In this issue...

From the Program Manager: Rewarding Good Behavior

What happens when energy and cost savings initially realized from major capital investments in energy-efficient technologies and systems flat-line or even reduce? What if your school district doesn't have the budget to make such major capital investments?

Incorporating energy-efficient technologies into a school building design is only one component of realizing year-over-year cost savings and improved energy performance. It takes a commitment from all of the building's occupants to become more pro-active and mindful about how to "use" their school building as energy efficiently as possible. The technology (new or old) is just a tool. For that technology to work, it must be used properly. In some capacity, everyone who occupies a school building is responsible for the building's energy performance.

A recent study conducted by Colorado State University attributed energy-saving behavior of students, teachers and administrators to 50 percent of energy savings realized over a seven-year period at a 38-year-old, traditionally non-efficient public school. The study also cites the energy-saving cultural and behavior changes as a major reason why that same school has kept its annual rate of electric use (kWh/square foot) lower than all of the other schools in the district - even one school that is Leadership in Energy Efficient Design (LEED) certified.

Over the past year alone, several Kentucky schools and school districts can attribute behavior change to similar successes. At 84 years old, Garth Elementary School in Scott County is the oldest school in Kentucky to earn an ENERGY STAR® certification. Warren County Public Schools' Respect And Conserve Energy (RACE) initiative raises the bar for an already stellar energy program. Christian County Public Schools is the latest of what will be many districts to earn the KEEPS Stewardship Award. These are all examples of how active participation from everyone involved in their district-wide energy management program is key to the program's lasting success.

Are you looking for ways to promote a culture of responsible energy management? Join us for the next KEEPS webinar, Making Saving Fun: Using School Energy Competitions to Drive Energy Savings. This free webinar will take place July 13, from 2 p.m. to 3 p.m. ET. See the KPPC.
district realized success through best energy management practices? Great! Use the KEEPS Kudos Form to share the good news, and your KEEPS Kudos may appear in an upcoming issue of KEEPS Moving Forward, on the KEEPS Facebook Page or on the KEEPS website.

Calendar of Events for more information and to register.

Also, several ideas about how to gain support for school district energy program initiatives are available in the KEEPS Energy Management Toolkits.

Remember, it's not just about the technology. It's also about the people who use the technology.

Questions? Comments? Contact KEEPS.

Now Available: New KEEPS Energy Management Toolkits

KEEPS recently added new materials to its self-guided Energy Management Toolkit series, which facilitates Kentucky school districts' progress through the seven-step ENERGY STAR® framework.

Step 2: Assess Performance and Opportunities
Assessing the school building's energy performance, both past and present, is essential to establishing a baseline for energy consumption and costs.

The KEEPS Training System now includes several downloadable presentations that offer guidance on how to use the KEEPS energy assessment tools and on-site energy assessment forms to evaluate the operational performance of major facilities and systems. Heating, ventilation and air-conditioning (HVAC), water heating, lighting, plug load, thermostat settings, water conservation, school energy profile and building envelope are the focus of the new presentations.

In addition, a downloadable KEEPS Assessment Report template and instructions on how to complete the report have been added to the Step 2 Energy Management Toolkits.

See the new Step 2 KEEPS Energy Management Toolkits.

Step 4: Create an Energy Management Action Plan
Once a school district has established its energy performance goals (see the Step 3 KEEPS Energy Management Toolkit), it can then develop an energy management action plan that:

1. assures continual improvement and year-over-year results;
2. identifies specific actions to achieve for each energy performance goal; and
3. establishes a systematic process to implement energy performance and measure accountability.

KEEPS Energy Management Toolkit 4: Create an Energy Management...
Action Plan includes a facility baseline worksheet, an energy management projects and actions worksheet, sample action plans from Kentucky school districts, presentations and exercises on how to develop the action plan as well as an action plan template to make the process as easy as possible.

See the new Step 4 KEEPS Energy Management Toolkit.

All KEEPS Energy Management Toolkits are available to download from the KEEPS Toolkit Library section of the KEEPS website.

Christian County Public School District Earns KEEPS Stewardship Award

Christian County Public Schools (CCPS) is the latest Kentucky school district to earn the KEEPS Stewardship Award. The Stewardship Award is given to districts that utilize KEEPS and partner organization resources to complete step one of the ENERGY STAR® framework - Make the Commitment. KEEPS representatives presented the award to CCPS Superintendent Brady Link and District Energy Manager Bob Valentine at the district's June 16 board of education meeting.

"We are delighted that Christian County has been recognized by KEEPS," said Superintendent Link. "When we can save money and help the environment with the added bonus of educating our students about the advantages of energy conservation, it's a win for everyone. We feel energy conservation is an important step in providing needed resources for our future."

Through its energy conservation program, CCPS developed several initiatives to garner support and raise awareness about the district's energy-saving efforts to district officials, faculty, staff, students and the community.

In 2011, the district created an energy incentive plan, which encourages and rewards schools for saving energy and teaches students about energy conservation. Also, the district has invited representatives from such organizations as the Alliance to Save Energy and the Tennessee
Valley Authority to speak to students about how to save energy at home and at school.

CCPS uses the Energy Monitoring and Mentoring Kit in several of its schools. The kit is a National Energy Education Development Project resource designed specifically for elementary and middle school students.

The district is an ENERGY STAR® Partner with Belmont Elementary, Indian Hills Elementary, Lacy Elementary and Millbrooke Elementary as ENERGY STAR® labeled facilities.

Learn more about Christian County Public Schools’ energy conservation program on the district’s website.

KEEPS Kudos and Newsmakers

Energy-efficient Design is Major Feature of New Owen County School

In March 2011, Owen County Public Schools formally opened the doors to the new Maurice Bowling Middle School. The 105,000-square-foot school serves 631 students and has several energy-efficient design features, including:

**Exterior**

- Highly insulated walls and reflective roof, which reduces the energy demand on the HVAC system
- A 1,600-square-foot vegetated roof system that reduces the load on the HVAC and serves as a teaching tool to show students the value of energy efficiency and environmental sustainability

**Lighting**

- T5 fluorescent tube lights, compact fluorescent recessed lights, light-emitting diode “Exit” signs and daylight harvesting, all of which provide suitable lighting conditions for substantially less cost
• Occupancy sensors and timers, which limit light use/energy consumption in unoccupied areas of the school and when the school is closed

HVAC

• Geothermal HVAC system, which uses the earth’s underground temperature to heat and cool the building
• An energy recovery wheel that uses the air exhausted from the building to condition the air coming in from the outside

Water Conservation

• Low-flow faucet fixtures to reduce water consumption and expenses

Taking Ownership
Maurice Bowling Middle School students understand that, even with all of their new school’s energy-efficient design features, it’s up to the building occupants to make sure energy and cost savings are realized year after year. The school’s energy team spearheads several energy-saving initiatives, including this YouTube video that talks about shut-down procedures for times, such as spring break, when the building is not occupied.

Read more about Maurice Bowling Middle School’s formal opening in the Owen County News-Herald.

Caywood Elementary Energy Team Hits the Airwaves

Identifying best outreach deployment mechanisms to spread the word about school district energy program information and activities is a key component of developing a district-wide energy communications plan.

The Caywood Energy Club at Caywood Elementary School in Kenton County did just that when they put their school’s energy-saving tips to music, then to video on YouTube. As of July 8, “Turn Off the Lights” received 658 views on the popular website.

Watch the video.

Learn more about Kenton County Public School District’s energy program on the district’s E-WISE2 website.

Barren County Public School District Receives Kentucky PRIDE Recycling Grant

The Barren County Public School District recently received a $63,422 Kentucky Pride Fund Recycling grant from the Kentucky Division of Waste Management. The grant will fund the purchase of divided
compartment recycling containers, which will be placed at each of the district’s schools. The new containers will expand existing recycling efforts at each school and will assist in unifying district-wide recycling efforts.

The school district will coordinate recycling initiatives with Lakeside Recycling Inc., a solid waste and mixed recyclables company based in Glasgow, Kentucky.

"The Barren County School District is looking forward to working with Lakeside Recycling in our new program,” said Steve Russell, the school district's director of facilities. “The implementation of the new divided compartment dump bins will help in all areas as well as the individual schools.”

Read more about the grant on WCLU AM/FM Radio's website.

New ENERGY STAR® Partners

Pulaski County Public Schools, Leslie County Public Schools, Burgin Independent Schools and Fairview Independent Schools recently became ENERGY STAR® partners for their commitment to best energy management practices.

There are now 110 K-12 ENERGY STAR Partners and 105 K-12 ENERGY STAR certified facilities in Kentucky.

Events and Training Opportunities

Using School Energy Competitions to Drive Energy Savings
July 13
Webinar
2:00 to 3:00 p.m. ET
Get students, teachers, administrators and the community excited about your district’s energy program initiatives through school energy competitions. Also, learn how to use the KEEPS Energy Report Card and the KEEPS Energy Checklist Tools to keep track of school energy savings.

Presented as part of the KEEPS Webinar Series. See KPPC's Calendar of Events for more information and to register.

ENERGY STAR's® Portfolio Manager: Benchmarking for Kentucky’s K-12 Schools
July 20
Webinar
2:00 p.m. to 3:00 p.m. ET
Learn how to use this popular energy management tool to track, verify, benchmark, report and target improvements for facility energy usage.
across your school district’s entire portfolio in a secure online environment. Webinar presenters are T.J. Poliskie, energy manager for Marion, Mercer and Washington County Public Schools as well as Burgin and Danville Independent Schools, and Hanna Grene, Cadmus Group K-12 representative for ENERGY STAR® Portfolio Manager.

Presented as part of the KEEPS Webinar Series. See KPPC’s Calendar of Events for more information and to register.

Virtual Green Expo
August 4
Webinar
9:00 a.m. to 4:00 p.m. ET
This online event will feature high-performance K-12 and college/university buildings and educational facilities. Interior/exterior mechanical systems, creating a high-performance, healthy learning environment and financing/operating a “green school” will be among the topics discussed.

See the Virtual Green Expo website for more information and to register.