



Energy Savings Performance Contracting

Saving Facility Resources

Case Study



Washington State University – Lighting Renovations



Project Description:

This project consisted of lighting system upgrades in all areas of each of the following buildings:
Commons Hall; French Administration; Fulmer Hall Johnson; Tower Kruegel; McAllister; McCoy Hall; Safety Building; Swine Center, and Webster Hall

Project Completed: March 2006
Total Project Cost: \$886,150
Project Number: GA Project #2001-162 (141)

<i>Annual Energy Project Savings:</i>			
<i>Electrical</i>	\$35,300	kWh	1,206,321
<i>Natural Gas</i>	\$0	Therms	0
<i>Fuel</i>	\$0	Oil	0
<i>Water</i>	\$0	Gallons	0
		CCF	0
<i>Total Avoided Costs:</i>			
Guaranteed	\$50,758	Actual	\$56,576

Funding Sources:

Loans	\$779,210
Utility Incentives	\$6,940
Capital	\$100,000

Project Managers:

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Lighting levels were increased by
68.3% in each room surveyed

*McKinstry Essention
Monitoring and Verification Report*

Emission Reductions:

Annual Reduction in CO₂:

965,057 pounds per year

Annual CO₂ Reduction Represents:

Removing 64 cars from the road, or

Planting 132 acres of trees

Powering 89 homes

Monitoring & verification report details:

McKinstry surveyed light levels throughout each facility to assure they met or exceeded original light levels, and monitored metered energy consumption using the 12 month period before and after installation.

Outcome:

- Electricity dollar savings exceeded projections by 11%.
- Average light levels increased by 68%.

Analysis:

- Predicted savings adequately pays for loan financing.

For more information: email GAEnergyTeam@ga.wa.gov
Visit our web site at <http://www.ga.wa.gov/EAS/epc/esp.htm>