

Hartville R-II School District Hartville, Missouri



Project Results



“Our district was faced with a critical need to improve our indoor air quality. We had been experiencing school closings due to illness, lowered attendance levels and students were having difficulty staying awake as the day progressed. The recommendations and work performed by CTS addressed these concerns and many others. Since the improvements have been made we have not experienced one day of closing due to illness and our attendance rate has greatly improved for both students and staff. We attribute this to the success of the project and the establishment of a comfortable environment. Everything I expected of CTS is there with a relationship built on trust and loyalty.”

John Link, Superintendent

Customer Concerns

Indoor air quality and fresh ventilation were major concerns facing the District. Illness and attendance issues were an ongoing problem due to high CO2 levels. Other issues facing the District include:

- Heating and cooling systems needed renovation in many areas.
- Gym roofs were leaking.
- Major electrical upgrades were needed.
- Lighting and life safety upgrades were necessary.



Project Overview

- Mechanical systems are renovated throughout the facilities.
- Temperature and ventilation are precisely controlled with sensors. As CO2 rises in the classroom the sensors opens dampers to increase the amount of fresh air to meet code requirements. As the classroom CO2 levels fall, the sensor closes the fresh air dampers to conserve energy. Ventilation was a key ingredient in fixing the issues associated with the district’s facilities.
- The building automation system allows for energy efficiency and the automatic control of heating, cooling and ventilation levels. The systems are also able to be monitored remotely.
- Electrical service was upgraded to safely and efficiently service the facilities and all equipment upgrades.
- Lighting upgrades with efficient T-12 lamps and electronic ballasts not only increase light levels, but energy consumption is reduced by 40%.
- **The improvements have resulted in over \$49,000 annual energy savings alone, with projected energy and cost avoidance savings of over \$1,926,705 to the District over 15 years.**