



Project Reference

The Pennsylvania State University West Halls Residential Complex

University Park, Pennsylvania

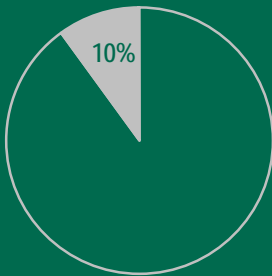
Contact:

Laura Miller, Energy Program Engineer
0113 Physical Plant Building
University Park, PA 16802
814-865-4343

Improvements Implemented:

- ▶ Lighting and lighting controls
- ▶ Controls upgrade
- ▶ Roof insulation
- ▶ Water conservation
- ▶ Steam system improvements
- ▶ Ventilation optimization
- ▶ Retrocommissioning

**Annual Electricity Consumption
Reduction Campus-Wide**



Environmental Impact:

657 tons of harmful greenhouse gas emissions reduced annually

Equivalent to:

- ▶ Preserving 4.89 acres of forest from deforestation
- ▶ Conserving 1,387 barrels of oil

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Sources:
Leonardo Academy's Cleaner & GreenerSM Emissions Reduction Calculator
U.S. Climate Technology Cooperation Gateway, Greenhouse Gas Equivalencies Calculator, <http://www.usc1cgateway.net/tool>

Project Stats

Project Type: College/University

Project Size: 7 buildings, 488,460 sq. ft.

Project Value: \$1,953,457

	Energy	Non-Energy
Guaranteed Annual Savings	\$253,877	\$0

	Start Date	End Date
Construction	May 2006	Dec. 2006
Guarantee	Dec. 2006	Dec. 2016

Challenge:

The West Halls Residential Complex is located on the Pennsylvania State University's main campus in University Park, Pennsylvania. It consists of seven buildings that are from 60 to 80 years old. Many of these buildings were beginning to develop problems because of their age and several had chronic heating challenges in the winter months.

Solution:

Custom Energy performed a detailed audit to examine how the buildings were using energy and proposed a comprehensive set of energy saving measures to be implemented. The resulting upgrades helped the university save energy while creating a more comfortable learning and working environment for students, faculty, and administrators. The energy efficient improvements are completely self-funded by the energy savings they create.



CUSTOM ENERGY [Your Energy Partner for the Future]TM
9217 Cody, Overland Park, KS 66214
p: 800.356.1239 f: 913.888.5558
www.customenergy.com