SCHOOL ENERGY MANAGERS PROJECT

Kentucky Board of Education

December 6, 2017

Ron Willhite, Director

Kentucky School Boards Association-School Energy Managers Project







School Energy Managers Project

Originated March 2010

Federal Funding - \$5 Million – FY2010 to FY2012

Energy Cabinet - \$800,000 - FY2013 to FY2016

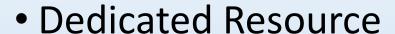
Utility DSM Funding - \$4.4 Million - FY2014 forward







Energy Manager



- No Priority Shuffling Boots on the Ground
- Significant ROI (NON Classroom Position Saves Multiple Classroom Positions)
- Knowledgeable Connection to Utility Companies





- Evaluates and Presents Energy Saving Options
- Facilitates Policy Compliance
- Translates Technical Information









KSBA Functions



- Funding & Technical Support
- Energy Manager Training



- Data Tracking and Reporting Assistance
- Stakeholder Collaboration
- Rate Case Intervention







KSBA - SEMP Message Best Fuel Source — Energy Efficiency

- Doesn't Require New Technology
- Can Do It Today
- Reduces Greenhouse Gas
- Lowers Cost







What have schools done



- Employed Energy Managers
- Facility & Operation Audits
- Behavior Staff/Student Involvement





- Adjusted HVAC temperature set points
- o Incorporated HVAC temperature set backs
- Building Automation Systems
- Equipment Upgrades
- Lighting Retrofits
- Performance Contracts

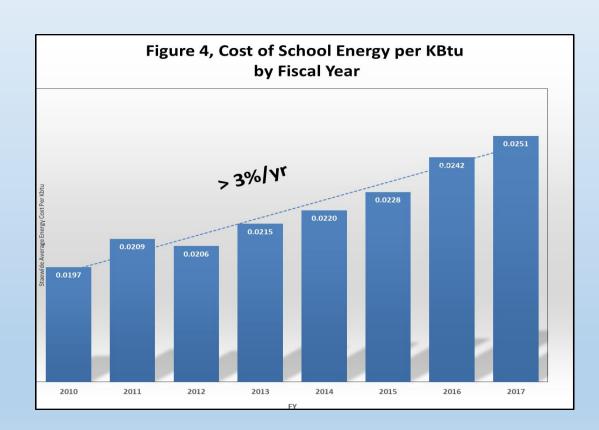


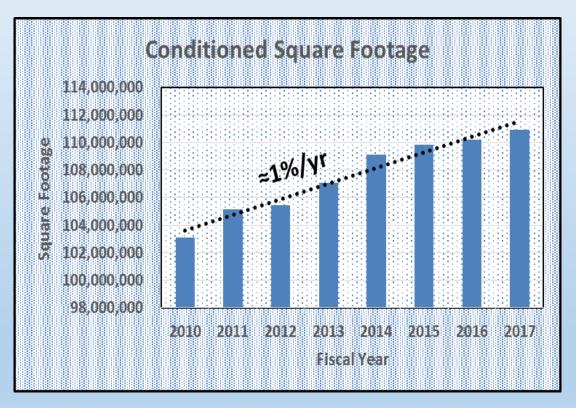






ANNUAL SCHOOL ENERGY REPORT UTILITY COSTS AND SPACE INCREASES



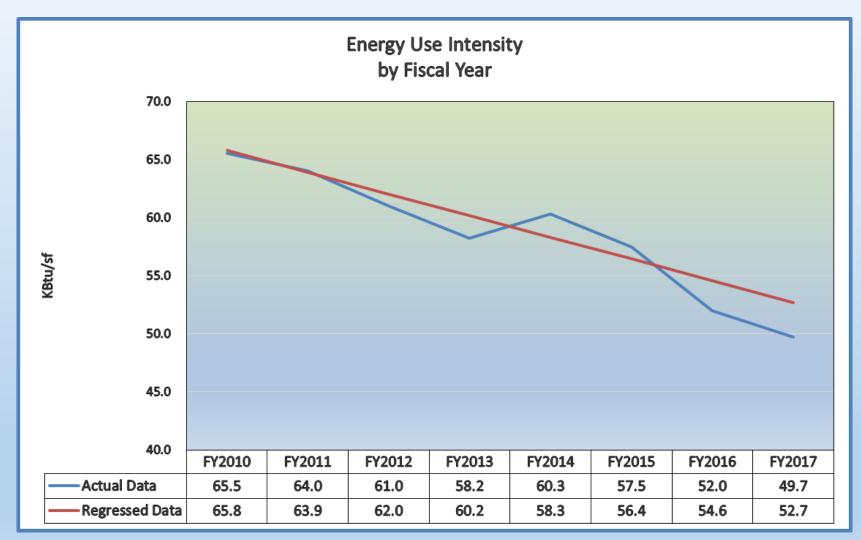








DISTRICTS BECOMING MORE EFFICIENT



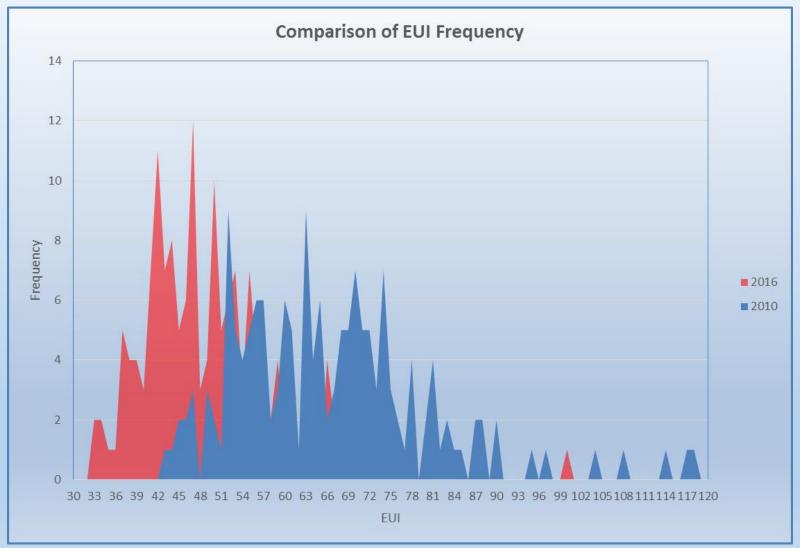
EUI: Energy Use per Square Foot







EUI FREQUENCY DISTRIBUTION

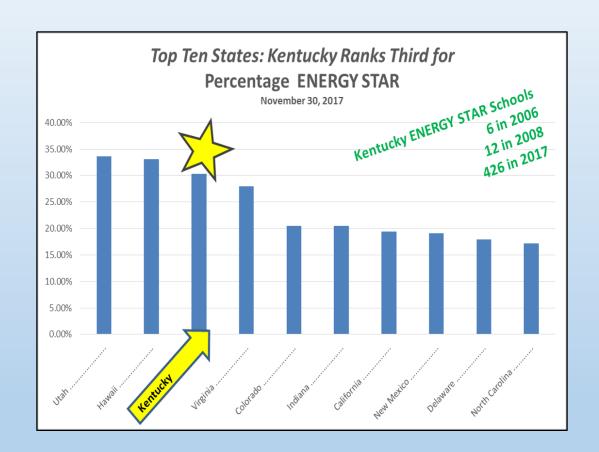


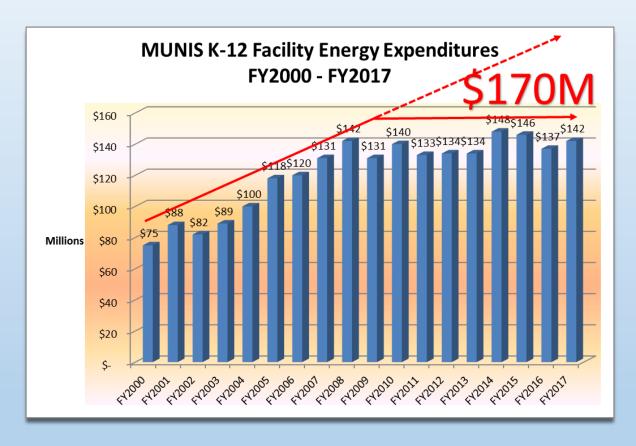






RESULTS



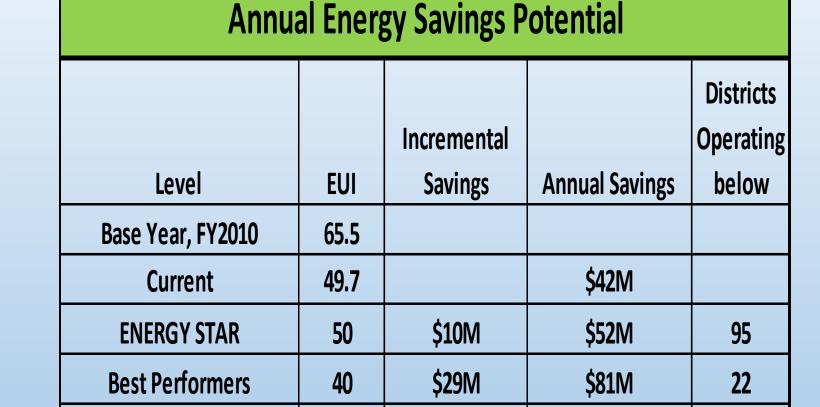




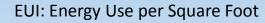




ANNUAL ENERGY SAVINGS POTENTIAL







BAG Performance





30

\$55M

\$136M



UTILITY RATE CASE INTERVENTION



• 2016 KU/LGE



• Request Reduction - \$3.3 M

• Pilot School Rate - \$1.5 M Benefit



2016 Kentucky Power (Pending)

Duke (Pending)









April 16 – 17, 2018

Embassy Suites

Lexington, KY





