

## Contract Details

*Contract Type:*

Energy Savings Performance Contract

*Facility Size:*

2 buildings

200,110 sq. feet

*Annual Energy Savings:*

\$80,570

*Energy Project Size:*

\$1,120,578

## Summary

Mesick Consolidated School District partnered with Ameresco to reduce energy costs, increase energy efficiency, and improve occupant comfort. Ameresco designed and implemented an Energy Savings Performance Contract across 200,110 square feet of school facilities. Energy efficiency measures included lighting relamping and replacement, mechanical upgrades, water conservation enhancements, energy management system advancements, and building envelope improvements.



Through an Energy Savings Performance Contract, Mesick Consolidated Schools is expected to save \$80,570 in annual energy costs.

## Customer Benefits

Mesick Consolidated Schools partnered with Ameresco to upgrade school facilities and enhance the learning and work environment for students and staff. The \$1.1 million Energy Savings Performance Contract (ESPC) was designed to create a more energy efficient and comfortable learning environment.

Like many school districts, Mesick Schools did not have the budget to fund necessary building upgrades so they had to find an innovative way to fund these improvements without up-front cost. The entire project was funded with the savings achieved by upgrading the two school buildings.

## Environmental Benefits

Through the Mesick Consolidated School's partnership with Ameresco, the Schools are expected to save the equivalent of 280 metric tons of CO<sub>2</sub> per year. The green benefit from this carbon reduction is roughly equivalent to:

- ▶ 463 acres of trees planted for one year
- ▶ 340 cars taken off the road for one year
- ▶ 39 households powered for one year

The project assists in reducing the need for energy from traditional power plants fueled by fossil fuels.

## Accolades

*"This was our District's first experience with an Energy Savings Performance Contract. The process was seamless and working with Ameresco was a very positive experience. With such tight financial constraints on the District, we are pleased with the results Ameresco provided us. Throughout the entire process, Ameresco's team was responsive and on schedule. Our Board was impressed with their team throughout the development and implementation phase."*

*- Mr. Mike Corey, Superintendent  
Mesick Consolidated Schools*



The Direct Digital Control system at Mesick High School was retro-commissioned through an Energy Savings Performance Contract with Ameresco.

## About Mesick Consolidated Schools

Mesick Consolidated Schools is located in Mesick, MI and consists of Mesick Elementary/Middle School and Mesick High School. Mesick Consolidated Schools, in partnership with the community, is dedicated to developing successful learners, creative thinkers, and productive citizens.

Learn more at [www.mesick.org](http://www.mesick.org).

## About Ameresco

Ameresco, Inc. (NYSE:AMRC) is one of the leading energy efficiency and renewable energy services providers. Our energy experts deliver long-term customer value, environmental stewardship, and sustainability through energy efficiency services, alternative energy, supply management, and innovative facility renewal all with practical financial solutions. Ameresco and its predecessors have constructed billions in projects throughout North America.

For more information about Ameresco and our full-range of energy efficiency and renewable energy solutions, please visit <http://www.ameresco.com>.



400 Watt metal halide fixtures were replaced with 54 watt T5HO high bay fixtures in the High School gymnasium.

## Services Provided

Construction for the Energy Savings Performance Contract started in December 2012 and was complete in December 2013. Energy conservation measures included mechanical equipment upgrades, lighting improvements, energy management systems upgrades and retro-commissioning, building envelope improvements, and water conservation upgrades.

Ameresco replaced the existing boiler with a new high-efficiency condensing boiler at the Elementary/Middle School. This building is now heated with a propane high-efficiency boiler, which can easily switch to natural gas if natural gas becomes available.

Ameresco upgraded interior and exterior lighting at both school buildings. Existing incandescent, metal halide, and older fluorescent technology were replaced with newer fluorescent technologies using high efficiency ballasts and occupancy sensors. 400 Watt metal halide fixtures were replaced with 54 watt T5HO fluorescent high bay fixtures at the High School gymnasium. The new fixtures provide higher lighting quality while consuming less energy than the metal halide fixtures. The new fluorescent fixtures have been combined with occupancy sensors that further reduce operating costs.

The pneumatic controls at the Elementary/Middle School were replaced with a new Direct Digital Control (DDC) system to eliminate the inadequate control strategies. The existing DDC system at the High School was retro-commissioned to improve the efficiency and functionality between the equipment and systems.



A new boiler and pumping system replaced the existing equipment, that dated back to early 1990's, at the Middle School. The new boiler also serves the adjacent Elementary School.