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| <b>Facility type</b> | University campus  |
| <b>Project cost</b>  | \$8.5 million      |
| <b>Cost savings</b>  | \$429,009 (annual) |
| <b>Contract term</b> | 14 years           |
| <b>Contract type</b> | GESA               |

## UNIVERSITY OF MARY WASHINGTON

Fredericksburg, VA

The University of Mary Washington and NORESKO partner for energy efficiency and to encourage 'green' behavior on campus.

The University of Mary Washington (UMW) enjoys a rich history and has been named among the nation's top-rated public universities by several publications. In 2005, UMW engaged NORESKO to identify ways to conserve energy in its daily operations and to meet the requirements of the Governor's Executive Order.

Under the 14-year guaranteed energy savings contract, NORESKO identified 8 ECMs that included lighting, water and heating system improvements. The project also included renovations to Seacobeck Hall, the campus dining facility. NORESKO implemented structural improvements, upgraded mechanical and plumbing systems and installed new kitchen equipment with no disruption in service. Project costs were paid through a combination of utility and O&M savings and \$4.2 million of capital funding by UMW.

UMW also implemented NORESKO's Energy Conservation Through Behavior Change® program, which is producing measurable energy and water savings by promoting a culture of energy efficiency and conservation among the student body. The program is orchestrated almost entirely by undergraduate residential students, with ongoing support from NORESKO.

### Technical Highlights

- ▶ Lighting retrofits
- ▶ Energy management systems upgrade and integration
- ▶ Water conservation retrofits
- ▶ Sub-metering
- ▶ Insulate piping
- ▶ Plug load controls
- ▶ Reduce summer steam pressure
- ▶ Condensate line replacement
- ▶ Dining Hall renovation

### Environmental Impact

- ▶ 3,261,279 kWh reduction in annual electricity consumption
- ▶ Equivalent to 473 cars removed from the road in the first year

**"NORESCO's team demonstrated capabilities above and beyond the typical requirements for an energy conservation project. They exhibited invaluable creativity, determination and campus-specific knowledge to complete a complex and challenging modernization to our main dining facility and kitchen".**

President Richard Hurley  
Univ. of Mary Washington