



Human Resources Campus

- Central plant and three large office buildings
- Totals 750,000 square feet
- Includes the largest state-owned office building in KY
- Located in Frankfort, Kentucky

Major Issues

- Once state-of-the art, now 30 years old
- Needs included new lighting, HVAC controls and windows
- HVAC system in one building was about to fail.
- Spending \$643,000 on utilities in 2000

Solution

- Guaranteed Energy Savings Performance Contract / 2004
- ESCO: Siemens Industry, Inc.
- \$5.22 million contract / 12 year guarantee term
- \$436,000 of annual energy and operational savings guaranteed



Project Scope

- Heat recovery chiller in the central plant
- Submetering of cooling towers to avoid sewer charges
- Air handler replacement in Health Services Building
- Window replacement in Health Services Building
- Demand control ventilation
- Steam trap replacement
- Side stream heat recovery chiller
- Variable frequency drives
- New lighting and occupancy sensors
- Water conservation
- Retro-commissioning





Environmental Overview

Reduced Greenhouse Gas Emissions

- 13,315 metric tons per year

Equivalent Reductions

- Removing 2,476 cars from the road each year
- Preserving 95 acres of trees annually

