



**A typical school would have to save the equivalent cost of 127,584 pencils annually to equal the amount of money saved by upgrading to LED lighting.\***

Not only can school districts save energy by using more energy efficient equipment, but there are additional positive effects on the overall revenue and environment of the school. By simply upgrading to LED lighting and energy efficient HVAC systems, your school districts could see the following benefits. \*

- Enhanced student and faculty comfort, safety and satisfaction.
- Lowered maintenance costs.
- Increased faculty and student productivity.
- Decreased illness by improving the indoor air quality.

\* Based on a 2017 DNV GL study



**“We have spent far less time maintaining the boilers and they are running at a significantly higher efficiency rate.”**

**- John Fattal,  
Assistant Superintendent/  
Curriculum Director,  
Corunna Public Schools**

Consumers Energy offers rebates, technical services and more to help school districts like yours become more energy efficient. Our team is here to walk you through the program requirements and available resources.

**Contact us**

877-607-0737

[ConsumersEnergyBusinessSolutions@cmsenergy.com](mailto:ConsumersEnergyBusinessSolutions@cmsenergy.com)

**Learn more at**

[ConsumersEnergy.com/startsaving](http://ConsumersEnergy.com/startsaving)

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# **K-12 School** Hidden Benefits of Energy Efficiency

**Consumers Energy**

*Count on Us®*

# Energy Efficiency Impacts in Schools

The following non-energy improvements can result from upgrading to energy efficient equipment:

## Improved Environment

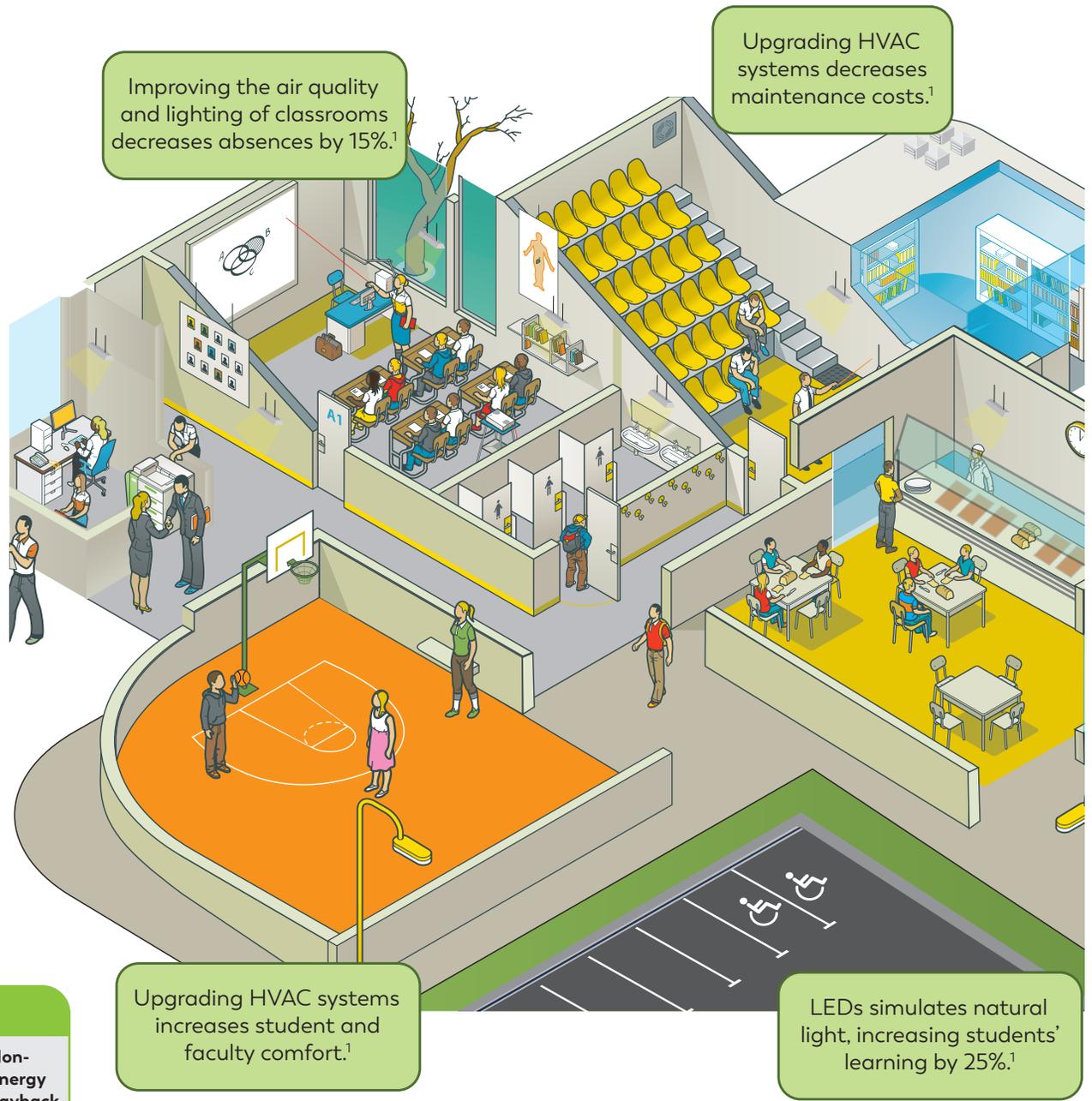
A failure of any component of the HVAC system may expose students and faculty to airborne pathogens. Relative humidity levels greater than 60% promote fungal growth. Upgrading your HVAC system reduces these risks, improves student and faculty health and decreases absences by 15%.

## Increased Productivity and Comfort

LEDs can improve the mood and attention of students in the classroom. LEDs simulate daylight and increase student productivity by 20% and learning by 25%. HVAC systems in school buildings should be designed to maintain a comfortable indoor air temperature and level of humidity. An updated HVAC system does this and provides a cleaner, quieter and healthier environment for students, teachers and staff.

## O&M Cost Savings

Energy management systems and HVAC controls have lower maintenance requirements and reduce repair costs. The longer equipment life of energy efficiency products frees up time to accomplish other tasks or large projects.



## O&M Cost Savings

Equipment	Energy Savings	Non-Energy Savings	Total Savings	Energy Payback	Non-Energy Payback
Lighting	\$2,961	\$7,670	\$10,632	3.10 yrs.	0.86 yrs.
VFD	\$906	\$0	\$906	2.11 yrs.	2.11 yrs.

1. Local government climate and energy strategy series: Energy Efficiency Programs in K-12 Schools: A Guide to Developing and Implementing Greenhouse Gas Reduction Programs. U.S. Environmental Protection Agency. 2011.