

LET'S SAVE ENERGY

School Energy Efficiency News



KSBA-SEMP ... Cultivating energy efficiency, best practices in Kentucky school districts

March 2016

ENERGY VOICES from around Kentucky

More than ever these days, board members need to find creative ways to get more value for the dollars they spend. In most districts, energy costs are the highest district expenditure, other than salaries. Kentucky school district leaders have come to realize that energy costs are a controllable expense.

So what are the questions you should be asking to get the most from your energy dollars? Energy managers throughout the state have contributed these questions to consider as you are attempting to support projects or initiatives that save energy and maintenance expenses, have a short payback, and improve the environment for students.

Complying with board policy and state statutes

- Who are the members of the District Energy Team?
- Who is responsible for monitoring and tracking energy consumption?
- Is the District Energy Management Plan updated and reviewed annually?
- When is the annual Board Status Report issued that outlines the progress of the District Energy Management Plan? (This should include annual energy consumption, costs, assessment and implementation of energy projects, and progress toward managing and reducing energy costs.)
- What are the life cycle costs for an energy project and what is the simple payback period?

Progressing with energy management efforts

- What is our progress month-to-month and year-to-year?
- Does our budgeting process include energy conservation measures?
- What is the level of commitment to reducing wasteful spending on energy?



Energy managers contributing to this article include: Jim McClanahan, Nancy Wenz, Terry Anderson, Kimberly Joseph, Greg Binkley, Terry Salyer, Kevin Stoltz, David Dobbins, Patrick Owens, Karen Lenihan and Bruce Sauer.

- If we do not make changes in our buildings or how we use them, what will be the impact in the next two years?
- What are our low- or no-cost energy efficiency measures?
- Do we have HVAC controls for our facilities? Are we conditioning buildings when they are unoccupied?

Becoming proficient in energy management efforts

- Is each function from the district represented on the District Energy Team? What is their experience level? Are we just going through the motions?
 - How do we instill a culture of energy efficiency and maintain a comfortable learning environment?
 - What are the short-term and long-term plans for energy improvements? How are we deciding on the best energy- efficiency project for our investment?
- (continued on page two)

Kentucky's Battle of the School Buildings And the Competition Begins!

We compete on the court, the field, and the track, why not compete at the meter! Kentucky's Battle of the School Buildings is now underway!

Kentucky's Battle of the School Buildings provides the opportunity for recognition for faculty, staff and students who are involved in saving energy . . . and money! Kentucky's P-12 schools have made significant progress in the last five years in eliminating wasteful spending on energy. School boards, staff, and students have become focused on implementing best energy efficiency practices.

Involving staff and students who are in the building most every day leads to greater success in efficient use of energy resources.

Occupants know best if rooms are too hot or too cold, which could point to a potential HVAC savings. They know when rooms are not being used, so that the lights could be turned off. They see the actual opportunities for reducing energy usage. When they realize the cost of that energy, that's when a serious commitment is seen.

KSBA-SEMP will recognize the Top Kentucky School Building, determined by the percentage-based reduction in energy use achieved from 2015 to 2016. KSBA-SEMP will also recognize Schools who reduce energy use by 20 percent or more from 2015 to 2016

The competitors who will face off in Kentucky's Battle of the School Buildings and listed on pages two and three of this newsletter.

ENERGY VOICES from around Kentucky (continued from page one)

Becoming proficient in energy management efforts (continued from page one)

- What energy efficiency investments can the district make that will produce a return over time?
- What process do we use to determine the most appropriate technologies to use for energy improvements?
- Who is completing utility rebate applications to reduce money spent on higher-efficiency options?
- Are our facilities on the most economical rates available? Are our utility bills being monitored for billing errors or incorrect minimum amounts?
- How are our facilities being used on nights and weekends? Are temperature set-points appropriately aligned with building occupancy?
- Is energy use factored into the district building use policy for non-school related activities?
- Do we require ENERGY STAR labeled products for new purchases in our district?

Distinguished energy management efforts

- Is our Energy Management Plan moving in the right direction? Are we achieving that direction fast enough?
- Is energy efficiency a key component when your Local Planning Committee is developing the District Facility Plan?
- What is the impact of having a full-time energy manager?
- When we spend maintenance dollars for lighting repairs are we updating to the latest technology as we make those changes?
- Why would we install updated lighting that is not LED? What is the length of the warranty? 10 years?
- How is this project improving the environment for the students in the classroom?
- How will this project impact not only the energy budget but also the maintenance budget?
- Should we consider working with a retro-commissioning company for existing buildings to find ways to save energy and costs?

KSBA-SEMP supports districts with high-level, technical issues in managing energy resources. A skilled energy manager can transform technical solutions into an understandable energy efficiency initiatives, a priority in reducing the impact of rising utility costs on district budgets.



KSBA-School Energy Managers Project Presents

Kentucky's Battle of the School Buildings

An ENERGY STAR®
Battle of the Buildings™ Competition



District

Schools

August Independent School	August Independent School	
Barren County Schools	Austin Tracy Elementary	North Jackson Elementary
	Barren County High School	Park City Elementary
	Barren County Middle School	Red Cross Elementary
	College Street Campus	ROTC
	Eastern Elementary	Temple Hill Elementary
	Hiseville Elementary	Trojan Academy
Bath County	Bath County High School	Owingsville Elementary School
	Bath County Middle School	
Berea Independent Schools	Berea Community Schools	
Boone County Schools	Conner Middle School	
Bourbon County Schools	Bourbon Co Central Elementary	Bourbon County Preschool/Headstart
	Bourbon County High School	Cane Ridge Elementary
	Bourbon County Middle School	North Middleton Elementary
Bullitt County Schools	Brooks Elementary School	Mt. Washington Middle School
	Bullitt Lick Middle School	Nichols Elementary School
	Cedar Grove Elementary	North Bullitt High School
	Crossroads Elementary School	Overdale Elementary School
	Eastside Middle School	Pleasant Grove Elementary School
	Freedom Elementary School	Roby Elementary School
	Hebron Middle School	Shepherdsville Elementary
	Lebanon Junction Elementary	Zoneton Middle School
	Maryville Elementary School	
Caldwell County Schools	Caldwell Co. Elementary School	Caldwell Co. Middle School
	Caldwell Co. High School	Caldwell Co. Primary School
Christian County Schools	Christian County Middle School	Indian Hills Elementary School
	Crofton Elementary School	Pembroke Elementary School
	Freedom Elementary School	Sinking Fork Elementary School
	Hopkinsville Middle School	South Christian Elementary School
Crittenden County Schools	Crittenden County High School/Middle	School Campus
Dawson Springs Independent	Dawson Springs Jr.-Sr. HS & Elementary	
Estill County Schools	Estill County High School	South Irvine Kindergarten/Presch
	Estill County Middle School	West Irvine Intermediate School
	Estill Springs Elementary School	
Fairview Independent	Fairview Elementary School	



KSBA-School Energy Managers Project Presents

Kentucky's Battle of the School Buildings

District	Schools	
Fleming County	Ewing Elementary	Hillsboro Elementary
	Flemingsburg Elementary	Simons Middle School
Grant County Schools	Grant County High School	
Hopkins County Schools	Brownings Springs Middle School	Madisonville North Hopkins High Scho
	Earlington Elementary School	Pride Avenue Elementary School
	Grapevine Elementary School	South Hopkins Middle School
	Hanson Elementary School	Southside Elementary School
	Hopkins County Central High School	West Broadway Elementary School
	James Madison Middle School	West Hopkins School
	Jesse Stuart Elementary School	
Mason County	Straub Elementary School	
McLean County Schools	Calhoun Elementary	McLean Co. Middle School
	Livermore Elementary School	Sacramento Elementary
	McLean Co. High School	
Nelson County Schools	Bloomfield Elementary School	Horizons Academy
	Bloomfield Middle School	Nelson County High School
	Boston School	New Haven School
	Cox's Creek	Old Kentucky Home Middle School
	Nelson Co Early Learning Center	Thomas Nelson High School
	Foster Heights Elementary School	
Oldham County Schools	South Oldham Middle School	
Owen County Schools	Owen County High School	
Perry County Schools	Perry County Central High School	
Robertson County School	Robertson County School	
Rowan County	Rowan County Senior High	
Scott County Schools	Anne Mason Elementary	Royal Spring Middle School
	Eastern Elementary	SCHS/9th Grade/SCMS Campus
	Elkhorn Crossing School	Scott County Preschool
	Garth Elementary	Southern Elementary
	Georgetown Middle School	Stamping Ground Elementary
	Lemons Mill Elementary	Western Elementary
	Northern Elementary	
Shelby County Schools	Clear Creek Elementary	Shelby County High School
	East Middle School	Simpsonville Elementary
	Heritage Elementary	Southside Elementary
	Martha Layne Collins High School	West Middle School
	Painted Stone Elementary	Wright Elementary
Warren County Schools	Lost River Elementary School	
Woodford County Schools	Huntertown Elementary	Southside Elementary
	Northside Elementary	Woodford County High School
	Safe Harbor	Woodford County Middle School
	Simmons Elementary	