

CASE STUDY

Prairieview-Ogden CSD 197

106 N Vine St.
Royal, IL 61871
217-583-3300

Contact: Victor White, Superintendent



Cost: \$924,071

Construction Start/Stop Dates:
4/15/09 – 8/24/09

Type: Guaranteed Performance Contract

Term: 20 Year Term

Total Savings: \$432,206 Energy /
\$852,358 Operational and
Maintenance Costs

Results: *“During our Spring Break CTS was able to complete a large portion of the project with no concerns or problems. I am amazed that all of these items were completed perfectly in such a short time frame. Another item that I am very impressed with is the project manager who is always on site whenever there are workers present. With absolutely no reservations, I highly recommend CTS as a wonderful performance contract company to work as a partner with the district.”*

Victor White, Superintendent

Challenge: Like districts everywhere, Prairieview-Ogden was faced with inefficient facilities which needed retrofit to provide comfortable and productive learning environments while obtaining energy savings. With energy prices rising, the Superintendent was confronting the difficult choice of re-allocating funds from educational programs to campus maintenance.

“We were facing a tough decision, because we had an inefficient boiler system that was 55 years old and we did not have the building funds to replace it,” said Superintendent Vic White. “We always want to put as much money as possible towards educating our students, but we also needed a new energy efficient system to heat and now cool the school.”

Solution: CTS conducted a full study of all available options with financial analyses of true life cycle costs of various HVAC renovation applications. The geothermal system would allow the school to significantly reduce their impact on the environment and save a significant amount of money and energy over the long term.

On behalf of the District, CTS applied for and was awarded a \$90,000 grant from the Illinois Clean Energy Community Foundation, and \$53,000 of ARRA funds to fund the energy savings project. The funding from the grant helped the school district invest in energy saving improvements that will offset operating costs into the future. The grant funds helped offset the increase in the initial cost of a geothermal system versus traditional mechanical systems.

The CTS retrofit project and the ICECF grant helped the school become self-sustaining by: 1) reducing energy consumption, counteracting rising energy demand, and upgrading heating, cooling and lighting; 2) modernize an aging facility that dates back to 1955 without disruption of school operations; 3) modeling best practices and serving as a role model for other rural school districts.

When compared to the installation of a roof top unit system, the new geothermal system is projected to save the District nearly \$33,000 a year and decrease annual fossil fuel emissions by 95%.

