |                              | 1,417.7                  |                            | 1,864.2                |                            | 1,667.8                |                            | 1,244.3                |                          | 1,668.5              |                            | 3,523.0                |                            | 2,662.0                |                          | 3,523.0              |
| 2023    |                              | 1,860.9                  |                              | 1,421.2                  |                            | 1,870.0                |                            | 1,675.1                |                            | 1,248.9                |                          | 1,675.8              |                            | 3,536.0                |                            | 2,670.1                |                          | 3,536.0              |
| 2024    |                              | 1,872.6                  |                              | 1,429.3                  |                            | 1,881.6                |                            | 1,687.4                |                            | 1,258.8                |                          | 1,688.1              |                            | 3,560.0                |                            | 2,688.1                |                          | 3,560.0              |
| 2025    |                              | 1,872.5                  |                              | 1,435.5                  |                            | 1,881.5                |                            | 1,693.5                |                            | 1,266.5                |                          | 1,694.2              |                            | 3,566.0                |                            | 2,702.0                |                          | 3,566.0              |
| 2026    |                              | 1,874.5                  |                              | 1,440.9                  |                            | 1,883.5                |                            | 1,699.5                |                            | 1,274.1                |                          | 1,700.2              |                            | 3,574.0                |                            | 2,715.0                |                          | 3,574.0              |
| 2027    |                              | 1,884.0                  |                              | 1,453.5                  |                            | 1,893.0                |                            | 1,710.0                |                            | 1,288.5                |                          | 1,710.7              |                            | 3,594.0                |                            | 2,742.0                |                          | 3,594.0              |
| 2028    |                              | 1,897.7                  |                              | 1,468.1                  |                            | 1,906.7                |                            | 1,727.3                |                            | 1,303.9                |                          | 1,728.0              |                            | 3,625.0                |                            | 2,772.0                |                          | 3,625.0              |
| 2029    |                              | 1,905.6                  |                              | 1,471.5                  |                            | 1,914.6                |                            | 1,738.4                |                            | 1,311.5                |                          | 1,739.1              |                            | 3,644.0                |                            | 2,783.0                |                          | 3,644.0              |
| 2030    |                              | 1,914.8                  |                              | 1,484.4                  |                            | 1,923.8                |                            | 1,750.2                |                            | 1,325.6                |                          | 1,750.9              |                            | 3,665.0                |                            | 2,810.0                |                          | 3,665.0              |
| 2031    |                              | 1,921.5                  |                              | 1,493.9                  |                            | 1,930.4                |                            | 1,758.5                |                            | 1,338.1                |                          | 1,759.3              |                            | 3,680.0                |                            | 2,832.0                |                          | 3,680.0              |
| 2032    |                              | 1,929.8                  |                              | 1,503.8                  |                            | 1,938.8                |                            | 1,769.2                |                            | 1,351.2                |                          | 1,769.9              |                            | 3,699.0                |                            | 2,855.0                |                          | 3,699.0              |
| 2033    |                              | 1,937.3                  |                              | 1,515.3                  |                            | 1,946.3                |                            | 1,780.7                |                            | 1,365.7                |                          | 1,781.4              |                            | 3,718.0                |                            | 2,881.0                |                          | 3,718.0              |
| 2034    |                              | 1,946.9                  |                              | 1,523.8                  |                            | 1,956.0                |                            | 1,794.1                |                            | 1,379.3                |                          | 1,794.8              |                            | 3,741.0                |                            | 2,903.1                |                          | 3,741.0              |
| 2035    |                              | 1,960.1                  |                              | 1,536.5                  |                            | 1,969.3                |                            | 1,809.9                |                            | 1,394.6                |                          | 1,810.6              |                            | 3,770.0                |                            | 2,931.1                |                          | 3,770.0              |
| 2036    |                              | 1,973.6                  |                              | 1,555.8                  |                            | 1,982.5                |                            | 1,827.4                |                            | 1,417.2                |                          | 1,828.2              |                            | 3,801.0                |                            | 2,973.0                |                          | 3,801.0              |
| 2037    |                              | 1,976.0                  |                              | 1,561.7                  |                            | 1,984.9                |                            | 1,834.0                |                            | 1,427.3                |                          | 1,834.8              |                            | 3,810.0                |                            | 2,989.0                |                          | 3,810.0              |
| '12-'17 | -100.0%                      | 0.8%                     | 0.6%                         | -0.2%                    | -65.9%                     | 0.8%                   | -100.0%                    | 1.2%                   | 1.5%                       | 0.5%                   | -100.0%                  | 1.1%                 | -100.0%                    | 1.0%                   | 1.0%                       | 0.1%                   | -69.9%                   | 1.0%                 |
| '15-'20 |                              | 0.1%                     |                              | 0.1%                     |                            | 0.1%                   |                            | 0.0%                   |                            | -0.3%                  |                          | 0.0%                 |                            | 0.1%                   |                            | -0.1%                  |                          | 0.1%                 |
| '20-'25 |                              | 0.3%                     |                              | 0.3%                     |                            | 0.3%                   |                            | 0.4%                   |                            | 0.4%                   |                          | 0.4%                 |                            | 0.3%                   |                            | 0.4%                   |                          | 0.3%                 |
| '25-'30 |                              | 0.4%                     |                              | 0.7%                     |                            | 0.4%                   |                            | 0.7%                   |                            | 0.9%                   |                          | 0.7%                 |                            | 0.5%                   |                            | 0.8%                   |                          | 0.5%                 |
| '30-'35 |                              | 0.5%                     |                              | 0.7%                     |                            | 0.5%                   |                            | 0.7%                   |                            | 1.0%                   |                          | 0.7%                 |                            | 0.6%                   |                            | 0.8%                   |                          | 0.6%                 |
| '17-'37 |                              | 0.4%                     |                              | 0.6%                     |                            | 0.4%                   |                            | 0.5%                   |                            | 1.0%                   |                          | 0.5%                 |                            | 0.4%                   |                            | 0.8%                   |                          | 0.4%                 |

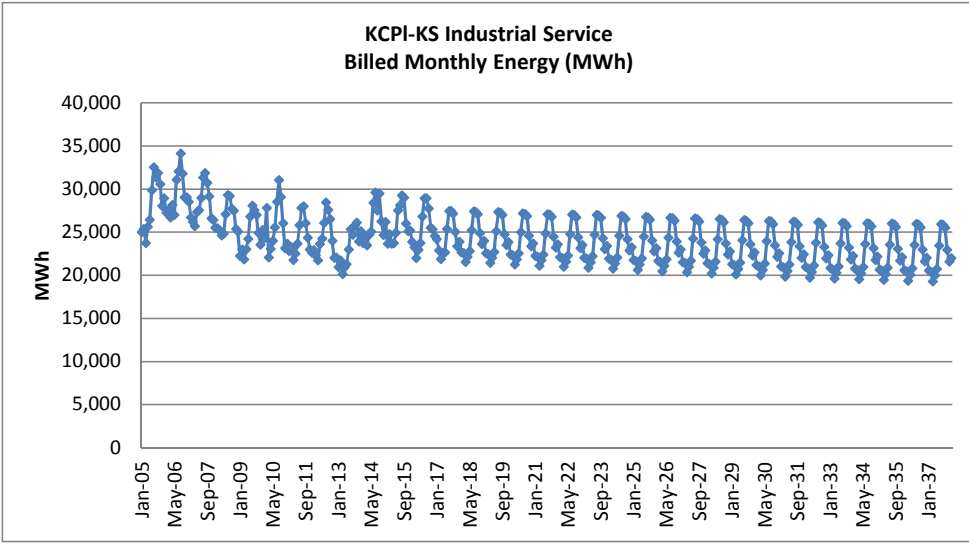
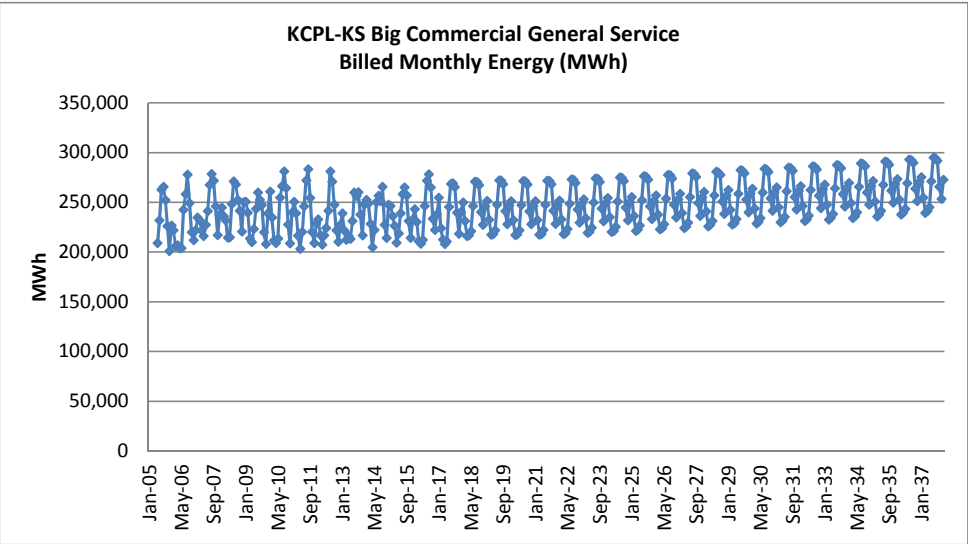
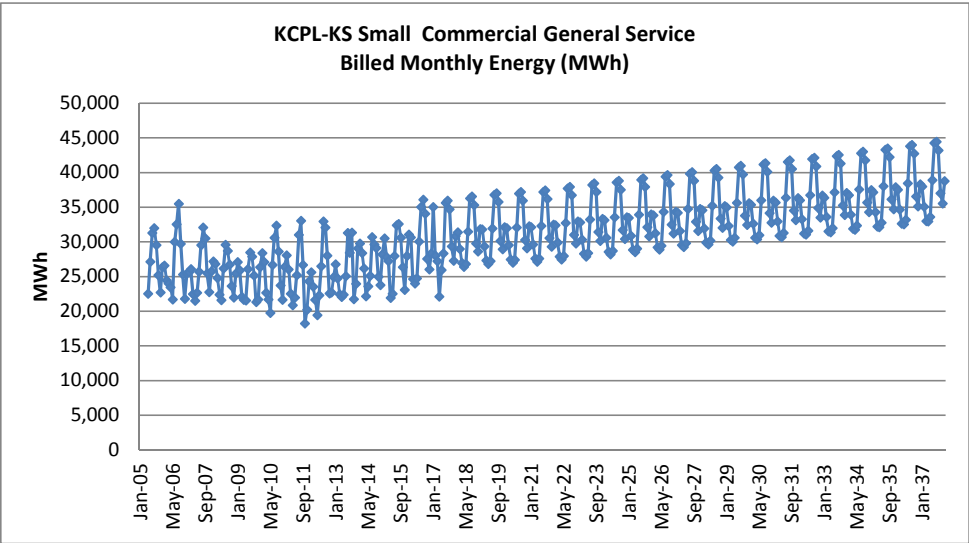
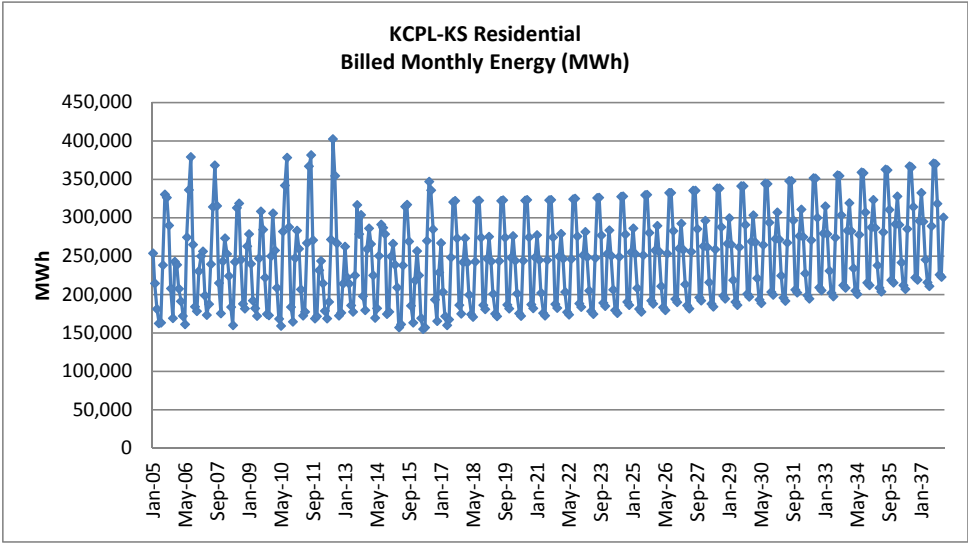




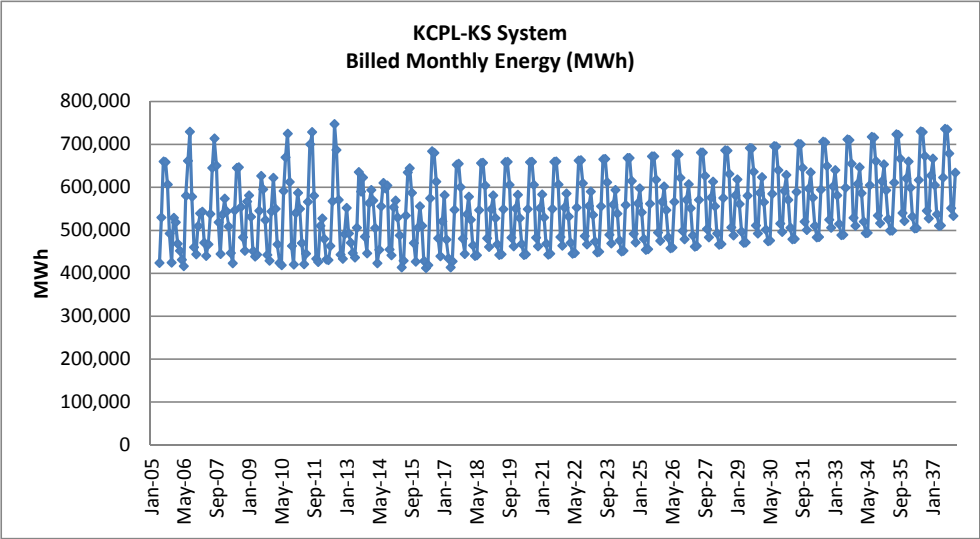
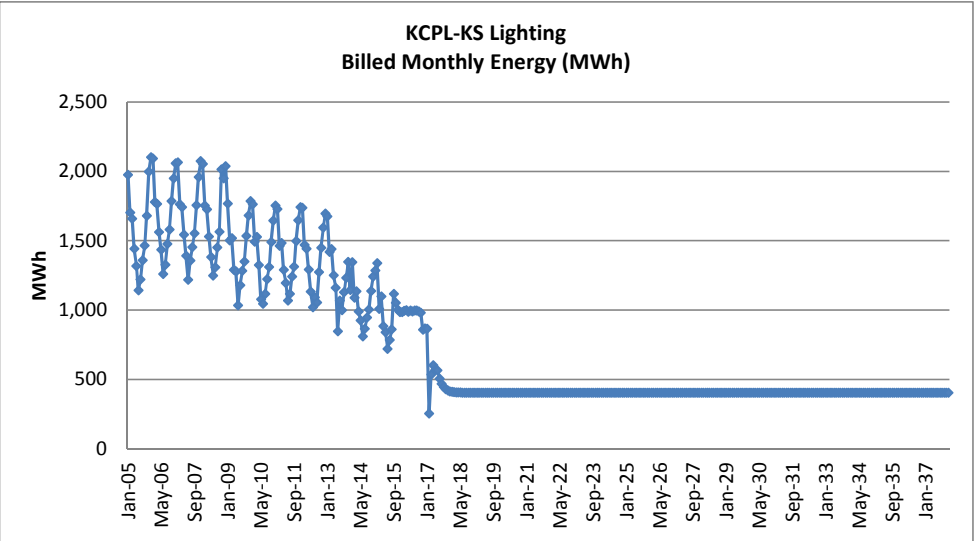
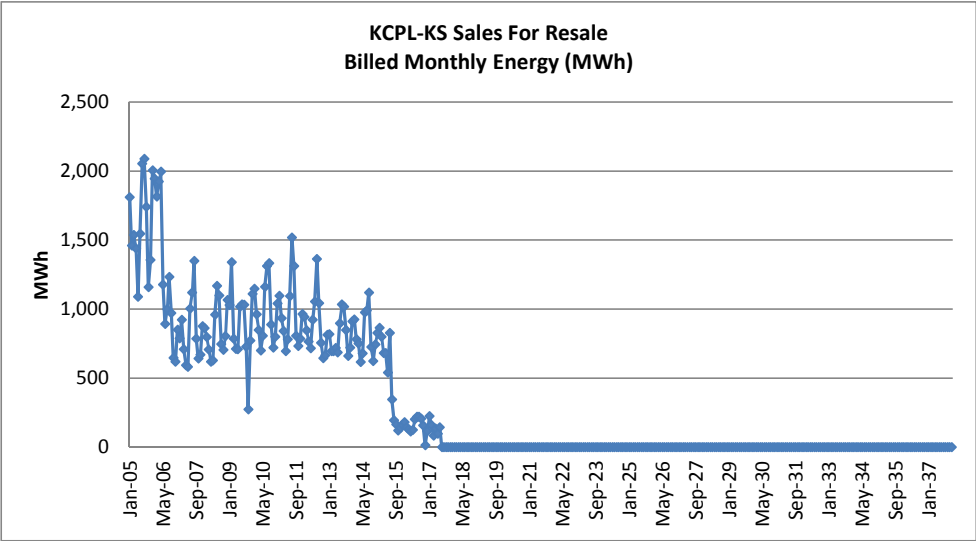


\*Errors are due to rate switchers and billing errors. These outlier data points are adjusted for in the models.

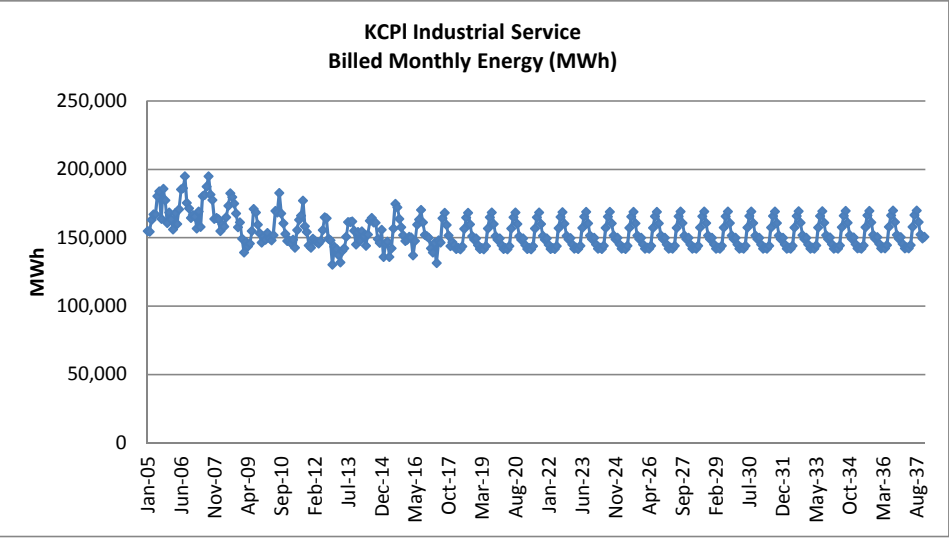
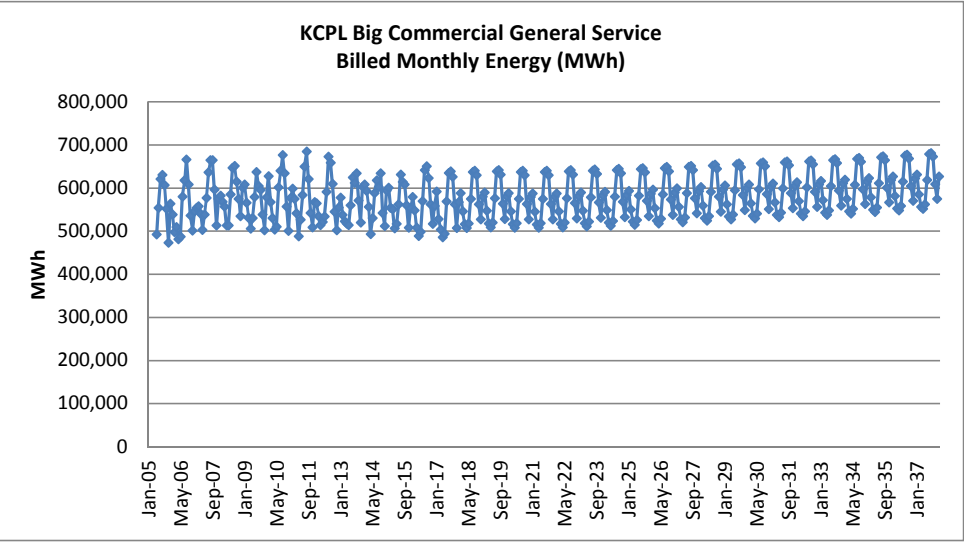
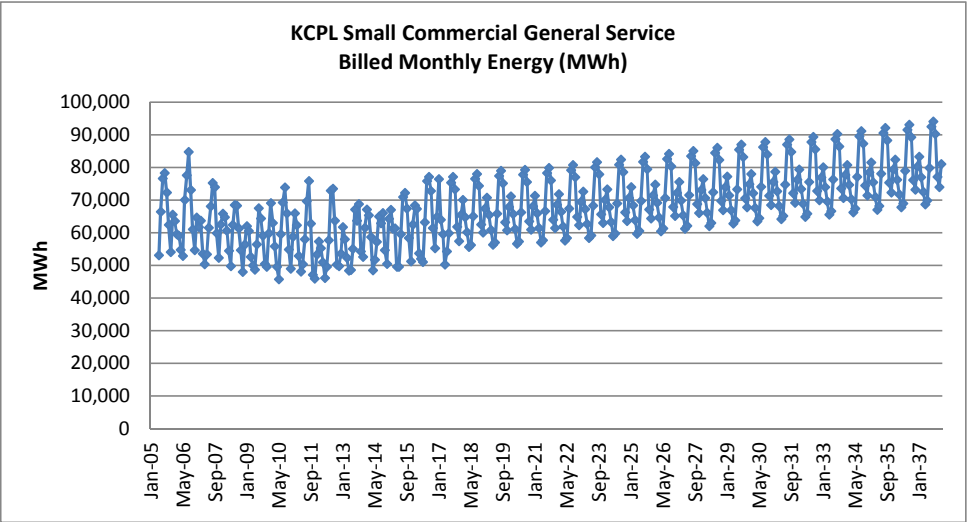
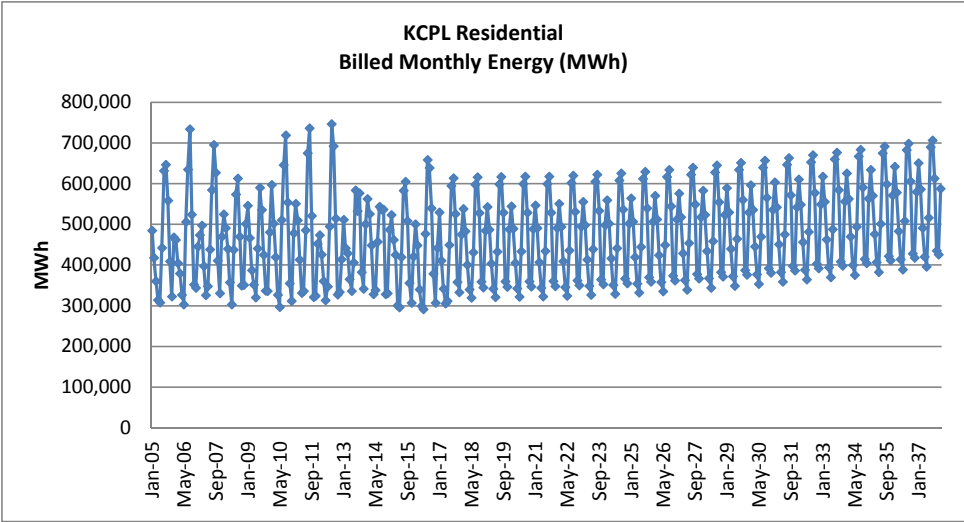
\*\* Lighting bumps in April and May are due to billing request by City of Kansas City Missouri



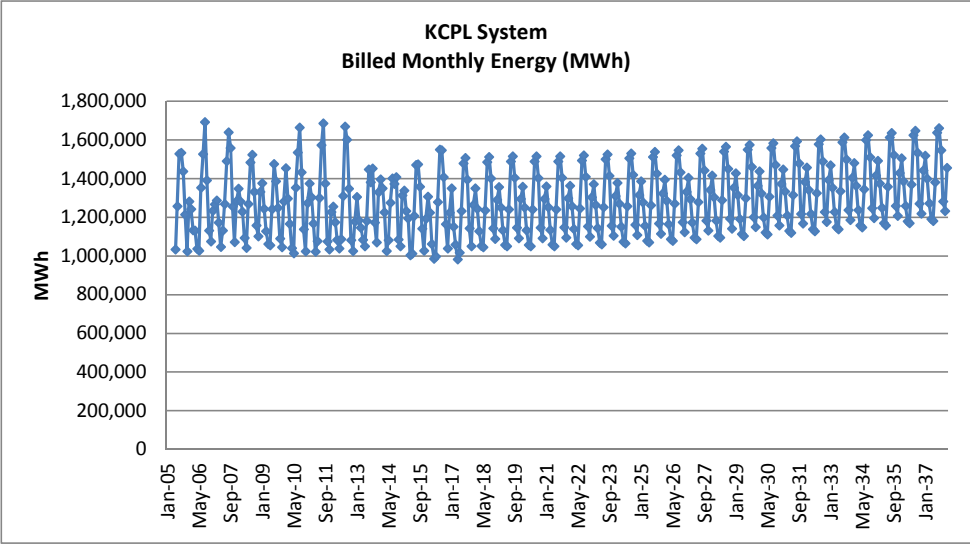
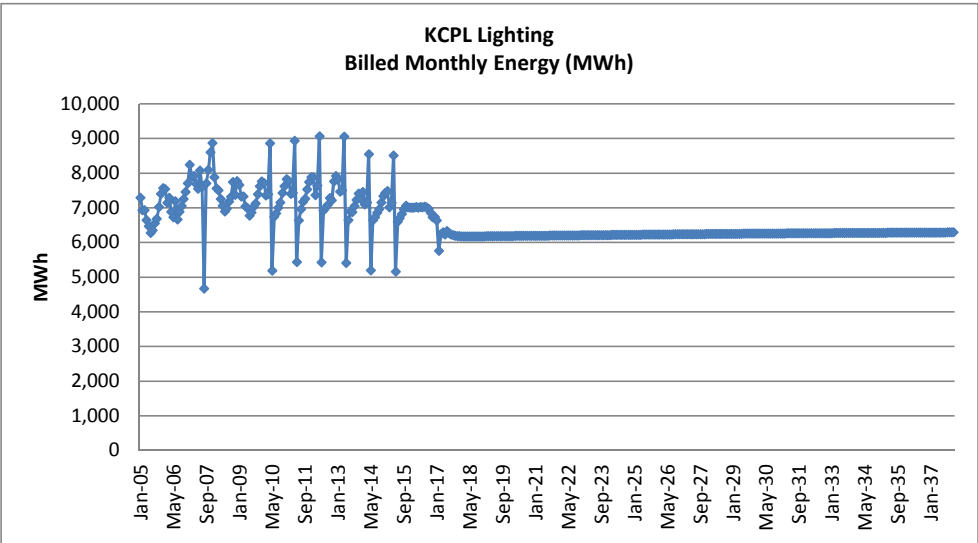
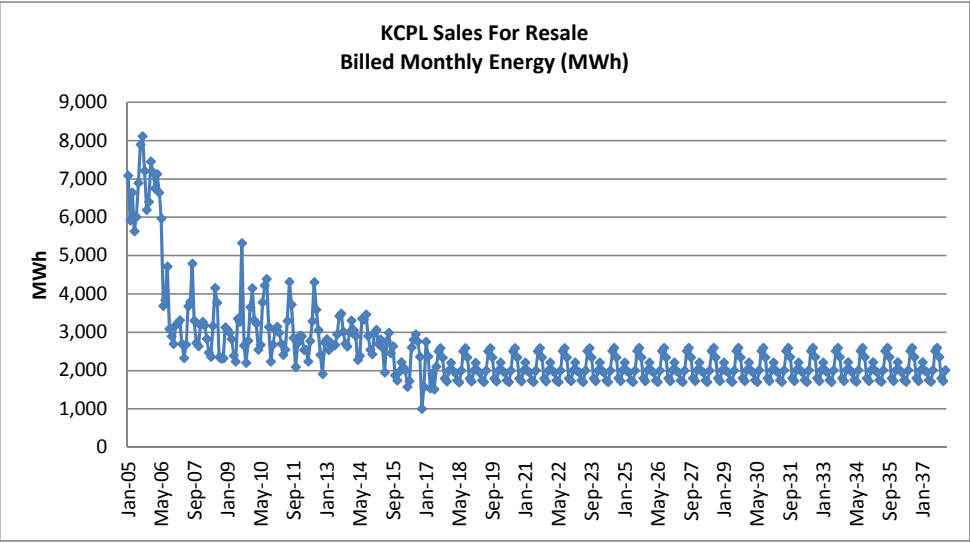
*\*Errors are due to rate switchers and billing errors. These outlier data points are adjusted for in the models.*



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