



Case Study

Kansas School for the Deaf Olathe, KS



PROJECT HIGHLIGHTS

Environmental Benefits

781 tons of harmful greenhouse gas emissions reduced annually

Equivalent to:

- Preserving 4.9 acres of forest from deforestation* or
- Conserving 1,647 barrels of oil*

Capital Costs

\$1,016,810

Annual Savings

Energy:	\$77,484
Non-Energy:	\$15,857

* Sources:

- Leonardo Academy's Cleaner & GreenerSM Emissions Reduction Calculator
http://www.cleainerandgreener.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: The Kansas School for the Deaf was established in 1861 and is the oldest state educational institution in Kansas. The project called for renovating over 250,000 square feet of space at all ten buildings on campus to make them more energy-efficient while solving maintenance issues and modernizing the facility infrastructure.

PROJECT SCOPE

Solution: ConEdison Solutions, through its subsidiary, Custom Energy Services, began project construction in June after the school year ended and completed work by the end of December. Numerous energy conservation measures, including upgrades to the lighting system, building controls and heating/cooling equipment were implemented in a compressed six month schedule to accommodate the client. The project enhanced the learning and living environment for students without using taxpayer dollars. The improvements also allowed maintenance personnel to spend valuable time on other issues rather than continually making repairs and adjustments to failing equipment.

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Construction Start Date:

June 2004

Construction End Date:

December 2004

ENERGY CONSERVATION MEASURES

Lighting and Controls

- High efficiency lighting
- LED exit signs
- Occupancy sensors

Building Controls

- Energy management system

Heating and Cooling

- Boiler
- Steam traps
- Steam line insulation
- Thermostatic Radiator valve

Water Conservation

- Low-flow water fixtures

Additional Upgrades

- Pool cover