

Let's Save Energy



School Energy Managers Project



May 2014

Oldham County's recent renovation nets nearly 50% reduction in one of Kentucky's ten most energy efficient districts

The year was 1978 and excitement was all around. There was a new elementary school in Oldham County called Centerfield Elementary! It truly was a new, modern school that made the community proud. Then it happened – time passed and the school was over thirty years old.

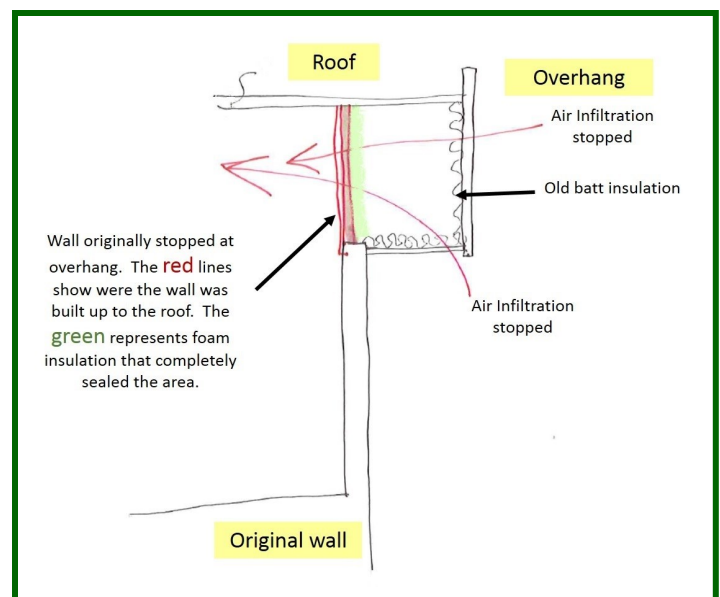
Jim Ewalt, Oldham County Facilities Director, knew that the school needed a new HVAC system, as well as "tightening up." "Centerfield Elementary was chosen for a renovation based on the age of the school," said Ewalt. "This school has not received any updates in 34 years, so it was the next elementary school on our facilities plan due for a major renovation."

The Centerfield renovation was completed in August 2012 and included the following:

- **New HVAC equipment** - originally planned to switch to a geothermal system but was abandoned when hitting rock while digging. Plan B was implemented which consisted of water source heat pumps with new cooling tower and high efficiency natural gas fired boilers.
- **New Web based Digital Controls** allowing for remote access
- **New range hoods type 1 and type 2** - eliminated one of the previous two "Type 1" range hoods by eliminating the fryers.
- **Building envelope sealed** - prior to renovation the exterior wall had stopped at the overhang. With the renovation, walls were built up to roof and sealed with foam insulation, thus closing off old overhang and eliminating significant air infiltration.



Energy Manager, Nancy Wenz tracked utilities for the school and identified the school had a low ENERGY STAR rating, which meant this was an expensive school to operate. "Prior to the renovation Centerfield Elementary was performing at a 60.8 EUI. Following the renovation, and even with the extreme weather, it is now operating at 35 EUI. Oldham County Schools is committed to energy efficiency, and has been for many years." This can be seen with Oldham County Schools being one of the top ten energy efficient districts in Kentucky with a districtwide EUI of 42.3





KENTUCKY HIGH PERFORMANCE SCHOOLS Booklet developed

munity to recognize ENERGY STAR Schools, which at the time totaled twelve. (An ENERGY STAR school is in the top twenty-five percent nationwide in utilizing energy efficiently.) Kentucky now has 254 ENERGY STAR Schools which demonstrates the Commonwealth and local Board of Education commitment to building energy efficient high performing schools

Because of the recent efforts of many Kentucky School Districts, Kentucky has become a leader in school energy management. In 2008 the Kentucky Energy and Environment Cabinet had produced and distributed a booklet to school boards, superintendents, governmental officials and the energy com-

KSBA-SEMP has updated the booklet to recognize the recent efforts that have been made. Copies of this booklet are being distributed to governmental and legislative officials, Board Chairpersons and Superintendents. Copies are available to all at: ksba.org/ENERGYSTARSchools.aspx

ENERGY STAR® Partner of the Year Awards presented to KSBA-SEMP and Kenton County School District

Two Kentucky school organizations were recognized as ENERGY STAR® Partners of the Year on April 29th in Washington DC.

KSBA's SEMP was recognized for Energy Efficiency Program Delivery and the Kenton County School District was recognized for improving energy efficiency of all buildings.

This award recognition program is open to all ENERGY STAR Partners. More information can be found at: www.energystar.gov/about/awards



Ron Willhite, Director of the School Energy Managers Project accepts the ENERGY STAR Partner of the Year Award from Elizabeth Craig, EPA