

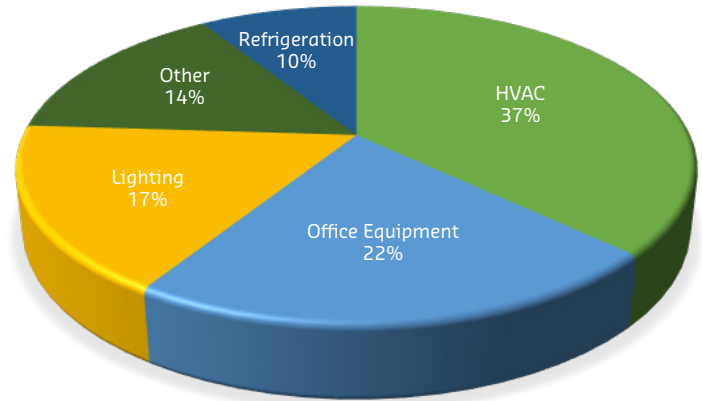
On average, schools spend more than \$8 billion a year on energy costs.* According to the U.S. EPA, schools that target energy efficiency in their operations and maintenance can typically reduce operating costs by 5 to 20%. Take control of your energy costs without impacting your educational mission – start today with some of the energy-saving strategies identified below.

*Source: US Department of Energy

Low-cost / No-cost Fixes:

- Turn off lights and devices such as computers and office equipment when not in use
- For equipment that can't be turned off, turn down to minimum levels – adjust HVAC temperature settings during closed hours based on seasonal trends
- Follow manufacturer recommendations for cleaning and maintenance of equipment: ensure proper operation of economizers, change filters, clean coils and check refrigerant charge on HVAC systems

Educational Facility Energy End Use Profile*



*Source: US Energy Information Administration

Are you ready to take the next steps towards energy conservation? Consider upgrading older, less efficient equipment and installing controls on lighting and building equipment. Many of these upgrades are eligible for incentives that can reduce capital costs and shorten the payback period, such as:



Upgrade to Energy-Efficient Lighting

Lighting is critical to creating an effective learning environment and high-quality lighting design can improve student performance, productivity and overall health.

- Replace all interior and exterior bulbs with the low-energy equivalent – LED bulbs can save up to 80 percent on the cost of lighting
- Replace refrigerated display case lighting with LED lights and add occupancy sensors
- Replace electric advertising signs and emergency exit signs with LED equivalents



Optimize HVAC System

As shown above, HVAC accounts for the largest overall energy consumption in the education sector. Options for improving energy efficiency include:

- Replace older, less efficient HVAC units with high-efficiency units
- Install HVAC controls, such as programmable thermostats, digital economizers, demand controlled ventilation, and enhanced ventilation controls



Install Lighting Controls

Whether occupancy sensors or the addition of skylights and daylighting controls are a better option, controls to adjust lighting levels as needed can produce large energy savings.



Reduce Energy Demand of Computers, Appliances and Equipment

There are several technologies that can be considered, including:

- Installation of smart strips to reduce energy when not in use
- Replace older computers and appliances with ENERGY STAR® equipment
- Install controllers for beverage vending machines

Start Here: Apply online at EnergySavePA-Business.com, email EnergySavePA@Sodexo.com, or call 844-243-4946.

Project Examples:

K-12 School District - High School



Project Description:

Addition of VFD on Hot Water Pump

Equipment Cost:

\$6,350

Incentive:

\$2,000

Annual Savings:

64,994 kWh

Payback with Incentive:

Less than 8 Months*

K-12 School District - Multiple Buildings



Project Description:

Installation of Building Controls,
Retrocommissioning

Equipment Cost:

\$35,800

Incentive:

\$5,900

Annual Savings:

126,260 kWh

Payback with Incentive:

2.4 Years*

College/University



Project Description:

Replacement of Interior/Exterior Lighting with LED

Equipment Cost:

\$59,000

Incentive:

\$9,070

Annual Savings:

181,445 kWh

Payback with Incentive:

2.75 Years*

*Payback calculated using \$.10/kWh electricity cost