



“The jacket designed by ThermaXX for the DA tank has made it so much cooler in the area already.”

--Bill Johnson, Energy Management, American University

Case Study – American University, Central Heating Plant

PROJECT INFORMATION

■ **Upgrade Technology:**

Insulation jackets for DA tank and components on steam lines

■ **Location:**

Washington, DC

ThermaXX LLC

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We help commercial and industrial customers improve energy efficiency and save money. Let us help you.

OVERVIEW

American University is a leader in the education sector, both in Washington, DC and worldwide. In 2011, AU was awarded the Gold rating (the highest) by the Association for the Advancement of Sustainability in Higher Education (AASHE). They are also #2 on The Sierra Club’s list of “Top 10 Greenest Colleges.” So, it was an easy choice for them to partner with ThermaXX and the DC Sustainable Energy Utility (DCSEU) to improve energy efficiency even further on campus.

In an effort to make operations more sustainable, American took advantage of DCSEU’s custom incentive program, which provides lucrative rebates for high-efficiency retrofits of lighting, HVAC, and other energy systems within commercial facilities.

American University called upon insulation and smart monitoring specialist, ThermaXX to install custom-made, removable insulation jackets, to prevent the loss of heat from HVAC components, including boilers, tanks, and steam traps. As a result of this insulation system, the University’s boiler room is operating more efficiently, with less waste heat, a lower ambient temperature, and reduced energy costs. Even better, American should see a return on their energy-saving investment in just over a year!

ENERGY EFFICIENCY MEASURES INSTALLED

- Custom, removable insulation jackets for components in the University’s boiler room, including:
 - Non-return valves, gate valves, steam trap assemblies, PRV’s, boiler doors, and a deaerator tank

AMERICAN UNIVERSITY	
UPGRADES	
Total Cost	\$20,279
DCSEU Incentive Payment	\$8,157
Cost to Customer	\$12,122
ESTIMATED ANNUAL SAVINGS	
Annual Savings	\$8,410
Payback Period	1.4 years
Energy Consumption Savings	7,0008 therms/year