Energy Conservation Initiative (ECI) Project Summary
Vet Education Center, Facility 1163

What We Did: We replaced and upgraded controls on both the central air handling systems and the occupied spaces throughout the building.

What It Cost: $145,000


What We Saved: $21,000 and 55 tons/year carbon equivalent annually.

Benefits: The controls in VEC were a mixture of digital control generations and were poorly coordinated and difficult to maintain. The project allows the use of strategies that reduce energy usage and improve reliability, while making maintenance easier and faster when problems arise.

The ECI project at VEC was important because it brought all of the controls to a new common, highly functional and reliable level, while reducing energy use and maintenance costs.

Wayne Davenport
Director of Facilities
College of Veterinary Medicine

Vet Education Center

Vet Education Center
Total Energy Use - Pre & Post ECI

Electric

Steam

Chilled Water

Utilities Costs and Use Equivalent # Homes Savings based on average home use:

<table>
<thead>
<tr>
<th>Utility</th>
<th>Historical Energy Use (MMBtu)</th>
<th>*Est. FY 2014 Energy Use (MMBtu)</th>
<th>Energy Savings (MMBtu)</th>
<th>% REDUCTION</th>
<th>Historical (billed rates)</th>
<th>*Est. FY 2014 Cost (billed)</th>
<th>Annual Savings $</th>
<th>Equivalent # Homes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric</td>
<td>7,100</td>
<td>6,800</td>
<td>300</td>
<td>4%</td>
<td>$145,000</td>
<td>$140,000</td>
<td>$5,000</td>
<td>8</td>
</tr>
<tr>
<td>Steam</td>
<td>5,100</td>
<td>4,400</td>
<td>700</td>
<td>14%</td>
<td>$114,300</td>
<td>$100,000</td>
<td>$15,000</td>
<td>10</td>
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<tr>
<td>Chilled Water</td>
<td>1,600</td>
<td>1,500</td>
<td>100</td>
<td>6%</td>
<td>$29,400</td>
<td>$28,000</td>
<td>$2,000</td>
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<tr>
<td>Totals</td>
<td>13,800</td>
<td>12,700</td>
<td>1,100</td>
<td>8%</td>
<td>$288,700</td>
<td>$268,000</td>
<td>$22,000</td>
<td>20</td>
</tr>
</tbody>
</table>

Energy use based on project scope

Equivalent # Homes Savings based on average home use: 40 MMBtu Electric • 90 MMBtu Heat • 50 MMBtu Cooling

Energy and Sustainability
8/2014