

focus on energy

energy management success story

Renovations Reap Energy Savings for North Central Iowa Community

While enhancing a recreational facility and building a safe and inviting day care for children, the community of Webster City has placed a focus on energy efficiency as part of the Rebuild Iowa program.

Fuller Hall

Fuller Hall is located in the heart of Webster City and serves as a community gathering place and recreational facility.

City officials began renovating the building in 2002. The facility includes a gymnasium, two racquetball courts, swimming pool, exercise and weight room, locker rooms, game room, and a community room for special events such as birthdays and receptions.

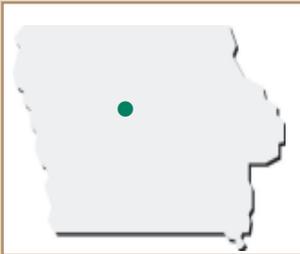
Local Partnerships

Webster City Municipal Utility provided guidance and expertise to city officials on the installation of a geothermal heating and cooling system, energy efficient lighting, and general construction technique.

Facility at a Glance:

Fuller Hall

Webster City, Iowa



Types of Services: A community-owned recreational facility with an indoor swimming pool, exercise and weight facilities, gymnasium and racquetball courts

Facilities Description: A 24,000 square-foot recreational facility, originally built in 1956 with renovations completed in 2002

Energy Improvements:

- ◆ Installation of geothermal heating and cooling systems
- ◆ Energy efficient lighting

The geothermal system provides both heating and cooling to the building, offering a more efficient energy source.

The improvements to Fuller Hall have enabled the center to add significant square footage for citizen use while maintaining a cost-effective operating budget. It is estimated that improvements to the mechanical and electrical system will pay for themselves in a four-year time

frame and subsequently generate positive savings for the center.

Energy Savings

The community invested \$158,500 in energy improvements with an annually projected savings of almost \$20,000. The facility also hopes to save more than 183,000 kWh in energy use a year.

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Webster City Day Care

The Webster City Day Care Center has operated in Webster City for approximately 30 years and provides day care services for infants through school-age children.

The center's current location was a former grocery store that has been remodeled to house six different day care rooms, a multi-purpose room, full-service kitchen, offices, staff areas, and a board room. The renovation also included the installation of an outdoor playground space, which is accessible from each of the classroom areas.

Efficient Renovations

With a budget of approximately \$1.5 million, the day care board solicited local funds, matched

"The Webster City Day Care exemplifies our on-going commitment to geothermal technology. The heating and cooling system made good business sense for our municipal utility and its customers."

- Teresa Rotschafer
City Manager,
Webster City

them with a USDA Rural Development loan, and totally renovated an aging and almost dilapidated structure. The exterior walls and parking area were salvageable, but the remainder of the building needed comprehensive updates.

All new electric and plumbing services were installed, as well as a new roof, doors, windows,

Facility at a Glance:

Webster City Day Care/ Education Center Webster City, Iowa



Types of Services: Day care services for infants through school-age children; a partner with Head Start and Early Head Start and licensed to serve 130 children at this location

Facilities Description: A 13,000 square-foot facility with renovations completed in 2003

Energy Improvements:

- ◆ Installation of geothermal heating and cooling systems with domestic hot water system
- ◆ Installation of energy efficient lighting and windows
- ◆ Additional insulation added to the ceiling

interior walls and doors, and a unique age-group pod system that allows a single care giver to supervise two classrooms at once, with each pair of rooms sharing a common kitchenette and changing area.

Geothermal heating and cooling, energy efficient lighting, and efficient construction practices were used to improve the day care. The bore field for the day care's geothermal heat pump system now serves as the playground area. Windows were added to each classroom and natural daylighting spills into the

play areas for children of all ages.

Energy Savings

The facility invested more than \$235,000 in energy improvements and received a \$20,000 local utility rebate. The project also hopes to save more than \$10,400 a year and 67,500 kWh in annual energy use.

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