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
- 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