

Contract Details

Contract Type:

Energy Performance Contract (EPC);
Guaranteed Energy Savings; Energy
Efficiency; Water Conservation;
Lighting Retrofit; Reduce Carbon
Footprint

Facility Size:

69 Buildings, 1,582,806 square feet

Energy Project Size:

\$2.5 million

Energy Savings:

over \$455,000

About Washington and Lee

Located in the historic city of Lexington, Virginia, Washington and Lee University is a nationally recognized school of 1,770 undergraduate students.

Founded in 1749, Washington and Lee University is named for George Washington and Robert E. Lee.

Learn more at www.wlu.edu

About Ameresco

Ameresco, Inc. is one of the leading global energy services providers. We deliver long-term customer value, environmental stewardship, and sustainability through energy efficiency services, alternative energy solutions, supply management, and innovative facility renewal strategies. The company has over 700 employees in regional offices throughout North America. Ameresco, Inc. has constructed billions in energy projects throughout the world.

Learn more at www.ameresco.com



The historic university is dedicated to becoming carbon neutral and embarked on a mission to upgrade its campus to reflect this goal. Phase II of the project with Ameresco continues to be in development.

Customer Benefits

Washington and Lee University (W&L) had a long term goal to become carbon neutral. As a part of the plan, W&L selected Ameresco, Inc. to perform an energy savings performance contract through a competitive bid process. Ameresco was responsible for the development, design, implementation and on-going measurement and verification of this project.

The overall goal was to reduce the campus' energy consumption and carbon footprint. Phase I was started in July of 2006 and finished construction in 2008. The project has met and exceeded its energy conservation goals to date. Phase II is under development.

Environmental Benefits

Through the University's partnership with Ameresco, W&L will have the following annual carbon reduction equivalents:

- ▶ the removal of 483 cars off the road
- ▶ the planting of 539 acres of trees
- ▶ the reduction of 2,787 tons of CO₂ annually
- ▶ the elimination of 284,298 gallons gasoline burned
- ▶ the powering of more than 306 average size homes

The project helps reduce the need for energy from traditional power plants fueled by fossil fuels.

Services Provided

This project enabled W&L to obtain the widest range of infrastructure improvements funded through savings while improving campus-wide operations and environmental conditions.

The scope of work included a lighting retrofit, water conservation, boiler modifications, steam traps, variable speed drives and pool systems. Fixtures retrofitted at W&L received upgraded lighting in over 13,470 locations. The upgraded lighting included fluorescent, LED, and HID type lamps. Ameresco replaced existing standard flow toilets with low flow models, replaced urinals with low flow flush valves, replaced standard flow showerheads, and modified lavatory and kitchen faucets with low flow tamper resistant faucet restrictors.

Ameresco installed an economizer on Boiler No. 1 and Boiler No. 2 to improve the boiler efficiency and decrease fuel consumption by reducing the flue gas temperature. The heat recovered by the economizers preheats boiler feedwater, thereby increasing the overall efficiency of the boiler. Once construction was complete, the project annually reduced the University's carbon footprint by 2,787 metric tons of CO₂.