

# Energy Savings Performance Contracting

## Saving Facility Resources Case Study



### State of Washington, Dept. of Corrections Center - Coyote Ridge



#### Project Description:

This project included replacing failing air handling units with ones that incorporate CO2 and occupancy controls, a new direct digital control (DDC) system for all of the HVAC equipment, a heat recovery system for the kitchen, and attic exhaust fans for the housing units and inmate services. Also involved in this project are lighting upgrades throughout the complex and new control valves and controllers for water conservation.

**Project Completed Total:** January, 2008  
**Project Cost:** \$523,959  
**Project Number:** GA Project \$2006-227 (1-1)

#### Annual Energy Project Savings:

<b>Electrical</b>	\$19,781	<b>kWh</b>	366,139
<b>Natural Gas</b>	\$15,664	<b>Therms</b>	19,026
<b>Fuel</b>	0		0
<b>Water</b>	\$4,474	<b>Gallons</b>	38,911
<b>Maintenance</b>	\$11,285		
<b>Total Avoided Costs:</b>			
<b>Guaranteed</b>			<b>\$51,204</b>

## Funding Sources:

Loans:	\$369,307
Utility Incentives:	\$31,993
Other: Capital	\$122,659

## Project Managers:

### Client Contact Information:

Mark Noyes,  
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Department of Corrections  
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### General Administration's Contact:

Kirsten Wilson,  
P.E., Energy Systems Engineer,  
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### Energy Service Company's Contact:

Gordon Helgeson,  
Project Manager,  
Quantum Engineering & Develop., Inc.  
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## ***Emission Reductions:***

*Annual Reduction in CO2:*

**532,639 pounds per year**

*Annual CO2 Reduction Represents:*

**Removing 36 Cars from the road, or  
Planting 73 acres of trees, or  
Powering 27 homes**

**This project greatly improved the mechanical and electrical systems at the Coyote Ridge Corrections Center while saving energy. The comfort, indoor air quality, and system maintenance capabilities were all improved as a result of this project.**

For more information: email [GAEnergyTeam@ga.wa.gov](mailto:GAEnergyTeam@ga.wa.gov)  
Visit our web site at <http://www.ga.wa.gov/EAS/epc/espc.htm>