



Retrofit at Spring Valley High School Creates Big Savings with Little Expense

Location:

Huntington, West Virginia

Segment:

Commercial Lighting Systems

Challenge:

Public school budgets are extremely limited. The lighting system upgrade needed to reduce energy consumption significantly and have a negligible cost.

Solution:

Greengate® ceiling mounted occupancy sensors

Results:

The lighting system upgrade at SVHS has reduced the energy bill by over \$4,000 every month. The system paid for itself and returned a profit to the school district within its first month of operation.

“These occupancy sensors have saved us an incredible amount of money. They work exactly as advertised.”

Matt Stanley, Director of Facilities and Maintenance for Wayne County Schools

Background

Energy costs at Spring Valley High School (SVHS) were high, over \$14,000 every month, and Matt Stanley, Director of Facilities and Maintenance for Wayne County, and a former Principal, was looking for ways to save money. He knew that the lighting system consumed a significant portion of the total energy used by the building, so he began exploring the potential advantages of new equipment, which included upgrading the existing T12 lamps and investing in better lighting controls. During this time, he noticed that the lights at the school were often not turned off after everyone had left. Seeing the interior of the empty school glowing through the night caused Mr. Stanley to take a much closer look at occupancy sensors.

Challenge

Public school budgets are extremely limited. Mr. Stanley needed to reduce the sizable energy consumption of the school and incur very little expense in the process.



Powering Business Worldwide

Solution

Using rebates offered by the local power company Appalachian Power to finance the majority of the project, Mr. Stanley replaced the T12 lamps with LEDs and installed over 200 occupancy sensors throughout the school. Greengate occupancy sensors are now found in every classroom, administrative office, bathroom, hallway and in the cafeteria at SVHS.

Greengate occupancy sensors provide industry-leading performance, in terms of activation and coverage, and include a broad set of industry-exclusive, customizable features that dramatically improve the energy efficiency and functionality of any space. This complete line of sensors includes a variety of sensor technologies and configurations offering the perfect match between the activities in a room, the layout of the room, and the occupancy sensor.

Six reasons Greengate ceiling mount occupancy sensors were the perfect fit for SVHS:

- Line voltage sensors enabled team to retrofit the school without a switchpack
- Dual technology, line voltage sensors were available in both ceiling mount and wall switch mount types
- Larger coverage area (2,000 sq. ft.) accommodated larger classrooms and hallways
- MicroSet™ self-adjusting technology simplified installation and continuously adapts time delay and sensitivity to best match changing uses of a room

- Walk-Through Mode feature reduces the amount of time that lights remain ON after a momentary occupancy occurs, saving energy
- Appalachian Power offered a \$28 rebate for Greengate occupancy sensors with a connected load of less than 500W and a \$70 rebate for Greengate occupancy sensors with a connected load of 500W or more

"I only talk about occupancy sensors from Eaton. They are the best."

*Mike Baisden, Branch Manager,
Huntington, West Virginia Electric*

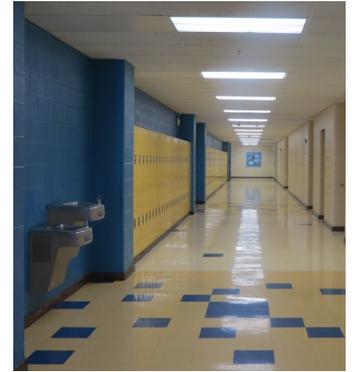
Results

These lighting system improvements have generated remarkable and press-worthy results. The entire lighting system upgrade at SVHS paid for itself and returned a profit to the school district within the first month of the new system's operation. It reduced the total energy bill by over \$4,000 every month (over 28 percent) and created a Wayne county-wide enthusiasm for more energy-efficient educational facilities.

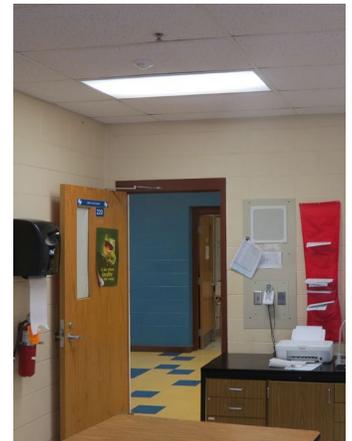
The SVHS lighting system upgrades have been so successful that all twenty-one schools in Wayne County are now slated to receive LED fixtures and occupancy sensors. Although the energy overhaul is only newly underway, the district is raking in the savings. In the first three months of the 2014-2015 school year, these energy-saving efforts have returned over \$103,000 to the operational bottom line.



Greengate Ceiling Mounted Occupancy Sensor



Spring Valley High School Hallway



Spring Valley High School Classroom with Greengate Occupancy Sensor

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