

Ameren Missouri BizSavers® Program Energy Savings Case Study

Boonville R-1 School District

Since 2017, Boonville R-1 School District has been making smart energy-saving upgrades, creating a brighter and more comfortable environment for their staff and students. The school district implemented energy-efficient upgrades for the Hannah Cole Primary School building over the summer of 2019, resulting in over \$14,000 in incentives from the Ameren Missouri BizSavers® Program, as seen in the photo to the right. This was the biggest project yet for the school district.



Project Summary

The district was able to take advantage of the energy efficiency program by installing a building automation system and a ground source VFD heat pump upgrade. In addition to HVAC upgrades, more than 2,400 lighting fixtures in several district buildings were upgraded to LEDs over the course of three years. Installing the lighting and HVAC upgrades has provided over \$32,500 in annual energy cost savings.

Incentive

Boonville R-1 School District has received over \$31,800 in incentives for their energy-saving upgrades from the BizSavers Program. Because of the generous incentives and annual energy cost savings, the upgrades to Hannah Cole Primary School paid for themselves within a year.

Technology

LED lighting is known for its low energy costs and long life. In fact, LED lamps can save up to 84% in energy costs as compared to incandescent lamps. They also generate less heat, reducing the impact on the HVAC load. Upgrading inefficient HVAC systems can significantly reduce a building's energy usage by 30-50%. The building automation system controls the heating, cooling & ventilation systems to run as efficiently as possible by managing the inputs to the equipment. Making energy-efficient HVAC improvements, like control systems, have several benefits in addition to energy cost savings, including reduced maintenance costs and improved comfort and safety, providing a better environment for students and staff.

Facility Information

Facility type:
K-12 Schools

Measures:
Lighting, HVAC and Motors

Annual energy cost savings:
\$32,578.42

Annual kWh savings:
353,915

Total project costs:
\$109,504.82

Total incentives:
\$31,819.60

Payback:
2.4 years

Get Started Saving!

Find out how you can save at AmerenMissouri.com/BizSavers or by contacting a Business Development Representative at BizSavers@Ameren.com or **1.866.941.7299**. Ready to start saving now? Find an approved contractor at TradeAllyNetwork.com.