



# Efficiency Now

It's never been more important.

## East Muskingum Local School District: *Zanesville, Ohio* School district fulfills a promise and saves on energy bills



### Background:

The East Muskingum Local School District is a consolidated district covering 192 square miles and serving nearly 2,200 students. The district is focused on sustainability and has been building new schools and remodeling existing ones to provide productive and operationally efficient facilities for its students and faculty.

### Opportunity:

Although the district had promised to retrofit Perry Elementary with air conditioning, it did not have the necessary financial resources. A geothermal system, which provides both heating and air conditioning, would meet the district's sustainability goals but would not provide enough savings to cover its cost. Johnson Controls conducted an energy audit and identified additional energy efficiency measures that would augment the savings generated through the use of geothermal energy. Johnson Controls also performed lighting retrofits and a partial roof and insulation replacement at Perry Elementary and implemented demand controlled ventilation at five East Muskingum schools.

### Results: \$675,000 savings

East Muskingum's energy conservation projects and geothermal installation drove energy and operational savings of more than \$675,700, which paid for the improvements themselves. Perry Elementary's geothermal system has resulted in lower utility bills from reduced natural gas consumption and reduced maintenance due to decreased boiler run time. It is considered a successful demonstration of the technology, which could now be applied in two larger schools.

Efficiency makes sense for everything from the wallet to the environment. Efficiency measures can be accomplished quickly, they're relatively easy, and there's a real payback. The world needs efficiency, and Johnson Controls has everything necessary to provide it. We've got the experts, we've got the technology, and we've got ingenuity and integrity built into everything we do. For more examples of energy and operational solutions for buildings around the world, visit [johnsoncontrols.com/efficiencynow](http://johnsoncontrols.com/efficiencynow).

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