

Harrisburg Area Community College

Harrisburg, Pennsylvania



Campus improvements increase comfort and save money

Established in 1964, Harrisburg Area Community College is dedicated to fostering educational, cultural, work force and economic growth in Pennsylvania's state capital and an eight county primary service area. HACC helps students obtain skills and knowledge in nursing and healthcare, law enforcement and public safety, technology trades and other career-focused subjects.

In 1998 and again in 2005, HACC partnered with Johnson Controls to increase energy efficiency and lower operating costs on its campuses, while improving the educational environment for students, upgrading campus security and reducing its carbon footprint.

And because HACC chose to use performance contracting to procure these improvements, the school was able to offset the facility upgrades with the energy and operational cost savings they generate over the life of the contracts.

Challenges

- Improve the comfort of students and staff in campus classrooms and other facilities while improving staff efficiency.
- Increase energy efficiency to reduce costs of operating and maintaining campus buildings.
- Upgrade access management of campus facilities to increase security of students and staff.

Johnson Controls Solutions

- Install high-efficiency lighting fixtures, bulbs and motion sensors.
- Upgrade mechanical systems and HVAC controls, and install electric meters to monitor energy usage in individual buildings.
- Install solar panels to help heat Evans gymnasium; upgrade to high-efficiency plumbing fixtures to reduce water usage; make needed swimming pool repairs.
- Install access management controls on 260 doors and provide 24/7 video surveillance in hallways.

Results

- Guaranteed energy and operational savings of \$7.1 million over the life of the contract.
- Reduced energy usage, resulting in the avoidance of 5,417 metric tons in greenhouse gas emissions.
- Dramatically improved the comfort of students and staff and created an environment more conducive to learning.
- Reduced deferred maintenance backlog permitting staff to shorten response time for maintenance requests.
- Increased security of students and staff while creating a surveillance record of activities in campus facilities and decreased risk of asset theft.
- Helped the college win an ENERGY STAR® award from the Environmental Protection Agency.