

Platte County R-III School District

The Problem

The Platte County R-III School District is financially stable with a lot of exciting things on the horizon. Growth has kept them close to their bond debt capacity, assessed values have been stagnant while more and more is being asked to meet student needs.

They were looking for alternative ways to help fund their long range facility plans as current funds budgeted for facility improvements and new facilities were not keeping up with needs.

Their needs included improving and replacing aging equipment. They also had a need for new facilities to begin moving away from the current model of small school facilities that house 2-3 grades.

The intent is to move toward a more standardize K-6 elementary structure over time. Many of their facilities were operating with in-efficient aging equipment and systems which also provided significant comfort issues.



8 Building; 633,500 sq.ft.
Contract Amount: \$5,148,451



The Technical Solution

Eight aging facilities with several additions built over the years, the Platte County R-III School District was a collection of different types of systems and equipment. Our responsibility was to help identify equipment to be replaced and energy saving strategies to implement. The district decided to implement energy efficient equipment to replace much of their aging systems. This included lighting upgrades, water efficiency upgrades, temperature control upgrades, heating and cooling system upgrades and improvements to the building envelopes. They also implemented data analytics and an energy manager to educate and make sure future decisions continue to consider and evaluate energy conservation.



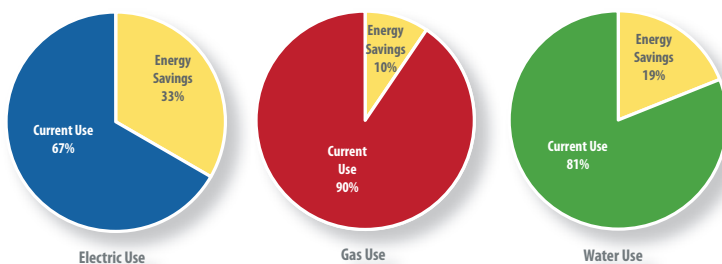
The Financial Solution

Navitas helped identify the energy savings strategies and improvements to fund significant facility improvements. Over \$456,000 in annual savings and \$320,000 in utility incentives provided more than enough money to fund \$5,148,451 in facility improvements. This program has helped to modernize their educational spaces and bring their schools into the top 25th percentile of schools nationwide.

Improvement measures implemented:

- Lighting & Lighting Controls
- Low-Flow Water Fixtures
- Building Automation System
- Rooftop unit replacement
- Terminal Unit Replacements
- Gas Heating Conversion
- Fire Alarm System Upgrades
- Retro-commissioning
- Infiltration Reduction

Savings Summary



Total Savings Over 15 years = \$8,802,784

Environmental Impact:

6,559,780 lbs. of harmful CO₂ greenhouse gas emissions reduced annually

Equivalent to:

- Preserving 22 acres of forest from deforestation
- Conserving 336,414 gallons of gasoline