

**WOODFORD COUNTY BOARD OF EDUCATION
AGENDA ITEM**

ITEM #: XII C **DATE:** February 12, 2020

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

January 2020

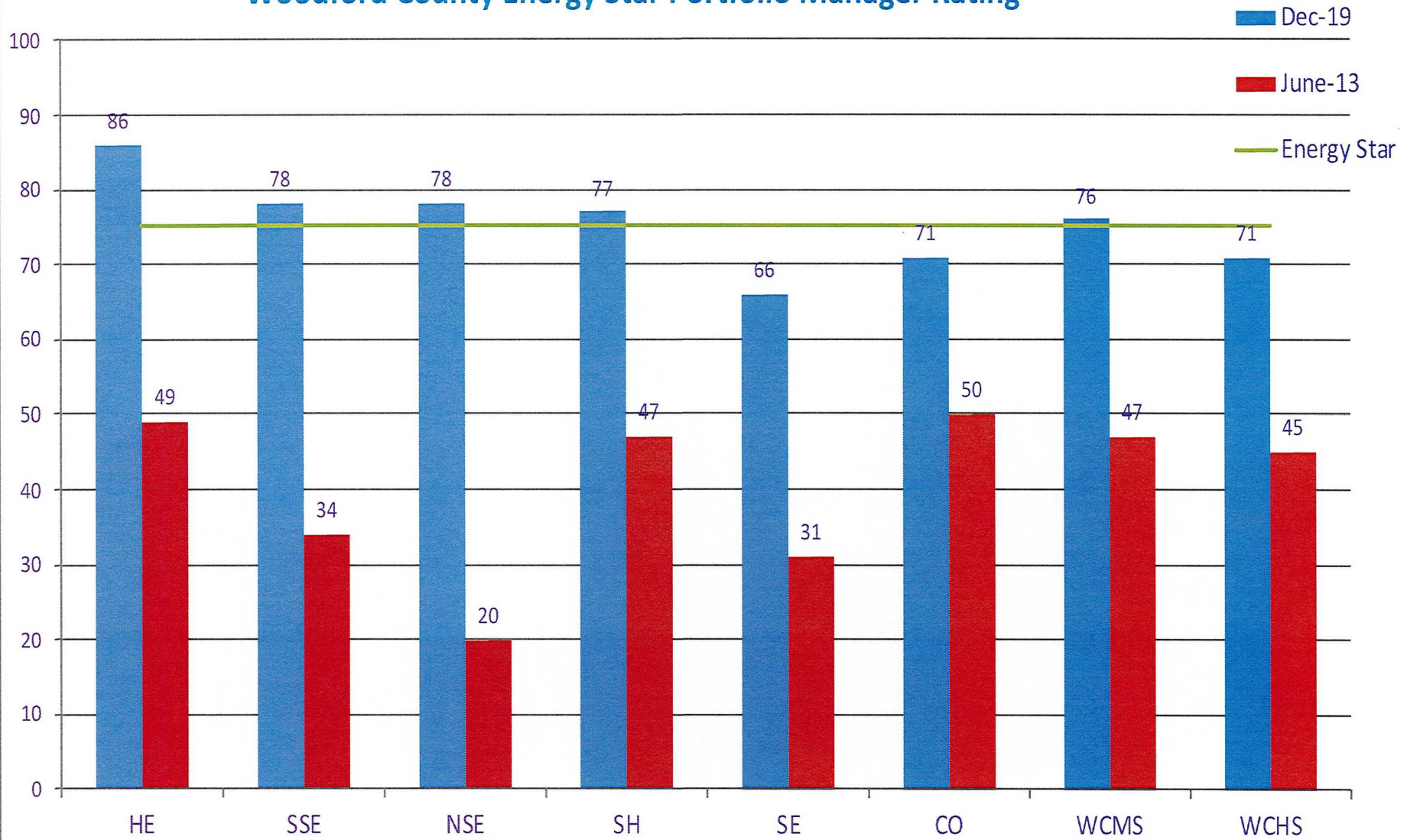
Energy Management Avoided Costs Summary

| Project Description | Refunds/Rebates Received | Avoided Costs | Total Avoided Costs |
|-------------------------------------|--------------------------|--------------------|---------------------|
| Rate Change Savings Prior Years | | \$147,299 | \$147,299 |
| Rate Change Savings Current Year | | \$29,810 | \$29,810 |
| Consumption Savings Prior Years | | \$1,794,103 | \$1,794,103 |
| Consumption Savings Current Year | | \$237,471 | \$237,471 |
| Energy Projects Prior Years | \$51,268 | | \$51,268 |
| Energy Projects Current Year | \$3,611 | | \$3,611 |
| Total | \$54,879 | \$2,208,683 | \$2,263,562 |

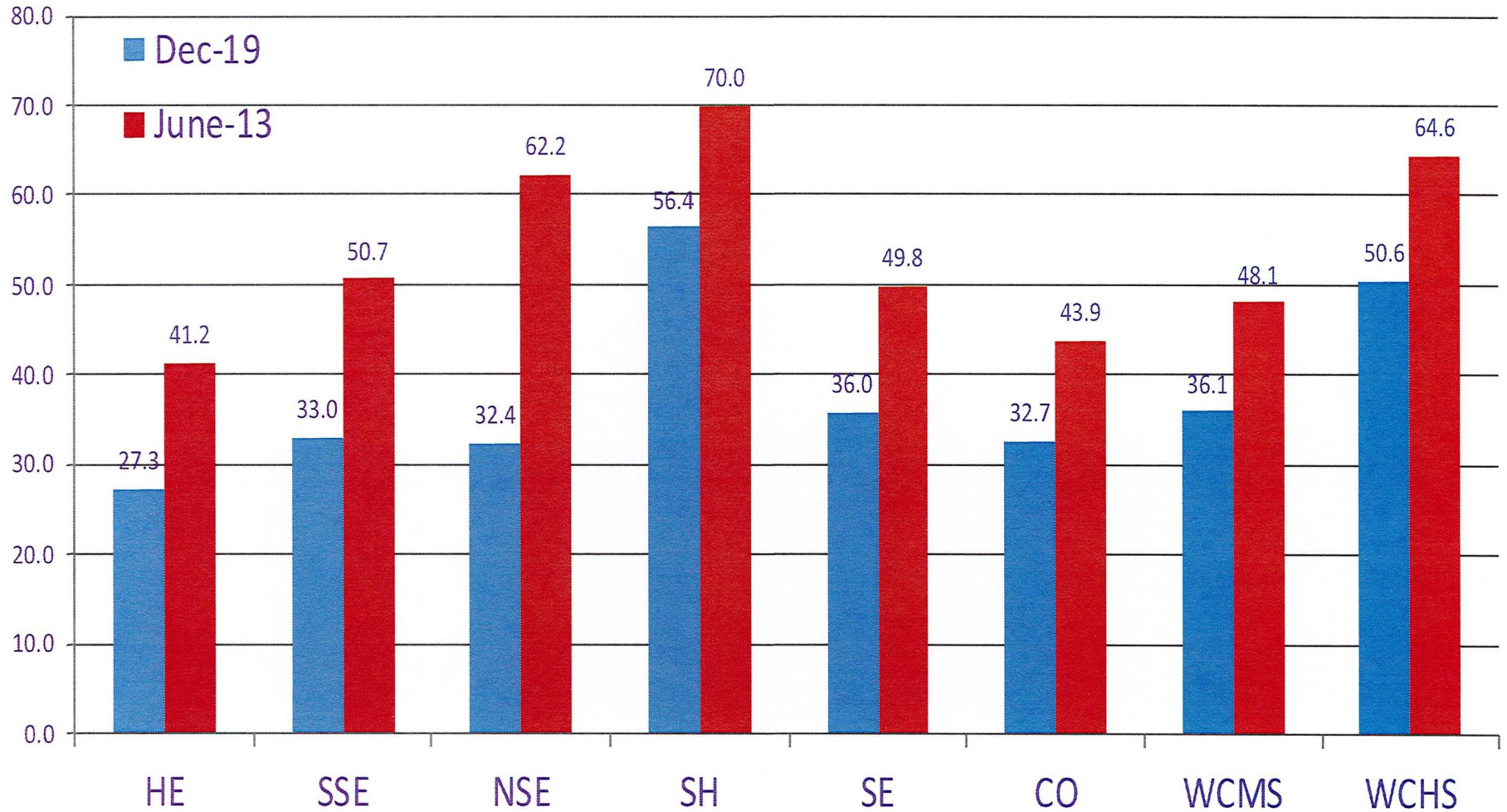
Woodford County Energy Star Portfolio Manager Ratings

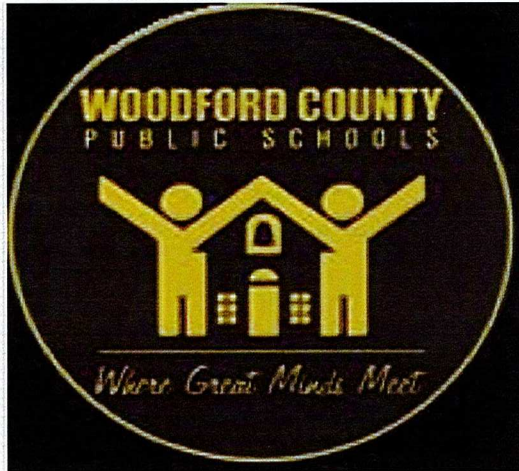
| Facility Name | Rating (1-100) Dec-19 | Rating (1-100) June-13 | Energy Use kbtu/sq ft Dec-19 | Energy Use kbtu/sq ft June-13 | Change From Baseline |
|-------------------------------|-----------------------------|------------------------------|------------------------------------|-------------------------------------|----------------------------|
| Huntertown Elementary | 86 | 49 | 27.3 | 41.2 | -33.7% |
| Southside Elementary | 78 | 34 | 33.0 | 50.7 | -34.9% |
| Northside Elementary | 78 | 20 | 32.4 | 62.2 | -47.9% |
| Safe Harbor | 77 | 47 | 56.4 | 70.0 | -19.4% |
| Simmons Elementary | 66 | 31 | 36.0 | 49.8 | -27.7% |
| Central Office | 71 | 50 | 32.7 | 43.9 | -25.5% |
| Woodford County Middle School | 76 | 47 | 36.1 | 48.1 | -24.9% |
| Woodford County High School | 71 | 45 | 50.6 | 64.6 | -21.7% |
| | | | | | |
| Group Total | 75 | 41 | 38.8 | 53.2 | -27.1% |

Woodford County Energy Star Portfolio Manager Rating



Woodford County EUI (kbtu/sq.ft/)



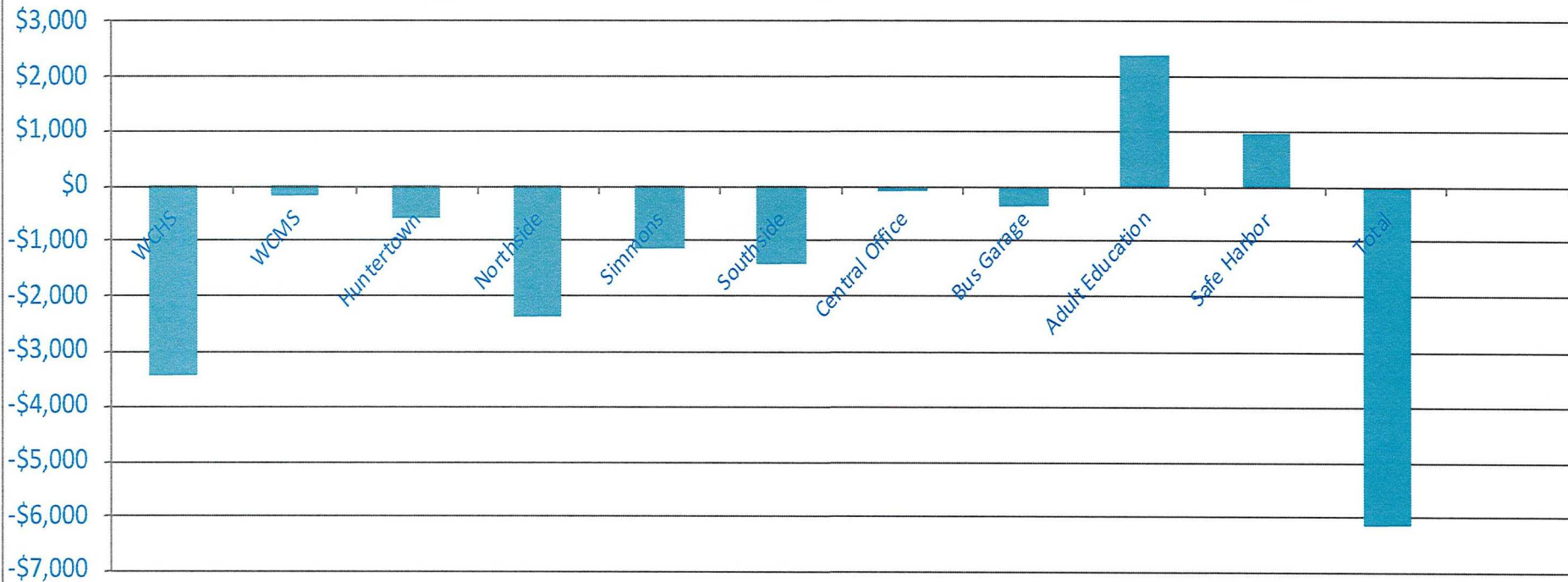


Woodford County Schools Energy Management Report January 2020

| School Facility | January | | | | | 2018 - 2019 YTD Results | | | | |
|-----------------|-----------------|-----------------|-------------|----------|-----------------|-------------------------|--------------------|-------------|------------------|--------------------|
| | 2019 Actual Kwh | 2020 Actual Kwh | % Reduction | Position | \$ Cost Change | 2018-19 Actual Kwh | 2019-20 Actual Kwh | % Reduction | Overall Position | YTD \$ Cost Change |
| WCHS | 114,187 | 116,137 | -1.7% | 5 | \$215 | 1,065,457 | 1,034,226 | 2.9% | 4 | -\$3,417 |
| WCMS | 107,520 | 103,920 | 3.3% | 4 | -\$398 | 801,360 | 799,920 | 0.2% | 8 | -\$158 |
| Huntertown | 41,400 | 42,200 | -1.9% | 7 | \$88 | 325,200 | 319,800 | 1.7% | 6 | -\$591 |
| Northside | 59,760 | 50,240 | 15.9% | 2 | -\$1,052 | 322,800 | 301,040 | 6.7% | 1 | -\$2,381 |
| Simmons | 52,560 | 54,480 | -3.7% | 8 | \$212 | 382,200 | 371,760 | 2.7% | 5 | -\$1,142 |
| Southside | 49,671 | 47,280 | 4.8% | 3 | -\$264 | 337,035 | 324,284 | 3.8% | 3 | -\$1,395 |
| Central Office | 19,260 | 19,620 | -1.9% | 6 | \$40 | 102,960 | 102,240 | 0.7% | 7 | -\$79 |
| Bus Garage | 9,374 | 6,615 | 29.4% | 1 | -\$305 | 52,746 | 49,452 | 6.2% | 2 | -\$360 |
| Adult Education | 2,844 | 3,418 | -20.2% | 9 | \$63 | 5,383 | 27,265 | -406.5% | 10 | \$2,394 |
| Safe Harbor | 8,284 | 10,136 | -22.4% | 10 | \$205 | 55,207 | 64,263 | -16.4% | 9 | \$991 |
| Total | 464,860 | 454,046 | 2.3% | | -\$1,195 | 3,450,348 | 3,394,250 | 1.6% | | -\$6,138 |

Electrical Energy Cost Comparison to Last Year

July 2019 - January 2020 \$ Cost Change



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