

**WOODFORD COUNTY BOARD OF EDUCATION  
AGENDA ITEM**

**ITEM #:** XIII C **DATE:** March 9, 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.

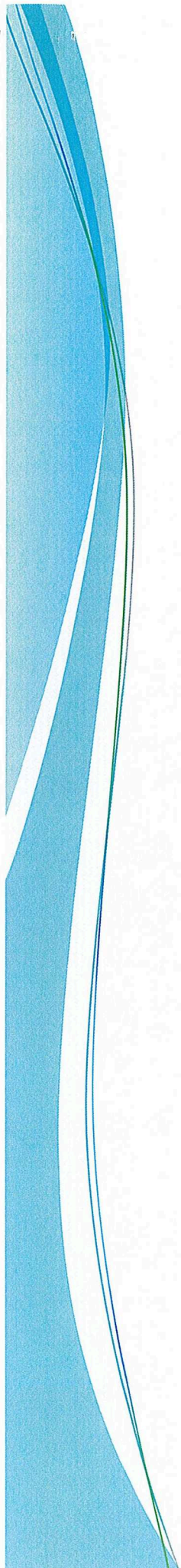
**IMPACT ON RESOURCES:**

**TIMETABLE FOR FURTHER REVIEW OR ACTION:**

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



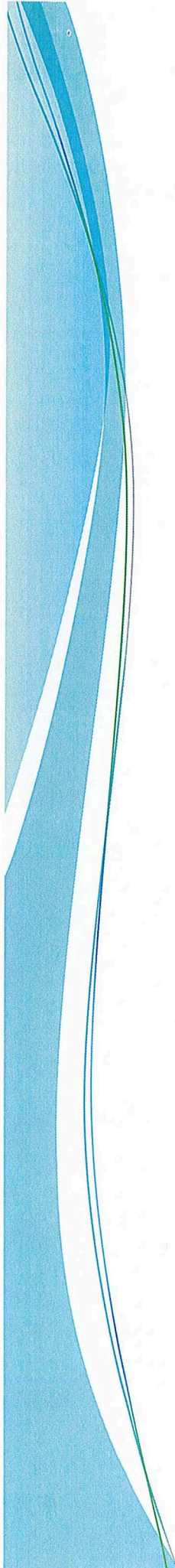
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# Woodford County Schools Energy Management Package

February 2020





## 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 |                          | \$34,069      | \$34,069            |
| Consumption Savings<br>Prior Years  |                          | \$1,794,103   | \$1,794,103         |
| Consumption Savings<br>Current Year |                          | \$287,756     | \$287,756           |
| Energy Projects<br>Prior Years      | \$51,268                 |               | \$51,268            |
| Energy Projects<br>Current Year     | \$3,611                  |               | \$3,611             |
| Total                               | \$54,879                 | \$2,263,227   | \$2,318,106         |

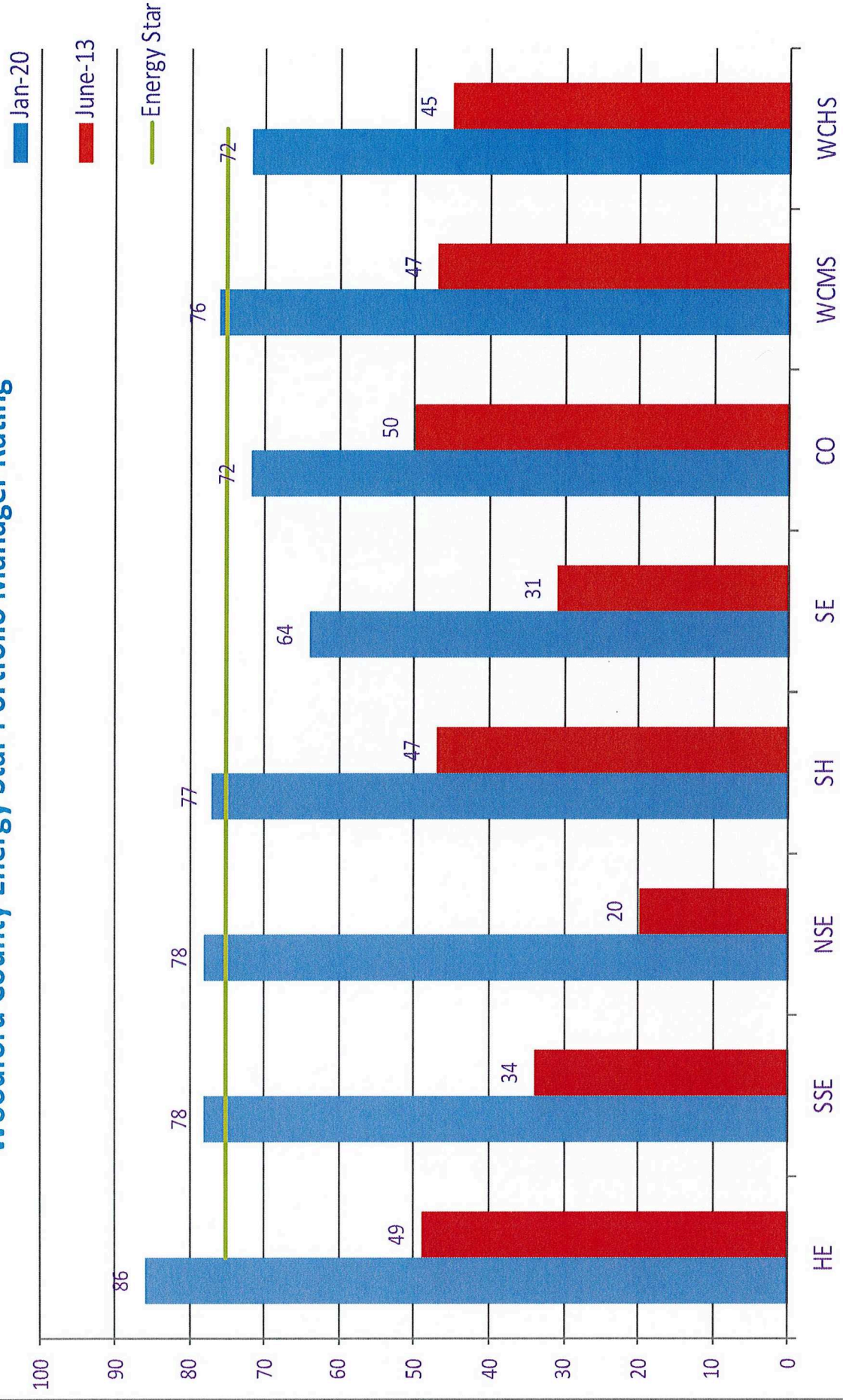


# Woodford County Energy Star Portfolio Manager Ratings

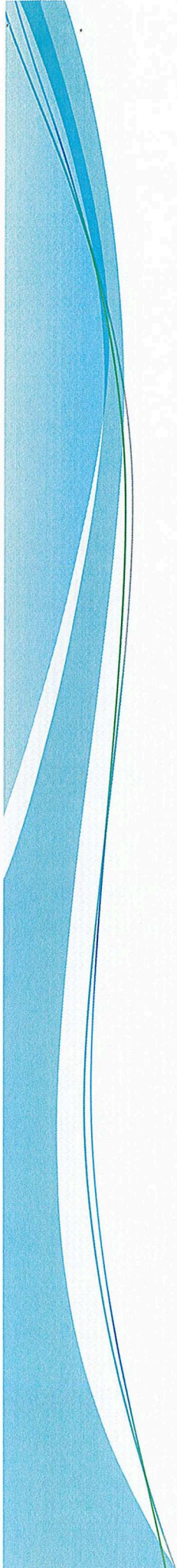
| Facility Name                 | Rating<br>(1-100)<br>Jan-20 | Rating<br>(1-100)<br>June-13 | Energy Use<br>kbtu/sq ft<br>Jan-20 | Energy Use<br>kbtu/sq ft<br>June-13 | Change<br>From<br>Baseline |
|-------------------------------|-----------------------------|------------------------------|------------------------------------|-------------------------------------|----------------------------|
| Huntertown Elementary         | 86                          | 49                           | 27.2                               | 41.2                                | -34.0%                     |
| Southside Elementary          | 78                          | 34                           | 32.2                               | 50.7                                | -36.5%                     |
| Northside Elementary          | 78                          | 20                           | 31.8                               | 62.2                                | -48.9%                     |
| Safe Harbor                   | 77                          | 47                           | 54.6                               | 70.0                                | -22.0%                     |
| Simmons Elementary            | 64                          | 31                           | 35.9                               | 49.8                                | -27.9%                     |
| Central Office                | 72                          | 50                           | 32.0                               | 43.9                                | -27.1%                     |
| Woodford County Middle School | 76                          | 47                           | 35.8                               | 48.1                                | -25.6%                     |
| Woodford County High School   | 72                          | 45                           | 49.0                               | 64.6                                | -24.1%                     |
|                               |                             |                              |                                    |                                     |                            |
| Group Total                   | 75                          | 41                           | 38.0                               | 53.2                                | -28.6%                     |



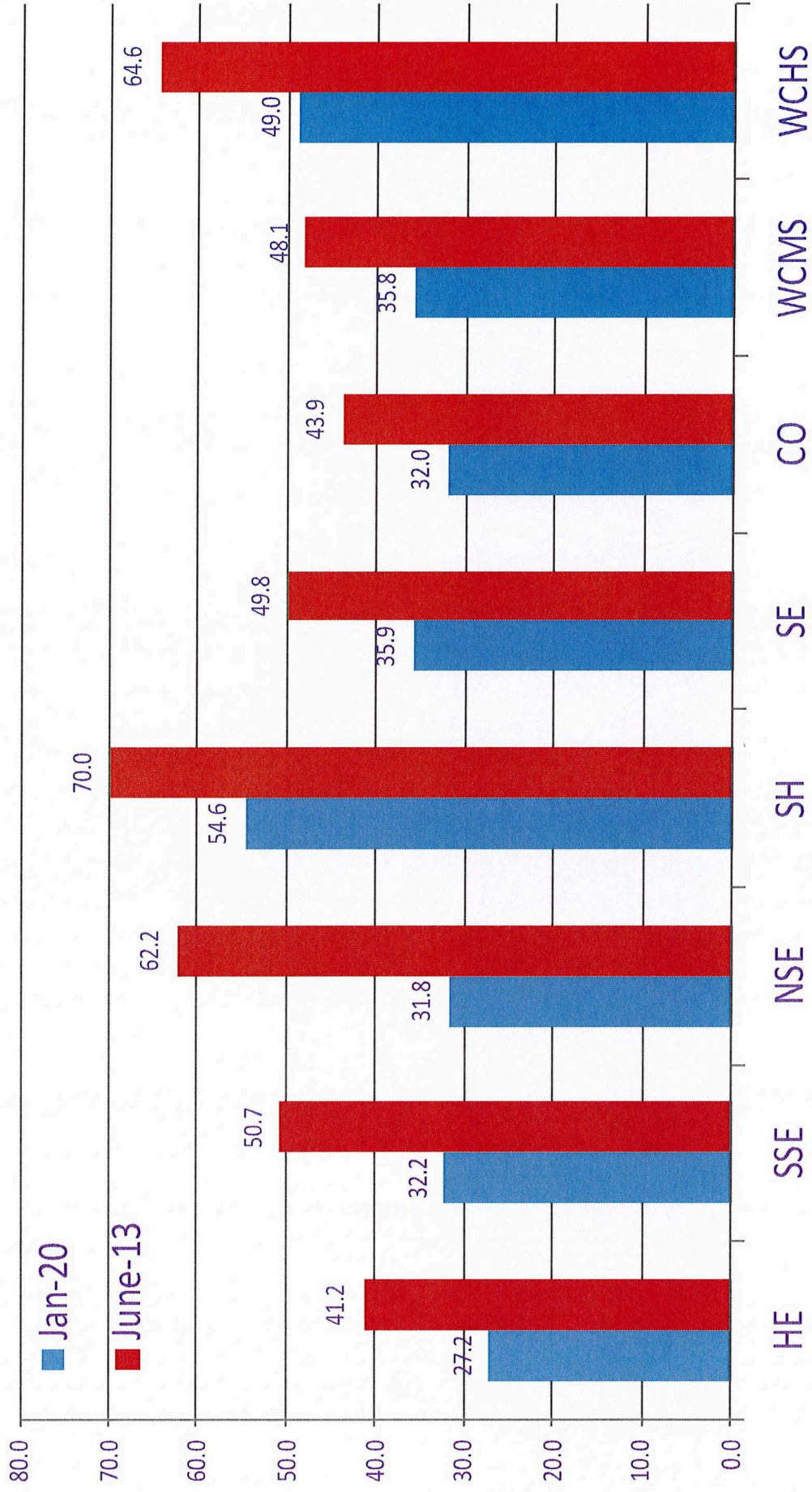
## Woodford County Energy Star Portfolio Manager Rating







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







# Woodford County Schools

## Energy Management Report

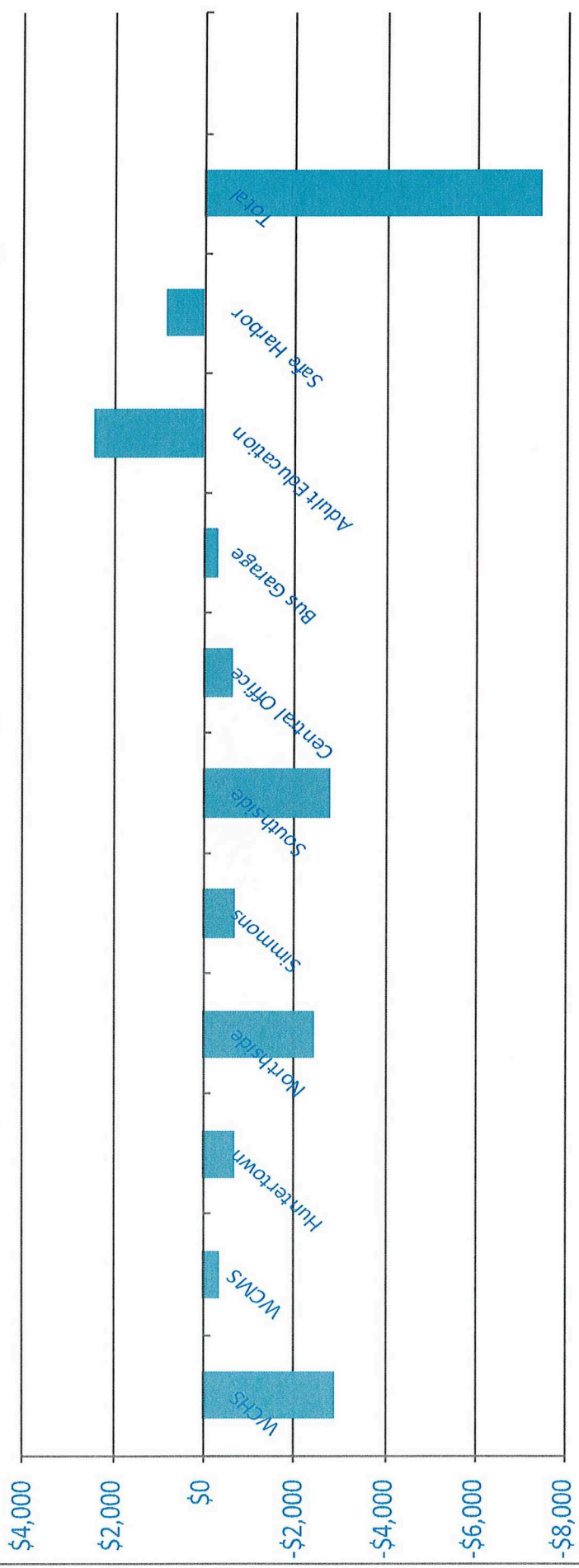
### February 2020

| School Facility | February        |                 |             |          |                | 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            | 128,155         | 132,642         | -3.5%       | 7        | \$473          | 1,193,612               | 1,166,868          | 2.2%        | 5                | -\$2,913           |
| WCMS            | 104,400         | 102,720         | 1.6%        | 4        | -\$177         | 905,760                 | 902,640            | 0.3%        | 8                | -\$340             |
| Huntertown      | 52,400          | 51,600          | 1.5%        | 5        | -\$84          | 377,600                 | 371,400            | 1.6%        | 6                | -\$675             |
| Northside       | 51,760          | 51,200          | 1.1%        | 6        | -\$59          | 374,560                 | 352,240            | 6.0%        | 2                | -\$2,431           |
| Simmons         | 54,960          | 59,280          | -7.9%       | 8        | \$456          | 437,160                 | 431,040            | 1.4%        | 7                | -\$667             |
| Southside       | 69,080          | 56,499          | 18.2%       | 2        | -\$1,327       | 406,115                 | 380,783            | 6.2%        | 1                | -\$2,759           |
| Central Office  | 22,860          | 17,820          | 22.0%       | 1        | -\$532         | 125,820                 | 120,060            | 4.6%        | 3                | -\$627             |
| Bus Garage      | 6,309           | 6,903           | -9.4%       | 9        | \$63           | 59,055                  | 56,355             | 4.6%        | 4                | -\$294             |
| Adult Education | 3,261           | 3,647           | -11.8%      | 10       | \$41           | 8,644                   | 30,912             | -257.6%     | 10               | \$2,425            |
| Safe Harbor     | 11,406          | 10,257          | 10.1%       | 3        | -\$121         | 66,613                  | 74,520             | -11.9%      | 9                | \$861              |
| Total           | 504,591         | 492,568         | 2.4%        |          | -\$1,269       | 3,954,939               | 3,886,818          | 1.7%        |                  | -\$7,420           |



# Electrical Energy Cost Comparison to Last Year

## July 2019 - February 2020 \$ Cost Change



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