



Case Study

Parsons State Hospital and Training Center Parsons, KS



PROJECT HIGHLIGHTS

Environmental Benefits

2,539 tons of harmful greenhouse gas emissions reduced annually

Equivalent to:

- Preserving 16.1 acres of forest from deforestation* or
- Conserving 5,356 barrels of oil*

Capital Costs

\$2,014,326

Annual Savings

Energy:	\$174,716
Non-Energy:	\$12,560

* Sources:

- Leonardo Academy's Cleaner & GreenerSM Emissions Reduction Calculator
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: Parsons State Hospital partnered with ConEdison Solutions, through its subsidiary, Custom Energy Services, in an effort to generate savings that could be used to address infrastructure improvements such as the replacement of air handlers. They also needed help in solving problems with failing steam traps.

PROJECT SCOPE

Solution: ConEdison Solutions efforts were focused on improving the lighting systems, steam systems, energy management controls, and equipment replacements to improve efficiency. We also had the opportunity to improve energy efficiency through replacement of piping systems and old standard-flow toilets.

Contact:

Tim Posch
Business Manager
2601 Gabriel
Parsons, KS 67357
620-421-6550 ext. 1717

Construction Start Date:

May 2004

Construction End Date:

October 2004

ENERGY CONSERVATION MEASURES

Lighting and Controls

- High efficiency lighting
- LED exit signs
- Occupancy sensors

Building Controls

- Energy management system

Heating and Cooling

- Boiler plant
- Steam line insulation
- Domestic hot water heating
- Steam and condensate pipe repair
- Variable air volume air handling units

Water Conservation

- Low-flow water fixtures

Additional Upgrades

- Laundry facility ozone improvement