University of Louisville

• Located in Jefferson County, Kentucky
• Founded in 1798
• Enrollment is 22,293 students

Major Issues
• 88 buildings / 6.2 million square feet of space
• Rising electric rates
• Limited state funding for capital renewal
• How to make energy efficiency a part of its sustainability initiatives

Solution
• Guaranteed Energy Savings Performance Contract
• ESCO: Siemens Industry, Inc.
• $46.2 million / two phase performance contract
• $4.4 million of annual energy and operational savings guaranteed
Project Scope

- 117,483 fluorescent lamps for interior lighting
- 41,714 premium efficiency ballasts
- 2,011 occupancy sensors for lighting
- Installed building automation for scheduling and setback campus-wide
- Water conservation campus-wide
- Replaced two large coal boilers with two new natural gas fired boilers
- 1,152 insulated steam jackets on control valves
- Replaced major ventilation equipment and controls in six buildings on Belknap Campus and three buildings on the Health Science Campus
- Large capacitor banks for power factor correction
- Training, start-up, and commissioning
Environmental Overview

Reduced Greenhouse Gas Emissions
- 41,899 metric tons per year

Equivalent Reductions
- Removing 7,690 cars from the road each year
- Preserving 296 acres of trees annually