



CASE STUDY

WASHINGTON AND LEE UNIVERSITY, VA

TECHNOLOGY TYPE

**ENERGY EFFICIENCY
ENERGY SAVINGS PERFORMANCE CONTRACT
GUARANTEED ENERGY SAVINGS
LIGHTING RETROFIT
WATER CONSERVATION**

FACILITY SIZE

1,582,806
SQ FT
(69 BUILDINGS)

ESPC ENERGY PROJECT SIZE

\$2.5
MILLION

ANNUAL CO₂ REDUCTION

2,787
METRIC TONS

ENERGY SAVINGS:

\$455,000+

SUMMARY

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.



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.

- Upgraded lighting included fluorescent, LED, and HID type lamps
- Replaced existing standard flow toilets with low flow models
- Replaced urinals with low flow flush valves
- Replaced standard flow showerheads
- Modified lavatory and kitchen faucets with low flow tamper resistant faucet restrictors
- Installed an economizer on Boiler No. 1 and Boiler No. 2 to improve efficiency

CUSTOMER BENEFITS

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.

- Reduces the need for energy from traditional power plants fueled by fossil fuels
- Upgrades to lighting in over 13,470 locations
- Reduces the University's carbon footprint by 2,787 metric tons of CO₂ annually

For the full story, visit: ameresco.com