

*Congratulations to the
2007 Pollution Prevention
Award Recipients*

Allen County

City of Lawrence Department of Utilities

Grandview Products

Hawker Beechcraft – Salina Division

Kansas Equipment Exchange Program

Sedgwick County Department on Aging
RSVP Volunteer Program



Allen County

Energy Efficiency

Allen County is awarded for its efforts in energy efficiency.

Allen County owns and operates a landfill with an onsite equipment storage and maintenance building. The county wanted to explore options for heating the 6,000 square foot maintenance building through the cold winter months. Keeping the equipment warm in the winter could eliminate cold weather startup stresses while at the same time making the building's users more comfortable to perform equipment maintenance.

The Allen County landfill produces methane gas, which is collected and conveyed to a gas flare to be safely discharged to the atmosphere. With the assistance of Burns & McDonnell, the county was able to utilize the methane gas generated onsite to power infrared heaters installed in the maintenance building. The onsite fuel source was otherwise considered a waste byproduct of standard landfill operations.

The diversion of a portion of landfill gas away from the flare reduces the landfill's carbon dioxide emission rate by approximately 21 tons per year. Since flared methane gas contributes to greenhouse gases, the county's infrared heater project removed a portion of methane gas flared into the atmosphere by approximately eight tons per year.

The Allen County Commission and Burns & McDonnell were extremely pleased to be able to design and implement a project that benefited the landfill employees and the environment. The county will continue to look into future opportunities for landfill gas beneficial reuse and other pollution prevention projects for years to come.

For more information on this project, contact:

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Bill King, Allen County; Olivia Williams, Burns & McDonnell, Dr. Ron Hammerschmidt

City of Lawrence - Department of Utilities

Environmental Management System

The City of Lawrence –Department of Utilities is awarded for its efforts in implementing an Environmental Management System (EMS).

The City of Lawrence Wastewater Utility has a very active biosolids reuse program. Biosolids are the treated solids from the wastewater treatment process that can be reused as a fertilizer on agricultural crops. In October 2005, the city received certification of an EMS for its biosolids. Upon realizing the benefits associated with implementing the EMS for biosolids, the directive was given to expand the EMS to the entire Wastewater Utility.



Dr. Ron Hammerschmidt, Jeanette Klamm

The city has spent several years developing, implementing, and receiving certification for its management system, which is referred to as the Lawrence Utility Management System. The System is in conformance with ISO 14001, OSHAS 18001, and National Biosolids Partnership EMS for Biosolids. In December 2006, the city became the second entity ever to undergo 3rd party audit and receive certifications in all three standards, and the FIRST to do so in an integrated system approach.

The city has seen numerous results from the system including increased citizen knowledge and awareness, increased communication and teamwork among staff, decreased fuel usage in land application and relatively constant electricity consumption despite a plant expansion.

For more information regarding this project, contact:

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City of Lawrence

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Grandview Products Company, Inc.

Recycling

Grandview Products is awarded for its efforts in recycling.

Grandview Products has been producing quality kitchen and vanity cabinets and countertops for sixty years. The company was sending all of its wood waste from its manufacturing process to the landfill. The disposal process was labor intensive and was costing over \$194,000 per year with estimated weights over 5,000 tons.

The company decided to try a new and very innovative approach to wood disposal. It was determined that it was very important

that the process be beneficial to the environment as well as cost effective. Working with Standley Milling of Lamar, MO, there was a determination to start grinding the wood waste straight into large trucks so it could be made into wood flour and be used as a filler to make plastic wood planks for decking.

The result for the past year was 4,448.88 tons of wood going to reuse/recycling, not the landfill, and a net savings of \$163,000 on transportation and tipping fees, causing an overall reduction of the disposal cost to only \$31,000. This along with other environmental efforts, such as using recycled wood and fibers in the manufacturing processes, using low or non HAPs stains and finishes, and being pro-active in the community on environmental issues enabled the company to become Green Certified under the Kansas Cabinet Maker's Association Environmental Stewardship Program in February 2007.

For more information on this project contact:

Emil F (Sonny) Zetmeir, Owner

Grandview Products Company

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Sophia Zetmeir, Sonny Zetmeir, Dr. Ron Hammerschmidt

Hawker Beechcraft – Salina Division

Pollution Prevention

Hawker Beechcraft Corporation – Salina Division is awarded for its efforts in pollution prevention.

Hawker Beechcraft Corporation (HBC) environmental programs have actively pursued “green chemistry” and the elimination of hazardous air pollutants (HAPs) for several years. The primary sources of HAP emissions come from paint, chemical milling maskant, and solvent usage.



Darwin Dykes, Dr. Ron Hammerschmidt

The company had already introduced the usage of high solids – low solvent/low VOC paints, but also wanted to reduce the HAPs and VOCs contained in hand-wipe cleaning solvents. The hand-wipe cleaner the company was using contained toluene, which is 100% HAP and VOC, and methyl ethyl ketone, which is 100% VOC.

Acetone has been used at HBC in limited quantities on the composite parts since the late 1980s. In the interest of reducing HAP and VOC emissions, the decision was made to use acetone as a wide spectrum hand-wipe cleaner. The facility was able to reduce the amount of VOC and HAP by 8.41 tons per year rolling average and 6.14 tons per year rolling average, respectively. The projected cost savings for 2007 is \$9,936.

For more information on this project, contact:

Darwin Dykes

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Kansas Equipment Exchange Program

Recycling

The Kansas Equipment Exchange Program is awarded for its efforts in recycling.

Kansas Health Care Policy (Medicaid) and the Assistive Technology for Kansans Program, coordinated by the University of Kansas, have worked together for nearly four years to collect, refurbish, and reassign used assistive technology and durable medical devices to Kansans with disabilities and health concerns. The Kansas Equipment Exchange Program (KEE) inventory includes items such as power and manual wheelchairs, scooters, electric hospital beds, patient lifts, electronic communication devices, and other assistive devices.



Jackie Dwyer, Dr. Ron Hammerschmidt, Patty Black Moore

Since March 2003, this program has collected 1,800 devices worth over \$1,941,414. Many of these devices – power wheelchairs, hospital beds, shower chairs, and other items – would have ended up in trash bins and landfills. Instead, certified vendors have refurbished the items and they have been reassigned to Kansans with disabilities at no cost to the consumer.

The KEE Program is working on expanding the collection and reassignment of electronic handheld devices such as personal digital assistants and navigational devices. Inclusion of organization and navigational devices will not only help persons with disabilities, but will help address the electronic waste problem facing our nation.

For more information regarding this project, contact:

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Sedgwick County Department on Aging RSVP Volunteer Program

Recycling

The Sedgwick County Department on Aging is awarded for its efforts in recycling through its RSVP Volunteer Program.

The RSVP Volunteer Program provides meaningful volunteer opportunities for adults 55 and older in Sedgwick County. Some of the projects the program manages facilitate the reuse of materials donated by the community. By reusing quality material, RSVP can assist in reducing the amount of trash that goes into landfills and promote environmentally friendly programs.



Karen Blucher, Dr. Ron Hammerschmidt, Monica Cissell

Stuffed bears are made from donated fabric then wrapped in a blanket made from fabric scraps and tucked into a handmade tote. These bears are given to community police who distribute them to children in traumatic situations. Three-foot square pillows are made from donated material and stuffed with used plastic newspaper bags and donated to schools and local day cares. Quilts and blankets are made with donated material and donated to cancer centers, hospitals, nursing homes, etc. Greeting cards are reused to make decorative items for residents of nursing homes during the holiday season.

This RSVP reuse program has collected and reused approximately one million newspaper bags, 5,000 yards of material, 2,000 greeting cards, 3,000 skeins of yarn, and 1,000 magazines.

For more information on this project, contact:

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