

# project profile



## Lawrence County Schools Saves Energy and Money

Lawrence County Schools, Louisa, Ky., had aging buildings that needed a variety of upgrades and repairs, including prior issues with mold, failing equipment, and no air conditioning in the high school gym. Working with Honeywell, the District now has a \$4.3 million Energy Savings Performance Contract (ESPC) that guarantees \$3 million in savings over a 15-year contract term. The District has realized energy savings exceeding the \$191,461 guarantee for the first year and received \$92,000 in utility rebates.

One school has received ENERGY STAR® certification because of its improved performance after the project.

## Honeywell

# Taking Control and Saving Money

## The Customer

### Lawrence County School District

- Lawrence County Schools, Louisa, Ky., includes one early learning center, four elementary schools, one middle school, one high school and one adult learning center.
- Total student enrollment is 2,500, supported by 200 teachers and administrative staff.

## The Problem

- The District's building systems were failing and/or beyond their useful life.
- Lighting and ventilation standards were not being met at two of the elementary schools.
- The energy management system had failed at the middle school and part of the high school control system was also experiencing problems.
- There were no fully functional building automation systems in any of the school buildings.

## Honeywell Solution

- Honeywell conducted a free energy analysis, which identified many of the District's needs. The end result was a \$4.3 million, 16-year guaranteed Energy Savings Performance Contract (ESPC) project – of which Honeywell guaranteed \$3.2 million in energy and operational savings.
- Honeywell worked with the District's leadership team, maintenance staff and energy manager to develop a comprehensive energy plan for lighting, building automation, IT, mechanical HVAC systems, transformers, water conservation, metering and building envelope.
- The District and Honeywell worked jointly to select the best vendors for the construction phase of the contract, which started in May 2012 with much of the work completed before school started in August.
- The Honeywell ESPC guaranteed first year total energy and operational savings of \$219,405 for the District. The guaranteed energy savings of \$191,461 were exceeded for the first year.

## Key Technologies

- Honeywell Enterprise Buildings Integrator for building automation
- Honeywell ComfortPoint® Open
- Occupancy sensors
- High efficiency transformers
- Variable-speed ductless split systems
- Dedicated outside air units with energy recovery wheels
- Network-based PC power management software
- Variable flow conversion of existing water source heat pump systems

## Results

The District has seen actual energy savings of over \$200,000 for the first year after project completion.

**\$200,000**  
**ENERGY SAVINGS**



Blaine Elementary School's first year performance achieved an ENERGY STAR score of 83, and it received ENERGY STAR certification in December 2013.



*"In April 2013, two gentlemen from the local electric coop stopped by Blaine Elementary School with a service order because the electric usage had dropped almost \$2,000 a month. After explaining the ESPC project, they agreed that must be the cause. I am thrilled with our energy savings, but even more thrilled that our efforts with Honeywell are being recognized within the community. We look forward to seeing continued energy savings over the coming years."*  
- Mike Armstrong, Superintendent,  
Lawrence County Schools

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