Neosho County Community College
Chanute, KS

ENERGY SAVINGS PERFORMANCE CONTRACT PROJECT

Challenge: The Neosho County Community College campus consists of eleven stand-alone buildings. This was the first community college to take advantage of the Kansas Facility Conservation Improvement Program (FCIP). Critical facility needs (roofs, cooling in the gymnasium, code-driven renovations) were addressed immediately, instead of having to wait for future budget dollars to become available. The resulting upgrades help the college save energy while creating a more comfortable learning and working environment for students, faculty, and administrators.

Solution: One area on the campus that was affected directly by the project is the school library’s basement. On campus it is known as the Cave and is a cluster of classrooms and offices constructed many years ago. The workspaces had been closed by the fire marshal and the occupants relocated. ConEdison Solutions was able to make the area usable once again by adding a fire egress hallway, fire sprinklers, and an alarm system.

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Dean of Planning and Operations
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Chanute, KS 66720
620-431-2820 ext. 221

Construction Start Date: March 2005
Construction End Date: August 2005

ENERGY CONSERVATION MEASURES

<table>
<thead>
<tr>
<th>Lighting</th>
<th>Building Controls</th>
<th>Heating and Cooling</th>
<th>Building Envelope</th>
<th>Water</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>• High efficiency lighting</td>
<td>• Energy management system</td>
<td>• Chiller, tower and pump replacement</td>
<td>• Roof replacement</td>
<td>• Low-flow water fixtures</td>
<td>• Washer and dryer replacement</td>
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<td>• LED exit signs</td>
<td>• Occupancy sensors</td>
<td>• Variable frequency drives</td>
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<td></td>
<td>• CAVE improvements</td>
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<td>• Kitchen exhaust hood control</td>
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PROJECT HIGHLIGHTS

Environmental Benefits
613 tons of harmful greenhouse gas emissions reduced annually
Equivalent to:
• Preserving 3.9 acres of forest from deforestation° or
• Conserving 1,293 barrels of oil°

Capital Costs
$2,044,361

Annual Savings
Energy: $50,704
Non-Energy: $20,000
Utility Cost Reduction: 37%

* 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