



# Energy Efficiency at the West Virginia Division of Corrections



May 21, 2015

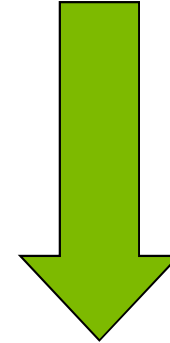




## Energy Savings Contracts

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- 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

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





## Locations

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### 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

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- 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

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### Pruntytown Correctional Center



**Building 18/19 Existing Boiler**



**Building 18/19 New Boilers and Pumps**







## WV Division of Corrections Project Benefits

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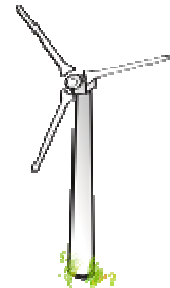
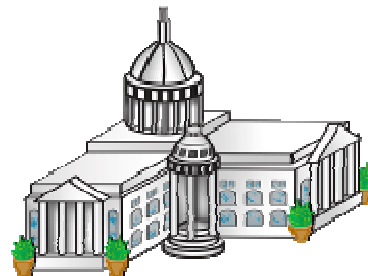
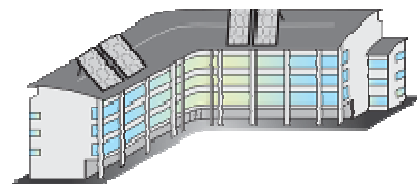
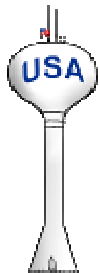
- **Long term infrastructure improvements**
- **Reduction in energy, water and operational costs**
- **Improved environmental conditions**
- **Addresses deferred maintenance**
- **Support WV Energy Plan and Policies**



## Energy Savings Contract Benefits

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- **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

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



# Questions

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## Questions & Discussion

