

ENERGY BRIEFING

for the Board of Education

December 7, 2017



A Few Things to Celebrate

- In the past 10 years, the Energy Program has yielded \$5.4 million in avoided costs!
- Our Cost Avoidance in 2016 compared to 2006 is over 38%!
- Our EUI (Energy Usage Index – Energy costs divided by square footage), has gone from 51.5 to 33.6 since 2010, which ranks us third in the state for EUI! (Note: The national average EUI for schools is 73).
- The initial investment with Cenergistics continues to show return with invaluable training and resources at no additional charge for the lifetime of the relationship!
- We recently negotiated a lower electric rate at BMS. The school is operating at a much higher rate of efficiency. That rate decrease will mean a \$2,400 savings annually. We will review it with KU again at the end of January, and the rate may decrease again!

Current Activity

- Bill Tracking using EnergyCAP
- Building Walk-throughs & Flagged Issues
- Project Sleep Mode: Stewardship of computers
- Updating of District Energy Plan
- Improving shut down practices for breaks
- Monitoring for more potential rate decreases

Upcoming Projects

- Energy Education integration in the classroom
- Reconvening the Energy Committee
- Routine temperature/humidity monitoring
- Student Energy Teams – 2018-19
 - Identify 3 pilot schools
 - Recruit personnel
 - Provide training
 - Pilot groups explore program Spring 2018
 - Pilot Schools officially begin Fall 2018
 - Add more schools 2019-20 school year
- Updating District Energy Policy

Cost Avoidance: the calculated value of the difference between what we actually spend on utilities and what we would have spent had we maintained our old habits and methods of using energy.

Baseline Year: For NCS, 2006. The energy costs recorded before the Energy Program was implemented, and the basis of comparison for subsequent years.

Baseline Adjusted to Current Conditions (BATCC): An estimate of what the district would have spent in a particular year without the energy program in place. It is adjusted for changes in things like billing rates, square footage of facilities, weather trends, and new equipment.