

PROJECT REFERENCE

GREENUP COUNTY FISCAL COURT – KY KRS 45A.352 Energy Savings Performance Contract



CHALLENGES

The Greenup County Detention Center was built in 1989. The HVAC was aged, the plumbing fixtures was becoming a nightmare to maintain and find parts, and the roof had been leaking for years. Mike Worthington worked with Perfection Group, Inc. to initially provide a no cost facility audit to determine a needs assessment to take to the County Judge and Commissioners. Once all parties saw the current state of the Detention Center they knew an Energy Savings Performance Contract was exactly what they needed to update the facility.

SOLUTIONS

The project is covered the Detention Center only. Energy conservation measures that are being implemented are as follows:

- ▶ Upgraded all interior and exterior lighting to LED
- ▶ Installation of new Direct Digital Controls System
- ▶ Installed all new High Efficiency Roof Top HVAC Units
- ▶ Installed new High Efficiency Heat Pump for Control Room
- ▶ Installed all new High Efficiency Exhaust Fans on the roof
- ▶ Replaced Make Up Air Unit for the Kitchen
- ▶ Replaced the Washers and Dryers with new technology
- ▶ Installed new Refrigeration Units for the Kitchen
- ▶ Installed new High Efficiency Dishwasher for Kitchen
- ▶ Replaced the aged Generator with new unit
- ▶ Water Conservation
- ▶ Replaced roof with new Flood Coat & Gravel System
- ▶ Installed Vending Machine Controls



“Our Detention Center was getting to the point where we had to do something to update the building and also reduce our operating costs. The Perfection Group, Inc. came to us and provided Greenup County a turn-key facility solution that updated nearly all of our energy using devices.”

- Bobby Carpenter, Judge Executive

PROJECT SUMMARY

LOCATION: Greenup, Kentucky

PROJECT COST: \$1,495,060

ANNUAL GUARANTEED SAVINGS: \$31,591

ANNUAL OPERATIONAL SAVINGS: \$32,000

TOTAL PROGRAM SAVINGS: \$2,287,238

OTHER BENEFITS: Utility Rebates

Project to be completed: October 2017