



# Case Study

## Buhler Unified School District 313 Buhler, KS



### PROJECT HIGHLIGHTS

#### Environmental Benefits

1,074 tons of harmful greenhouse gas emissions reduced annually

#### Equivalent to:

- Preserving 6.8 acres of forest from deforestation\* or
- Conserving 2,266 barrels of oil\*

#### Capital Costs

\$1,166,186

#### Annual Savings

Energy:	\$56,502
Non-Energy:	\$9,008
Utility Cost Reduction:	24%

#### \* Sources:

- Leonardo Academy's Cleaner & Greener<sup>SM</sup> Emissions Reduction Calculator  
[http://www.cleanerandgreener.org/resources/emission\\_reductions.htm](http://www.cleanerandgreener.org/resources/emission_reductions.htm)
- U.S. Environmental Protection Agency, Greenhouse Gas Equivalencies Calculator  
<http://www.epa.gov/cleanenergy/energy-resources/calculator.html>

### PROJECT DESCRIPTION

#### Energy Savings Performance Contract

**Challenge:** Buhler Unified School District is located in central Kansas, and consists of nine buildings with an enrollment of 2,200 students. Six schools and the Burkholder Administrative Center were identified as needing repairs and upgrades. In particular, the failing boiler and chiller systems in the middle school created the possibility of unplanned school closings.

### PROJECT SCOPE

**Solution:** ConEdison *Solutions*, through its subsidiary, Custom Energy Services, was able to replace the failing boiler and chiller systems in the middle school, as well as help the district make other needed improvements. This was the first school district in Kansas to utilize and have projects completed under the Facility Conservation Improvement Program (FCIP).

As a result of the energy conservation measures implemented in this project, Buhler High School and Prairie Hills Elementary School qualified for and received the ENERGY STAR<sup>®</sup> designation. These schools scored high enough in energy performance to be ranked in the top 25 percent when compared to other school buildings in the nation.

The project was met with strong support from the local community and state government, as they applauded the administration's wise use of existing taxpayer funds during a time of rising energy costs.

#### Contact:

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#### Construction Start Date:

April 2005

#### Construction End Date:

August 2005

### ENERGY CONSERVATION MEASURES

#### Lighting

- High efficiency lighting

#### Building Controls

- Energy management system

#### Heating and Cooling

- Boiler
- Chiller

#### Water Conservation

- Low-flow water fixtures

Buildings awarded the  
**ENERGY STAR**

