KPPC’s Mission
KPPC is Kentucky’s primary resource to help businesses, industries and other organizations develop environmentally sustainable, cost-saving solutions for improved efficiency. Based at the University of Louisville J.B. Speed School of Engineering, KPPC provides technical information and assistance that is free, confidential and non-regulatory.

From the Executive Director and Board Chairman
As we enter our 15th year, KPPC faces new challenges, new opportunities and new possibilities for achieving our vision of a cleaner, greener and more sustainable environment. With significant increases in financial support allowing us to build upon our strong programs and services this year, we have a rare opportunity to spark a new era of environmental protection and energy efficiency for the Commonwealth and for the nation. This Annual Report describes how the Center is rising to meet these challenges and make the most of this opportunity.

KPPC understands the value of environmental sustainability, a long-standing priority for Kentucky, and works to provide companies, communities, governmental organizations and individuals the technical assistance and tools they need to prevent pollution before it is generated. By implementing conservation techniques, promoting efficient re-use of materials, making production processes more sustainable and promoting the use of safer substances, we can create a sustainable future. Combined with new technologies, environmentally sustainable practices result in significant co-benefits, such as the conservation of raw materials, including water and energy; reduction in the use of hazardous and high global-warming-potential materials; promotion of safer chemical substitutes; reduction of greenhouse gas emissions; and the elimination of pollutant transfers across air, water and land.

KPPC’s many years of experience have added to our understanding and appreciation of the value of preventing pollution before it occurs, and what environmental sustainability encompasses. The “triple bottom line” benefits of environmental sustainability are now recognized as affecting not only the environment, but also the economy and society’s overall well-being. As environmental sustainability evolves, so does KPPC. Changes in technical assistance and outreach allow the Center to improve its services with even better performance-based results. Current funding opportunities, numerous major projects, advances in information technology and other resources that were not available 15 years ago keep KPPC’s staff of technical experts working at a fast clip.

To help manage these rapid changes, KPPC’s management approach relies on stewardship, transparency and accountability in addressing the increasingly complex environmental and energy challenges we face. KPPC maintains a culture of excellence and provides the infrastructure, professional development and tools to support a talented, diverse and highly motivated staff. We have unlimited confidence in the talent and spirit of KPPC’s team of professionals, and we know they will meet these new challenges head-on. Fueled by their energy, ideas and passion, this team will help guide the Center toward success.

Thank you for your interest and support, and we hope you will enjoy reading about KPPC’s efforts during this year. If you have questions or would like to learn more about the Center’s many programs and initiatives, please contact us or visit our website at www.kppc.org.

Cam Metcalf
Executive Director

Douglas C. Griffin
Board Chairman
Principles of Environmental Sustainability

Kentucky’s Resource Center for Environmental Sustainability

Principles

KPPC serves Kentucky’s businesses, industries and other organizations by following the principles of environmental sustainability. These principles include:

Taking responsibility for social well-being. When an organization improves its environmental performance, it is acting in the best interest of its owners, employees, the community in which it operates and the nation as a whole. The health, safety and well-being of a society should be a shared responsibility of all its members.

Achieving economic benefits. As organizations move toward sustainability, they find that there are economic as well as environmental benefits. By reducing hazardous and non-hazardous waste, air emissions, water usage and discharge and energy consumption, businesses and industries can dramatically improve operational performance, reduce costs and help gain a competitive advantage in the global marketplace.

Practicing environmental stewardship. By taking a balanced approach, an organization can become an environmental steward and by thoughtfully using our natural and economic resources while considering the needs of future generations. An environmentally sustainable organization actively participates as part of a community and seeks to balance social, economic and environmental concerns within its operations.

Kentucky’s Primary Resource Center

Established in 1994, KPPC is a state-mandated technical assistance resource center. As part of the J.B. Speed School of Engineering at the University of Louisville, KPPC has the resources, expertise and experienced engineering and technical staff to help Kentucky’s businesses, industries and other organizations stay environmentally sustainable and competitive.

KPPC is dedicated to environmental sustainability through all of its programs and services and for all media – water, waste and air.

Throughout its 15 years of service, KPPC has been recognized on both state and national levels as a Center of Excellence. The Center has conducted more than 600 workshops, seminars and training sessions, and over 33,000 attendees have benefited from these learning opportunities. KPPC’s on-site assessments have helped nearly 600 Kentucky businesses and organizations improve their environmental performance and lower their operating costs.

KPPC’s on-site assessment results and the recommendations it makes to its clients are confidential, but a sampling of assessments completed this year illustrates the types of opportunities the Center identifies:

• One client contacted KPPC requesting technical assistance in identifying environmental sustainability opportunities at their Louisville facility. Following an on-site assessment and an extensive review of utility and facility data, KPPC’s team identified six specific opportunities to reduce energy usage and lower the company’s operating expenses. The Center recommended developing an Energy Management Program, installing variable speed drives on HVAC equipment and installing computer management software. Estimated cost savings for these recommendations is more than $100,000 per year, with a payback of 2.5 years.

• For a Hebron, Kentucky-based client, KPPC identified seven energy efficiency opportunities, including replacing a water wringer unit, installing High Velocity Low Speed (HVLS) fans and evaluating alternative heaters and variable speed drives for injection molding machines. Implementing the recommendations would lead to a reduction of electricity usage of over 1,000,000 kWh per year and a reduction of natural gas usage of 492 MMBtu per year. The estimated annual cost savings of $60,000 per year represents about 22 percent of the facility’s total current energy costs, and would have a simple payback of less than 2.5 years.

In Fiscal Year 2009-2010, KPPC served clients in every county in the Commonwealth.

KPPC engineers conducted 31 site visits at client facilities throughout the state and provided technical assistance on 1,416 occasions.

Over the past 15 years of service to Kentucky, KPPC has identified approximately $13 million in potential savings for its clients.

Identified Reductions in FY 2009-2010

<table>
<thead>
<tr>
<th>Item</th>
<th>Estimated Reductions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Greenhouse Gas Reductions</strong></td>
<td></td>
</tr>
<tr>
<td>CO2 (Carbon Dioxide)</td>
<td>5,921,263</td>
</tr>
<tr>
<td>SO2 (Sulfur Dioxide)</td>
<td>29,482</td>
</tr>
<tr>
<td>NOx (Nitrogen Oxide)</td>
<td>7,805</td>
</tr>
<tr>
<td><strong>Solid Waste Generation</strong></td>
<td>3,399,869 pounds</td>
</tr>
<tr>
<td><strong>Hazardous Waste Generation</strong></td>
<td>4,050 pounds</td>
</tr>
<tr>
<td><strong>Electricity Usage</strong></td>
<td>3,154,966 kilowatt hours</td>
</tr>
<tr>
<td><strong>Natural Gas Usage</strong></td>
<td>15,397 therms</td>
</tr>
<tr>
<td><strong>Demand Reduction</strong></td>
<td>8,356 kilowatts</td>
</tr>
<tr>
<td><strong>Wastewater Generation</strong></td>
<td>160,225 gallons</td>
</tr>
</tbody>
</table>

The Kentucky Industrial and Commercial Sustainability Program (KICSP) funding announcement made during a February 17 press conference at FetterGroup in Louisville. KPPC received $2.23 million in funding for KICSP from the American Recovery and Reinvestment Act. Pictured, from left to right: Energy and Environment Cabinet Secretary Len Peters, KPPC Executive Director Cam Metcalf, FetterGroup President and CEO Terry Gill and UofL President James Ramsey.

Free, confidential & non-regulatory technical assistance
would like to thank FetterGroup for hosting state government, in February 2010 at a press conference in Louisville. KPPC
The funding and program expansion were formally announced
audience.

economy and environment. The funding allows KPPC to lever-
ment projects that will have long-term impacts for Kentucky's
energy consumption, create new green jobs and imple-
dish it's existing capabilities, and reach out to an even greater

KPPC’s Environmental Sustainability Program offers free
on-site assessments, training, technical assistance and web-
based resources to identify environmentally sustainable solu-
tions for business and industrial facilities. KPPC engineers help
clients lower operating costs, eliminate waste at its source, address energy and water efficiency issues and assess other
environmental challenges.

The Center provides customized services to assist clients in
the efficient use of raw materials, water, energy and other
resources. By enhancing production processes, promoting the
use of non-toxic or less-toxic substances and implementing
proven conservation techniques, companies can significantly
improve their environmental performance.

This fiscal year, KPPC received American Recovery and
Reinvestment Act (ARRA) funding to expand some of its
energy-related efforts geared toward industrial and commercial
facilities. To provide these expanded services, the Center’s
Environmental Sustainability Program grew from a staff of four
on-site assessments, training, technical assistance and web-
resources. By enhancing production processes, promoting the
use of non-toxic or less-toxic substances and implementing
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This fiscal year, KPPC received American Recovery and
Reinvestment Act (ARRA) funding to expand some of its
energy-related efforts geared toward industrial and commercial
facilities. To provide these expanded services, the Center’s
Environmental Sustainability Program grew from a staff of four
to a staff of 11 engineers, plus several engineering students.
With this team in place, KPPC is able to offer a wider range of
professional experience and provide services to even more
companies and clients.

Building upon KPPC's nearly decade-long success in providing
energy efficiency and renewable energy services for a variety of
Kentucky manufacturers, businesses, schools, universities,
government agencies and other organizations, the Center
received $2.23 million in ARRA funding for industrial and
commercial sustainability efforts through April 2012. This
expansion provides KPPC's Environmental Sustainability
Program additional resources to help manufacturers reduce
energy consumption, create new green jobs and implement
projects that will have long-term impacts for Kentucky's
economy and environment. The funding allows KPPC to lever-
age its existing capabilities, and reach out to an even greater
audience.

The funding and program expansion were formally announced
in February 2010 at a press conference in Louisville. KPPC
would like to thank FetterGroup for hosting state government,
university and media representatives for the event. President
and CEO Terry Gill described his company's long-term
successful relationship with KPPC, and attendees took
guided tours through the facility to see first-hand some of
the environmental sustainability initiatives that FetterGroup
has implemented.

“The assessments conducted by KPPC demonstrated that in addition to the environmental benefits that waste
prevention and recycling offer, waste reduction improves operational efficiency and reduces costs. Prior to our partnership with KPPC, we recycled 83 percent of the waste we generated, but an audit of our trash showed that nearly 50 percent of what was in our
compactor could also have been recycled. Since 2007, we’ve reduced our annual contributions to the landfill by
47 tons or nearly 41 percent.”
Terry Gill
President and CEO
Louisville-based FetterGroup

Environmental Sustainability Program

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Industrial and Commercial Services

KPPC maintains the directories to facilitate industrial recycling
and improve the environmental performance of Kentucky busi-
nesses, industries and other organizations.

Additional Resources

KPPC continuously maintains additional free resources to facili-
tate the environmental sustainability efforts of industries and
facilities in Kentucky.

Kentucky industries and businesses that would like to recycle
their waste materials or find a source of waste materials to re-
use can access KPPC’s KIME – Kentucky Industrial Materials
Exchange – a free, confidential online resource. This fiscal
year, KIME had approximately 125 registered companies and
generated hundreds of online visitors each month. The
Recycling Services and Consultants directories allow com-
panies to list their environmental-related products or services.
KPPC maintains the directories to facilitate industrial recycling
and improve the environmental performance of Kentucky busi-
nesses, industries and other organizations.

New Online Tools

During this fiscal year, the Environmental Sustainability team
developed and expanded online tools offered through the
KPPC website. New tools and resources that help address
energy management plans at commercial and industrial facil-
ies include the seven-step energy management process.

The process is based on the ENERGY STAR® Guidelines for
Energy Management, and includes additional information
tailored specifically to commercial and industrial facilities, such
as sample job descriptions, energy policies and action plans,
lighting and plug load inventories, and shut-down checklists
developed by KPPC engineers.

As part of KPPC’s package of free technical assistance tools,
this systematic approach assists energy managers, facilities
personnel and other energy team representatives in learning the
process of energy management and creating their own
successful programs.

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Kentucky Save Energy Now Initiative

As part of its environmental sustainability services, KPPC's
Kentucky Save Energy Now (KY SEN) initiative helps indus-
trial and other energy-intensive facilities build self-sustaining
energy-savings programs. The goal is to reduce energy use in
these facilities by 2.5 percent per year for 10 years.

Through KY SEN, KPPC offers assessments, training, technol-
ogy demonstrations, assistance with identifying project imple-
mentation resources and recognition of achievements.

The initiative promotes and leverages the wide array of U.S.
Department of Energy Industrial Technologies Program (ITP)
resources, including best practices tools, assessments, soft-
ware tools, training and ITP’s extensive list of publications.

With an additional $326,000 in ARRA funding, the initiative was
launched with series of workshops beginning in April. Thirteen
industrial facilities enrolled in KY SEN by the end of the fiscal
year in June, and the first phase of the initiative will continue
through June 2011. An additional $625,000 will fund the initia-
tive through June 2013.
KEEPS – Kentucky Energy Efficiency Program for Schools – began as a pilot program in 2006 designed to help a handful of educational institutions in Kentucky realize cost savings through best energy management practices. The programs that realized the most success during the pilot program were those that showed the most commitment to making responsible environmental stewardship part of their district’s day-to-day activities and culture.

In February 2010, a press conference was held at Roby Elementary School in Bullitt County to formally announce American Recovery and Reinvestment Act (ARRA) funding of $4.75 million through April 2012 for KEEPS. The ARRA funding provides the resources needed to expand KEEPS and extend its services to all 174 public school districts in Kentucky. The Bullitt County Public School District, a KEEPS pilot member, realized energy cost savings of almost $700,000 in fiscal years 2006 through 2009. In that time, the district also added more than 400,000 total square feet of space but still uses about the same amount of energy (about 1.6 million k呅). Kentucky state legislators wanted to see similar savings realized in all school districts throughout Kentucky. In April 2008, Kentucky House Bill 2, Section 16, was passed, which mandates that all Kentucky public school districts enroll in KEEPS by 2010. Enrollment in KEEPS reached 100 percent in all school districts throughout Kentucky. In April 2010, Kentucky state legislators wanted to see similar savings than 400,000 total square feet of space but still uses about the same amount of energy (about 1.6 million k呅).

All of Kentucky’s 174 School Districts Have Enrolled in KEEPS

In Fiscal Year 2009-2010:
- Districts formally introduced to KEEPS = 81
- Districts that passed board-approved energy policies = 16
- Districts that established energy teams = 9

KEEPS provides program services to all 174 public school districts in Kentucky. The districts are identified by region and are assisted by KEEPS regional coordinators and engineers.

“Green” Jobs

The ARRA funds that expanded KEEPS also created new “green” jobs. In Fiscal Year 2009-2010, KEEPS grew from a staff of one to a staff of 14, including a program manager, regional manager, technical manager, six regional coordinators, four engineers and a public information officer.

With the staff and resources in place, the KEEPS team began an outreach campaign to formally introduce the program to school districts and explain how KEEPS will help the districts through the seven-step energy management process. The process is based on the ENERGY STAR® Guidelines for Energy Management, which is a proven method for helping organizations reduce energy consumption and realize cost savings. KEEPS regional coordinators and engineers will help district energy managers and district energy teams reach their energy management goals and understand their school district’s energy profiles.

The KEEPS team also updated current program resources, such as the KEEPS Energy Management Report, and developed new resources, such as the KEEPS Utility Tracking Tool. In June, the KEEPS regional coordinators conducted a webinar that provided guidance on how to use these resources to facilitate KEEPS reporting requirements. The webinar was attended by 49 representatives from 37 school districts and is available for download on the KEEPS website.

The KEEPS engineers developed energy efficiency assessment materials for when school districts are ready to assess their energy performance and identify opportunities for improvement. The engineers began work on logistics for conducting district energy assessments, the first of which will take place in the first quarter of Fiscal Year 2010-2011.

The regional coordinators and engineers also began development of a series of more than 30 self-guided training resources, or “Toolkits” to complement each step of the energy management process. The first KEEPS Toolkits will be available in the first quarter of Fiscal Year 2010-2011 and will include presentations and other resources available to download from the website.

KEEPS Resources

In Fiscal Year 2009-2010 KEEPS provided a number of resources to school districts:
- Regional networking opportunities for districts to share ideas about their energy program initiatives
- Workshops, webinars and other training that demonstrated how to implement best energy management practices
- Tracking and reporting assistance to fulfill state energy reporting requirements
- The KEEPS Moving Forward monthly e-newsletter that provided program news and updates

The KEEPS Facebook page is another resource that features news and updates and provides school districts and district energy teams with the opportunity to share ideas and ask questions about implementing best energy management practices.

KEEPS delivers tremendous resources through expertise and coordination of activities as we focus on energy savings in our district. Our partnership with KEEPS is very important to this district. Every dollar reduced in energy costs translates into teaching positions, materials, programs and other services that directly impact teaching and learning.”

Dr. Jerry Ralston
Superintendent
Barren County Schools

Governor Steve Beshear announced the partnership between the Department for Energy Development and Independence and KPPC that expands KEEPS. Funding from the American Recovery and Reinvestment Act gives KEEPS a boost of $4.75 million from the U.S. Department of Energy that will help all 174 Kentucky school districts participate in the program. The announcement took place at Roby Elementary School, a new facility in the Bullitt County Public School District.

KEEPS hosted or participated in 11 partnership-sponsored training, workshops, conferences or other events in Fiscal Year 2009-2010, attracting 572 attendees.

KEEPS Activities

KEEPS Energy Management Workshop - Morehead (September 2009)
KEEPS Energy Management Workshop – Kentucky Dam Village State Resort Park (September 2009)
Kentucky School Plant Management Association Annual Conference (October 2009)
Kentucky NEED Coordinator Training (January 2010)
Kentucky School Boards Association Annual Conference (January 2010)
Kentucky High Performance Schools Workshop (March 2010)
Bracken County Energy Conservation Night (April 2010)
Kentucky Green & Healthy Schools Awards Summit (May 2010)
Kentucky Association of School Business Officials Conference (May 2010)
KEEPS Reporting Tracking Webinars (4) (June 2010)
Kentucky Association of School Superintendents Summer Institute (June 2010)
Kentucky Renewable Energy Consortium

Advancing Renewable Energy

KREC – Kentucky Renewable Energy Consortium – is a resource for advancing renewable energy and energy efficiency efforts within the Commonwealth of Kentucky. KREC was established in 2006 by a federal direct appropriation to the University of Louisville and is administered by KPPC.

KREC is a clearinghouse and networking group with 63 partner organizations and 440 public members. KREC’s goals include outreach and education, demonstration and deployment of new energy efficiency and renewable energy technologies and funding research at Kentucky’s universities.

KREC Activities

• The 2009 Competitive Giants Program awarded a total of $864,000 to seven research proposals this fiscal year. KREC awarded funds for innovative research on renewable energy and energy efficiency that focused on developing resource-responsible technologies and practices for the energy sector. The grants went to researchers at the University of Louisville and the University of Kentucky.
• KREC made the news in the August 7 edition of BusinessWeek.
• On September 10, 2009, KREC held the Kentucky Forum on Carbon Sequestration Through Agriculture and Forestry Management. A total of 108 attendees from six states shared information and offered their expertise on agriculture, forestry, research, government, business and environmental topics.
• Following the carbon forum, KREC published a summary report that details some of the most important issues covered at the forum, including carbon policy, biofuels and potential energy crops for Kentucky.
• KREC provided technical assistance in conjunction with other KPPC programs. Marketing, web development and technical support was provided to KEEPS – Kentucky Energy Efficiency Program for Schools.

• In March, Cam Metcalf, principal investigator for KREC and executive director of KPPC, made a presentation to the Kentucky Senate Natural Resources and Energy Committee on KREC’s activities, research funding and successes to date. After the presentation, Metcalf took questions from committee members on topics including coordination and communication among the many renewable energy groups in Kentucky.
• KREC was promoted during celebrations at the University of Louisville’s Earthfest event on April 15 and the University of Kentucky’s Earth Day exhibits in Lexington on April 22.

As interest in renewable energy in Kentucky grows, RENEWS, KREC’s monthly e-newsletter, doubled its number of subscribers from 220 last fiscal year to more than 440 this year.

In April, KREC joined the Facebook community with its own page. The page offers KREC members and the public an opportunity to share information, discuss ideas, ask questions or post items of interest to the renewable energy community. To view the page, log onto your Facebook account and type “KREC Kentucky” in the search field.

KREC and co-host, the Washington, DC-based 25x25 organization, provided information for attendees at the September Kentucky Forum on Carbon Sequestration Through Agriculture and Forestry Management.

Collaboration among environmental organizations is key to achieving the collective goal of sustainability. During Fiscal Year 2009-2010, KPPC participated in the following industrial, local, state and federal network groups actively involved in environmental sustainability efforts.

Bluegrass Partnership for a Green Community
Representatives from Kentucky government, public school districts and Kentucky colleges and universities KPPC continues to work in coordination with the Partnership to “green” the Alltech FEI World Equestrian games scheduled for September 2010 at the Kentucky Horse Park

ENERGY STAR®
U.S. Environmental Protection Agency
U.S. Department of Energy
KPPC is an ENERGY STAR® Partner

KEEPS – Kentucky Energy Efficiency Program for Schools
National Energy Education Development Project – Kentucky Chapter
Kentucky Green & Healthy Schools
Kentucky School Boards Association
Kentucky School Plant Management Association
Kentucky Energy Efficiency Workgroup
20 organizations from across Kentucky

KY EXCEL – Kentucky Excellence in Environmental Leadership – Kentucky Division of Compliance Assistance

KRIC – Kentucky Recycling Interest Group
More than 100 citizens, city and county representatives, government agencies, universities and manufacturing and recycling companies

KREC – Kentucky Renewable Energy Consortium
Kentucky Department for Energy Development and Independence
University of Louisville J.B. Speed School of Engineering
University of Kentucky Biosystems & Agricultural Engineering
University of Kentucky Center for Applied Energy Research

63 other organizations from across Kentucky

KY SEN – Kentucky Save Energy Now
Big Rivers Electric Corporation
Duke Energy
East Kentucky Power Cooperative
E.ON U.S.
Fellion-McCord & Associates
Kentucky Solar Partnership
Sierra Club – Cumberland Chapter
Tennessee Valley Authority

KPPC’s Executive Director, Cam Metcalf, served as a member of the following:

• Appointed Board Member of the Center for Renewable Energy Research and Environmental Stewardship (CRERES) by Governor Beshear
• Appointed Member of the Kentucky Climate Action Plan Council (KCAPC) Agriculture, Forestry, & Waste Technical Work Group
• Appointed Member of the Drought Mitigation and Response Advisory Council by Governor Beshear

J.B. Speed School of Engineering co-op students work with KPPC technical staff. From left to right: Steve Roush, Jonathan Hughes, Shawn Crowe (seated) and Victoria Kmiec, visiting co-op from the University of South Carolina. The co-op program develops educational opportunities for students as they apply their classroom learning to find opportunities to help Kentucky organizations.
In response to these important challenges and opportunities facing Kentucky, KREC organized the Kentucky Forum on Carbon Sequestration Through Agriculture and Forestry Management. Held in September 2009 in Louisville, the forum presented an informative and comprehensive look at carbon policy, biofuels and potential energy crops for the state. The event brought together more than 100 people from various backgrounds with different areas of expertise and provided a dynamic discussion about Kentucky’s options in a carbon-constrained future.

Kentucky Energy & Environment Cabinet Secretary Len Peters presented Governor Steve Beshear’s strategic energy plan, Intelligent Energy: Choices for Kentucky’s Future, during the forum and acknowledged the need for a carbon sequestration policy for the Commonwealth. He said, “More than 90 percent of Kentucky’s electricity is derived from coal-fired power, and we rank 13th in total carbon dioxide emissions. Carbon capture and sequestration is crucial to continued use of coal as an energy resource in Kentucky. Success of CCS will determine our ability to meet our future energy needs.”

The forum was organized by KREC with financial support from Energizing Kentucky, an initiative of Berea College, Centre College, the University of Kentucky and the University of Louisville that encourages Kentucky to focus on a coherent and integrated energy policy. Comments from those who attended the event...

“Excellent day of presentations and materials. Well thought out and planned.”

“It was very exciting and encouraging to be involved in such a large group of intelligent and powerful people discussing this very important topic concerning the health and sustainability of our world.”

KEEPS Reporting and Tracking Workshops

KEEPS conducted a webinar in June to help Kentucky school districts understand reporting requirements pursuant to Kentucky Revised Statute (KRS) 160.325. The statute requires Kentucky public school district boards of education to report data on school district energy use, costs and savings measures to KPPC through KEEPS. For the most accurate assessment of statewide energy measures, all districts were asked to submit their Baseline Energy Management Reports for Fiscal Year 2008-2009 to KPPC by June 30, 2010.

To facilitate this process, the free webinar provided guidance on how to complete the KEEPS Energy Management Report. The webinar also demonstrated how the KEEPS Utility Tracking Tool helps school districts better understand their energy consumption and information requested in the Energy Management Report. The webinar was broadcast four times in June and attended by 49 representatives from 37 school districts. A recording of the webinar was also made available for download on the KEEPS website.

KEEPS Regional Coordinators conduct a KEEPS Reporting and Tracking Webinar.

Workshop topics included:
- 7 Steps to Energy Management
- Understanding Your Utility Bill
- Energy Tracking
- Baselines and Benchmarking
- Energy Assessments
- Identifying Opportunities
- Industry Case Study
- Financing Opportunities
- Area Utility Resources
- U.S. DOE’s Industrial Technology Program

“...the conference exceeded my expectations. I feel like I got a few ideas I can implement as well as some other ideas I would like to follow up on.”

From an attendee of the April 15 KY SEN workshop in Richmond, Kentucky

Carbon Offsets

As part of its commitment to hosting environmentally-friendly events, KPPC purchased carbon dioxide offsets for six events held during the fiscal year. For each of the four KY SEN workshops and the June 2010 KREC Quarterly Meeting, the credits were purchased through the Mountain Association for Community Economic Development (MACED), and the carbon was sequestered by family forest owners in Central Appalachia. Offsets for the September 2009 Carbon Forum were purchased through Carbonfund.org.

The four KY SEN workshops, held in Bowling Green, Erlanger, Louisville and Richmond, attracted 144 attendees.

KEEPS was actively involved in 72 training sessions, workshops, webinars and conferences and hosted 19. Total number of attendees at all events was 2,393.
The Center exhibited at the following:
the website
A total of 115 new web pages were developed and posted to
25,859 communications materials were distributed
C&O developed 406 unique communications and marketing
of 57 local and national media outlets during fiscal year
News about KPPC and its programs were covered in a total
highlighted in a feature article.
In the August 7 edition of Louisville's Business First
Courier-Journal viewed by WKU Public Radio in Bowling Green and discussed
KPPC's marketing materials were updated and redesigned this fiscal year. A new general information brochure and three pro-
program brochures were given a new look and new content that
focused on client needs. In addition to new brochures, KPPC's
display booth was updated with new graphics to showcase the
Center's expanded services and incorporate the KPPC brand.

Media Highlights
In June, KPPC Executive Director Cam Metcalf was inter-
viewed by WKU Public Radio in Bowling Green and discussed the Kentucky Save Energy Now initiative.
The Courier-Journal published a blog entry about the Center's purchase of carbon offset credits.
In the August 7 edition of Louisville's Business First, KPPC's mission and its commitment to demonstrating and deploying energy efficiency and renewable energy projects were highlighted in a feature article.
News about KPPC and its programs were covered in a total of 57 local and national media outlets during fiscal year 2009-2010.

KPPC Environmental Sustainability Award
In September 2009, KPPC established a new Environmental Sustainability Award program to recognize the Center's clients who demonstrate a commitment to the principles of sustainability; ensuring the social well-being not only of their company as a whole, but also of their employees and the community around them; identifying opportunities and implementing envi-
ronmental-related improvements to their facility; and enhancing economic outcomes related to savings from environmental improvements.
For this inaugural year, KPPC selected Akebono Brake Corpora-
tion of Elizabethtown and Denyo Manufacturing of Danville to receive the awards, which were presented in conjunction with Pollution Prevention Week, a national awareness campaign that highlights pollution prevention and sustainability activities and achievements.
Both companies receiving the award have well-developed envi-
ronmental sustainability programs, and their recent activities have spanned the social, environmental and economic aspects of sustainability. With the support and vision of manage-
ment, as well as strong teams who implement environmental initiatives, both Akebono and Denyo have shown long-term commitment to environmental sustainability. Their contribution to reducing waste and improving Kentucky's environment is commendable.
Accepting the award, Akebono Plant Manager Doug Morgan said, "We at Akebono are proud to be recognized by the Ken-
tucky Pollution Prevention Center for our associates' efforts in something as important as protecting our environment. We are especially proud of the fact that this is recognition of a long-term commitment by the Elizabethtown plant in conserv-
ing our natural resources and performance of various pollution prevention projects. The word 'sustainability' is key, and all of our associates have contributed in making this award possible throughout our 21 years of operation."

KPPC’s Information Technology Program
KPPC's Information Technology Program plays a key role in advancing the Center’s mission. This fiscal year, IT Program efforts expanded and enhanced KPPC's outreach and com-
munications initiatives, business management practices and external and internal communications.
Some of the highlights of IT Program activities for Fiscal Year 2009-2010:
• Procured, set up and networked computer workstations for 22 new KPPC staff members
• Maintained and provided user support for 46 computer workstations, network printing services and file servers
• Developed and supported information management processes for KPPC administration and Center programs
• Worked with Communications and Outreach to develop and implement a new KPPC website with enhanced features and resources for clients and visitors
• Expanded the web-based intranet site with new services and resources for administration and staff
• Helped develop and deploy a total of 115 new web pages for the KPPC website, including new web-based forms, a staff directory and individual program pages
• Improved the web analytics capabilities that provide strategic feedback on Communications and Outreach content objectives
• Developed Facebook pages for KREC and KEEPS
• Created a YouTube Channel for KPPC
• Incorporated Issuu, a new web-based service that creates and archives magazine-style pdf documents for KPPC publications
• Led KPPC's efforts to ensure that the Center's online content is accessible to the widest possible audience

Find us on Facebook!
KPPC is now part of the social networking community. This year, the Center launched Face-
book pages for KEEPS and KREC. Visitors can share insights and ideas, ask questions and participate in discussions about how best energy management practices and renewable energy research and development can reduce operating costs for Kentucky public school districts, busi-
nesses, industries and other organizations.

According to KPPC Executive Director Cam Metcalf, the Facebook pages as well as other KPPC-sponsored pages currently under development will provide better customer service to the Center’s many clients.
"As KPPC continues to grow, so does the demand for more and better information about KPPC’s programs," says Metcalf. "We don’t want to be the best kept secret for environmental sustain-
ability programs in Kentucky. We want our clients to have easy access to the information, tools, training and other resources the Center has to offer." To access KEEPS’ page, go to www.
facebook.com/KyKEEPS. To access KREC’s page, log onto your Facebook account and search for “KREC Kentucky.”

KPPC on YouTube
To better serve its clients, the Center now has its own YouTube channel. KPPC cre-
ated the channel to offer videos that will provide comprehensive coverage of events such as workshops, webinars, training and information about KPPC activities. By providing video and audio of these events, KPPC offers a new way to access valuable information and training opportunities to a much wider audience. Search for “KPPC Channel” on YouTube.

The redesigned KPPC website (www.kppc.org) is organized from a user’s perspective by services and programs. The information is presented to make it easier for visitors to quickly find the services that fit their needs.

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Communications and Outreach Activities
C&O developed 406 unique communications and marketing materials this fiscal year.
25,859 communications materials were distributed.
KPPC's website had 165,104 user sessions.
A total of 115 new web pages were developed and posted to the website.
The Center exhibited at the following:
2009 Governor's Conference on the Environment in Lexington
University of Kentucky’s Earth Day Event
University of Louisville’s EarthFest Event

The Akebono team at the KPPC Environmental Award presentation in September.

Sarah Ice Wallin, Technology Specialist
Ken O'Hara, Information Technology Program Manager

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The visit exposed the Ukrainian visitors to waste management Southern Indiana, sponsored locally by the World Affairs Council of Kentucky/13, under the auspices of the U.S. Agency for International Zaporizhzhya Region of Ukraine to discuss the Center’s mis-
deployment of 10 waste management professionals from the

On May 7, KPPC Executive Director Cam Metcalf met with a
help new staff with orientation, KPPC developed a comprehen-
sive internal training program called “KPPC University” which
provided a history of the Center and an overview of resources, policies and procedures. Staff who completed the series of 11 sessions were given a certificate acknowledging their successful completion of the courses.

To accommodate new KPPC staff, construction began on ad-
ditional office space in the west wing of the Burhans Building
on the University of Louisville’s ShelbyHurst Campus. The new
office space will be completed in September 2010.

KPPC staff helped conduct a workshop on Pollution Preven-
tion (P3) Energy & Sustainability Champions at the National
Environmental Partnership Summit in Orlando, Florida in May. The workshop provided attendees with P2 tools and training to become more effective technical assistance providers, and also featured speakers from the National Pollution Prevention Roundtable, the Minnesota Technical Assistance Program and the Washington Department of Ecology.

KPPC Welcomes Diplomat from Germany
On February 26, Wolfgang Reichel, deputy mayor of Mainz, Germa-
ny, visited Louisville to learn about different energy-saving projects as part of the Sister Cities of Louisville, Inc.’s international outreach initiative. During his visit, Reichel met with KPPC representatives to discuss the KEEPS initiative.

KPPC’s staff has a broad base of expertise to effectively deliver the Center’s services to its clients. In May and June 2010, six KPPC engineers received Certified Energy Manager (CEM) credentials from the Association of Energy Engineers. KPPC now has 10 CEMs on staff, and more staff are poised to receive CEM credentials in Fiscal Year 2010-2011.

CEMs on Staff
KPPC’s staff members belong to a number of national and regional professional organizations:

American Institute of Aeronautics and Astronautics
American Institute of Chemical Engineers
American Society of Civil Engineers
American Society of Heating, Refrigerating and Air-Conditioning Engineers
American Society of Mechanical Engineers
American Society of Training and Development
Association of Energy Engineers
Consumer Specialty Product Association
Kentucky Certified Hazardous Materials Managers
Kentucky Clean Fuels Coalition
Kentucky Society of Professional Engineers
National Council of University Research Administrators
National Pollution Prevention Roundtable
Public Relations Society of America
Southern Aerosol Technical Association
U.S. Green Building Council

Since KPPC began in 1994, the Center has received $6,212,618 in core funding from Kentucky’s Hazardous Waste Management Fund. The Center has successfully leveraged its core funding and has received an additional $8,248,235 in funds from state and federal grants and appropriations to provide services to the Commonwealth, including $2,004,000 in research grants awarded to Kentucky universities for renewable energy research projects.

KPPC 2009-2010 Budget
Kentucky continues to make an important investment in environmental sustainability by providing KPPC with funding from the Hazardous Waste Management Fund. Kentucky’s investment has allowed KPPC to leverage funding through a number of grants and contracts, including funding from the American Recovery and Reinvestment Act. State and Federal agencies have recognized the value of KPPC’s services to the Commonwealth by providing more than $1,802,000 of additional financial support this fiscal year, giving the Center a total 2009-2010 operating budget of $2,102,698.

$29,706 – Hazardous Waste Management Fund
KPPC’s core funding from the Kentucky Department for Environmental Protection provides organizational and administrative support for the Center’s technical services

$508,517 – KREC – Kentucky Renewable Energy Consortium
Federal appropriation for the development of a statewide consortium to provide research, development, deployment and outreach in renewable energy and energy efficiency initiatives

$75,434 – Kentucky Save Energy Now Initiative
American Recovery and Reinvestment Act

$394,495 – Higher Education Fund
Funding from the University of Louisville J.B. Speed School of Engineering for the development of educational opportunities for UofL’s students

$5,000 – Kentucky Institute for the Environment and Sustainable Development
Funding to improve KPPC’s technical capabilities to work with KIESD on environmental and sustainable development issues at local, state, national and international levels

$561,676 – U.S. Department of Defense
Funding to provide training and site assistance for development of an environmental management system to promote pollution prevention

$24,131 – Pollution Prevention Grant
$29,099 – Metrics Database Development and Implementation
Children’s Health Project
U.S. Environmental Protection Agency funding supporting KPPC’s efforts to provide P2 activities throughout the Commonwealth

$603,466 – KEEPS – Kentucky Energy Efficiency Program for Schools
American Recovery and Reinvestment Act

$460,250 – Kentucky Industrial and Commercial Sustainability Program
American Recovery and Reinvestment Act

$299,706 – KPPC Total 2009-2010 Budget
$2,102,698

$299,706 – KPPC Total 2009-2010 Budget

$508,517 – KPPC Total 2009-2010 Budget

$75,434 – KPPC Total 2009-2010 Budget

$394,495 – KPPC Total 2009-2010 Budget

$5,000 – KPPC Total 2009-2010 Budget
KPPC
Board of Directors

Mr. Douglas C. Griffin
Board Chairman
Environmental Engineer
Kenvirons, Inc.

Mr. John Clay, Sr.
At-Large Agricultural Producer

Mr. Ray Daley
Industrial Community NewPage Corporation

Dr. Mickey Wilhelm, Dean
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University of Louisville

Mr. David Pedigo
At-Large Industrial Facility
Akebono USA

Mr. Steve Dale
Environmental Protection Community

Mr. Aaron Keatley
Kentucky Energy and Environment Cabinet
Kentucky Division of Compliance Assistance

Ms. Joyce Evans
At-Large Public Center for Biomedical Engineering
University of Kentucky

Mr. Kevin Murphy
Local Government Calvert City Water & Sewer System

Dr. Thomas Lester, Dean
College of Engineering
University of Kentucky

KPPC Staff

KEEPS Regional Coordinators. From left to right: Patrick Metz, Erika Wolfe, Halida Hatic, Adam Hoette, Kimberly Joseph, Mary Hano, Nancy Silves, Program Manager Fred Byrd and Regional Manager Cindy Wohl.

KEEPS Engineers. From left to right: Micah Johnson, Josh Tennen, Technical Manager Michael Ruckriegel, Giovanni Beltran and Ann Piechota.

KEEPS Engineers. From left to right: Micah Johnson, Josh Tennen, Technical Manager Michael Ruckriegel, Giovanni Beltran and Ann Piechota.

KPPC Communications and Outreach. From left to right: Dennis Smith, KREC Public Information Officer; Lisa Tatum-Wease, Training Coordinator; Sandy Denham, Public Information Officer; Chris Wooten, KEEPS Public Information Officer; Lissa McCracken, Program Manager; and Gale Vandivier, Senior Program Assistant.

KPPC Administration. From left to right: Cam Metcalf, Executive Director; Debbie Elswick, Administrative Assistant; Kim Preher, Unit Business Manager; and Don Douglass, Assistant Director.
KPPC

Looking forward to an exciting and productive 2011...

- Kentucky Save Energy Now recognition program
- KEEPS resources for Kentucky school districts
- 2010 KPPC Environmental Sustainability Award
- KPPC’s move to renovated space on ShelbyHurst Campus
- KREC Town Hall meetings on renewable energy