**WOODFORD COUNTY BOARD OF EDUCATION**
**AGENDA ITEM**

**ITEM #:** XII C **DATE:** July 12, 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**

# Woodford County Schools Energy Management Package

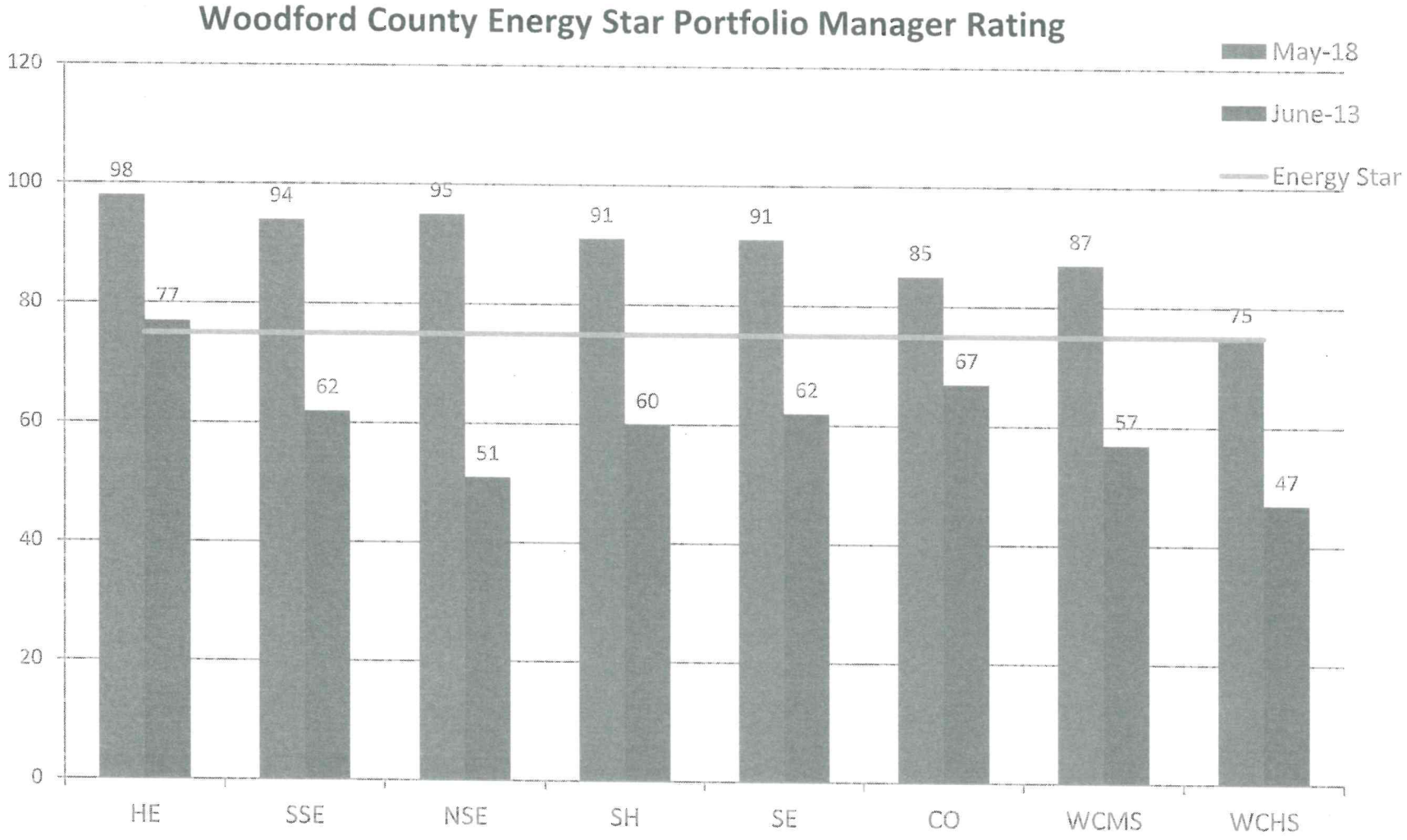
June 2018

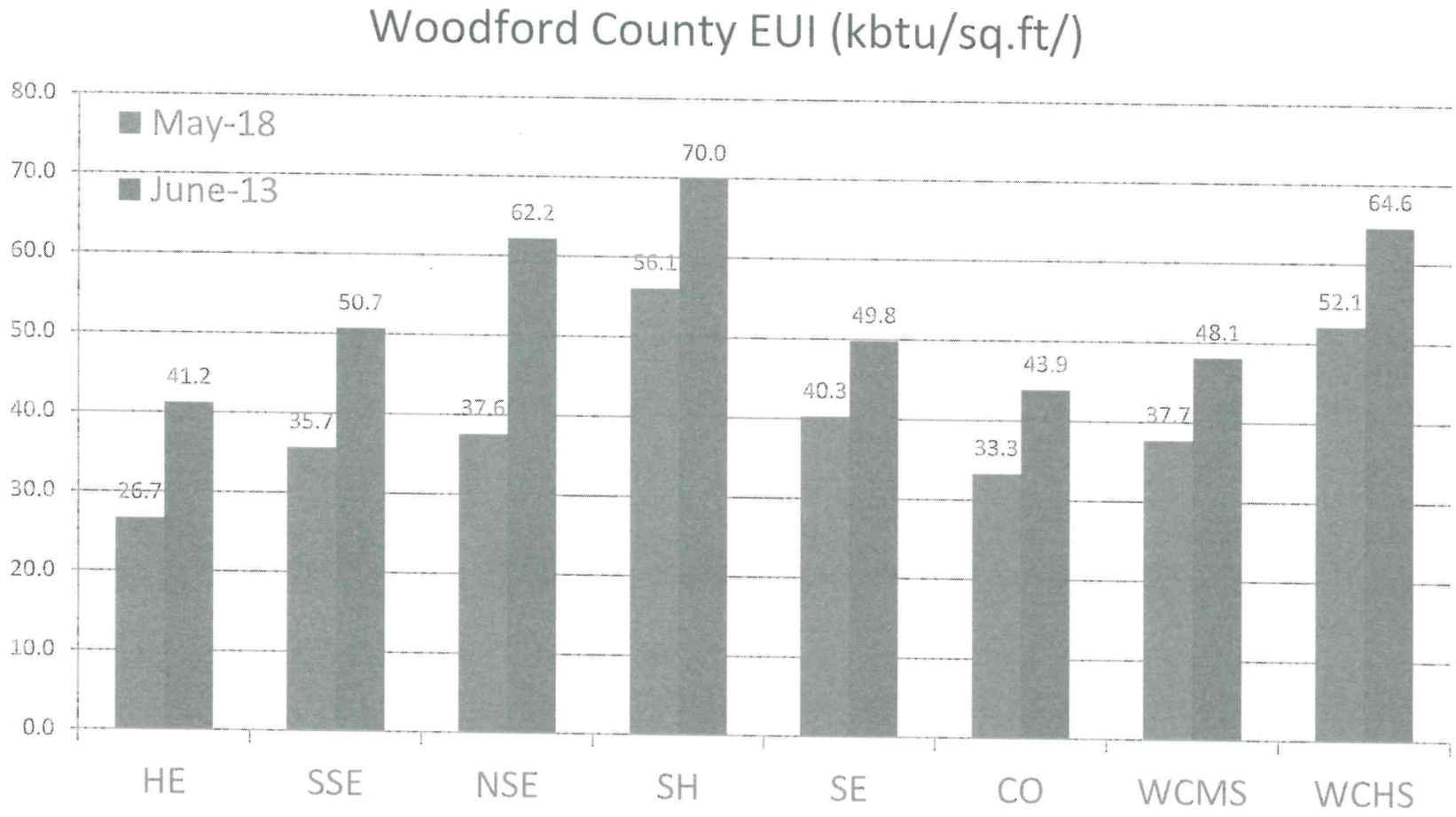
# Energy Management Avoided Costs Summary

| Project Description | Refunds/Rebates Received | Avoided Costs | Total Avoided Costs |
|---|---|---|---|
| Rate Change Savings Prior Years | | $83,687 | $83,687 |
| Rate Change Savings Current Year | | $37,594 | $37,594 |
| Consumption Savings Prior Years | | $1,167,211 | $1,167,211 |
| Consumption Savings Current Year | | $307,760 | $307,760 |
| Energy Projects Prior Years | $31,393 | | $31,393 |
| Energy Projects Current Year | $18,494 | | $18,494 |
| Total | $49,887 | $1,596,252 | $1,646,139 |

# Woodford County Energy Star Portfolio Manager Ratings

| Facility Name | Rating (1-100) May-18 | Rating (1-100) June-13 | Energy Use kbtu/sq ft May-18 | Energy Use kbtu/sq ft June-13 | Change From Baseline |
|---|---|---|---|---|---|
| Huntertown Elementary | 98 | 77 | 26.7 | 41.2 | -35.2% |
| Southside Elementary | 94 | 62 | 35.7 | 50.7 | -29.6% |
| Northside Elementary | 95 | 51 | 37.6 | 62.2 | -39.5% |
| Safe Harbor | 91 | 60 | 56.1 | 70.0 | -19.9% |
| Simmons Elementary | 91 | 62 | 40.3 | 49.8 | -19.1% |
| Central Office | 85 | 67 | 33.3 | 43.9 | -24.1% |
| Woodford County Middle School | 87 | 57 | 37.7 | 48.1 | -21.6% |
| Woodford County High School | 75 | 47 | 52.1 | 64.6 | -19.3% |
| | | | | | |
| Group Total | 87 | 57 | 40.8 | 53.2 | -23.3% |


Woodford County Energy Star Portfolio Manager Rating
May-18
June-13
Energy Star
120
100
80
60
40
20
0
98
77
94
62
95
51
91
60
91
62
85
67
87
57
75
47
HE
SSE
NSE
SH
SE
CO
WCMS
WCHS

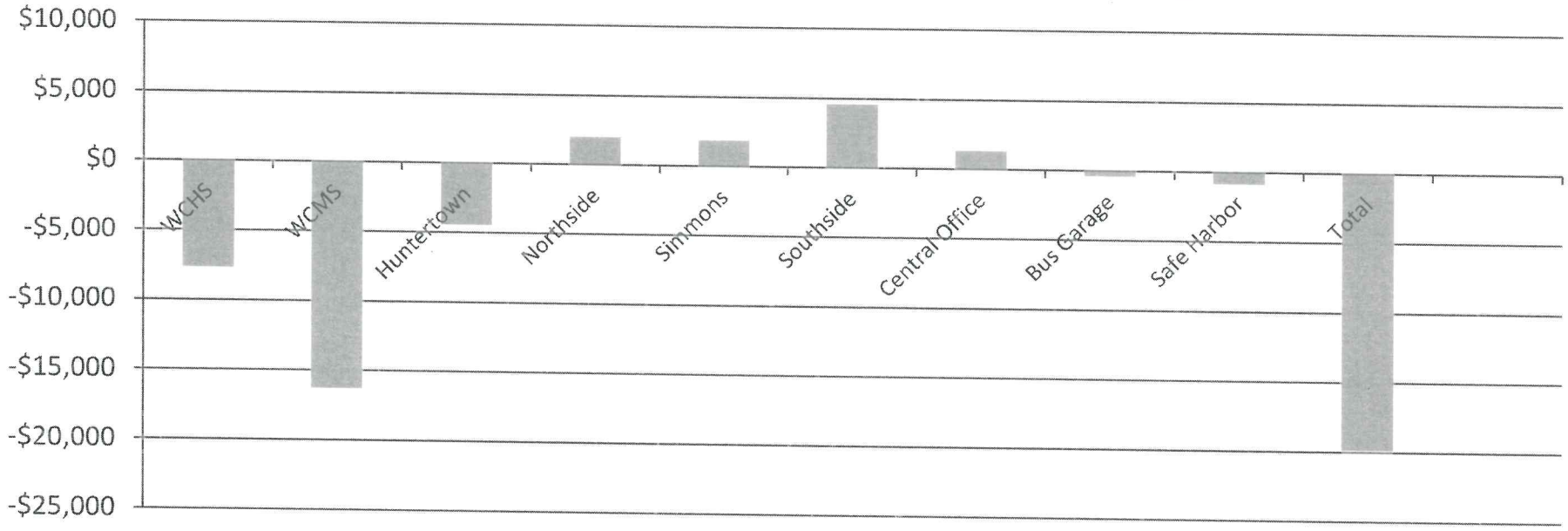

Woodford County EUI (kbtu/sq.ft/)
May-18
June-13
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
26.7
41.2
35.7
50.7
37.6
62.2
56.1
70.0
40.3
49.8
33.3
43.9
37.7
48.1
52.1
64.6
HE
SSE
NSE
SH
SE
CO
WCMS
WCHS

# Woodford County Schools Energy Management Report June 2018

| | June | | | | | 2017 - 2018 YTD Results | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| School Facility | 2017 Actual Kwh | 2018 Actual Kwh | % Reduction | Position | $ Cost Change | 2016-17 Actual Kwh | 2017-18 Actual Kwh | % Reduction | Overall Position | YTD $ Cost Change |
| WCHS | 137,280 | 142,543 | -3.8% | 5 | $521 | 1,727,121 | 1,650,524 | 4.4% | 4 | -$7,697 |
| WCMS | 131,957 | 125,280 | 5.1% | 1 | -$661 | 1,551,557 | 1,389,680 | 10.4% | 1 | -$16,266 |
| Huntertown | 33,000 | 38,400 | -16.4% | 8 | $534 | 578,600 | 534,000 | 7.7% | 3 | -$4,482 |
| Northside | 29,400 | 36,400 | -23.8% | 9 | $693 | 540,800 | 560,840 | -3.7% | 7 | $2,014 |
| Simmons | 44,760 | 45,000 | -0.5% | 4 | $24 | 681,240 | 699,960 | -2.7% | 6 | $1,881 |
| Southside | 37,231 | 42,880 | -15.2% | 6 | $559 | 532,220 | 577,984 | -8.6% | 9 | $4,599 |
| Central Office | 12,960 | 12,420 | 4.2% | 3 | -$53 | 174,960 | 188,100 | -7.5% | 8 | $1,320 |
| Bus Garage | 5,566 | 6,439 | -15.7% | 7 | $86 | 91,772 | 87,786 | 4.3% | 5 | -$401 |
| Safe Harbor | 8,081 | 7,701 | 4.7% | 2 | -$38 | 106,070 | 97,718 | 7.9% | 2 | -$839 |
| Total | 440,235 | 457,063 | -3.8% | | $1,666 | 5,984,340 | 5,786,592 | 3.3% | | -$19,870 |

# Electrical Energy Cost Comparison to Last Year

## July 2017 - June 2018 $ Cost Change




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