**M E M O R A N D U M**

**TO: Randy Poe, Superintendent**

**Mr. Ed Massey, Chairperson**

**Board Members**

**DATE: December 3, 2018**

**RE: Energy Management Report**

**Following for your review is an energy management update, which includes data through October of the current school year. Highlights of the report include:**

* **In October, we used 251,519 kWh less in electricity than we did the year**

**before, but we paid $18,293.75 more. This is an overall approximate 8%**

**increase in costs and a 10% decrease in usage when compared to last**

**year. Last month in September we used 52,844 kWh less in electricity,**

**but paid $44,188.01 more. That was an approximate overall 15% increase**

**in costs from the year before. The new 2018 Duke Energy Rate Increase**

**that was effective June 1, 2018 predicted a 15-18% increase from last year**

**to this year**. **As a result,** **I sent a “High Bill Inquiry” to Duke Energy that**

**resulted in a determination that our increase in costs are mostly attributed**

**to the newly implemented rate increase.**

* + - **Credit of $15,624.40 from participation in the Duke Power Share program for the month of August.**

**Eric McArtor**

**Chief Operating Officer/Deputy Superintendent**

**Boone County Schools Energy Management Update**

**Total Cost and Use:**



|  |  |  |  |
| --- | --- | --- | --- |
| **Total School Year to Date** | **2018/2019 School Year** | **2017/2018 School Year** | **Difference** |
| Electric Cost | $1,069,453.04 | $996,387.18 | $73,065.86 |
| Electric Use (kWh) | 10,791,389 | 11,538,127 | -746,738 |
|  |  |  |  |
| Gas Cost | $62,108.76 | $81,296.82 | -$19,188.06 |
| Gas Use (CCF) | 86,996.00 | 120,650.00 | -33,654.00 |
|  |  |  |  |
| Total Utility Cost | $1,131,561.80 | $1,077,684.00 | **$53,877.80** |
|  |  |  | **Cost diff for YTD current school year over previous** |
|  |  |  |

**Credits/Rebates/Incentives:**



**Action Items:**



**ATTACHMENT**



**Cooling degree days (CDD) are a measure of how much (in degrees), and for how long (in days), the outside air temperature was *above* a certain level (i.e., 65°F). Conversely, heating degree days (HDD) are a measure of how much (in degrees) and for how long (in days) that the outside air temperature was *lower* than 65°F. As the above table shows, October 2018 was cooler than October 2017.**