



## Project Reference

# Caroline County Public Schools

Denton, Maryland

### Contact:

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 Denton, MD 21629  
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## Improvements Implemented:

- ▶ Lighting system retrofit
- ▶ Energy management system
- ▶ Absorption chillers replacement
- ▶ Isolated cooling systems installation
- ▶ Kitchen equipment fuel conversion

## Environmental Impact:

1,193 tons of harmful greenhouse gas emissions reduced annually

Equivalent to:

- ▶ Preserving 7.6 acres of forest from deforestation
- ▶ Conserving 2,518 barrels of oil

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Sources:  
 Leonardo Academy's Cleaner & Greener<sup>SM</sup> Emissions Reduction Calculator,  
[http://www.cleanerandgreener.org/resources/emission\\_reductions.htm](http://www.cleanerandgreener.org/resources/emission_reductions.htm)

U.S. Environmental Protection Agency, Greenhouse Gas Equivalencies Calculator,  
<http://www.epa.gov/cleanenergy/energy-resources/calculator.html>

## Project Stats

**Project Type:** K-12 school district

**Project Size:** 10 buildings, 665,249 sq. ft.

**Project Value:** \$1,086,220

	Energy	Non-Energy
Guaranteed Annual Savings	\$126,554	\$18,915
	Start Date	End Date
Construction	Jul. 2002	Mar. 2003
Guarantee	Apr. 2003	Apr. 2018

### Challenge:

Caroline County Public Schools formed a partnership with Custom Energy Services to implement a crucial piece of its overall comprehensive energy management program. Their existing energy management system had become obsolete over the years and needed to be replaced. Also, the central chillers installed in the administrative areas were running continuously in the summer months, costing the district added operating costs.

### Solution:

The replacement of the existing energy management system with a state-of-the-art system, which communicates over the school system's Ethernet network, has enabled the maintenance department to control energy use and improved service to students and staff. Dedicated cooling systems were installed in administrative areas to eliminate the need to operate the central chillers during the summer months. Construction was scheduled to avoid interruption to the students' learning process. This included kitchen equipment replacements being performed during unoccupied hours, and manufacturer start-up assistance scheduled at night.



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