



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+

AMERESCO

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