

PROJECT REFERENCE

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



CHALLENGES

The county's aging courthouse HVAC and the Detention Centers continuous HVAC failures led them to working with Perfection Group to help fix this problem. This, coupled with rising utility costs, gave the Carter County the opportunity to pursue Performance Contracting as a means to achieve their goals. The project construction is expected to being on March 1, 2016.

SOLUTIONS

The project is covering 3 facilities. Energy conservation measures that are being implemented are as follows:

- ▶ Lighting retrofits and occupancy sensors
- ▶ Installation of an energy-efficient multi-zone Variable Refrigerant Flow system at the Courthouse
- ▶ Centralized building automation systems
- ▶ Retro-commissioned the refrigeration equipment at the Jail to increase efficiency and extend the system life-cycle
- ▶ Replaced (30) water source heat pumps at the Detention Center with environmentally friendly R-410A refrigerant
- ▶ Implemented water conservation measures at the Jail by installing low flush combination units and showers
- ▶ Retro-fitting (9) county vehicles with Liquid Propane to achieve major fuel savings
- ▶ Implementing a Fleet Management Program to reduce operating costs on aged vehicles



“Our Detention Center is a very important source of revenue for Carter County, if we don't fix the HVAC it could jeopardize our state and federal inmate population and in turn lose much needed revenues. This ESPC will address just that and other important capital projects that need done throughout our facilities.”

- Mike Malone, Judge Executive

PROJECT SUMMARY

LOCATION: Grayson, Kentucky

PROJECT COST: \$1,755,373

ANNUAL GUARANTEED SAVINGS: \$34,105

ANNUAL OPERATIONAL SAVINGS: \$40,000

ANNUAL PROPANE SAVINGS: \$16,200

ANNUAL FLEET SAVINGS: \$18,684

TOTAL PROGRAM SAVINGS:

OTHER BENEFITS: Utility Rebates

Project to be completed: Nov. 2016