

October 2015

When is losing really gaining? ... When you're in the Kentucky Battle of the School Buildings!

Many times losing is negative. In the Kentucky Battle of the School Buildings Competition, losing means winning for a school.

The national competition has produced an average savings of approximately 8 percent, amounting to \$20,000 per building per year for commercial buildings. Some competing buildings have reduced energy use by 35 percent and as much as more than 50 percent.

In Kentucky's Battle, schools from across the state will measure and track their monthly energy use for calendar year 2016 using ENERGY STAR Portfolio Manager, an online measurement and tracking tool. Comparisons will be made with the schools' 2015 energy use. KSBA-SEMP will recognize the Top Kentucky School Building, determined by the greatest percentage

-based reduction in energy use achieved from 2015 to 2016. KSBA-SEMP will also recognize schools that reduce energy use by 20 percent or more from 2015 to 2016.

Any K-12 public school can participate by:

- Completing the competition form.
- "Sharing the property" from Portfolio Manager with the SEMP Team.
- Reporting energy usage on a monthly basis.

To enroll in this competition, complete the Competition Form on the next page. Schools that participate in this competition will also qualify to participate in the "National Battle for the Buildings." For more information, contact martha.casher@ksba.org



KSBA-School Energy Managers Project Presents

Kentucky's Battle of the School Buildings

An ENERGY STAR®

Battle of the Buildings™ Competition



KSBA-School Energy Managers Project Presents



Kentucky's Battle of the School Buildings

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COMPETITION REGISTRATION FORM

The Kentucky Battle of the School Buildings is to recognize:

- The Top School Building that reduces its energy use on a percentage basis over calendar year 2016, as compared with calendar year 2015.
- Any school that reduces its energy use as measured by the weather normalized source EUI (kBtu/sq ft) by at least 20% over calendar year 2016, as compared with calendar year 2015.

Here's all you need to do to participate:

- Complete the competition form below
- "Share the property" from Portfolio Manager with the SEMP Team
- Report the following by dates listed:

\Diamond	2/15/2016	Benchmark FY 15 data into Portfolio Manager,
\Diamond	3/1/2016	Listing of energy projects/practices that will contribute to reduction
\Diamond	5/15/2016	Report 1st Quarter energy usage into Portfolio Manager,
\Diamond	8/15/2016	Report 2nd Quarter energy usage into Portfolio Manager,
\Diamond	11/15/2016	Report 3rd Quarter energy usage into Portfolio Manager,
\Diamond	3/15/2017	Report 4th Quarter energy usage into Portfolio Manager,
\Diamond	5/15/2017	KSBA-SEMP to communicate and recognize final results.

Complete this form and email to martha.casher@ksba.org by 2/1/2016

School Name:		District					
Sq. Ft	Year built	Number of stu	dents				
Address:		_ City	Zip code				
Principal	Enerc	gy Manager					

We the understand that we are responsible for tracking all energy used in our school and will enter that information into Portfolio Manager in order for our energy data to show our progress.

Different districts, different needs

Energy manager takes individualized approach in serving seven districts

The basics of energy management are the same for every district. They include appointing a district energy committee, assessing facilities, developing the energy management plan (EMP), and then reporting the status of those efforts annually. When it comes to implementation of the EMP, differences may come into play.

"I have to be flexible to meet the differing needs of my districts," says Terry Anderson, energy manager for the Fleming County Partnership, which encompasses Fleming, Bath, Mason, Menifee, Robertson and Rowan county districts and Augusta Independent.

In one district, the school board chose a performance contract to implement mechanical, HVAC and lighting upgrades to improve existing facilities. Anderson worked with Bath County Facilities Director Burnsy Stewart to help educate others in the district on decisions being made about these energy projects.

In Augusta Independent Schools, Anderson began working with Superintendent Lisa McCane and Facilities Director Barry Caskey to plan the replacement of older gym lighting with new, high-efficient LED lighting. Savings are estimated at 21,709 kWh or \$2,062 annually.

The Mason County district had other energy management needs. As the district looked to expand academic programing to include a STEAM (science, technology, engineering, agriculture and medicine)

Academy, it had an opportunity to renovate a factory building that it had been using as a sports and agriculture facility. One-third of the 81,000-square-foot building now has been renovated, with improvements made to its envelope, to become part of the high school facilities. Classrooms to serve the STEAM classes have been built to include an efficient HVAC system and LED lighting. Another energy project in Mason County resulted in Straub Elementary School reducing energy consumption to become an ENERGY STAR-Labeled School.

The Fleming County school district has also focused on implementing projects to reduce energy consumption. From optimizing HVAC controls to developing shutdown procedures for breaks and implementing occupancy sensors to control the lighting systems, the district has made daily decisions to reduce energy use. The impact of these decisions are reflected in the district having three ENERGY STAR-labeled schools with excellent ENERGY STAR ratings. They are:

- Ewing Elementary School 83 Rating
- Fleming County High School 95 Rating
- Hillsboro Elementary School 83 Rating

Anderson's utility company background led him to identify potential cost savings for his districts. He recognized that four of his districts could benefit by changing their mercury vapor security lighting to updated high-pressure sodium fixtures that would

provide better lighting for a reduced cost, so he decided to complete an inventory of the outdoor lights being leased from the utility company. Besides changing the fixtures, Anderson also found out the district had three fixtures on the books that were no longer in existence. Those savings alone amounted to:

- \$972 annually
- \$4,114.76 in refunds for overbilling of nonexistent lights

Having an energy manager who is able to be flexible and responsive to the individual needs of each district is paying off – by both saving money for the districts and reducing demand for utility companies.



Jon Nipple from KSBA-SEMP presents the Governor's Certificate for ENERGY STAR-Labeled School recognition to Ewing Elementary School Principal Michelle Hunt. Also pictured from left are Fleming County Superintendent Brian Creasman, CIO Denise Brown, Energy Manager Terry Anderson and Maintenance Director Greg Dunaway.



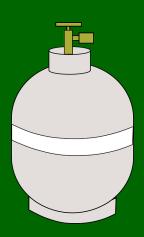
News Notes



Energy Awareness Month

Governor Steve Beshear has proclaimed October as Energy Awareness Month. He states that "the wise use of energy and energy-producing resources is essential to the future economic prosperity and environmental health of our nation" and that "energy efficiency is important to Kentucky."





Propane customers should plan ahead for winter chills

The Kentucky Energy and Environment Cabinet and the Kentucky propane industry urge consumers to prepare now for this coming winter by participating in early fill programs while prices are low and propane is in abundant supply. "The best way to reduce the effects of any potential problem is to be prepared," said cabinet Secretary Len Peters.

Annual Energy Management Report is being prepared for submission to the LRC

October 1 marked the deadline for submission of the annual Energy Management Report (EMR). The information is being reviewed, compared against MUNIS and previous-year's data to calculate an Energy Utilization Index (EUI) for all school districts. This is in preparation for the annual reporting requirements for KRS 160.325.

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-	Walton Veron	44.6	42.1	62	Ohio	56.4	34.6		Lewb	63.6	
	het	21.1	42.7	- 10	South	Desir	24.4	121	Perry	67.6	-
	Anderson	52.3	43.4	54	Willemsburg	34.5	34.6	122	Serbtown	62.8	
	high	60.2	44.3	12	Centry	52.5	26.6	123	Seferi	80.1	
	Others	43.7	44.5	66	Californi	80.3	34.6	134	Mercer	78.3	
	Martin	(66	45.2	Ð	Greenup	64.1	34.6	125	Closhethtown	72.5	
	Casey	49.3	43.1	62	Paducah	79.0	33.4	136	Pharite	81.1	•
	Henry	67.7	43.4	65	Marion	60.1	22.6	127	Laurel	CAR	
-	Geletin	60.0	63.6	70 71	hasehile	32.3 71.1	35.2	128	Serboundle Jefferson	76.0	-
	Pussel	80.7	46.5	72	McCracken	62.3	22.5	130	Washington	10.7	
	Murray	67.2	44.0	72	Augusta	12.6	33.5	131	Scholes	80.7	
	nutra .	29.7	46.3	74	DOM	22.4	26.6	132	Todal	79.6	
	Crienger		46.4		Conde	34.7	36.4		Seechwood	62.6	
-	Warren	50.7	46.6	76	Frankfort	80.7	34.3	134	Lafter	55.5	
-	thelby	71.6	67.2	77	Owsley	DNI	26.6	133	Managamery	70.3	
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	Remed ind	79.8	49.6	86	Paris	59.6	56.3	144	campbellselle	76.4	
	Lee	78.3	30.0	87	Lyon	28.7	36.3	143	Muhlenberg	68.3	-
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	Harfan Ind	22.3	20.2	91	Logan	24.2	29.2	149	Hidman	67.6	
	Metcalle	60.9	30.7	92	Governort	72.7	20.7	130	Union	69.1	
	Marros	42.6	20.6	22	Medison	26.4	29.0	121	Graves	Desir	
	Edmonson	38.7	30.6	94	Newport		60.6		Ladow	167.5	
	Magnifin	64.7	50.8	93	Harles County	35.7	60.6	133	Hopkins	71.7	
	Livingston	26.9	31.0	26	Bourbon	63.0	60.1	134	Sreddorldge	72.1	
	Cirton	23.2	21.5	97	Netron	43.5	60.2	125	Middesbore	86.6	
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=	Fried	60.2	52.9	189	Webster	75.5	61.6		Sreathit	64.6	
	Adair	71.1	32.3	104	Johnson	78.2	6L3		Contrigion Ind.	80.3	
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-	Woodford	63.3	33.1	109	Murgan Franklin	87.1	63.5	167	Somerset	75.1 89.8	
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	Knex	64.8	31.3	113	Howling Green	73.4	63.5	L7L	Green	88.3	
	Sizzeon	60.0	29.7	154	Fulton Co	69.4	63.5		MOwn	94.8 117.6	
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