

**WOODFORD COUNTY BOARD OF EDUCATION  
AGENDA ITEM**

**ITEM #:** XII C **DATE:** October 3, 2018

**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.

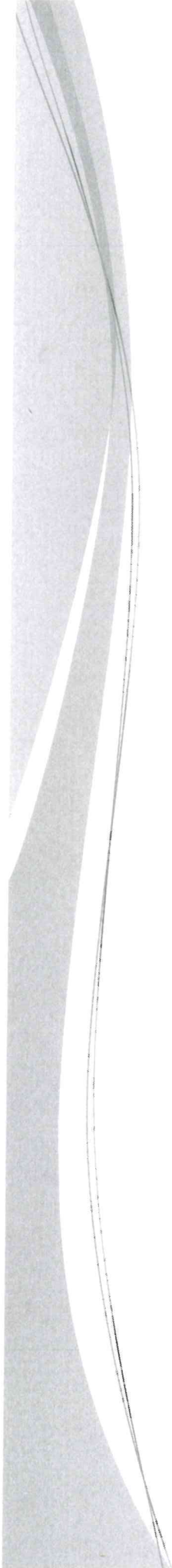
**IMPACT ON RESOURCES:**

**TIMETABLE FOR FURTHER REVIEW OR ACTION:**

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



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# Woodford County Schools Energy Management Package

September 2018

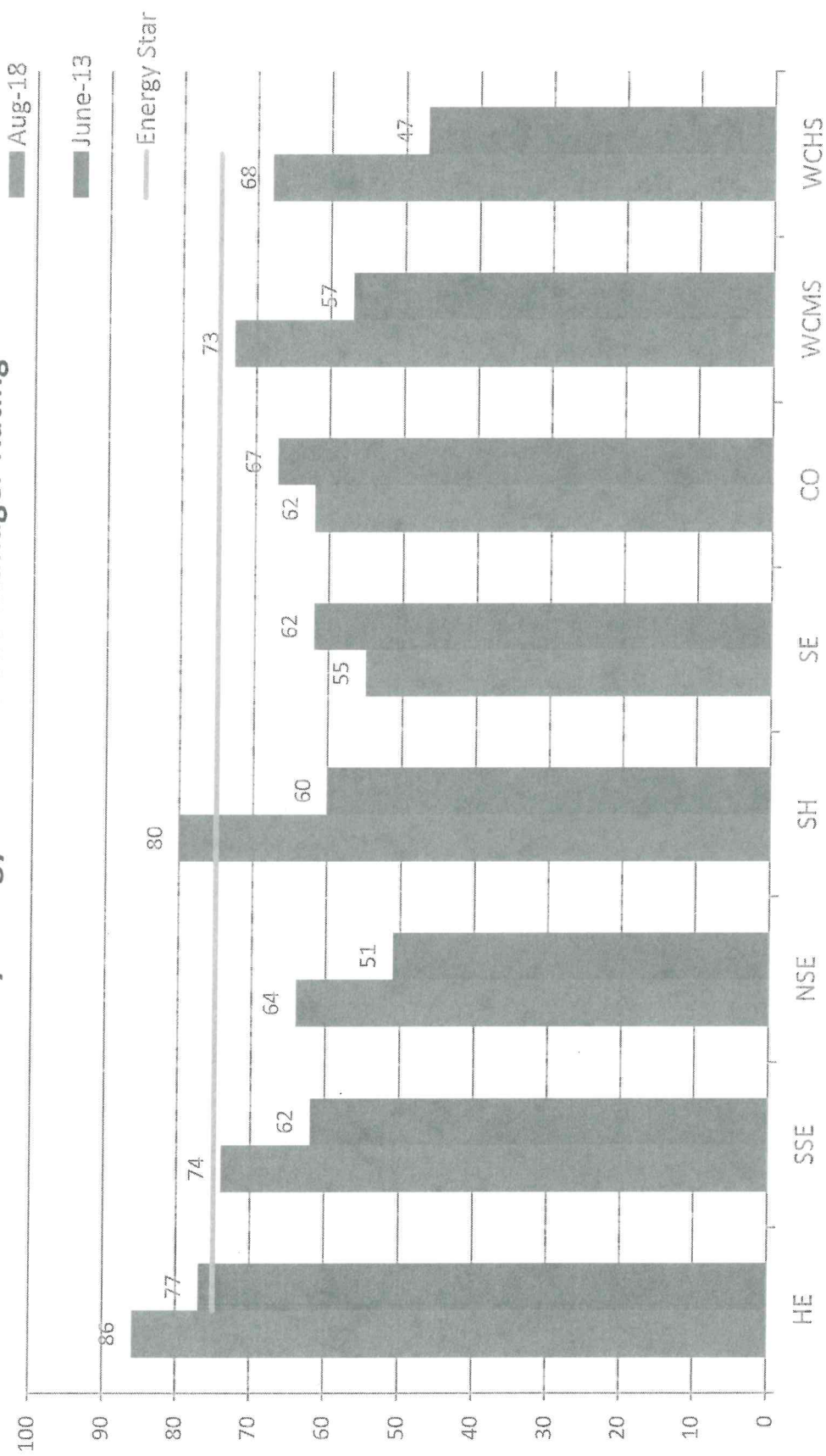
# Energy Management Avoided Costs Summary

| Project Description                 | Refunds/Rebates Received | Avoided Costs | Total Avoided Costs |
|-------------------------------------|--------------------------|---------------|---------------------|
| Rate Change Savings<br>Prior Years  |                          | \$121,281     | \$121,281           |
| Rate Change Savings<br>Current Year |                          | \$9,399       | \$9,399             |
| Consumption Savings<br>Prior Years  |                          | \$1,474,862   | \$1,474,862         |
| Consumption Savings<br>Current Year |                          | \$64,320      | \$64,320            |
| Energy Projects<br>Prior Years      | \$49,887                 |               | \$49,887            |
| Energy Projects<br>Current Year     | \$0                      |               | \$0                 |
| Total                               | \$49,887                 | \$1,669,862   | \$1,719,749         |

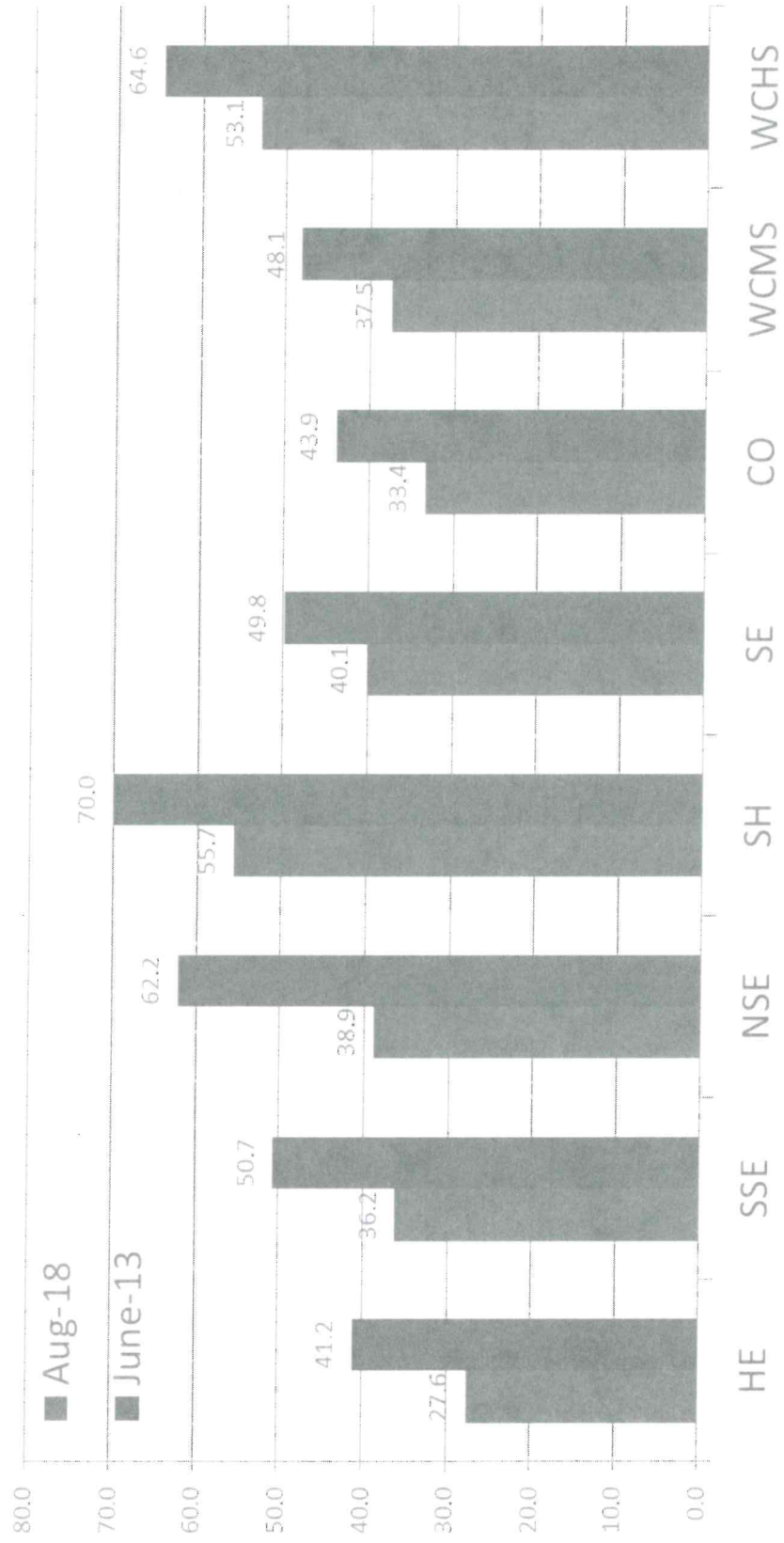
# Woodford County Energy Star Portfolio Manager Ratings

| Facility Name                 | Rating<br>(1-100)<br>Aug-18 | Rating<br>(1-100)<br>June-13 | Energy Use<br>kbtu/sq ft<br>Aug-18 | Energy Use<br>kbtu/sq ft<br>June-13 | Change<br>From<br>Baseline |
|-------------------------------|-----------------------------|------------------------------|------------------------------------|-------------------------------------|----------------------------|
| Huntertown Elementary         | 86                          | 49                           | 27.6                               | 41.2                                | -33.0%                     |
| Southside Elementary          | 74                          | 34                           | 36.2                               | 50.7                                | -28.6%                     |
| Northside Elementary          | 64                          | 20                           | 38.9                               | 62.2                                | -37.5%                     |
| Safe Harbor                   | 80                          | 47                           | 55.7                               | 70.0                                | -20.4%                     |
| Simmons Elementary            | 55                          | 31                           | 40.1                               | 49.8                                | -19.5%                     |
| Central Office                | 62                          | 39                           | 33.4                               | 43.9                                | -23.9%                     |
| Woodford County Middle School | 73                          | 47                           | 37.5                               | 48.1                                | -22.0%                     |
| Woodford County High School   | 68                          | 45                           | 53.2                               | 64.6                                | -17.6%                     |
|                               |                             |                              |                                    |                                     |                            |
| Group Total                   | 70                          | 41                           | 40.6                               | 53.2                                | -23.7%                     |

# Woodford County Energy Star Portfolio Manager Rating



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





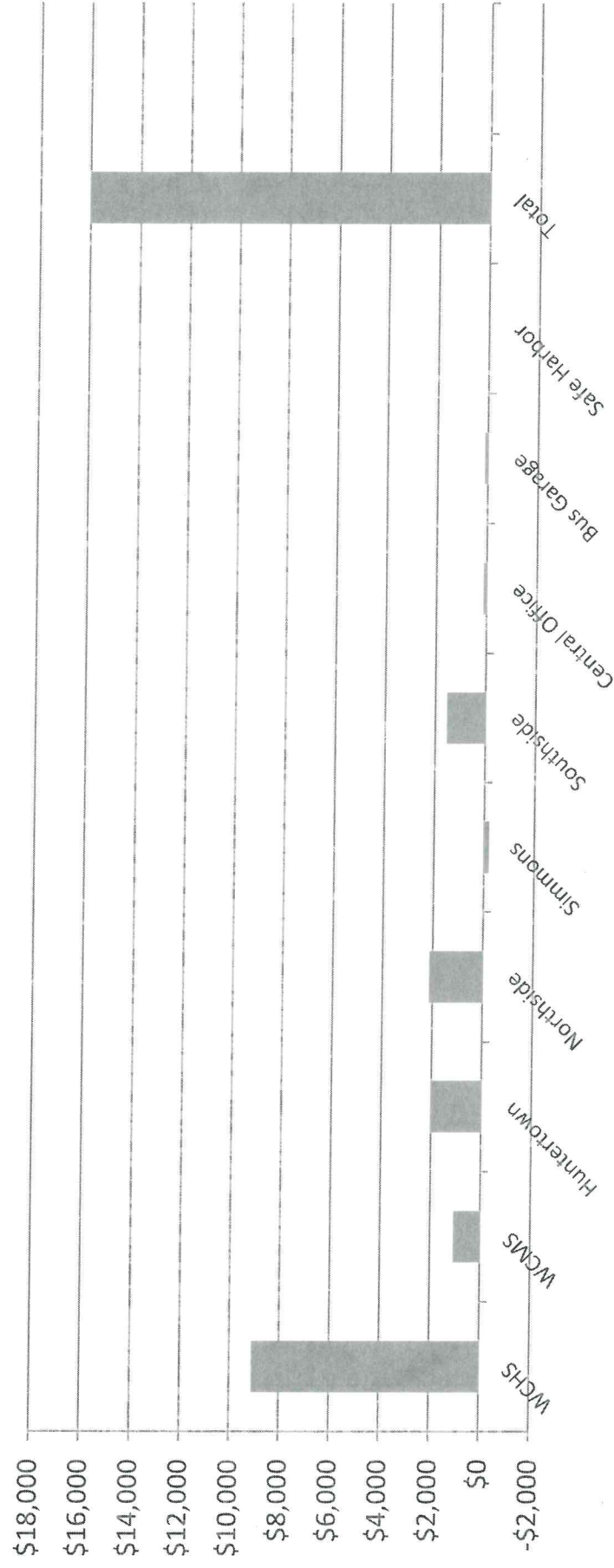
# Woodford County Schools

## Energy Management Report

### September 2018

| School Facility | September       |                 |             |          |                | 2018 - 2019 YTD Results |                    |             |                  |                    |
|-----------------|-----------------|-----------------|-------------|----------|----------------|-------------------------|--------------------|-------------|------------------|--------------------|
|                 | 2017 Actual Kwh | 2018 Actual Kwh | % Reduction | Position | \$ Cost Change | 2017-18 Actual Kwh      | 2018-19 Actual Kwh | % Reduction | Overall Position | YTD \$ Cost Change |
| WCHS            | 177,110         | 217,298         | -22.7%      | 9        | \$3,597        | 450,554                 | 549,418            | -21.9%      | 9                | \$9,121            |
| WCMS            | 150,480         | 150,720         | -0.2%       | 3        | \$21           | 336,080                 | 347,760            | -3.5%       | 3                | \$1,078            |
| Huntertown      | 54,000          | 60,200          | -11.5%      | 6        | \$555          | 122,600                 | 144,800            | -18.1%      | 7                | \$2,048            |
| Northside       | 43,200          | 45,760          | -5.9%       | 4        | \$229          | 112,600                 | 135,920            | -20.7%      | 8                | \$2,152            |
| Simmons         | 60,360          | 59,760          | 1.0%        | 2        | -\$54          | 168,960                 | 166,680            | 1.3%        | 1                | -\$210             |
| Southside       | 50,255          | 60,046          | -19.5%      | 7        | \$876          | 131,409                 | 148,121            | -12.7%      | 6                | \$1,542            |
| Central Office  | 12,240          | 13,140          | -7.4%       | 5        | \$81           | 37,800                  | 39,240             | -3.8%       | 4                | \$133              |
| Bus Garage      | 8,479           | 8,354           | 1.5%        | 1        | -\$11          | 23,515                  | 24,842             | -5.6%       | 5                | \$122              |
| Safe Harbor     | 8,098           | 9,778           | -20.7%      | 8        | \$150          | 24,101                  | 24,346             | -1.0%       | 2                | \$23               |
| Total           | 564,222         | 625,056         | -10.8%      |          | \$5,444        | 1,407,619               | 1,581,127          | -12.3%      |                  | \$16,008           |

## July 2018 - September 2018 \$ Cost Change



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