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:**

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2601 Gabriel  
Parsons, KS 67357  
620-421-6550 ext. 1717

**Construction Start Date:**

May 2004

**Construction End Date:**

October 2004

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**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**

<table>
<thead>
<tr>
<th>Type</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy</td>
<td>$174,716</td>
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<tr>
<td>Non-Energy</td>
<td>$12,560</td>
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</tbody>
</table>

* Sources:

• Leonardo Academy’s Cleaner & Greener™ 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

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**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

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