

**WOODFORD COUNTY BOARD OF EDUCATION  
AGENDA ITEM**

**ITEM #:** XII C **DATE:** December 4, 2019

**TOPIC/TITLE:** Energy Management Report

**PRESENTER:** Amy Smith

**ORIGIN:**

- ☒ TOPIC PRESENTED FOR INFORMATION ONLY (No board action required.)  
☐ ACTION REQUESTED AT THIS MEETING  
☐ ITEM IS ON THE CONSENT AGENDA FOR APPROVAL  
☐ ACTION REQUESTED AT FUTURE MEETING: (DATE)  
☐ BOARD REVIEW REQUIRED BY

- ☐ STATE OR FEDERAL LAW OR REGULATION  
☐ BOARD OF EDUCATION POLICY  
☐ OTHER:

**PREVIOUS REVIEW, DISCUSSION OR ACTION:**

- ☐ NO PREVIOUS BOARD REVIEW, DISCUSSION OR ACTION  
☐ PREVIOUS REVIEW OR ACTION

- ☐ DATE:  
☐ ACTION:

**BACKGROUND INFORMATION:**

**SUMMARY OF MAJOR ELEMENTS:**

Updated Energy Management Plan Report.

**IMPACT ON RESOURCES:**

**TIMETABLE FOR FURTHER REVIEW OR ACTION:**

**SUPERINTENDENT'S RECOMMENDATION:** ☒ Recommended ☐ Not Recommended



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# Woodford County Schools Energy Management Package

November 2019

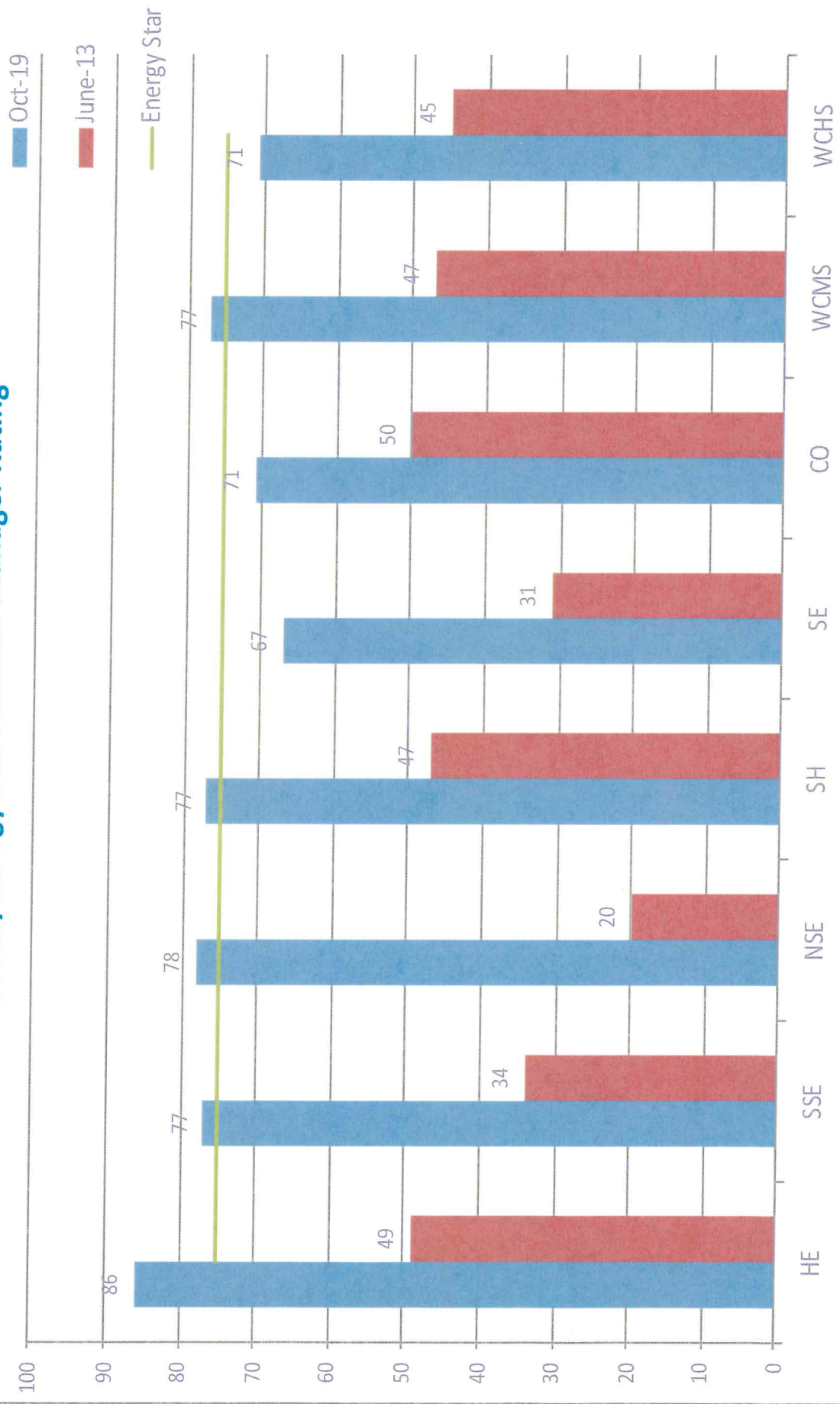
# Energy Management Avoided Costs Summary

| Project Description                 | Refunds/Rebates Received | Avoided Costs | Total Avoided Costs |
|-------------------------------------|--------------------------|---------------|---------------------|
| Rate Change Savings<br>Prior Years  |                          | \$147,299     | \$147,299           |
| Rate Change Savings<br>Current Year |                          | \$21,293      | \$21,293            |
| Consumption Savings<br>Prior Years  |                          | \$1,794,103   | \$1,794,103         |
| Consumption Savings<br>Current Year |                          | \$145,914     | \$145,914           |
| Energy Projects<br>Prior Years      | \$51,268                 |               | \$51,268            |
| Energy Projects<br>Current Year     | \$3,611                  |               | \$3,611             |
| Total                               | \$54,879                 | \$2,108,609   | \$2,163,488         |

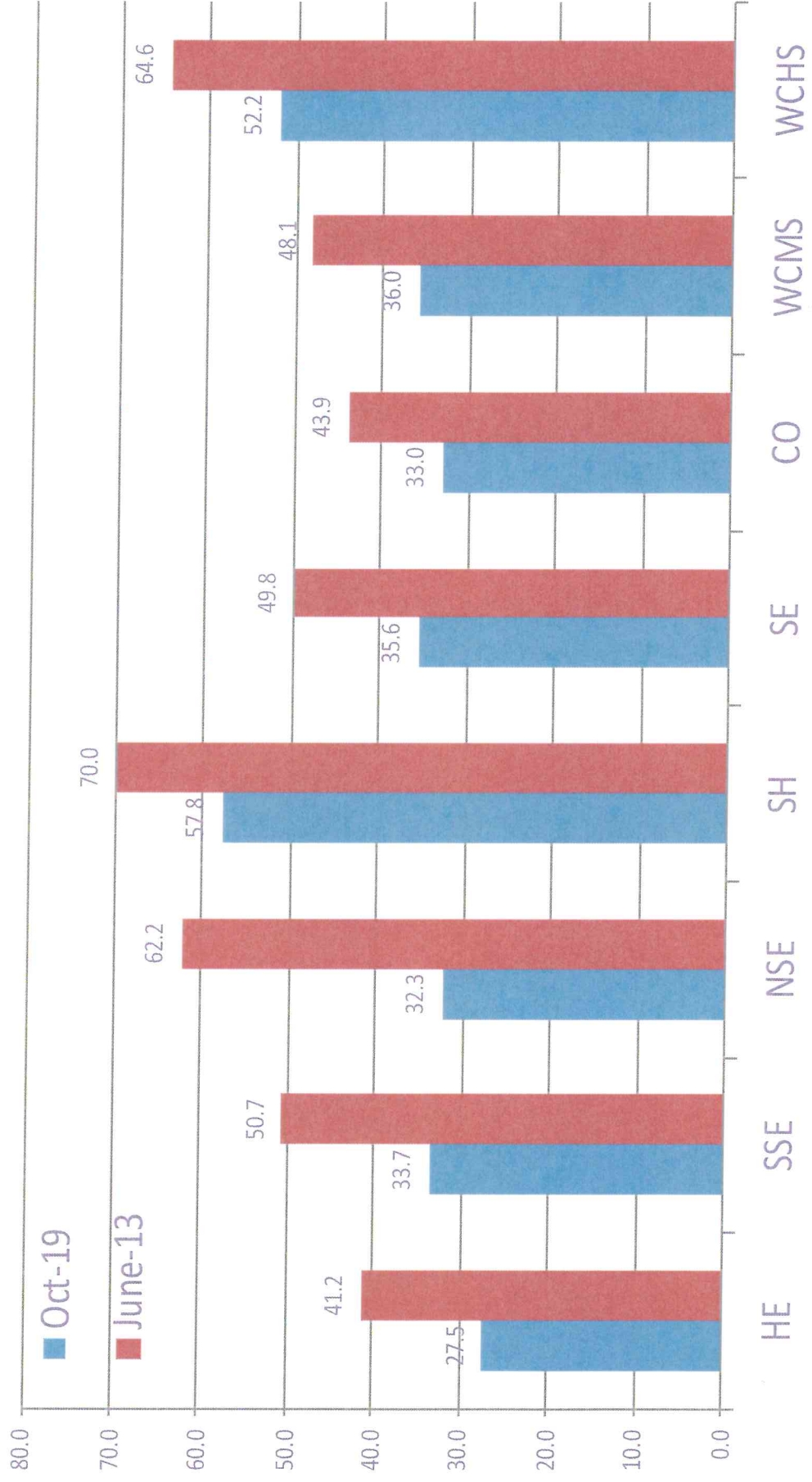
# Woodford County Energy Star Portfolio Manager Ratings

| Facility Name                 | Rating<br>(1-100)<br>Oct-19 | Rating<br>(1-100)<br>June-13 | Energy Use<br>kbtu/sq ft<br>Oct-19 | Energy Use<br>kbtu/sq ft<br>June-13 | Change<br>From<br>Baseline |
|-------------------------------|-----------------------------|------------------------------|------------------------------------|-------------------------------------|----------------------------|
| Huntertown Elementary         | 86                          | 49                           | 27.5                               | 41.2                                | -33.3%                     |
| Southside Elementary          | 77                          | 34                           | 33.7                               | 50.7                                | -33.5%                     |
| Northside Elementary          | 78                          | 20                           | 32.3                               | 62.2                                | -48.1%                     |
| Safe Harbor                   | 77                          | 47                           | 57.8                               | 70.0                                | -17.4%                     |
| Simmons Elementary            | 67                          | 31                           | 35.6                               | 49.8                                | -28.5%                     |
| Central Office                | 71                          | 50                           | 33.0                               | 43.9                                | -24.8%                     |
| Woodford County Middle School | 77                          | 47                           | 36.0                               | 48.1                                | -25.2%                     |
| Woodford County High School   | 71                          | 45                           | 52.2                               | 64.6                                | -19.2%                     |
|                               |                             |                              |                                    |                                     |                            |
| Group Total                   | 75                          | 41                           | 39.3                               | 53.2                                | -26.1%                     |

## Woodford County Energy Star Portfolio Manager Rating



## Woodford County EUI (kbtu/sq.ft/)





# Woodford County Schools

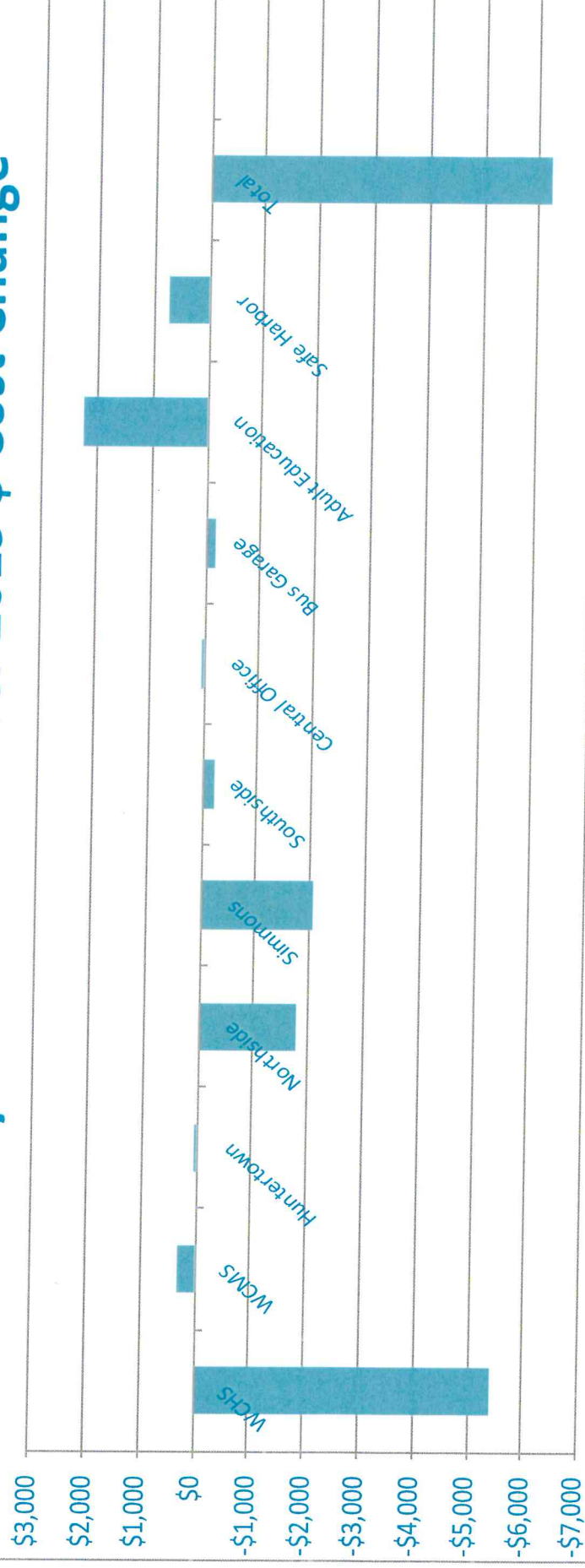
## Energy Management Report

### November 2019

| School Facility | November        |                 |             |          |                | 2018 - 2019 YTD Results |                    |             |                  |                    |
|-----------------|-----------------|-----------------|-------------|----------|----------------|-------------------------|--------------------|-------------|------------------|--------------------|
|                 | 2018 Actual Kwh | 2019 Actual Kwh | % Reduction | Position | \$ Cost Change | 2018-19 Actual Kwh      | 2019-20 Actual Kwh | % Reduction | Overall Position | YTD \$ Cost Change |
| WCHS            | 129,416         | 114,137         | 11.8%       | 1        | -\$1,701       | 833,336                 | 784,436            | 5.9%        | 3                | -\$5,393           |
| WCMS            | 107,760         | 113,280         | -5.1%       | 6        | \$615          | 580,800                 | 583,920            | -0.5%       | 8                | \$344              |
| Huntertown      | 41,800          | 48,800          | -16.7%      | 9        | \$779          | 232,200                 | 232,800            | -0.3%       | 6                | \$66               |
| Northside       | 47,440          | 46,080          | 2.9%        | 4        | -\$151         | 217,360                 | 201,040            | 7.5%        | 1                | -\$1,800           |
| Simmons         | 56,880          | 50,640          | 11.0%       | 2        | -\$695         | 275,400                 | 256,800            | 6.8%        | 2                | -\$2,051           |
| Southside       | 41,179          | 41,357          | -0.4%       | 5        | \$20           | 233,141                 | 231,131            | 0.9%        | 5                | -\$222             |
| Central Office  | 13,860          | 13,320          | 3.9%        | 3        | -\$60          | 64,800                  | 64,980             | -0.3%       | 7                | \$20               |
| Bus Garage      | 5,260           | 5,922           | -12.6%      | 8        | \$74           | 37,007                  | 35,309             | 4.6%        | 4                | -\$187             |
| Adult Education | 1               | 3,079           |             |          | \$343          | 5                       | 20,547             |             |                  | \$2,265            |
| Safe Harbor     | 5,825           | 6,336           | -8.8%       | 7        | \$57           | 36,481                  | 43,126             | -18.2%      | 9                | \$733              |
| Total           | 449,421         | 442,951         | 1.4%        |          | -\$720         | 2,510,530               | 2,454,089          | 2.2%        |                  | -\$6,225           |

# Electrical Energy Cost Comparison to Last Year

## July 2019 - November 2019 \$ Cost Change



Note: The Schools with the Lowest Bars are doing the Best Job in Reducing Costs