



Cabinet for Health and Family Services

- Outwood ICF/MR/DD and Caney Creek Rehabilitation Center
- Managed by the Kentucky River Community Care, Inc., a non-profit organization with the mission of providing a residential setting for the rehabilitation of persons with chronic mental illness.

Major Issues

- Need for Energy Savings
- Outdated Equipment

Solution

- Guaranteed Energy Savings Performance Contract
- Trane
- \$ 1,163,853 million contract / 10 year guarantee term
- \$ 27,859 of annual energy and operational savings guaranteed at Caney Creek
- \$ 68,364 of annual energy and operational savings guaranteed at Outwood ICF/MR/DD



Project Scope - Caney Creek

- Lighting Retrofits
- Recommission existing domestic water system
- New hot water condensing boilers and insulated storage tank
- New cooling tower and new circulating pumps
- New cooling tower pumps
- Design, furnish, install and commission variable speed controller for kitchen exhaust hood
- New thermostats on all heat pumps
- Install and commission boiler controller
- DDC controller in mechanical room to control/enable primary heating and cooling equipment
- Occupancy devices added to the existing vending machines to reduce the vending machine energy consumption during extended periods of non-use



Project Scope - Outwood ICF/MR/DD

- Lighting Retrofits
- Recommission domestic water system
- Design, install and commission steam boiler replacement with new high efficiency condensing hot water boilers.
- Remove the existing steam to hot water converter.
- Replace the steam domestic hot water heater with new high efficiency gas heater and tank in mechanical room.
- Replace steam dishwasher and two steam kettles in kitchen
- Replace steam coil in make-up air unit with hot water coil
- Replace two 20Hp building hot/chilled water circulating pumps.
- HVAC Control Upgrades



Environmental Overview

Caney Creek

Reduced Greenhouse Gas Emissions

- 167 metric tons CO₂ / 1 metric tons Sulfur Dioxide / 2 metric ton Nitrous Oxide

Equivalent Reductions

- Removing 161 cars from the road each year
- Preserving 6 acres of trees annually

Outwood ICF/MR/DD

Reduced Greenhouse Gas Emissions

- 393 metric tons CO₂ / 2 metric tons Sulfur Dioxide / 4 metric ton Nitrous Oxide

Equivalent Reductions

- Removing 384 cars from the road each year
- Preserving 15 acres of trees annually

Contract # CT2-785-1200000294