Energy Efficiency at the West Virginia Division of Corrections

May 21, 2015
Energy Savings Contracts

- Reduce energy usage
- Reduce water usage
- Reduce operating and maintenance costs
- Reduce emissions
- Reduce waste

In short, **Performance Contracting** is a procurement tool that allows you to leverage the savings you get from making building improvements in order to pay for the improvements.
WV DOC Project Objectives

- Long term savings, comfort and building functionality
- Support goals of WV Energy Roadmap
- Ensure improvements meet correctional standards
- Address needed deferred maintenance projects
Locations

Mt. Olive Correctional Complex
- Approx. Population - 1,050
- Square Footage - 483,000

Denmar Correctional Center
- Approx. Population - 216
- Square Footage - 120,000

Huttonsville Correctional Center
- Approx. Population – 1,130
- Square Footage – 477,000

Pruntytown Correctional Center
- Approx. Population – 370
- Square Footage – 161,000
WV Division of Corrections
Energy and Facility Improvement Measures

- Heating System, Boilers, Pumps
- Administrative Cooling Systems
- Temperature Control Systems
- Piping Distribution System
- Air Distribution Systems
- Domestic Hot Water Heaters
- Water System Upgrades
- Water Softener System
- Energy Efficient Dishwashers
- Building Envelope Improvements
- Central Laundry Plant
- Lighting System Upgrades
- Training Services
Photo Tour

Huttonsville Correctional Center

Existing Steam Piping System

New Piping System
Photo Tour

Pruntytown Correctional Center

Building 18/19 Existing Boiler

Building 18/19 New Boilers and Pumps
WV Division of Corrections Financial Impact

- Facility Improvements: $18,000,000
- Guaranteed Annual Savings $1.2 million
- Improvements 100% funded by reduction in energy and operational savings
- Approximately $1 million in savings through 9 months of first year of the guarantee
- On track to exceed first year savings guarantee by approximately 10%
WV Division of Corrections Project Benefits

- Long term infrastructure improvements
- Reduction in energy, water and operational costs
- Improved environmental conditions
- Addresses deferred maintenance
- Support WV Energy Plan and Policies
Energy Savings Contract Benefits

- New jobs and additional spending in the State economy
- Improved energy efficiency in State facilities
- Significant facility infrastructure improvements
- Reduced expenses and operating costs
- Reduced GHG emissions
- Support WV Energy Plan and Policies
Additional Project References

- Kanawha County Schools
- Marion County Schools
- Marshall County Commission
- Preston County Commission
- Raleigh County Commission