



# 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

