

Hoisington USD 431

Energy-Efficiency Improvements
Hoisington, Kansas



QUICK FACTS

- Completion:** 2023
- Total Square Feet:** 237,700
- Number of Buildings:** 4
- Total Project Cost:** \$663,000
- Annual Savings:** \$22,800

ENERGY CONSERVATION MEASURES

- building automation and control systems (BAS)
- variable air volume (VAV) systems BAS
- heat-vent units BAS control
- exhaust fan BAS control
- chiller-boilers air handling units (AHU) rooftop units (RTU) BAS Control
- fan coil and unite ventilator BAS control

BACKGROUND

Hoisington USD 431 is a public unified school district headquartered in Hoisington, Kansas. The district includes the communities of Hoisington, Galatia, Susank, and nearby rural areas. District facilities include Hoisington High School, Hoisington Middle School, Lincoln Elementary, and Roosevelt Elementary.

CHALLENGE

The district urgently required a new building controls system to address its outdated and inefficient infrastructure. The current controls were obsolete, leading to significant energy waste and operational inefficiencies. They needed a new building automation control (BAS) system to streamline maintenance and reduce energy costs. Implementing this new system would likely provide the best ROI for any energy project ESP offered, making it a crucial investment for the district's future.

SOLUTION

ESP provided the district with a new BAS system and thorough training on how to best utilize its capabilities. Initially, ESP and the district devised a plan to use ESSER funds to replace the outdated controls with new, efficient ones. Throughout the project, ESP maintained transparency, and the school remained highly engaged. By upgrading all devices and equipment to modern, state-of-the-art systems, the district will enhance energy management, improve indoor air quality, and ensure a comfortable learning environment for students and staff.

BENEFITS

The upgrades have created a better learning and teaching environment for students and staff. The comprehensive upgrades that ESP made will not only optimize the performance of the facilities but also reduce long-term operational costs and support the district's sustainability goals.